

New York	NY State Electric & Gas Corp	IBE	C-28167.68	Electric	Vertically Integrated	2/18/1982	110.8	13.88	17.50	NA	1,770.00
Michigan	Upper Peninsula Power Co		C-U-7173	Electric	Vertically Integrated	7/6/1982	5.6	11.32	19.00	29.46	NA
Illinois	Ameren Illinois	AEE	D-82-0152 (IP-E)	Electric	Vertically Integrated	2/19/1982	136.9	12.67	17.22	42.79	NA
Indiana	Duke Energy Indiana, LLC	DUK	Ca-36818	Electric	Vertically Integrated	3/26/1982	106.6	12.48	18.85	35.04	1,572.10
Mississippi	Entergy Mississippi LLC	ETR	C-U-4224	Electric	Vertically Integrated	7/30/1982	93.9	12.92	18.00	32.18	655.20
Montana	PacifiCorp	BRK A	D-82-4.28	Electric	Vertically Integrated	4/27/1982	9.6	12.04	17.50	35.30	70.80
New York	Long Island Lightng Co		C-28176	Electric	Vertically Integrated	2/28/1982	109.0	14.17	18.20	44.69	1,899.10
Florida	Duke Energy Florida LLC	DUK	D-820100-EU	Electric	Vertically Integrated	6/30/1982	189.9	10.72	18.00	28.95	2,110.90
Pennsylvania	Duquesne Light Co		C-R-821945	Electric	Vertically Integrated	4/30/1982	155.1	12.30	18.00	35.10	1,813.30
Washington	PacifiCorp	BRK A	Ca-U-82-12_35	Electric	Vertically Integrated	3/17/1982	50.1	12.23	17.50	35.90	324.20
Virginia	Appalachian Power Co	AEP	C-82-162-E-42T	Electric	Vertically Integrated	4/8/1982	81.0	12.79	17.50	36.00	1,067.50
Iowa	MidAmerican Energy Co	BRK A	D-RPU-82-12	Electric	Vertically Integrated	4/13/1982	21.0	11.64	17.20	39.90	NA
New Mexico	Public Service Co of NM	PNM	C-1693	Electric	Vertically Integrated	12/10/1981	38.3	11.54	15.50	37.00	NA
Maryland	Potomac Electric Power Co	EXC	C-7662 0-66116	Electric	Vertically Integrated	7/28/1982	83.3	12.05	17.75	39.40	1,094.80
Delaware	Delmarva Power & Light Co	EXC	D-82-22	Electric	Vertically Integrated	7/9/1982	42.2	11.87	17.00	39.80	662.80
Virginia	Appalachian Power Co	AEP	C-PUE-820030	Electric	Vertically Integrated	4/30/1982	14.4	11.68	16.00	33.58	NA
Kentucky	Louisville Gas & Electric Co	PPL	C-8616 (elec)	Electric	Vertically Integrated	9/10/1982	60.5	10.68	16.50	36.50	1,011.50
New York	Consolidated Edison Co of NY	ED	C-28211	Electric	Vertically Integrated	4/16/1982	491.7	12.12	17.25	50.90	5,746.10
South Carolina	Duke Energy Carolinas LLC	DUK	D-82-50-E O-83-92	Electric	Vertically Integrated	2/16/1982	125.5	12.28	16.40	41.16	1,565.90
Kentucky	Kentucky Utilities Co	PPL	C-8624	Electric	Vertically Integrated	9/22/1982	49.1	12.30	18.00	40.00	803.40
New York	Niagara Mohawk Power Corp	NG	C-28225.26	Electric	Vertically Integrated	4/30/1982	159.8	12.90	17.00	41.97	2,682.80
Wisconsin	Wisconsin Public Service Corp	WEC	D-6690-UR-19-E	Electric	Vertically Integrated	7/2/1982	23.1	12.27	15.50	39.25	532.30
Kansas	Evergy Metro Inc	EVRG	D-133.002-U	Electric	Vertically Integrated	8/3/1982	26.7	13.15	18.00	40.00	267.30
Ohio	Duke Energy Ohio Inc	DUK	D-82-485-EL-AIR	Electric	Vertically Integrated	7/2/1982	116.6	12.66	18.75	34.20	NA
Michigan	DTE Electric Co	DTE	C-U-6949	Electric	Vertically Integrated	9/14/1981	512.3	12.26	17.00	28.37	6,417.10
Rhode Island	Narraquansett Electric Co	NG	D-1659	Electric	Vertically Integrated	7/2/1982	13.1	12.88	18.00	37.47	153.20
Kansas	Evergy Kansas South	EVRG	D-134.792-U	Electric	Vertically Integrated	8/13/1982	46.5	13.07	18.50	37.58	601.80
Wyoming	PacifiCorp	BRK A	D-9454_ SUB 18	Electric	Vertically Integrated	6/23/1982	32.8	12.72	17.50	35.30	366.40
North Dakota	Otter Tail Power Co	OTTR	C-10_334	Electric	Vertically Integrated	4/27/1982	13.9	12.05	17.00	35.05	177.50
California	Sierra Pacific Power Co	BRK A	AP-820843 De-8304066	Electric	Vertically Integrated	5/17/1982	6.3	13.55	18.00	41.14	NA
Massachusetts	Western Massachusetts Electric	ESK	DPU-1300	Electric	Vertically Integrated	10/15/1982	21.4	12.74	17.50	32.98	332.50
South Dakota	Northern States Power Co	XEL	D-F-3422	Electric	Vertically Integrated	11/17/1982	4.9	11.30	16.00	41.89	NA
Nevada	Sierra Pacific Power Co	BRK A	D-83-111	Electric	Vertically Integrated	1/12/1983	15.2	13.12	18.00	36.63	NA
Ohio	AES Ohio	AES	C-82-517-EL-AIR	Electric	Vertically Integrated	12/22/1982	112.8	13.45	18.60	38.39	1,462.10
Montana	NorthWestern Corp	NWE	D-82 8.54	Electric	Vertically Integrated	8/11/1982	47.6	12.83	17.50	37.68	468.70
Michigan	Consumers Energy Co	CMS	C-U-6923	Electric	Vertically Integrated	7/2/1981	276.8	11.44	17.00	30.66	5,152.10
New Jersey	Rockland Electric Company	ED	D-827-612	Electric	Vertically Integrated	7/7/1982	6.8	11.13	14.90	45.09	NA
Utah	PacifiCorp	BRK A	C-82-035-13	Electric	Vertically Integrated	9/24/1982	88.4	12.56	16.30	41.63	1,515.30
Illinois	Ameren Illinois	AEE	D-82-0525 (CIPS)	Electric	Vertically Integrated	7/9/1982	20.4	13.01	18.00	36.53	203.00
Hawaii	Hawaii Electric Light Co	HE	D-4393	Electric	Vertically Integrated	12/29/1981	8.0	12.48	17.00	36.22	NA
New York	Orange & Rockland Utilts Inc	ED	C-28278	Electric	Vertically Integrated	7/7/1982	11.5	11.48	16.00	47.12	363.00
Massachusetts	NSTAR Electric Co	ES	DPU-1350	Electric	Vertically Integrated	11/16/1982	74.0	11.85	17.00	35.73	1,123.30
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-11-E	Electric	Vertically Integrated	8/18/1982	11.9	12.33	16.00	42.30	196.50
Missouri	Empire District Electric Co	ACON	C-ER-83-42	Electric	Vertically Integrated	7/30/1982	5.0	11.39	16.50	37.88	NA
Maryland	Baltimore Gas and Electric Co	EXC	C-7695 0-66273-E	Electric	Vertically Integrated	12/6/1982	105.4	11.70	16.50	40.30	2,704.40
Missouri	Evergy Missouri West	EVRG	C-ER-83-40	Electric	Vertically Integrated	8/13/1982	15.2	11.78	16.50	33.43	290.20
Missouri	Evergy Metro Inc	EVRG	C-ER-83-49	Electric	Vertically Integrated	8/26/1982	51.3	13.20	19.00	36.45	561.20
South Carolina	Dominion Energy South Carolina	D	D-82-240-E O-83-404	Electric	Vertically Integrated	7/1/1982	86.2	12.79	16.75	40.78	1,526.60
Wisconsin	Northern States Power Co	XEL	D-4220-UR-4-E	Electric	Vertically Integrated	7/30/1982	7.5	12.26	15.00	43.70	162.30
New York	Rochester Gas & Electric Co	IBE	C-28313.14	Electric	Vertically Integrated	8/27/1982	46.6	12.59	16.50	42.84	688.00
Washington	Puget Sound Energy Inc		Ca-U-82-38	Electric	Vertically Integrated	8/30/1982	115.3	12.63	16.25	47.00	1,146.30
Texas	Texas-New Mexico Power Co	PNM	D-4985	Electric	Vertically Integrated	1/28/1983	13.0	13.42	18.75	35.19	147.10
Ohio	The Toledo Edison Co	FE	C-82-1024-EL-AIR	Electric	Vertically Integrated	11/5/1982	48.0	12.76	16.34	33.85	1,099.50
Indiana	Northern IN Public Svc Co	NI	Ca-37023	Electric	Vertically Integrated	11/30/1982	229.2	11.23	18.50	31.83	NA
Arkansas	Entergy Arkansas LLC	ETR	D-82-314-U	Electric	Vertically Integrated	11/19/1982	126.5	12.66	17.57	32.35	1,977.20
Pennsylvania	PPL Electric Utilities Corp	PPL	C-R-822169	Electric	Vertically Integrated	11/22/1982	296.1	12.56	16.33	34.80	NA
Connecticut	The United Illuminatio Co	IBE	D-83-03-01	Electric	Vertically Integrated	3/22/1983	45.0	13.60	17.50	40.00	NA
Wisconsin	Wisconsin Power and Light Co	LNT	D-6680-UR-13-E	Electric	Vertically Integrated	1/10/1983	7.6	13.13	14.75	44.70	NA
New Mexico	El Paso Electric Co		C-1833	Electric	Vertically Integrated	7/15/1983	8.7	13.04	15.00	38.12	NA
Ohio	Ohio Edison Co	FE	C-82-1025-EL-AIR	Electric	Vertically Integrated	11/26/1982	215.2	14.01	19.00	38.94	2,436.60
Hawaii	Hawaiian Electric Co	HE	D-4536	Electric	Vertically Integrated	7/6/1982	47.5	12.26	17.00	40.00	NA
North Carolina	North Energy Progress LLC	DUK	D-E-2_ SUB 461	Electric	Vertically Integrated	2/11/1983	165.2	11.76	16.50	38.90	2,311.90
Kentucky	Kentucky Power Co	AEP	C-9734	Electric	Vertically Integrated	3/5/1983	33.1	13.05	17.50	36.08	445.40
South Carolina	Duke Energy Progress LLC	DUK	D-82-329-E O-83-583	Electric	Vertically Integrated	9/8/1982	45.4	11.78	15.50	37.36	694.70
Georgia	Georgia Power Co	SO	D-3397-U	Electric	Vertically Integrated	3/7/1983	319.5	12.71	16.50	35.61	NA
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7_ SUB 358	Electric	Vertically Integrated	3/1/1983	112.9	11.94	15.50	40.00	2,589.20
Arizona	Arizona Public Service Co	PNW	D-U-1345 De-53761-E	Electric	Vertically Integrated	8/27/1982	89.2	13.59	16.50	40.85	NA
Wyoming	PacifiCorp	BRK A	D-9441_ SUB 18	Electric	Vertically Integrated	12/17/1982	11.5	12.40	16.00	41.26	NA
Virginia	Appalachian Power Co	AEP	C-PUE-830037	Electric	Vertically Integrated	5/10/1983	42.2	11.66	16.00	32.48	993.00
Illinois	MidAmerican Energy Co	BRK A	D-82-0892 (elec)	Electric	Vertically Integrated	11/23/1982	24.1	12.29	17.00	39.00	245.30
Florida	Tampa Electric Co	EMA	D-830012-EU	Electric	Vertically Integrated	3/25/1983	80.2	10.34	17.00	36.46	1,251.90
Louisiana	Cleco Power LLC		D-U-15622	Electric	Vertically Integrated	11/19/1982	38.1	13.12	17.10	40.00	557.60
Pennsylvania	Pennsylvania Electric Co	FE	C-R-822250	Electric	Vertically Integrated	1/21/1983	65.2	11.16	17.00	33.94	NA
Pennsylvania	Metropolitan Edison Co	FE	C-R-822249	Electric	Vertically Integrated	1/21/1983	50.0	11.15	17.00	37.55	NA
Oregon	PacifiCorp	BRK A	C-U-F-3900_ UE-4	Electric	Vertically Integrated	12/28/1982	49.0	12.52	17.07	35.30	NA
Rhode Island	Blackstone Valley Electric		D-1701	Electric	Vertically Integrated	1/28/1983	5.9	14.46	17.00	36.35	NA
New Jersey	Jersey Cntrl Power & Light Co	FE	D-831-110	Electric	Vertically Integrated	1/28/1983	108.7	10.99	17.00	36.75	NA
Oregon	Portland General Electric Co	PG&E	C-UE-1.6	Electric	Vertically Integrated	1/10/1983	63.4	13.23	16.50	39.43	NA
Iowa	MidAmerican Energy Co	BRK A	D-83-29	Electric	Vertically Integrated	8/1/1983	20.9	11.16	15.10	36.79	NA
Indiana	Indiana Michigan Power Co	AEP	Ca-37251	Electric	Vertically Integrated	8/31/1983	44.3	11.54	17.00	30.70	1,029.20
Pennsylvania	PECO Energy Co	EXC	C-R-822291	Electric	Vertically Integrated	2/23/1983	228.2	13.42	17.68	39.00	NA
Virginia	Virginia Electric & Power Co	D	C-PUE 830029	Electric	Vertically Integrated	8/29/1983	81.1	10.52	15.00	33.76	4,249.40
North Carolina	Virginia Electric & Power Co	D	D-E-22_ SUB 273	Electric	Vertically Integrated	2/7/1983	25.3	11.50	16.00	35.82	NA
Maine	Central Maine Power Co	IBE	D-82-266	Electric	Vertically Integrated	3/7/1983	39.3	12.78	16.50	37.48	757.30
Connecticut	The CT Light & Power Co	ES	D-83-07-15-E	Electric	Vertically Integrated	7/15/1983	164.0	12.62	17.00	36.96	NA
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-28123	Electric	Vertically Integrated	1/21/1983	87.4	12.10	17.50	41.94	NA
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-15641	Electric	Vertically Integrated	12/10/1982	119.4	13.56	16.25	40.00	1,512.00
Texas	Oncor Electric Delivery Co	SRE	D-5200	Electric	Vertically Integrated	6/9/1983	195.1	13.37	17.50	44.29	2,256.30
Maryland	Delmarva Power & Light Co	EXC	C-7734 0-66488	Electric	Vertically Integrated	5/27/1983	7.8	11.57	16.00	41.76	NA
Ohio	Columbus Southern Power Co	AEP	C-83-314-EL-AIR	Electric	Vertically Integrated	3/31/1983	53.2	12.74	17.70	33.30	NA
California	San Diego Gas & Electric Co	SRE	AP-821257 De-8312065-E	Electric	Vertically Integrated	12/24/1982	54.5	13.44	17.50	42.62	NA
Texas	AEP Texas North Co	AEP	D-5204	Electric	Vertically Integrated	6/10/1983	25.7	13.29	17.00	44.01	281.90
Wisconsin	Wisconsin Electric Power Co	WEC	D-6630-ER-18	Electric	Vertically Integrated	2/1/1983	(19.9)	13.06	14.75	48.78	NA
California	Pacific Gas and Electric Co	PG&E	AP-821248 De-8312068-E	Electric	Vertically Integrated	12/20/1982	493.0	13.19	17.50	42.25	5,400.00
Nevada	Nevada Power Co	BRK A	D-83-707	Electric	Vertically Integrated	7/5/1983	44.0	12.31	16.00	39.55	615.20
New York	Central Hudson Gas & Electric	ED	C-28470	Electric	Vertically Integrated	2/16/1983	16.7	12.92	16.00	40.96	425.80
Texas	Oncor Electric Delivery Co	SRE	D-5256	Electric	Vertically Integrated	7/15/1983	104.9	13.03	17.50	43.39	1,235.00
Arkansas	Southwestern Electric Power Co	AEP	D-83-064-U	Electric	Vertically Integrated	3/18/1983	23.5	13.04	17.00	37.80	219.60
Washington	Avista Corp	AVA	Ca-U-83-26	Electric	Vertically Integrated	4/6/1983	45.9	12.99	16.50	40.00	466.10
New Hampshire	Public Service Co of NH	ES	D-82-333	Electric	Vertically Integrated	10/31/1983	28.1	14.16	16.10	41.00	433.30
Massachusetts	Eastern Edison Company		DPU-1580	Electric	Vertically Integrated	7/15/1983	6.9	14.08	16.50	37.80	85.40
Iowa	Interstate Power & Light Co	LNT	D-RPU-83-14	Electric	Vertically Integrated	5/4/1983	6.2	12.55	18.00	36.15	NA
Montana	PacifiCorp	BRK A	D-83 5.36	Electric	Vertically Integrated	5/10/1983	5.8	12.78	17.10	36.00	NA
Idaho	Avista Corp	AVA	C-U-1008-185	Electric	Vertically Integrated	4/6/1983	33.4	12.99	16.50	40.00	266.80
Washington	PacifiCorp	BRK A	Ca-U-83-33	Electric	Vertically Integrated	4/26/1983	14.5	13.2			

Iowa	Interstate Power & Light Co	LNT	D-RPU-83-27	Electrnc	Vertically Integrated	6/30/1983	20.2	11.07	17.00	35.31	312.80
Kentucky	Louisville Gas & Electric Co	PPL	C-8924 (elec)	Electric	Vertically Integrated	11/23/1983	43.5	10.85	15.50	36.03	1,080.50
Colorado	Public Service Co of CO	XEL	D-1640-De-C84-598 (Elec)	Electric	Vertically Integrated	11/18/1983	95.4	11.71	15.70	38.59	1,650.90
Delaware	Delmarva Power & Light Co	EXC	D-84-18	Electric	Vertically Integrated	5/15/1984	(4.4)	11.11	15.10	39.80	NA
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, SUB 373	Electric	Vertically Integrated	11/30/1983	212.8	12.46	16.50	42.08	3,103.10
Florida	Florida Power & Light Co	NEE	D-830465-EI	Electric	Vertically Integrated	11/23/1983	457.0	11.06	17.35	32.28	6,666.50
Pennsylvania	Pennsylvania Electric Co	FE	C-R-832550	Electric	Vertically Integrated	12/5/1984	41.7	11.12	16.25	37.33	996.80
Massachusetts	NSTAR Electric Co	ES	DP1-1720	Electric	Vertically Integrated	12/16/1983	40.7	11.46	15.50	35.52	1,187.70
Montana	MDU Resources Group	MDU	D-83 9 88	Electric	Vertically Integrated	9/30/1983	8.7	11.40	15.50	39.39	NA
New York	Rochester Gas & Electric Co	IBE	C-28608,10	Electric	Vertically Integrated	8/19/1983	57.6	12.48	16.00	42.74	816.10
Illinois	Commonwealth Edison Co	EXC	D-83-0537 (Phase 1)	Electric	Vertically Integrated	10/7/1983	405.0	13.02	17.00	40.00	6,934.10
Texas	Entergy Texas Inc	ETR	D-5560	Electric	Vertically Integrated	1/6/1984	327.2	13.86	17.50	37.00	1,459.70
Arkansas	Oklahoma Gas and Electric Co	OGE	D-83-179-U	Electric	Vertically Integrated	9/12/1983	17.9	12.28	17.50	43.77	NA
Texas	Texas-New Mexico Power Co	PNM	D-5568	Electric	Vertically Integrated	1/13/1984	11.0	13.14	17.00	37.42	162.20
California	PacificCorp	BRK A	AP-83-0552 De-830717	Electric	Vertically Integrated	5/25/1983	10.9	12.41	16.00	36.00	NA
New Jersey	Rockland Electric Company	ED	D-839-790	Electric	Vertically Integrated	9/19/1983	7.8	11.79	16.00	47.57	NA
Ohio	Ohio Edison Co	FE	C-83-1130-EL-AIR	Electric	Vertically Integrated	10/12/1983	142.4	13.82	18.00	41.06	NA
Massachusetts	Western Massachusetts Electric	ES	DP1-84-25	Electric	Vertically Integrated	1/17/1984	33.9	12.88	16.60	36.04	389.60
Montana	NorthWestern Corp	NWE	D-83 9 67	Electric	Vertically Integrated	9/30/1983	96.4	12.54	16.50	37.71	802.10
New Jersey	Atlantic City Electric Co	EXC	D-8310-883	Electric	Vertically Integrated	10/14/1983	37.1	11.66	15.00	45.10	845.50
Hawaii	Mau Electric Company Ltd	HE	D-4691	Electric	Vertically Integrated	4/15/1983	9.8	12.67	16.50	40.30	NA
New York	Lona Island Lightnng Co	C-28553		Electric	Vertically Integrated	5/27/1983	281.1	13.75	16.30	43.31	1,827.70
Florida	Duke Energy Florida LLC	DUK	D-830470-EI	Electric	Vertically Integrated	2/1/1984	124.0	9.84	15.85	28.13	NA
Vermont	Green Mountain Power Corp	D-4865		Electric	Vertically Integrated	1/5/1984	10.2	12.07	16.50	36.15	NA
Idaho	PacificCorp	BRK A	C-U-1009-137	Electric	Vertically Integrated	4/2/1984	26.3	12.51	16.00	42.75	292.70
Utah	PacificCorp	BRK A	C-84-035-01	Electric	Vertically Integrated	1/9/1984	72.6	12.46	15.80	43.32	1,736.30
Ohio	The Toledo Edison Co	FE	C-83-1450-EL-AIR	Electric	Vertically Integrated	12/12/1983	56.5	13.64	17.66	35.80	1,099.40
Michigan	Pennine Michigan Power Co	AEP	C-U-7791	Electric	Vertically Integrated	12/16/1983	27.6	11.81	16.50	31.75	NA
West Virginia	Appalachian Power Co	AEP	C-83-697-E-42T	Electric	Vertically Integrated	12/5/1983	99.7	12.80	17.00	36.00	1,088.50
Washington	Puget Sound Energy Inc	Ca-U-83-54		Electric	Vertically Integrated	8/10/1984	98.4	12.87	16.25	43.00	1,345.50
Wisconsin	Wisconsin Power and Light Co	LNT	D-6690-UR-14-E	Electric	Vertically Integrated	12/30/1983	10.5	12.89	14.75	44.99	500.70
Texas	Oncor Electric Delivery Co	SRE	D-5640	Electric	Vertically Integrated	3/9/1984	304.2	12.91	16.75	44.36	6,196.60
Nevada	Sierra Pacific Power Co	BRK A	D-83-1142	Electric	Vertically Integrated	11/23/1983	11.0	12.51	16.50	39.72	413.50
Texas	El Paso Electric Co	D-5700		Electric	Vertically Integrated	4/19/1984	49.9	13.34	17.50	38.88	675.60
South Carolina	Duke Energy Progress LLC	DUK	D-84-122-E O-84-886	Electric	Vertically Integrated	5/1/1984	23.6	12.36	16.50	39.86	519.70
Florida	Gulf Power Co	NEE	D-840086-EI	Electric	Vertically Integrated	4/27/1984	28.4	9.85	15.85	28.20	629.70
Texas	AEP Texas North Co	AEP	D-5764	Electric	Vertically Integrated	6/24/1984	29.7	13.53	17.00	44.33	326.70
Oregon	PacificCorp	BRK A	C-UE-21	Electric	Vertically Integrated	2/16/1984	21.1	12.23	15.75	36.00	1,220.60
North Carolina	Duke Energy Progress LLC	DUK	D-E-2, SUB 481	Electric	Vertically Integrated	2/21/1984	151.6	12.52	16.50	40.00	2,436.00
Ohio	Duke Energy Ohio Inc	DUK	C-83-1528-EL-AIR	Electric	Vertically Integrated	3/6/1984	66.3	13.08	18.49	37.90	1,365.80
Hawaii	Hawaii Electric Light Co	HE	D-4833	Electric	Vertically Integrated	7/5/1983	6.8	12.36	16.50	40.00	73.00
Arizona	Arizona Public Service Co	PNW	D-U-1345 De-54204/47	Electric	Vertically Integrated	7/1/1983	201.1	13.88	17.50	38.77	NA
Indiana	Indiana Michigan Power Co	AEP	Ca-37457	Electric	Vertically Integrated	3/20/1984	123.5	11.16	16.50	31.20	NA
Kentucky	Kentucky Power Co	C-9061		Electric	Vertically Integrated	6/15/1984	51.8	12.42	17.50	38.14	456.70
Connecticut	The United Illuminating Co	IBE	D-84-06-01	Electric	Vertically Integrated	7/2/1984	53.8	14.07	17.00	40.00	564.30
Maryland	Delmarva Power & Light Co	EXC	C-7929 0-66894	Electric	Vertically Integrated	6/1/1984	7.9	11.45	15.60	41.72	297.90
Virginia	Virginia Electric & Power Co	D	C-PUE 840021	Electric	Vertically Integrated	3/30/1984	23.8	10.41	15.00	34.38	NA
Vermont	Central Vermont Public Service	D-4906		Electric	Vertically Integrated	4/18/1984	14.9	13.77	17.50	45.44	NA
California	Southern California Edison Co	EIX	AP-831253 De-8412068	Electric	Vertically Integrated	12/29/1983	(15.0)	13.05	16.75	45.00	5,172.50
Wisconsin	Wisconsin Electric Power Co	WEC	D-6630-ER-19	Electric	Vertically Integrated	2/3/1984	(15.0)	NA	14.75	49.79	NA
Washington	Avista Corp	AVA	Ca-U-84-28	Electric	Vertically Integrated	5/4/1984	23.0	12.44	15.75	40.00	449.90
Texas	CenterPoint Energy Houston	CNP	D-5779	Electric	Vertically Integrated	6/15/1984	288.5	12.88	17.00	45.95	4,691.60
New Jersey	Jersey Cntrl Power & Light Co	FE	D-841-55	Electric	Vertically Integrated	1/27/1984	19.9	10.73	16.00	39.53	NA
Pennsylvania	Duquesne Light Co	C-R-842583		Electric	Vertically Integrated	4/27/1984	61.7	12.55	17.00	38.20	1,815.90
Pennsylvania	PECO Energy Co	EXC	C-R-842590	Electric	Vertically Integrated	4/27/1984	152.2	13.40	17.50	38.20	3,372.10
Idaho	Avista Corp	AVA	C-U-1008-219	Electric	Vertically Integrated	5/4/1984	15.5	12.44	15.75	40.00	264.10
Wisconsin	Wisconsin Public Service Corp	WEC	D-6690-UR-20-E	Electric	Vertically Integrated	4/13/1984	21.0	11.66	15.00	46.94	601.70
Iowa	Interstate Power & Light Co	LNT	D-RPU-83-44	Electric	Vertically Integrated	12/30/1983	11.4	11.53	15.00	45.50	206.40
Wyoming	PacificCorp	BRK A	D-9441 SUB 20	Electric	Vertically Integrated	5/4/1984	22.1	12.51	16.00	43.20	177.30
Ohio	The Cleveland Electric Illumin	FE	C-84-188-EL-AIR	Electric	Vertically Integrated	4/3/1984	159.0	13.74	19.60	40.10	2,169.90
New York	Niagara Mohawk Power Corp	NG	C-28798,99	Electric	Vertically Integrated	4/20/1984	104.5	13.12	16.80	43.61	2,988.00
Pennsylvania	Pennsylvania Electric Co	FE	C-R-842740	Electric	Vertically Integrated	10/16/1984	20.4	13.38	16.50	40.99	NA
Missouri	Union Electric Co	AEE	C-ER-85-160, EO-85-17	Electric	Vertically Integrated	2/15/1984	639.5	11.98	15.62	39.16	3,914.20
Arkansas	Entergy Arkansas LLC	ETR	D-84-199-U	Electric	Vertically Integrated	3/9/1984	80.0	12.49	16.81	33.91	2,225.00
New York	NY State Electric & Gas Corp	IBE	C-28824,25	Electric	Vertically Integrated	5/18/1984	134.0	13.90	17.20	39.85	1,975.90
New York	Central Hudson Gas & Electric	FTS	C-28838	Electric	Vertically Integrated	5/23/1984	27.2	13.95	18.30	42.09	471.30
Montana	PacificCorp	BRK A	D-84 7 38	Electric	Vertically Integrated	7/19/1984	3.9	12.57	16.25	36.00	NA
Pennsylvania	PPL Electric Utilities Corp	PPL	C-R-842651 (PPL)	Electric	Vertically Integrated	7/27/1984	330.0	12.48	15.10	35.00	4,634.30
Oklahoma	Public Service Co of OK	AEP	Ca-28331	Electric	Vertically Integrated	6/1/1983	50.7	12.04	16.50	45.04	824.00
Wyoming	PacificCorp	BRK A	D-9454 SUB 25	Electric	Vertically Integrated	7/5/1984	20.6	12.28	15.75	36.00	467.00
Illinois	Ameren Illinois	AEE	D-84-0109/85-0006 (CIPS)	Electric	Vertically Integrated	2/15/1984	71.8	11.84	15.62	37.01	468.50
Maine	Maine Public Service Co	EMA	D-84-80	Electric	Vertically Integrated	8/24/1984	7.3	13.64	17.48	34.94	NA
Arkansas	Southwestern Electric Power Co	AEP	D-84-175-U	Electric	Vertically Integrated	7/13/1984	31.7	12.94	17.00	37.56	252.10
Maine	Central Maine Power Co	IBE	D-84-120	Electric	Vertically Integrated	8/31/1984	58.6	14.17	17.50	37.02	716.10
Mississippi	Entergy Mississippi LLC	ETR	C-U-4620	Electric	Vertically Integrated	11/16/1984	94.7	12.88	18.00	32.40	682.80
New York	Rochester Gas & Electric Co	IBE	C-28896,97	Electric	Vertically Integrated	8/17/1984	41.3	12.57	17.25	44.32	833.00
Michigan	DTE Electric Co	DTE	C-U-7660	Electric	Vertically Integrated	7/19/1983	400.0	10.57	15.00	28.80	7,800.00
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-13-E	Electric	Vertically Integrated	6/15/1984	5.9	12.15	15.00	46.40	195.40
Washington	PacificCorp	BRK A	C-U-84-65	Electric	Vertically Integrated	8/19/1984	12.3	12.05	16.25	36.00	366.10
Illinois	Ameren Illinois	AEE	D-84-0480 (IP)	Electric	Vertically Integrated	9/4/1984	139.9	12.22	15.40	40.51	2,182.30
Montana	NorthWestern Corp	NWE	D-84 11 71	Electric	Vertically Integrated	11/15/1984	82.4	11.65	14.25	37.32	NA
Pennsylvania	West Penn Power Co	FE	C-R-842651 (WPP)	Electric	Vertically Integrated	11/30/1984	80.7	10.94	16.00	40.00	1,242.50
Wisconsin	Wisconsin Power and Light Co	LNT	D-6690-UR-100-E	Electric	Vertically Integrated	12/28/1984	30.2	11.53	14.75	46.70	596.90
Maryland	The Potomac Edison Co	FE	C-7878 0-67142	Electric	Vertically Integrated	2/1/1985	34.2	11.20	16.00	38.58	413.70
Arkansas	Entergy Arkansas LLC	ETR	D-84-249-U	Electric	Vertically Integrated	11/9/1984	241.1	12.69	17.48	33.63	NA
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, SUB 391	Electric	Vertically Integrated	2/15/1985	292.8	12.10	15.25	45.73	3,120.10
Georgia	Savannah Electric & Power Co	SO	D-3523-U	Electric	Vertically Integrated	3/29/1985	17.1	13.26	15.75	39.16	NA
Kansas	Evergy Kansas South	EVRG	D-142,098-U	Electric	Vertically Integrated	11/8/1984	373.4	11.98	15.50	38.62	2,030.30
Kansas	Evergy Metro Inc	EVRG	D-142,099-U	Electric	Distribution	11/8/1984	110.4	12.33	16.25	39.96	724.30
West Virginia	Monongahela Power Co	FE	C-84-768-E-42T	Electric	Vertically Integrated	11/26/1984	42.0	11.72	16.00	41.44	712.10
South Carolina	Duke Energy Carolinas LLC	DUK	D-85-78-E O-85-841	Electric	Vertically Integrated	4/9/1985	124.5	12.10	15.25	45.73	1,336.70
Kentucky	Duke Energy Kentucky Inc	DUK	C-9299	Electric	Vertically Integrated	4/10/1985	5.3	13.03	16.25	50.50	NA
Illinois	Commonwealth Edison Co	EXC	D-83-0537 (Phase 2)	Electric	Vertically Integrated	11/29/1984	615.0	12.85	16.00	41.18	8,981.00
Pennsylvania	Pennsylvania Electric Co	FE	C-R-842771	Electric	Vertically Integrated	1/24/1985	60.1	11.36	16.25	40.23	1,015.80
Pennsylvania	Metropolitan Edison Co	FE	C-R-842770	Electric	Vertically Integrated	1/24/1985	47.3	11.29	16.50	40.68	540.40
Maine	Versant Power	FE	D-85-190	Electric	Vertically Integrated	2/15/1985	17.4	14.60	20.00	33.00	NA
Ohio	Ohio Edison Co	FE	C-84-1359-EL-AIR	Electric	Vertically Integrated	1/3/1985	150.9	14.06	16.75	36.90	2,571.40
Pennsylvania	Duquesne Light Co	C-R-850021		Electric	Vertically Integrated	5/17/1985	67.2	12.89	17.00	39.10	1,787.20
Florida	Tampa Electric Co	EMA	D-850050-EI	Electric	Vertically Integrated	4/5/1985	75.0	10.42	16.00	38.07	1,591.00
Vermont	Green Mountain Power Corp	D-5013		Electric	Vertically Integrated	5/3/1985	6.0	13.01	16.00	40.66	NA
Nevada	Sierra Pacific Power Co	BRK A	D-85-532	Electric	Vertically Integrated	4/15/1985	32.3	12.04	15.75	40.05	538.10
Hawaii	Hawaiian Electric Co	HE	D-5081	Electric	Vertically Integrated	8/7/1984	16.6	12.21	16.50	41.50	457.70
New Mexico	Public Service Co of NM	PNM	C-1916	Electric	Vertically Integrated	8/28/1984	25.2	12.10	16.20	40.00	NA
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-29450	Electric	Vertically Integrated	2/8/1985	117.0	11.74	15.75	46.17	1,527.90
Wisconsin											

Michigan	DTE Electric Co	DTE	C-U-7660- Fermi 2	Electric	Vertically Integrated	7/19/1983	556 0	10 57	15 00	28 60	7,800 00
Virginia	The Potomac Edison Co	FE	C-PUE-850029	Electric	Vertically Integrated	7/1/1985	9 6	10 49	16 00	34 60	NA
Washington	Avista Corp	AVA	Ca-U-85-36	Electric	Vertically Integrated	6/18/1985	20 4	12 43	15 75	40 00	547 60
Idaho	PacificCorp	BRK A	C-U-1009-157	Electric	Vertically Integrated	9/10/1985	15 3	12 24	15 06	44 51	293 00
Missouri	Evergy Metro Inc	EVRG	C-ER-85-128, EO-85-185	Electric	Vertically Integrated	11/26/1984	187 1	12 23	16 25	37 38	NA
Virginia	Virginia Electric & Power Co	D	C-PUE 840071	Electric	Vertically Integrated	2/25/1985	137 5	10 49	15 00	33 70	4,747 00
Washington	Puget Sound Energy Inc		Ca-U-85-53	Electric	Vertically Integrated	8/14/1985	68 2	11 34	14 50	38 40	1,673 90
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-100-E	Electric	Vertically Integrated	10/25/1985	4 0	12 06	14 75	49 70	NA
New Jersey	Jersev Cntrl Power & Light Co	FE	D-ER-8507898	Electric	Vertically Integrated	7/12/1985	73 5	10 87	16 00	42 35	1 510 70
Minnesota	Northern States Power Co	XEL	D-E-002-GR-95-558	Electric	Vertically Integrated	8/1/1985	121 7	11 23	15 00	45 99	2,238 20
Connecticut	The CT Light & Power Co	ES	D-85-10-22-E	Electric	Vertically Integrated	11/25/1985	133 8	11 73	15 25	39 62	NA
Ohio	The Cleveland Electric Illumin	FE	C-85-875-EL-AIR	Electric	Vertically Integrated	7/2/1985	233 0	13 88	19 35	39 48	2,268 90
Massachusetts	NSTAR Electric Co	ES	DPU-85-271	Electric	Vertically Integrated	12/17/1985	49 9	11 85	15 25	42 48	NA
Pennsylvania	PECO Energy Co	EXC	C-R-850152	Electric	Vertically Integrated	9/27/1985	681 8	12 77	15 93	38 40	6,943 90
Massachusetts	Western Massachusetts Electric	ES	DPU-85-270	Electric	Vertically Integrated	12/17/1985	29 4	12 29	16 00	37 15	464 10
Ohio	Ohio Power Co	AEP	C-85-726-EL-AIR	Electric	Vertically Integrated	7/15/1985	82 7	12 88	17 00	37 03	2,024 80
Idaho	Idaho Power Co	IDA	C-U-1006-265	Electric	Vertically Integrated	5/12/1986	66 2	11 10	15 00	40 00	1,153 60
New York	Rochester Gas & Electric Co	IBE	C-28189.90	Electric	Vertically Integrated	8/23/1985	49 8	12 22	15 25	47 16	945 70
New York	Central Hudson Gas & Electric	FTS	C-28195	Electric	Vertically Integrated	8/28/1985	38 3	12 12	15 45	41 39	672 50
Pennsylvania	West Penn Power Co	FE	C-R-850220	Electric	Vertically Integrated	10/18/1985	82 0	10 99	16 00	40 10	1 210 60
Indiana	AES Indiana	AES	Ca-37837	Electric	Vertically Integrated	7/3/1985	136 8	10 33	15 25	35 67	NA
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-101-E	Electric	Vertically Integrated	12/30/1985	12 7	11 26	14 25	47 10	610 90
Oregon	Idaho Power Co	IDA	C-UE-43	Electric	Vertically Integrated	9/13/1985	5 9	11 10	15 00	40 00	NA
Washington	PacificCorp	BRK A	Ca-U-86-02	Electric	Vertically Integrated	12/17/1985	26 3	10 78	14 50	36 00	325 60
Arizona	Anzonia Public Service Co	PNW	D-U-1345 De-55228	Electric	Vertically Integrated	5/24/1985	54 6	12 34	15 00	40 08	2,533 10
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, SUB 408	Electric	Vertically Integrated	3/27/1986	236 5	11 21	14 00	46 49	3,451 30
Oklahoma	Oklahoma Gas and Electric Co	DUK	Ca-000259	Electric	Vertically Integrated	10/22/1986	(17 4)	10 42	13 50	44 21	NA
South Carolina	Duke Energy Carolinas LLC	DUK	D-86-189E O-86-1116	Electric	Vertically Integrated	5/5/1986	119 9	11 20	14 00	46 43	1,443 00
Idaho	Avista Corp	AVA	C-U-1008-256	Electric	Vertically Integrated	6/20/1986	3 7	11 18	13 50	38 00	NA
Texas	CenterPoint Energy Houston	CNP	D-6765	Electric	Vertically Integrated	3/18/1986	347 0	12 30	16 25	46 37	5,024 50
Ohio	Columbus Southern Power Co	AEP	C-85-1778-EL-AIR	Electric	Vertically Integrated	2/5/1986	7 8	12 13	16 00	46 57	NA
California	Pacific Gas and Electric Co	PG&E	AP-851250 De-8612095-E	Electric	Vertically Integrated	12/27/1985	276 8	12 16	15 25	45 00	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-100	Electric	Vertically Integrated	3/3/1986	41 2	12 17	14 50	53 48	1 759 00
Vermont	Central Vermont Public Service		D-5132	Electric	Vertically Integrated	4/18/1986	18 4	12 99	16 00	47 87	NA
Rhode Island	Blackstone Valley Electric		D-1849	Electric	Vertically Integrated	4/11/1986	4 8	12 51	14 30	42 41	NA
North Dakota	MDU Resources Group	MDU	C-10, 799	Electric	Vertically Integrated	2/13/1986	11 1	11 60	14 50	36 55	NA
Iowa	Interstate Power & Light Co	LNT	D-RPU-86-8	Electric	Vertically Integrated	5/1/1986	11 3	9 91	13 25	39 10	317 20
Maryland	Delmarva Power & Light Co	EXC	C-7982 0-67664	Electric	Vertically Integrated	9/5/1986	4 6	12 28	15 00	40 00	NA
Iowa	Interstate Power & Light Co	LNT	D-RPU-86-7	Electric	Vertically Integrated	4/25/1986	40 1	11 39	14 40	42 50	472 40
Pennsylvania	Duquesne Light Co		C-R-860378	Electric	Vertically Integrated	6/1/1986	40 0	11 79	15 00	41 00	1,770 00
New York	Niagara Mohawk Power Corp	NG	C-29327, 28	Electric	Vertically Integrated	4/18/1986	181 7	11 38	14 00	43 71	4,516 60
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-102-E	Electric	Vertically Integrated	1/5/1987	(5 2)	10 86	13 50	48 82	604 80
New Jersey	Public Service Electric Gas	PEG	D-85121163-E	Electric	Vertically Integrated	12/13/1984	802 1	10 54	15 25	43 28	7,369 90
Delaware	Delmarva Power & Light Co	EXC	D-86-24	Electric	Vertically Integrated	6/11/1986	(9 2)	10 51	14 00	42 52	653 40
Virginia	Appalachian Power Co	AEP	C-PUE-860015	Electric	Vertically Integrated	3/14/1986	32 8	11 40	15 00	36 02	995 00
Minnesota	Otter Tail Power Co	OTTR	D-E-017-GR-86-380	Electric	Vertically Integrated	6/28/1986	19 2	11 43	14 85	46 93	NA
Maryland	Baltimore Gas and Electric Co	EXC	C-7973 0-67733-E	Electric	Vertically Integrated	11/10/1986	(11 7)	10 40	14 00	45 00	3,109 00
Maryland	Potomac Electric Power Co	EXC	C-7972 0-67737	Electric	Vertically Integrated	11/10/1986	14 5	10 06	13 25	42 09	1 168 50
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-101-E	Electric	Vertically Integrated	10/10/1986	3 8	12 74	14 50	46 85	209 10
New York	Rochester Gas & Electric Co	IBE	C-29246.47	Electric	Vertically Integrated	8/22/1986	30 4	11 17	13 75	46 32	1,207 40
New Hampshire	Public Service Co of NH	ES	D-86-122	Electric	Vertically Integrated	5/29/1986	38 7	16 53	19 00	37 57	NA
Massachusetts	Western Massachusetts Electric	ES	DPU-86-280	Electric	Vertically Integrated	12/17/1986	23 2	10 88	14 00	37 37	429 10
Kansas	Evergy Metro Inc	EVRG	D-150,368-U	Electric	Vertically Integrated	4/6/1987	(10 0)	NA	NA	NA	NA
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-101-E	Electric	Vertically Integrated	4/26/1986	(2 0)	NA	13 30	49 47	523 60
Indiana	Northern IN Public Svc Co	NI	Ca-38045	Electric	Vertically Integrated	12/2/1986	149 1	9 96	15 50	30 66	2 542 10
Pennsylvania	Pennsylvania Power Co	FE	C-R-850267	Electric	Vertically Integrated	6/20/1986	63 2	11 83	14 63	35 80	678 40
Michigan	Consumers Energy Co	CMS	C-U-7830-Step 2	Electric	Vertically Integrated	11/18/1983	173 7	11 43	15 50	29 33	2 805 80
Arkansas	Entergy Arkansas LLC	ETR	D-87-108-U	Electric	Vertically Integrated	6/29/1987	(26 3)	9 08	13 00	40 95	NA
New York	Central Hudson Gas & Electric	FTS	C-29433	Electric	Vertically Integrated	8/28/1986	5 9	11 02	13 75	46 13	857 60
Rhode Island	Narragansett Electric Co	NG	D-1881	Electric	Vertically Integrated	1/23/1987	0 0	NA	NA	NA	NA
Kansas	Evergy Kansas Central Inc	EVRG	D-136,381-U	Electric	Vertically Integrated	2/25/1987	(16 6)	NA	NA	NA	NA
North Carolina	Duke Energy Progress LLC	DUK	D-E-2, SUB 526	Electric	Vertically Integrated	1/6/1987	190 3	11 09	14 00	43 00	2,974 40
South Carolina	Duke Energy Progress LLC	DUK	D-87-7-E O-87-902	Electric	Vertically Integrated	2/27/1987	47 4	11 09	14 00	43 02	680 00
Virginia	The Potomac Edison Co	FE	C-PUE-870015	Electric	Vertically Integrated	3/6/1987	0 0	NA	NA	NA	NA
Indiana	Indiana Michigan Power Co	AEP	Ca-38063	Electric	Vertically Integrated	5/13/1986	27 8	9 95	15 00	29 20	NA
Oregon	Portland General Electric Co	POR	C-UE-47,48	Electric	Vertically Integrated	3/6/1986	(15 0)	11 93	14 09	42 94	NA
Georgia	Georgia Power Co	SO	D-3673-U	Electric	Vertically Integrated	4/2/1987	735 1	11 58	14 00	41 44	6,538 30
West Virginia	Mononahela Power Co	FE	C-86-524-E-SC	Electric	Vertically Integrated	11/7/1986	0 0	10 74	14 25	43 41	681 00
Virginia	Kentucky Utilities Co	PPL	C-PUE-870018	Electric	Vertically Integrated	3/6/1987	0 0	NA	NA	NA	NA
New Mexico	El Paso Electric Co		C-2092	Electric	Vertically Integrated	1/30/1987	6 6	10 93	13 00	43 51	NA
Arkansas	Southwestern Electric Power Co	AEP	D-87-164-U	Electric	Vertically Integrated	10/30/1987	(4 5)	NA	13 00	NA	NA
Texas	AEP Texas North Co	AEP	D-7195	Electric	Vertically Integrated	5/19/1987	50 4	12 07	14 50	42 76	491 20
New York	Long Island Lightng Co		C-29484	Electric	Vertically Integrated	11/26/1986	83 0	12 03	14 25	31 33	1,860 90
South Carolina	Dominion Energy South Carolina	D	D-87-10-E O-87-1381	Electric	Vertically Integrated	8/26/1986	(17 0)	NA	14 25	NA	NA
Ohio	The Toledo Edison Co	FE	C-86-2026-EL-AIR	Electric	Vertically Integrated	11/17/1986	187 1	12 84	16 30	37 96	1,084 60
Ohio	The Cleveland Electric Illumin	FE	C-86-2025-EL-AIR	Electric	Vertically Integrated	11/17/1986	241 8	12 84	16 30	37 96	2,353 50
Maine	Versant Power		D-86-242	Electric	Vertically Integrated	3/3/1987	6 9	12 17	12 00	44 80	NA
Virginia	Appalachian Power Co	AEP	C-PUE-870016	Electric	Vertically Integrated	3/6/1987	0 0	NA	NA	NA	NA
Missouri	Electric Co	AEE	C-ER-87-114	Electric	Vertically Integrated	4/24/1987	30 0	10 42	13 50	41 11	3 840 00
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-17282	Electric	Vertically Integrated	7/25/1986	194 3	12 80	15 25	40 00	2,295 00
Wisconsin	Northern States Power Co	XEL	D-4220-UR-101-E	Electric	Vertically Integrated	6/1/1987	10 3	NA	12 50	58 48	291 10
California	Southern California Edison Co	EIX	AP-8612047 De-8712066	Electric	Vertically Integrated	12/26/1986	59 0	11 23	13 75	46 00	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-101-E	Electric	Vertically Integrated	5/1/1987	33 1	11 58	14 00	50 52	1 693 80
New York	NY State Electric & Gas Corp	IBE	C-29541.42	Electric	Vertically Integrated	2/23/1987	37 2	11 11	13 70	35 63	3,032 00
Ohio	Ohio Edison Co	FE	C-87-689-EL-AIR	Electric	Vertically Integrated	6/8/1987	152 0	11 95	13 90	43 79	3,032 70
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-102-E	Electric	Vertically Integrated	6/19/1987	1 1	11 56	13 30	49 61	523 70
Connecticut	The CT Light & Power Co	ES	D-87-07-01-E	Electric	Vertically Integrated	8/8/1987	6 8	11 19	14 75	39 86	2,570 20
Minnesota	Minnesota Power Entprs Inc	ALE	D-E-015-GR-87-223	Electric	Vertically Integrated	5/1/1987	7 9	9 82	12 75	39 48	551 10
Pennsylvania	Duquesne Light Co		C-R-870657	Electric	Vertically Integrated	6/26/1987	292 7	12 00	15 50	40 20	3,051 60
North Dakota	Northern States Power Co	XEL	C-10 979	Electric	Vertically Integrated	7/31/1987	4 0	10 19	12 80	45 25	NA
Texas	El Paso Electric Co		D-7640	Electric	Vertically Integrated	4/6/1987	76 5	11 01	13 25	43 51	514 30
Arizona	Arizona Public Service Co	PNW	D-U-1345-85-367	Electric	Vertically Integrated	12/18/1985	183 4	10 94	13 50	41 01	3 311 20
Virginia	Virginia Electric & Power Co	D	C-PUE 870014	Electric	Vertically Integrated	4/7/1987	1 6	9 74	14 00	34 61	5,905 00
Iowa	MidAmerican Energy Co	BRK A	D-RPU-87-2	Electric	Vertically Integrated	6/25/1987	(5 0)	NA	NA	NA	NA
Pennsylvania	Pennsylvania Power Co	FE	D-R-870732	Electric	Vertically Integrated	8/5/1987	88 3	11 83	14 75	37 40	694 40
Wisconsin	Wisconsin Gas and Electric Co	MGEE	D-3270-UR-102-E	Electric	Vertically Integrated	10/8/1987	5 9	11 51	14 00	47 90	219 80
Texas	Entergy Texas Inc	ETR	D-7195, 8755	Electric	Vertically Integrated	11/18/1986	359 9	12 33	15 25	34 80	2,141 90
Massachusetts	Western Massachusetts Electric	ES	DPU-87-260	Electric	Vertically Integrated	12/17/1987	22 5	10 71	14 75	35 09	512 30
Kentucky	Louisville Gas & Electric Co	PPL	C-10064 (elec)	Electric	Vertically Integrated	11/20/1987	37 8	10 58	14 00	44 43	1,211 00
New York	Rochester Gas & Electric Co	IBE	C-29674.5	Electric	Vertically Integrated	8/21/1987	1 2	10 58	14 00	35 35	NA
North Carolina	Duke Energy Progress LLC	DUK	D-E-2, SUB 537	Electric	Vertically Integrated	9/10/1987	203 0	10 83	13 50	45 00	3,830 80
Minnesota	Northern States Power Co	XEL	D-E-002-GR-87-670	Electric	Vertically Integrated	11/2/1987	97 3	10 19	12 81	45 25	2,349 20
South Carolina	Duke Energy Progress LLC	DUK	D-88-11-E	Electric	Vertically Integrated	3/1/1988	47 8	10 89	13 50	45 20	864 60
New York	Niagara Mohawk Power Corp	NG	C-29670.71	Electric	Vertically Integrated	8/11/1987	119 5	11 08	14 25	35 86	NA
Texas	Texas-New Mexico Power Co	PNM	D-8095	Electric	Vertically Integrated	4/29/1988	12 6	12			

New York	Central Hudson Gas & Electric	FTS	C-88-E-077	Electric	Vertically Integrated	4/15/1988	(3 0)	10 63	13 80	37 25	NA
Texas	El Paso Electric Co		D-8363	Electric	Vertically Integrated	10/13/1988	38 3	11 51	14 00	46 62	488 00
Iowa	MidAmerican Energy Co	BRK A	D-RPU-88-10	Electric	Vertically Integrated	8/5/1988	36 1	11 10	14 25	47 01	627 00
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-103-E	Electric	Vertically Integrated	9/30/1988	7 5	11 73	13 75	47 63	234 30
South Carolina	Dominion Energy South Carolina	D	D-88-681-E O-89-588	Electric	Vertically Integrated	1/3/1989	27 2	10 62	13 25	46 31	1,640 10
Massachusetts	Western Massachusetts Electric	ES	DPU-88-250	Electric	Vertically Integrated	12/16/1988	28 2	10 60	13 75	36 58	589 10
Montana	NorthWestern Corp	NWE	D-88 6 15 (elec)	Electric	Vertically Integrated	6/30/1988	5 1	10 44	12 50	44 00	838 00
Georgia	Georgia Power Co	SO	D-3840-U	Electric	Vertically Integrated	4/3/1989	413 3	11 26	13 25	40 40	8,276 80
Arizona	Tucson Electric Power Co	FTS	D-U-1933 De-56659	Electric	Vertically Integrated	11/10/1988	122 1	10 41	14 25	44 89	859 10
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-104-E	Electric	Vertically Integrated	12/30/1988	12 1	10 48	13 10	49 47	630 00
Maryland	Baltimore Gas and Electric Co	EXC	C-8208 0-68648-E	Electric	Vertically Integrated	5/22/1989	113 7	10 77	14 25	45 00	3,503 30
California	Pacific Gas and Electric Co	PG&E	AP-9812005 De-8912057-E	Electric	Vertically Integrated	12/5/1988	195 5	11 04	13 00	46 75	NA
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-104-E	Electric	Vertically Integrated	3/31/1989	2 4	NA	13 30	53 59	NA
Wisconsin	Northern States Power Co	XEL	D-4220-UR-103-E	Electric	Vertically Integrated	6/1/1989	9 7	11 48	12 50	56 17	366 40
Rhode Island	Narraquansett Electric Co	NG	D-1938	Electric	Vertically Integrated	6/1/1989	15 5	11 14	14 00	44 56	NA
Florida	Florida Power & Light Co	NEE	D-890319-EI	Electric	Vertically Integrated	12/19/1989	0 0	NA	NA	NA	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-103	Electric	Vertically Integrated	5/1/1989	3 8	11 63	13 75	54 31	1,718 00
Washington	Puget Sound Energy Inc		Ca-U-89-2688	Electric	Vertically Integrated	2/17/1989	66 6	10 55	13 75	42 50	1,948 80
Vermont	Green Mountain Power Corp		D-5370	Electric	Vertically Integrated	7/14/1989	11 7	11 32	12 90	50 50	NA
Utah	PacificCorp	BRK A	D-89-035-10	Electric	Vertically Integrated	6/26/1989	NA	NA	13 10	NA	NA
Texas	Texas-New Mexico Power Co	PNM	D-8928	Electric	Vertically Integrated	7/18/1989	16 1	12 22	14 60	48 34	232 00
Massachusetts	Massachusetts Electric Co	NG	DPU-88-194	Electric	Vertically Integrated	9/15/1989	51 8	10 18	14 00	41 35	631 00
Indiana	Duke Energy Indiana, LLC	DUK	Ca-37809	Electric	Vertically Integrated	3/31/1989	0 0	11 30	18 30	33 00	1,567 50
New Mexico	Public Service Co of NM	PNM	C-2262	Electric	Vertically Integrated	6/12/1989	38 5	10 43	13 60	44 33	890 40
Pennsylvania	PECO Energy Co	EXC	C-R-891364	Electric	Vertically Integrated	7/21/1989	548 6	11 80	14 34	36 20	9,571 90
New York	Central Hudson Gas & Electric	FTS	C-89-E-107	Electric	Vertically Integrated	5/26/1989	15 0	10 31	12 75	38 90	756 40
Rhode Island	Narraquansett Electric Co	NG	D-1946	Electric	Vertically Integrated	11/17/1989	4 9	11 55	13 03	41 89	NA
Vermont	Central Vermont Public Service		D-5372	Electric	Vertically Integrated	8/15/1989	23 4	11 10	12 75	48 92	254 40
Washington	Avista Corp	AVA	Ca-UE-90-0093	Electric	Vertically Integrated	1/29/1990	7 8	NA	NA	NA	NA
Illinois	Ameren Illinois	AEE	D-89-0276 (IP)	Electric	Vertically Integrated	7/13/1989	215 8	10 52	12 54	43 00	3,554 70
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-104 (elec)	Electric	Vertically Integrated	9/29/1989	3 3	11 50	13 25	51 63	242 30
Texas	CenterPoint Energy Houston	CNP	D-9425	Electric	Vertically Integrated	11/23/1988	432 5	11 23	14 30	45 70	6,367 60
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-105 (elec)	Electric	Vertically Integrated	12/28/1989	5 9	10 28	13 10	49 61	NA
Massachusetts	Western Massachusetts Electric	ES	DPU-89-255	Electric	Vertically Integrated	12/15/1989	33 7	10 79	14 00	37 61	692 80
New York	Rochester Gas & Electric Co	IBE	C-89-E-166 67	Electric	Vertically Integrated	8/15/1989	40 0	10 28	13 00	40 72	1 161 20
District of Columbia	Potomac Electric Power Co	EXC	FC-889	Electric	Vertically Integrated	9/1/1989	33 4	10 43	13 80	42 48	1,158 20
Florida	Gulf Power Co	NEE	D-891345-EI	Electric	Vertically Integrated	12/15/1989	26 3	8 34	13 00	31 79	923 60
Ohio	Ohio Edison Co	FE	C-89-1001-EL-AIR	Electric	Vertically Integrated	8/1/1989	248 4	11 68	14 32	43 53	4,183 60
Texas	El Paso Electric Co		D-9165	Electric	Vertically Integrated	11/27/1989	30 0	11 22	13 50	42 79	488 90
Indiana	Indiana Michigan Power Co	AEP	Ca-38728	Electric	Vertically Integrated	7/10/1989	60 0	8 97	13 50	33 30	1,901 10
New York	Orange & Rockland Utilities Inc	ED	C-89-E-175	Electric	Vertically Integrated	8/24/1989	16 6	11 17	13 96	47 08	513 60
Kentucky	Duke Energy Kentucky Inc	DUK	C-90-041 (elec)	Electric	Vertically Integrated	4/2/1990	9 1	11 80	14 50	52 69	80 20
Missouri	Evergy Missouri West	EVERG	C-ER-90-101	Electric	Vertically Integrated	11/17/1989	32 6	11 63	13 75	49 07	420 50
Texas	AEP Texas Central Co	AEP	D-8646	Electric	Vertically Integrated	2/15/1989	154 0	11 54	14 00	41 44	NA
Iowa	Interstate Power & Light Co	LNT	D-RPU-89-9	Electric	Vertically Integrated	12/27/1989	37 4	10 49	12 80	47 54	510 90
New Jersey	Jersey Cntrl Power & Light Co	FE	D-ER-110912J	Electric	Vertically Integrated	11/17/1989	173 3	9 77	13 25	43 02	2,270 60
Pennsylvania	West Penn Power Co	FE	C-R-901609	Electric	Vertically Integrated	3/15/1990	63 9	10 46	13 80	45 40	1,322 40
Maryland	Baltimore Gas and Electric Co	EXC	C-8278	Electric	Vertically Integrated	5/21/1990	191 9	10 01	13 00	43 06	4,060 20
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-105 (elec)	Electric	Vertically Integrated	3/30/1990	14 6	11 63	13 60	50 69	543 50
South Dakota	Northern States Power Co	XEL	D-EL-90-013	Electric	Vertically Integrated	6/26/1990	5 0	10 24	13 25	47 43	NA
Rhode Island	Narraquansett Electric Co	NG	D-1976	Electric	Vertically Integrated	7/3/1990	18 7	10 96	13 50	45 70	NA
Kentucky	Louisville Gas & Electric Co	PPL	C-90-158 (elec)	Electric	Vertically Integrated	6/29/1990	31 0	9 91	13 50	44 00	1,304 90
Mississippi	Mississippi Power Co	SO	C-90-UN-0287	Electric	Vertically Integrated	8/31/1990	14 2	NA	13 25	NA	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-104	Electric	Vertically Integrated	5/1/1990	65 0	11 59	13 75	53 63	1,840 30
Vermont	Green Mountain Power Corp		D-5428	Electric	Vertically Integrated	4/20/1990	13 4	11 19	13 00	47 00	159 50
Wisconsin	Northern States Power Co	XEL	D-4220-UR-104	Electric	Vertically Integrated	6/1/1990	7 8	11 84	12 75	56 95	389 00
New York	NY State Electric & Gas Corp	IBE	C-90-E-0138 9	Electric	Vertically Integrated	2/27/1990	79 0	10 73	13 00	41 63	3,065 50
Oregon	Portland General Electric Co	POR	D-UE-79	Electric	Vertically Integrated	3/22/1990	80 7	11 10	13 50	46 00	1,575 40
Texas	Texas-New Mexico Power Co	PNM	D-9491	Electric	Vertically Integrated	4/11/1990	54 9	11 11	13 50	33 18	575 90
Michigan	Indiana Michigan Power Co	AEP	C-U-9656	Electric	Vertically Integrated	6/18/1990	15 8	9 78	13 75	36 88	NA
North Carolina	Virginia Electric & Power Co	D	D-E-22, SUB314	Electric	Vertically Integrated	5/31/1990	16 3	10 53	13 25	40 52	333 40
Iowa	Interstate Power & Light Co	LNT	D-RPU-90-8	Electric	Vertically Integrated	8/24/1990	3 1	11 01	13 50	50 10	202 00
Hawaii	Hawaiian Electric Light Co	HE	D-6432	Electric	Vertically Integrated	7/19/1989	9 9	10 86	14 00	43 71	130 20
Maine	Central Maine Power Co	IBE	D-90-076	Electric	Vertically Integrated	5/29/1990	64 5	11 06	13 50	42 57	1,075 40
Illinois	Commonwealth Edison Co	EXC	D-90-0169	Electric	Vertically Integrated	4/12/1990	1,231 0	11 70	14 30	42 46	15,963 40
Virginia	Virginia Electric & Power Co	D	C-PUE-900023	Electric	Vertically Integrated	3/30/1990	98 4	10 49	13 25	38 53	6,883 30
Michigan	Consumers Energy Co	CMS	C-U-9346	Electric	Vertically Integrated	10/9/1989	230 8	9 62	14 50	34 88	4,293 20
Virginia	Appalachian Power Co	AEP	C-PUE-900026	Electric	Vertically Integrated	3/30/1990	43 3	10 87	13 50	43 55	975 60
Maryland	Potomac Electric Power Co	EXC	C-8315	Electric	Vertically Integrated	11/1/1990	38 0	10 55	13 90	41 77	1,455 00
West Virginia	Monongahela Power Co	FE	C-90-504-E-42T	Electric	Vertically Integrated	7/31/1990	32 0	10 67	13 70	44 85	717 50
New York	Rochester Gas & Electric Co	IBE	C-90-E-647 8	Electric	Vertically Integrated	8/3/1990	39 8	10 26	12 75	41 01	1,193 60
New York	Niagara Mohawk Power Corp	NG	C-89-E-152 3	Electric	Vertically Integrated	8/4/1989	317 0	10 96	14 20	34 80	NA
Massachusetts	Commonwealth Electric Co		DPU-90-31	Electric	Vertically Integrated	12/15/1990	17 6	11 48	13 95	49 10	NA
New Jersey	Atlantic City Electric Co	EXC	D-ER-90091090J	Electric	Vertically Integrated	9/27/1990	154 6	11 13	13 70	47 36	1,392 10
Montana	NorthWestern Corp	NWE	D-90 6 39 (elec)	Electric	Vertically Integrated	6/28/1990	51 7	10 82	13 40	44 78	863 80
Connecticut	The CT Light & Power Co	ES	D-90-12-03	Electric	Vertically Integrated	1/7/1991	200 0	10 30	13 30	37 69	3,172 20
Texas	Oncor Electric Delivery Co	SRE	D-9300	Electric	Vertically Integrated	11/6/1990	442 4	11 01	13 00	42 48	NA
Vermont	Central Vermont Public Service		D-5491	Electric	Vertically Integrated	2/15/1991	26 3	11 00	13 00	46 54	282 30
Georgia	Georgia Power Co	SO	D-94057-U	Electric	Vertically Integrated	10/2/1991	384 2	11 17	13 25	42 86	8,176 00
Hawaii	Hawaiian Electric Co	HE	D-9531	Electric	Vertically Integrated	12/8/1989	82 0	10 40	14 00	44 03	577 90
District of Columbia	Potomac Electric Power Co	EXC	FC-905	Electric	Vertically Integrated	12/28/1990	59 7	10 46	13 50	43 08	1,326 70
Texas	CenterPoint Energy Houston	CNP	D-9850	Electric	Vertically Integrated	11/9/1990	487 5	10 79	13 25	43 56	7,924 10
North Dakota	Northern States Power Co	XEL	C-PU-400-91-112	Electric	Vertically Integrated	3/8/1991	6 6	10 34	12 75	47 75	143 70
West Virginia	Appalachian Power Co	AEP	C-91-026E-42T	Electric	Vertically Integrated	1/4/1991	46 7	11 04	14 00	43 20	956 00
South Carolina	Duke Energy Carolinas LLC	DUK	D-91-216E	Electric	Vertically Integrated	5/17/1991	68 0	10 87	13 17	49 82	1,835 00
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, SUB487	Electric	Vertically Integrated	4/12/1991	150 0	10 87	13 17	49 82	4,618 50
Texas	El Paso Electric Co		D-9945	Electric	Vertically Integrated	12/28/1990	131 0	11 20	13 50	37 73	828 70
Maryland	The Potomac Edison Co	FE	C-8341	Electric	Vertically Integrated	4/30/1991	22 0	10 45	13 50	44 40	503 30
New York	Long Island Lightng Co		C-90-E-1185	Electric	Vertically Integrated	12/28/1990	73 4	10 96	12 20	28 70	NA
Nevada	Nevada Power Co	BRK A	D-91-5055	Electric	Vertically Integrated	5/16/1991	25 6	10 02	13 25	39 36	886 20
Minnesota	Northern States Power Co	XEL	D-E-002-GR-91-1	Electric	Vertically Integrated	1/28/1991	83 4	10 35	12 75	47 75	2,228 10
Maine	Versant Power		D-91-010	Electric	Vertically Integrated	3/20/1991	15 7	11 34	13 50	40 70	140 10
Wisconsin	Northern States Power Co	XEL	D-4220-UR-105 (elec)	Electric	Vertically Integrated	5/31/1991	8 2	11 75	12 75	56 31	395 00
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-106 (elec)	Electric	Vertically Integrated	4/1/1991	10 2	11 64	13 10	52 19	560 20
California	Southern California Edison Co	EIX	AP-9012018 De-9112076	Electric	Vertically Integrated	12/7/1990	180 0	10 59	12 65	46 00	11,169 10
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-105	Electric	Vertically Integrated	5/1/1991	93 3	11 89	13 75	52 55	1,952 30
Virginia	The Potomac Edison Co	FE	C-PUE-910020	Electric	Vertically Integrated	3/28/1991	6 6	10 45	13 25	41 50	NA
New Jersey	Rockland Electric Company	ED	D-ER-9103036J	Electric	Vertically Integrated	3/18/1991	12 9	10 89	13 10	44 86	NA
Ohio	AES Ohio	AES	C-91-414-EL-AIR	Electric	Vertically Integrated	4/2/1991	201 0	11 67	14 50	49 49	2,086 00
Maryland	Delmarva Power & Light Co	EXC	C-8352	Electric	Vertically Integrated	7/1/1991	16 7	11 27	13 30	39 00	NA
Nevada	Sierra Pacific Power Co	BRK A	D-91-7079	Electric	Vertically Integrated	7/26/1991	11 7	10 20	12 74	43 46	676 30
Illinois	Ameren Illinois	AEE	D-91-0147 (IP)	Electric	Vertically Integrated	3/19/1991	182 5	10 76	13 69	39 92	3,543 80
Delaware	Delmarva Power & Light Co	EXC	D-91-20	Electric	Vertically Integrated	5/31/1991	24 6	10 19	13 00	42 86	808 30
Rhode Island	Narraquansett Electric Co	NG	D-2016	Electric	Vertically Integrated	6/17/1991	5 1	10 79	12 70	42 05	65 10
Illinois	Ameren Illinois	AEE</									

Nevada	Nevada Power Co	BRK A	D-92-1067	Electric	Vertically Integrated	1/30/1992	25 6	10 08	12 75	42 87	1,005 30
Florida	Duke Energy Florida LLC	DUK	D-910890-EI	Electric	Vertically Integrated	1/31/1992	147 5	9 30	13 60	37 74	3,198 80
Rhode Island	Narraquansett Electric Co	NG	D-2036	Electric	Vertically Integrated	12/27/1991	6 1	10 97	12 70	40 00	NA
Massachusetts	Massachusetts Electric Co	NG	DP-92-78	Electric	Vertically Integrated	3/15/1992	65 7	10 37	12 50	51 64	736 30
Hawaii	Hawaii Electric Light Co	HE	D-6999	Electric	Vertically Integrated	7/31/1991	7 1	10 53	13 25	48 86	154 90
Iowa	MidAmerican Energy Co	BRK A	D-RPU-92-2	Electric	Vertically Integrated	3/17/1992	43 4	10 53	12 75	49 10	718 60
Texas	Texas-New Mexico Power Co	PNM	D-10200	Electric	Vertically Integrated	4/11/1991	35 8	10 80	13 20	22 00	836 80
Massachusetts	NSTAR Electric Co	ES	DP-92-92	Electric	Vertically Integrated	4/15/1992	98 0	10 82	13 00	38 63	NA
Tennessee	Kinsport Power Company	AEP	D-92-04425	Electric	Vertically Integrated	5/26/1992	5 5	11 26	12 60	46 08	NA
California	San Diego Gas & Electric Co	SRE	AP-9111024 De-9212019 (elec)	Electric	Vertically Integrated	11/15/1991	48 0	9 94	11 85	49 50	2,394 00
North Dakota	Northern States Power Co	XEL	C-PU-400-92-399	Electric	Vertically Integrated	5/1/1992	7 1	10 09	12 50	48 62	154 20
California	Pacific Gas and Electric Co	PG&E	AP-9111036 De-9212057 (elec)	Electric	Vertically Integrated	11/26/1991	393 0	10 13	11 90	46 75	9,173 00
Connecticut	The United Illuminating Co	IBE	D-92-06 05	Electric	Vertically Integrated	7/6/1992	78 3	10 75	12 90	30 09	NA
Florida	Tampa Electric Co	EMA	D-920324-EI	Electric	Vertically Integrated	5/22/1992	89 8	9 38	13 75	44 14	2,039 00
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-107 (elec)	Electric	Vertically Integrated	3/31/1992	13 8	11 54	12 90	53 08	578 20
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-107 (elec)	Electric	Vertically Integrated	12/30/1991	0 0	10 57	13 10	48 60	714 80
Virginia	Virginia Electric & Power Co	D	C-PUE-910047	Electric	Vertically Integrated	8/1/1991	158 9	10 32	13 00	40 62	6,562 60
New Jersey	Public Service Electric Gas	PEG	D-ER-91111698J	Electric	Vertically Integrated	11/14/1991	476 3	10 55	13 00	46 90	7,997 10
Iowa	MidAmerican Energy Co	BRK A	D-RPU-92-5 (elec)	Electric	Vertically Integrated	4/21/1992	20 1	10 32	13 20	45 60	NA
Wisconsin	Northern States Power Co	XEL	D-4220-UR-106 (elec)	Electric	Vertically Integrated	6/1/1992	10 8	11 47	12 60	57 32	401 20
Pennsylvania	Metropolitan Edison Co	FE	C-R-92-2314	Electric	Vertically Integrated	4/24/1992	67 2	10 82	13 50	48 03	1,237 40
New York	Niagara Mohawk Power Corp	NG	C-92-E-0108 9	Electric	Vertically Integrated	1/31/1992	137 1	10 07	12 00	36 12	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-106	Electric	Vertically Integrated	5/1/1992	69 6	12 20	13 50	50 86	2,112 00
Maryland	The Potomac Edison Co	FE	C-8649	Electric	Vertically Integrated	7/29/1992	17 6	10 06	12 75	43 82	537 40
North Carolina	Virginia Electric & Power Co	D	D-E-22 SUB333	Electric	Vertically Integrated	7/31/1992	17 4	10 07	13 00	44 10	367 80
New Jersey	Jersey Centrl Power & Light Co	FE	D-ER-91121820J	Electric	Vertically Integrated	12/20/1991	208 2	10 85	13 30	48 48	2,608 20
Maryland	Baltimore Gas and Electric Co	EXC	C-9487(elec)	Electric	Vertically Integrated	9/25/1992	158 9	9 89	12 87	44 55	4,428 20
Michigan	Upper Peninsula Power Co	C	C-U-10094	Electric	Vertically Integrated	5/14/1992	6 3	9 75	13 35	38 98	93 10
Pennsylvania	West Penn Power Co	FE	C-R-92-2378	Electric	Vertically Integrated	8/18/1992	86 0	10 30	12 90	44 50	1,620 40
South Carolina	Dominion Energy South Carolina	D	D-92-619-E	Electric	Vertically Integrated	12/7/1992	76 3	10 02	12 05	47 84	2,091 00
Massachusetts	Cambdnoe Electric Light Co	MGEE	DP-92-250	Electric	Vertically Integrated	11/16/1992	10 2	10 60	12 25	50 00	87 00
Wisconsin	Madison Gas and Electric Co	ES	D-3270-UR-106 (elec)	Electric	Vertically Integrated	10/26/1992	(2 7)	11 18	12 50	50 34	NA
Connecticut	The CT Light & Power Co	ES	D-92-11-11	Electric	Vertically Integrated	12/11/1992	369 0	9 94	12 90	46 10	3 626 10
North Carolina	Nantahala Power & Light Compan	D	D-E-13 SUB157	Electric	Vertically Integrated	11/20/1992	5 3	10 88	13 00	55 51	NA
Missouri	Evergy Missoun West	EVRG	C-ER-93-42	Electric	Vertically Integrated	8/7/1992	3 1	11 14	12 78	57 93	119 00
Illinois	MidAmerican Energy Co	BRK A	D-92-0357(elec)	Electric	Vertically Integrated	9/1/1992	14 9	10 42	13 00	48 51	239 80
Arizona	UNS Electric Inc	FTS	D-E-1032-92-073	Electric	Vertically Integrated	3/12/1992	7 8	10 24	12 00	61 30	75 10
New York	Rochester Gas & Electric Co	IBE	C-92-E-0739-40	Electric	Vertically Integrated	7/31/1992	29 5	9 55	11 75	42 06	1,286 00
Washington	Puget Sound Energy Inc	XEL	D-UE-92-1262	Electric	Vertically Integrated	10/30/1992	101 2	9 82	12 25	45 00	2,052 10
Minnesota	Northern States Power Co	XEL	D-E-002-GR-92-1185	Electric	Vertically Integrated	11/2/1992	112 3	10 10	12 50	48 39	2,376 60
Wisconsin	Wisconsin Power and Light Co	LNT	D-6880-UR-108 (elec)	Electric	Vertically Integrated	14/1993	20 5	10 12	12 60	50 88	732 80
New York	NY State Electric & Gas Corp	IBE	C-92-E-1084 5	Electric	Vertically Integrated	11/20/1992	56 5	9 61	11 40	44 28	3,183 10
Indiana	Indiana Michigan Power Co	AEP	Ca-39314	Electric	Vertically Integrated	4/27/1992	44 8	9 04	12 80	35 30	1,806 60
Colorado	Public Service Co of CO	XEL	D-93S-001E	Electric	Vertically Integrated	1/20/1993	47 4	10 50	13 00	49 50	1,726 40
New York	Central Maine Power Co	IBE	D-92-345	Electric	Vertically Integrated	3/1/1993	83 4	9 85	12 00	45 90	1,213 20
Maine	Central Hudson Gas & Electric	FTS	C-92-E-1055	Electric	Vertically Integrated	11/12/1992	30 0	9 15	11 75	44 28	798 20
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-108 (elec)	Electric	Vertically Integrated	3/31/1993	(20 2)	10 98	11 40	56 38	580 10
Mississippi	Mississippi Power Co	SO	C-93-UA-0302	Electric	Vertically Integrated	7/21/1993	NA	NA	NA	NA	NA
Arizona	Tucson Electric Power Co	FTS	D-U-1933-93-006	Electric	Vertically Integrated	1/5/1993	49 0	9 17	12 50	44 07	1,121 20
Michigan	DTE Electric Co	DTE	C-U-10102	Electric	Vertically Integrated	7/1/1992	113 0	8 32	12 50	35 10	9,211 80
Texas	Oncor Electric Delivery Co	SRE	D-11735	Electric	Vertically Integrated	1/22/1993	760 3	10 47	12 50	41 52	14,529 00
Virginia	Virginia Electric & Power Co	D	C-PUE-920041	Electric	Vertically Integrated	5/29/1992	289 9	9 57	12 25	43 38	6,972 00
Maine	Versant Power	D	D-93-062	Electric	Vertically Integrated	5/17/1993	18 3	10 04	12 20	42 02	188 50
Iowa	MidAmerican Energy Co	BRK A	D-RPU-93-4	Electric	Vertically Integrated	5/3/1993	14 7	10 60	12 50	48 60	NA
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD-90000898-etel	Electric	Vertically Integrated	3/6/1991	7 9	10 10	12 00	49 00	1 548 30
Mississippi	Entergy Mississippi LLC	ETR	C-U-0301	Electric	Vertically Integrated	11/1/1993	0 0	9 36	12 42	36 42	885 20
District of Columbia	Potomac Electric Power Co	EXC	FC-929	Electric	Vertically Integrated	6/4/1993	77 6	9 46	11 80	46 12	1 567 20
Montana	NorthWestern Corp	NWE	D-93 6 24 (elec)	Electric	Vertically Integrated	6/22/1993	28 0	9 64	12 25	44 12	902 60
Michigan	Consumers Energy Co	CMS	C-U-10335	Electric	Vertically Integrated	5/10/1993	129 3	7 88	12 50	30 78	3 250 30
Vermont	Green Mountain Power Corp	LNT	D-5695	Electric	Vertically Integrated	10/1/1993	11 1	10 20	12 00	50 30	181 20
Iowa	Interstate Power & Light Co	DUK	D-RPU-93-6	Electric	Vertically Integrated	8/4/1993	11 4	8 80	12 35	43 55	286 80
Virginia	Appalachian Power Co	AEP	C-PUE-920081	Electric	Vertically Integrated	12/4/1992	30 7	10 16	12 50	38 98	984 20
Hawaii	Maua Electric Company Ltd	HE	D-7000	Electric	Vertically Integrated	11/13/1991	11 4	10 31	13 00	48 69	192 00
Vermont	Central Vermont Public Service	FE	D-5701.5724	Electric	Vertically Integrated	2/15/1994	17 9	9 35	11 50	47 78	289 30
West Virginia	Monongahela Power Co	FE	C-94-0035-E-42T	Electric	Vertically Integrated	1/18/1994	61 2	9 77	12 25	42 77	940 30
West Virginia	The Potomac Edison Co	FE	C-940027-E-42T	Electric	Vertically Integrated	1/14/1994	9 2	10 40	12 25	48 34	258 70
Virginia	The Potomac Edison Co	FE	C-PUE-930033	Electric	Vertically Integrated	4/30/1993	9 3	10 24	12 50	47 98	227 40
Minnesota	Minnesota Power Entprs Inc	ALE	D-E-015-GR-94-1	Electric	Vertically Integrated	1/3/1994	23 2	9 77	12 50	48 61	484 20
New Mexico	Public Service Co of NM	PNM	C-2567	Electric	Vertically Integrated	11/2/1994	(30 0)	NA	11 06	44 19	NA
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-109 (elec)	Electric	Vertically Integrated	24/1994	0 0	9 85	12 20	52 10	795 40
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-107 (elec)	Electric	Vertically Integrated	4/14/1994	(5 8)	10 89	11 90	53 68	223 20
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-19904	Electric	Vertically Integrated	5/16/1994	46 4	10 37	12 75	42 38	NA
Pennsylvania	West Penn Power Co	FE	D-R-942986	Electric	Vertically Integrated	3/31/1994	80 1	9 48	12 25	45 50	1,834 20
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-109 (elec)	Electric	Vertically Integrated	4/15/1994	(10 8)	11 15	11 90	55 43	573 70
Hawaii	Hawaiian Electric Co	HE	D-7700	Electric	Vertically Integrated	7/26/1993	53 8	9 67	12 75	48 44	691 30
Illinois	Commonwealth Edison Co	EXC	D-94-0065	Electric	Vertically Integrated	2/10/1994	461 7	9 94	12 50	38 97	12,751 20
Idaho	Idaho Power Co	IDA	C-IPC-E-94-5	Electric	Vertically Integrated	6/30/1994	37 1	9 88	12 50	45 42	1,225 50
Hawaii	Hawaii Electric Light Co	HE	D-7764	Electric	Vertically Integrated	11/30/1993	164 0	10 11	13 10	48 10	190 10
Indiana	Duke Energy Indiana LLC	DUK	C-93-36984 39594-S2	Electric	Vertically Integrated	8/3/1993	10 2	9 00	13 00	33 08	2 031 00
Virginia	The Potomac Edison Co	FE	C-PUE-940045	Electric	Vertically Integrated	6/22/1994	6 6	10 33	12 75	46 15	233 30
Texas	Entergy Texas Inc	ETR	D-12852	Electric	Vertically Integrated	3/17/1994	32 7	10 37	12 75	42 38	1 332 70
Ohio	Ohio Power Co	AEP	C-94-996-EL-AIR	Electric	Vertically Integrated	7/6/1994	152 4	10 12	13 00	43 34	NA
Oregon	Portland General Electric Co	POR	D-UE-88	Electric	Vertically Integrated	11/6/1993	59 0	9 54	11 50	44 30	NA
New York	Consolidated Edison Co of NY	ED	C-94-E-0344	Electric	Vertically Integrated	4/29/1994	223 4	10 04	12 75	52 00	8,705 20
New York	Long Island Lightng Co	D	C-93-E-1123	Electric	Vertically Integrated	12/30/1993	0 0	9 45	11 00	30 22	6,863 20
New York	Niagara Mohawk Power Corp	NG	C-94-E-0098 9	Electric	Vertically Integrated	24/1994	89 0	9 33	11 00	42 54	NA
Iowa	Interstate Power & Light Co	LNT	D-RPU-94-2	Electric	Vertically Integrated	7/8/1994	26 0	11 07	13 90	51 91	NA
Louisiana	Entergy Louisiana LLC	ETR	D-U-20925	Electric	Vertically Integrated	8/17/1994	21 0	10 54	12 75	41 02	2,967 70
Vermont	Green Mountain Power Corp	LNT	D-5780	Electric	Vertically Integrated	9/26/1994	18 7	10 16	12 10	50 41	189 50
Indiana	Southern Indiana Gas & Elec Co	CNP	Ca-39871	Electric	Vertically Integrated	5/16/1994	10 5	8 14	12 75	36 60	813 60
District of Columbia	Potomac Electric Power Co	EXC	FC-939	Electric	Vertically Integrated	9/30/1994	56 6	9 89	12 75	46 09	1,639 90
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-108	Electric	Vertically Integrated	3/27/1995	41 0	11 10	12 30	54 31	2 401 20
Wisconsin	Northern States Power Co	XEL	D-4220-UR-108 (elec)	Electric	Vertically Integrated	6/1/1995	(1 2)	10 46	11 80	54 87	NA
Pennsylvania	PPL Electric Utilities Corp	PPL	C-R-943217	Electric	Vertically Integrated	12/30/1994	261 6	10 23	13 00	45 88	5 017 70
Texas	AEP Texas Central Co	AEP	D-12820	Electric	Vertically Integrated	3/3/1994	103 0	10 26	13 00	46 30	NA
Massachusetts	Massachusetts Electric Co	NG	DP-95-40	Electric	Vertically Integrated	3/15/1995	58 2	10 06	12 00	50 44	814 20
Texas	AEP Texas North Co	AEP	D-13369 13969	Electric	Vertically Integrated	2/28/1995	14 6	11 42	12 80	55 70	NA
Ohio	Columbus Southern Power Co	AEP	C-94-1918-EL-AIR	Electric	Vertically Integrated	1/31/1995	7 3	10 08	13 00	45 21	79 90
Rhode Island	Narraquansett Electric Co	NG	D-2290	Electric	Vertically Integrated	3/1/1995	30 5	9 67	12 00	47 17	NA
Iowa	Interstate Power & Light Co	LNT	D-RPU-95-1	Electric	Vertically Integrated	3/31/1995	13 1	9 76	13 25	45 42	NA
Hawaii	Hawaiian Electric Co	HE	D-7766	Electric	Vertically Integrated	12/27/1993	28 2	10 11	13 25	48 81	800 80
California	Pacific Gas and Electric Co	PG&E	AP-9412005 De-9512055 (elec)	Electric	Vertically Integrated	12/9/1994	(128 7)	9 49	11 60	48 00	8,981 70
South Carolina	Dominion Energy South Carolina	D	D-95-1000-E	Electric	Vertically Integrated	7/10/1995	76 7	9 63	12 25	48 27	2 516 30
Michigan	Consumers Energy Co	CMS	C-U-10685	Electric	Vertically Integrated	11/10/1994	88 5				

Arizona	UNS Electric Inc	FTS	D-E-1032-95-433	Electrnc	Vertically Integrated	9/13/1995	3 1	10 35	12 50	59 20	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-109 (elec)	Electrnc	Vertically Integrated	1/16/1996	77 0	10 64	12 50	53 40	2,486 00
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-110 (elec)	Electrnc	Vertically Integrated	4/1/1996	(5 0)	10 71	11 75	55 03	567 80
Texas	AEP Texas Central Co	AEP	D-14965	Electrnc	Vertically Integrated	11/6/1995	70 8	9 75	12 25	45 40	3,298 20
Hawaii	Hawaii Electric Light Co	HE	D-94-0140	Electrnc	Vertically Integrated	3/15/1995	8 9	9 76	12 50	49 30	223 40
Hawaii	Maui Electric Company Ltd	HE	D-94-0345	Electrnc	Vertically Integrated	2/28/1995	5 0	9 27	11 50	49 12	228 00
Wisconsin	Wisconsin Power and Light Co	LNT	D-6880-UR-110 (elec)	Electrnc	Vertically Integrated	4/1/1996	13 4	9 59	11 90	51 59	821 60
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-108 (elec)	Electrnc	Vertically Integrated	9/3/1996	7 7	11 24	12 00	54 08	224 00
Arkansas	Entergy Arkansas LLC	ETR	D-96-380-U	Electrnc	Vertically Integrated	10/24/1996	13 5	NA	12 50	NA	NA
Hawaii	Maui Electric Company Ltd	HE	D-96-0040	Electrnc	Vertically Integrated	5/23/1996	1 3	9 39	11 65	48 58	NA
Maine	Versant Power		D-97-116	Electrnc	Vertically Integrated	5/8/1997	22 9	9 88	13 60	26 72	389 30
Vermont	Green Mountain Power Corp		D-5893	Electrnc	Vertically Integrated	6/16/1997	22 2	10 02	13 00	44 48	198 30
Missouri	Evergy Missouri West	EVRG	C-ER-97-394	Electrnc	Vertically Integrated	3/21/1997	15 4	10 33	12 50	47 31	537 60
Louisiana	Entergy Louisiana LLC	ETR	D-U-20925-E	Electrnc	Vertically Integrated	11/12/1996	NA	NA	NA	NA	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-110 (elec)	Electrnc	Vertically Integrated	9/22/1997	192 7	10 71	12 50	53 31	2,582 50
Texas	Entergy Texas Inc	ETR	D-16705	Electrnc	Vertically Integrated	11/27/1996	25 0	10 20	12 75	39 85	1,270 80
Wisconsin	Northern States Power Co	XEL	D-4220-UR-110 (elec)	Electrnc	Vertically Integrated	11/14/1997	12 7	10 33	12 00	54 97	456 00
New Mexico	Public Service Co of NM	PNM	C-2761	Electrnc	Vertically Integrated	11/3/1997	4 9	9 57	12 60	50 22	944 10
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-109 (elec)	Electrnc	Vertically Integrated	4/15/1998	14 6	10 92	12 50	52 04	249 00
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-111 (elec)	Electrnc	Vertically Integrated	4/1/1998	36 2	10 77	11 80	54 22	673 60
Connecticut	The CT Light & Power Co	ES	D-98-01-02	Electrnc	Vertically Integrated	6/1/1998	(51 9)	8 53	11 40	34 39	3,040 80
Utah	PacificCorp	BRK A	D-97-035-01	Electrnc	Vertically Integrated	2/12/1997	(31 4)	9 20	11 25	47 60	2,302 20
Hawaii	Maui Electric Company Ltd	HE	D-97-0346	Electrnc	Vertically Integrated	1/9/1998	16 4	9 72	12 75	48 84	310 80
Idaho	Avista Corp	AVA	C-WWP-E-98-11	Electrnc	Vertically Integrated	12/18/1998	14 2	9 45	12 00	37 42	361 20
Arkansas	Southwestern Electric Power Co	AEP	D-98-339-U	Electrnc	Vertically Integrated	5/24/1999	(7 8)	6 72	10 50	33 70	NA
Louisiana	Southwestern Electric Power Co	AEP	D-U-23029	Electrnc	Vertically Integrated	12/17/1997	(7 0)	NA	11 25	NA	NA
Kentucky	Kentucky Utilities Co	PPL	C-98-474	Electrnc	Vertically Integrated	10/12/1998	14 9	9 37	12 50	51 43	1,092 70
Kentucky	Louisville Gas & Electric Co	PPL	C-98-426	Electrnc	Vertically Integrated	10/28/1998	7 9	8 65	12 00	48 82	1,289 90
California	Pacific Gas and Electric Co	PG&E	AP-9712020 De-0002046 (elec)	Electrnc	Vertically Integrated	12/12/1997	445 0	9 17	11 20	48 00	7,045 40
Wyoming	PacificCorp	BRK A	D-20000-ER-99-145	Electrnc	Vertically Integrated	7/26/1999	40 6	9 09	11 25	48 80	910 30
Utah	PacificCorp	BRK A	D-99-035-10	Electrnc	Vertically Integrated	9/20/1999	67 0	9 15	11 25	48 80	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-6830-UR-111 (elec)	Electrnc	Vertically Integrated	9/17/1999	93 9	10 48	12 20	53 14	NA
Washington	Avista Corp	AVA	D-UE-99-1606	Electrnc	Vertically Integrated	10/22/1999	18 2	9 97	12 25	47 00	635 80
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-110 (elec)	Electrnc	Vertically Integrated	4/17/2000	9 6	10 56	12 90	50 17	312 40
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-112 (elec)	Electrnc	Vertically Integrated	3/31/2000	34 8	10 44	12 10	53 50	715 40
Vermont	Green Mountain Power Corp		D-6107	Electrnc	Vertically Integrated	5/8/1998	20 8	9 53	11 25	46 95	NA
Hawaii	Hawaii Electric Light Co	HE	D-99-0207	Electrnc	Vertically Integrated	10/25/1999	15 5	10 01	13 25	49 69	263 70
Montana	NorthWestern Corp	NWE	D-D2000 8 113 (elec)	Electrnc	Distribution	8/11/2000	35 9	9 68	12 75	48 52	615 10
Vermont	Central Vermont Public Service		D-6460.6120	Electrnc	Vertically Integrated	11/9/2000	19 0	9 22	11 00	47 34	NA
Kansas	Evergy Kansas Central Inc	EVRG	D-01-WSRE-436-RTS (WR)	Electrnc	Vertically Integrated	11/27/2000	92 6	10 26	12 75	50 00	1,099 90
Kansas	Evergy Kansas South	EVRG	D-01-WSRE-436-RTS (KG&E)	Electrnc	Vertically Integrated	11/27/2000	57 9	10 26	12 75	50 00	1,363 60
Wyoming	PacificCorp	BRK A	D-20000-ER-00-162	Electrnc	Vertically Integrated	12/18/2000	29 9	9 15	11 50	49 06	NA
Oregon	Portland General Electric Co	POR	D-UE-115	Electrnc	Vertically Integrated	10/2/2000	324 0	9 74	11 50	52 18	NA
Oregon	PacificCorp	BRK A	D-UE-116	Electrnc	Vertically Integrated	11/1/2000	103 9	9 08	11 50	47 60	2,400 00
Utah	PacificCorp	BRK A	D-01-035-01	Electrnc	Vertically Integrated	11/2/2001	142 2	9 16	11 50	47 80	NA
Missouri	Empire District Electric Co	AON	C-ER-2001-299	Electrnc	Vertically Integrated	11/3/2000	39 1	9 61	11 50	47 50	507 90
New York	Central Hudson Gas & Electric	FTS	C-00-E-1273	Electrnc	Distribution	8/1/2000	13 6	9 03	11 50	50 59	NA
New York	Norfolk Electric Power Corp	NG	C-01-M-0075	Electrnc	Vertically Integrated	1/17/2001	(132 0)	NA	NA	NA	NA
Mississippi	Mississippi Power Co	SO	D-01-UN-0548	Electrnc	Vertically Integrated	8/3/2001	46 4	10 10	13 25	53 68	753 20
Georgia	Georgia Power Co	SO	D-14000-U	Electrnc	Vertically Integrated	6/29/2001	103 0	10 01	13 25	51 67	8,287 27
New Mexico	Texas-New Mexico Power Co	PNM	C-3643	Electrnc	Vertically Integrated	7/3/2001	6 4	9 05	11 50	40 70	NA
Nevada	Nevada Power Co	BRK A	D-01-10001	Electrnc	Vertically Integrated	10/1/2001	22 9	9 30	12 25	42 59	2,148 00
North Dakota	MDU Resources Group	MDU	C-PU-399-01-186	Electrnc	Vertically Integrated	9/7/2001	0 0	10 70	12 75	48 87	128 90
Nevada	Sierra Pacific Power Co	BRK A	D-01-11030	Electrnc	Vertically Integrated	11/30/2001	15 9	9 42	12 25	39 19	983 00
Florida	Gulf Power Co	NEE	D-010949-EI	Electrnc	Vertically Integrated	9/10/2001	69 9	8 64	13 00	41 04	1 198 50
Washington	Avista Corp	AVA	D-UE-01-1595	Electrnc	Vertically Integrated	12/3/2001	53 2	10 39	12 75	42 00	NA
Washington	Puget Sound Energy Inc		D-UE-01-1570	Electrnc	Vertically Integrated	11/26/2001	228 3	10 47	14 00	45 00	NA
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-113 (elec)	Electrnc	Vertically Integrated	4/12/2001	86 8	10 87	12 60	55 01	854 20
Vermont	Frontier Communications Corp	LTRC Q	D-6596	Electrnc	Vertically Integrated	10/31/2001	7 9	6 43	11 00	50 00	NA
Wisconsin	Wisconsin Power and Light Co	LNT	D-6880-UR-111 (elec)	Electrnc	Vertically Integrated	9/1/2001	85 9	10 83	13 50	52 05	844 70
Connecticut	The United Illuminating Co	UIE	D-01-10-10	Electrnc	Distribution	11/15/2001	NA	8 97	11 50	50 00	784 90
Oklahoma	Oklahoma Gas and Electric Co	OGE	CA-PUD-2001 00455	Electrnc	Vertically Integrated	7/26/2001	26 2	9 43	12 00	47 08	1,568 60
Mississippi	Entergy Mississippi LLC	ETR	D-02-UN-0526	Electrnc	Vertically Integrated	8/16/2002	69 9	9 36	12 34	44 99	1,214 10
Michigan	Upper Peninsula Power Co		C-U-13497	Electrnc	Vertically Integrated	8/2/2002	9 9	9 80	12 60	55 00	85 50
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-25687	Electrnc	Vertically Integrated	5/31/2001	10 2	NA	11 10	NA	NA
South Carolina	Dominion Energy South Carolina	D	D-2002-223-E	Electrnc	Vertically Integrated	8/6/2002	104 7	9 93	12 50	51 56	3,258 00
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-111 (elec)	Electrnc	Vertically Integrated	5/1/2002	22 0	10 75	12 90	55 42	280 90
Wyoming	PacificCorp	BRK A	D-20000-ER-02-184	Electrnc	Vertically Integrated	5/7/2002	20 0	8 68	11 25	45 70	888 00
New York	Rochester Gas & Electric Co	IBE	C-02-E-0198	Electrnc	Distribution	2/15/2002	40 2	9 09	12 01	44 08	1,182 90
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-114 (elec)	Electrnc	Vertically Integrated	3/28/2002	50 7	10 52	12 60	55 20	883 60
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-112 (elec)	Electrnc	Vertically Integrated	5/7/2002	105 0	10 89	13 10	52 80	917 50
Iowa	Interstate Power & Light Co	LNT	D-RPU-02-3	Electrnc	Vertically Integrated	3/29/2002	75 5	9 92	12 25	52 11	1 436 80
Colorado	Black Hills Colorado Electric	BKH	D-02S-594E	Electrnc	Vertically Integrated	10/15/2002	23 4	10 19	13 25	47 50	122 10
Colorado	Public Service Co of CO	XEL	D-02S-315E	Electrnc	Vertically Integrated	5/31/2002	14 5	9 71	12 00	51 28	2,830 00
New Jersey	Public Service Electric Gas	PEG	D-ER-02050303	Electrnc	Distribution	5/24/2002	298 2	8 94	11 60	41 45	3,092 00
New Jersey	Rockland Electric Company	ED	D-ER-02100724	Electrnc	Distribution	10/1/2002	3 2	9 33	12 00	51 01	129 00
New Jersey	Jersey Cntrl Power & Light Co	FE	D-ER-02080506PhaseI	Electrnc	Distribution	9/1/2002	(41 6)	10 05	12 00	57 20	2,053 60
Oregon	PacificCorp	BRK A	D-UE-147	Electrnc	Vertically Integrated	3/18/2003	57 9	8 80	11 50	44 95	2,115 00
Connecticut	The CT Light & Power Co	ES	D-03-03-02	Electrnc	Distribution	8/1/2003	18 2	8 76	10 75	49 80	NA
Utah	PacificCorp	BRK A	D-03-2035-02	Electrnc	Vertically Integrated	7/31/2003	125 0	8 72	11 50	45 11	2,956 90
North Dakota	MDU Resources Group	MDU	C-PU-399-03-296	Electrnc	Vertically Integrated	5/30/2003	7 8	10 18	11 75	50 32	143 60
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-113 (elec)	Electrnc	Vertically Integrated	3/6/2003	65 3	10 38	12 71	57 47	970 20
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-115 (elec)	Electrnc	Vertically Integrated	4/1/2003	92 3	10 31	12 00	55 00	869 80
Vermont	Green Mountain Power Corp		D-6867	Electrnc	Vertically Integrated	4/1/2003	NA	NA	NA	NA	NA
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-112 (elec)	Electrnc	Vertically Integrated	5/30/2003	19 2	10 53	12 30	56 60	301 60
Wyoming	PacificCorp	BRK A	D-20000-ER-03-198	Electrnc	Vertically Integrated	5/27/2003	34 4	8 75	11 50	44 95	899 50
Nevada	Nevada Power Co	BRK A	D-03-10001	Electrnc	Vertically Integrated	10/1/2003	133 5	10 00	12 40	37 12	2,421 10
Minnesota	Interstate Power & Light Co	LNT	D-E-001/GR-03-767	Electrnc	Vertically Integrated	5/19/2003	5 0	9 67	12 30	47 15	107 90
Indiana	Duke Energy Indiana, LLC	DUK	Ca-42359	Electrnc	Vertically Integrated	12/30/2002	145 3	7 63	11 20	44 44	3,662 40
Idaho	Idaho Power Co	IDA	C-IPC-E-03-13	Electrnc	Vertically Integrated	10/16/2003	70 7	8 33	11 20	45 97	1 547 40
Nevada	Sierra Pacific Power Co	BRK A	D-03-12002	Electrnc	Vertically Integrated	12/1/2003	87 0	10 10	12 40	39 79	1,151 60
California	Pacific Gas and Electric Co	PG&E	AP-0211017 De-0405055 (elec)	Electrnc	Vertically Integrated	11/8/2002	602 0	9 24	11 22	48 00	9,410 00
Kentucky	Kentucky Utilities Co	PPL	C-2003-00434	Electrnc	Vertically Integrated	12/29/2003	57 8	6 84	11 25	53 30	1,396 10
Kentucky	Louisville Gas & Electric Co	PPL	C-2003-00433 (elec)	Electrnc	Vertically Integrated	12/29/2003	63 8	7 20	11 25	49 50	1 468 70
California	Southern California Edison Co	ELX	AP-0205004 De-0407022	Electrnc	Vertically Integrated	5/5/2002	251 0	9 39	11 60	48 00	7,836 00
Colorado	Black Hills Colorado Electric	BKH	D-04S-035E	Electrnc	Vertically Integrated	12/29/2003	11 4	9 07	10 75	47 50	129 60
Idaho	Avista Corp	AVA	C-AVU-E-04-1	Electrnc	Vertically Integrated	2/6/2004	31 1	9 72	11 50	42 59	427 80
Rhode Island	Narragansett Electric Co	NG	D-3617	Electrnc	Distribution	6/29/2004	(10 2)	8 89	10 50	50 00	NA
Michigan	DTE Electric Co	DTE	C-U-13808	Electrnc	Vertically Integrated	6/20/2003	582 8	7 75	11 50	42 53	7,469 00
Iowa	Interstate Power & Light Co	LNT	D-RPU-04-1	Electrnc	Vertically Integrated	3/15/2004	149 2	9 30	11 50	50 24	1,988 20
Georgia	Georgia Power Co	SO	D-18300-U	Electrnc	Vertically Integrated	7/1/2004	262 0	9 02	12 50	50 00	9,180 00
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-116 (elec)	Electrnc	Vertically Integrated	4/1/2004	69 4	11 79	12 00	56 17	887 20
Penn											

Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-114 (elec)	Electric	Vertically Integrated	4/19/2005	37.9	9.68	11.50	57.04	328.90
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD-200500151	Electric	Vertically Integrated	5/20/2005	89.1	9.13	11.75	55.69	1,879.60
Ohio	Duke Energy Ohio Inc	DUK	C-05-59-EL-AIR	Electric	Distribution	2/17/2005	77.9	9.15	11.00	56.51	859.60
Washington	Avista Corp	AVA	D-UE-05-0482	Electric	Vertically Integrated	3/29/2005	35.8	9.67	11.50	44.00	795.80
Wisconsin	Wisconsin Public Service Corp	WEC	D-8690-UR-117 (elec)	Electric	Vertically Integrated	4/1/2005	93.1	12.55	12.00	62.05	892.50
Michigan	Consumers Energy Co	CMS	C-U-14347	Electric	Vertically Integrated	12/17/2004	288.8	7.37	12.75	36.31	4,838.30
Kansas	Evergy Kansas Central Inc	EVRG	D-05-WSEE-981-RTS (WR)	Electric	Vertically Integrated	5/2/2005	47.8	8.84	11.50	44.69	1,052.60
Kansas	Evergy Kansas South	EVRG	D-05-WSEE-981-RTS (KG&E)	Electric	Vertically Integrated	5/2/2005	36.3	8.84	11.50	44.69	1,280.60
Wisconsin	Northern States Power Co	XEL	D-4220-UR-114 (elec)	Electric	Vertically Integrated	6/1/2005	61.4	10.72	11.90	56.32	553.20
Connecticut	The United Illuminating Co	IBE	D-05-06-04	Electric	Distribution	7/18/2005	39.8	8.07	11.60	52.00	401.60
Minnesota	Interstate Power & Light Co	LNT	D-E-001-GR-05-748	Electric	Vertically Integrated	5/16/2005	4.8	9.19	11.50	50.66	134.70
Washington	PacifiCorp	BRK A	D-UE-05-0684	Electric	Vertically Integrated	5/5/2005	29.8	8.75	11.13	49.50	615.20
Nevada	Sierra Pacific Power Co	BRK A	D-05-10003	Electric	Vertically Integrated	10/3/2005	(4.0)	9.28	11.40	40.76	1,097.20
California	Southern California Edison Co	EIX	Ap-04-12-014	Electric	Vertically Integrated	12/21/2004	324.9	9.07	11.40	48.00	9,301.90
Delaware	Delmarva Power & Light Co	EXC	D-05-304	Electric	Distribution	8/31/2005	2.1	7.64	11.00	47.72	430.90
Michigan	Upper Peninsula Power Co		C-U-14745	Electric	Vertically Integrated	1/3/2006	6.2	8.10	11.50	47.12	109.90
Maine	Maine Public Service Co	EMA	D-2006-024	Electric	Distribution	3/13/2006	3.2	8.59	10.25	53.00	25.00
New York	Central Hudson Gas & Electric	FTS	C-05-E-0934	Electric	Distribution	7/29/2005	60.6	7.66	10.75	46.98	536.80
West Virginia	Appalachian Power Co	AEP	C-05-1278-E-PC--PW-42T	Electric	Vertically Integrated	8/26/2005	85.5	8.02	11.50	41.32	1,714.50
Illinois	Commonwealth Edison Co	EXC	D-05-0597	Electric	Distribution	8/31/2005	279.0	8.94	11.00	54.20	6,174.50
New York	NY State Electric & Gas Corp	IBE	C-05-E-1222	Electric	Distribution	9/29/2005	58.0	7.88	11.00	50.00	1,513.60
Minnesota	Northern States Power Co	XEL	D-E-002-GR-05-1428	Electric	Vertically Integrated	11/2/2005	154.3	9.04	11.00	51.67	3,237.60
Oregon	PacifiCorp	BRK A	D-UE-179	Electric	Vertically Integrated	2/23/2006	116.7	9.08	11.50	52.80	2,302.20
New Hampshire	Unitil Energy Systems Inc	UTL	DE-05-178	Electric	Distribution	11/4/2005	4.7	9.25	11.00	43.09	98.50
Illinois	Ameren Illinois	AEE	D-08-0072 (IP)	Electric	Distribution	12/27/2005	148.4	8.69	11.00	53.07	1,228.60
Illinois	Ameren Illinois	AEE	D-08-0071 (CIPS)	Electric	Distribution	12/27/2005	26.7	8.50	11.00	48.92	429.00
Illinois	Ameren Illinois	AEE	D-08-0070 (CILCO)	Electric	Distribution	12/27/2005	45.8	8.77	11.00	52.28	281.90
Utah	PacifiCorp	BRK A	D-06-035-21	Electric	Vertically Integrated	3/7/2006	194.1	9.05	11.40	52.80	3,574.20
Colorado	Public Service Co of CO	XEL	D-06S-234EG	Electric	Vertically Integrated	4/14/2006	171.7	9.15	11.00	59.93	3,376.00
Vermont	Central Vermont Public Service		D-7191	Electric	Vertically Integrated	5/15/2006	16.4	9.25	12.00	55.67	304.60
Missouri	Empire District Electric Co	AON	C-ER-2006-0315	Electric	Vertically Integrated	2/1/2006	26.2	9.50	11.70	50.80	621.50
Missouri	Evergy Metro Inc	EVRG	C-ER-2006-0314	Electric	Vertically Integrated	1/31/2006	55.8	9.02	11.50	53.69	1,271.80
Vermont	Green Mountain Power Corp		D-7175 7176	Electric	Vertically Integrated	4/14/2006	25.0	9.20	11.30	52.80	233.10
Arkansas	Oklahoma Gas and Electric Co	OGE	D-06-070-U	Electric	Vertically Integrated	7/28/2006	13.5	6.29	11.75	36.85	305.60
Pennsylvania	Metropolitan Edison Co	FE	D-R-00061366	Electric	Distribution	4/10/2006	216.8	8.99	12.00	49.00	998.70
Pennsylvania	Pennsylvania Electric Co	FE	D-R-00061367	Electric	Distribution	4/10/2006	163.9	9.23	12.00	49.00	1,092.20
Wisconsin	Wisconsin Public Service Corp	WEC	D-8690-UR-118 (elec)	Electric	Vertically Integrated	3/31/2006	136.9	14.17	11.00	60.35	851.90
Oregon	Portland General Electric Co	POR	D-UE-180	Electric	Vertically Integrated	3/13/2006	53.5	8.87	10.75	53.30	2,027.20
Washington	Puget Sound Energy Inc		D-UE-06-0266	Electric	Vertically Integrated	2/15/2006	33.5	8.76	11.25	45.00	2,977.30
Wisconsin	Wisconsin Power and Light Co	LNT	D-8690-UR-115 (elec)	Electric	Vertically Integrated	3/17/2006	164.7	10.59	11.20	59.23	1,022.40
California	Pacific Gas and Electric Co	PCG	AP-0512002 De-0703044(elec)	Electric	Vertically Integrated	12/2/2005	359.1	8.79	11.35	52.00	10,548.60
New Jersey	Rockland Electric Company	ED	D-ER-06060483	Electric	Distribution	6/30/2006	13.2	8.70	11.00	49.70	135.30
Virginia	Appalachian Power Co	AEP	C-PUE-2006-00065	Electric	Vertically Integrated	5/4/2006	185.6	8.21	11.50	43.85	2,345.23
Missouri	Evergy Missouri West	EVRG	C-ER-2007-0004 (L&P)	Electric	Vertically Integrated	7/3/2006	52.2	9.48	11.25	49.17	1,866.80
Missouri	Evergy Missouri West	EVRG	C-ER-2007-0004 (MPS)	Electric	Vertically Integrated	7/3/2006	52.9	9.92	11.25	48.17	919.48
Missouri	Union Electric Co	AEE	C-ER-2007-0002	Electric	Vertically Integrated	7/7/2006	245.4	8.88	12.00	52.22	5,637.43
West Virginia	Monongahela Power Co	FE	C-06-0960-E-42T	Electric	Vertically Integrated	7/26/2006	96.5	9.08	11.75	46.07	1,239.45
Nevada	Nevada Power Co	BRK A	D-06-11022	Electric	Vertically Integrated	11/15/2006	156.8	9.39	11.40	47.29	3,320.80
New Hampshire	Public Service Co of NH	ES	D-DE-06-028	Electric	Distribution	5/30/2006	60.2	7.98	10.50	48.22	647.10
Arkansas	Entergy Arkansas LLC	ETR	D-06-101-U	Electric	Vertically Integrated	8/15/2006	106.5	6.42	11.25	36.63	3,654.35
Washington	PacifiCorp	BRK A	D-UE-06-1546	Electric	Vertically Integrated	10/3/2006	18.6	8.06	10.20	46.00	547.10
West Virginia	Appalachian Power Co	AEP	C-07-0248-E-GI	Electric	Vertically Integrated	3/1/2007	100.5	7.67	10.50	42.88	1,817.40
Arizona	Arizona Public Service Co	PNW	D-E-01345A-05-0816	Electric	Vertically Integrated	11/4/2005	434.6	8.73	11.50	54.50	4,456.94
New Hampshire	Liberty Utilities Granite St	AON	D-DG-06-107	Electric	Distribution	8/10/2006	NA	NA	NA	NA	NA
Maryland	Delmarva Power & Light Co	EXC	C-9093	Electric	Distribution	11/17/2006	15.8	8.05	10.75	48.63	268.80
Maryland	Potomac Electric Power Co	EXC	C-9092	Electric	Distribution	11/17/2006	47.3	8.34	10.75	47.69	879.96
Indiana	Southern Indiana Gas & Elec Co	CNP	Ca-43111	Electric	Vertically Integrated	9/1/2006	80.4	7.96	11.75	47.05	1,043.72
Oklahoma	Public Service Co of OK	AEP	Ca-PUD-200600285	Electric	Vertically Integrated	11/21/2006	47.9	8.82	11.75	46.02	1,184.99
New York	Orange & Rockland Utts Inc	ED	D-06-E-1433	Electric	Distribution	12/15/2006	0.0	NA	NA	NA	NA
Texas	Electric Transmission Texas		D-33734	Electric	Transmission	1/22/2007	13.6	8.40	11.25	40.00	75.85
Vermont	Chevyenne Light Fuel Power Co	BKH	D-2000S-90-ER-7 (elec)	Electric	Vertically Integrated	3/1/2007	6.4	8.14	11.75	54.00	252.18
Missouri	Evergy Metro Inc	EVRG	C-ER-2007-0291	Electric	Vertically Integrated	2/1/2007	47.3	8.97	11.25	57.82	1,300.00
Texas	AEP Texas Central Co	AEP	D-33308	Electric	Distribution	11/9/2006	69.6	7.90	10.75	40.00	1,596.49
South Carolina	Dominion Energy South Carolina	D	D-2007-229-E	Electric	Vertically Integrated	6/15/2007	118.0	9.18	11.75	53.32	3,970.00
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-115 (elec)	Electric	Vertically Integrated	5/7/2007	34.0	9.25	11.00	57.02	423.70
Washington	Avista Corp	AVA	D-UE-07-0804	Electric	Vertically Integrated	4/26/2007	51.1	9.39	11.30	47.78	897.43
Maine	Versant Power		D-2006-661	Electric	Distribution	1/16/2007	1.4	9.03	11.25	50.00	139.13
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7 Sub 828	Electric	Vertically Integrated	6/1/2007	140.2	9.36	12.50	53.00	7,798.40
Idaho	PacifiCorp	BRK A	C-PAC-E-07-05	Electric	Vertically Integrated	6/8/2007	18.6	8.52	10.75	50.40	491.60
Georgia	Georgia Power Co	SO	D-25060-U	Electric	Vertically Integrated	6/29/2007	406.7	9.40	12.50	52.75	11,401.50
Wisconsin	Northern States Power Co	XEL	D-4220-UR-115 (elec)	Electric	Vertically Integrated	6/1/2007	67.4	10.07	11.00	53.86	565.10
Wisconsin	Wisconsin Electric Power Co	WEC	D-5-UR-103 (WEP-EL)	Electric	Vertically Integrated	5/7/2007	353.8	9.90	11.20	56.14	3,075.72
Connecticut	The CT Light & Power Co	ES	D-07-07-01	Electric	Distribution	7/30/2007	210.7	8.47	11.00	49.50	2,463.70
District of Columbia	Potomac Electric Power Co	EXC	FC-1053	Electric	Distribution	12/12/2006	50.5	8.42	11.00	46.55	980.64
Vermont	Central Vermont Public Service		D-7321	Electric	Vertically Integrated	5/15/2007	12.4	8.52	10.75	50.02	355.70
Massachusetts	Fitchburg Gas & Electric Light	UTL	DPU-07-71	Electric	Distribution	8/17/2007	3.3	8.59	10.75	42.80	52.06
Vermont	PacifiCorp	BRK A	D-20000-277-ER-7	Electric	Vertically Integrated	6/29/2007	36.1	8.54	10.75	50.80	1,230.63
New York	Consolidated Edison Co of NY	ED	C-07-E-0523	Electric	Distribution	5/4/2007	1,201.5	8.58	11.50	48.45	13,275.16
Montana	MDU Resources Group	MDU	D-2007-779	Electric	Vertically Integrated	7/1/2007	8.9	8.67	11.00	55.87	62.11
New Mexico	Public Service Co of NM	PNM	C-07-00077-UT	Electric	Vertically Integrated	2/21/2007	76.8	8.57	10.75	51.37	1,236.32
Hawaii	Hawaiian Electric Co	HE	D-04-0113	Electric	Vertically Integrated	11/12/2004	54.0	8.66	10.70	54.50	NA
Florida	Florida Public Utilities Co	CPK	D-070304-EI	Electric	Vertically Integrated	8/30/2007	5.2	8.80	11.50	39.74	43.02
Arizona	UNS Electric Inc	FTS	D-E-04204A-06-0783	Electric	Vertically Integrated	12/14/2006	8.5	8.99	11.80	48.85	141.04
Michigan	Consumers Energy Co	CMS	C-U-15245	Electric	Vertically Integrated	3/30/2007	265.0	7.19	11.25	42.02	5,126.76
West Virginia	Appalachian Power Co	AEP	C-08-0278-E-P	Electric	Vertically Integrated	2/29/2008	156.3	7.65	10.50	41.54	1,972.00
Nevada	Sierra Pacific Power Co	BRK A	D-07-12001	Electric	Vertically Integrated	12/3/2007	105.7	8.73	11.50	45.19	1,553.54
Minnesota	Otter Tail Power Co	OTTR	D-E-017/GR-07-1178	Electric	Vertically Integrated	10/1/2007	9.5	8.89	11.25	52.90	207.78
New York	Orange & Rockland Utts Inc	ED	C-07-E-0949	Electric	Distribution	8/10/2007	47.8	8.80	11.50	48.60	528.62
Missouri	Empire District Electric Co	AON	C-ER-2008-0093	Electric	Vertically Integrated	10/1/2007	33.4	9.32	11.60	50.78	704.00
California	San Diego Gas & Electric Co	SRE	Ap-06-12-009 (elec)	Electric	Vertically Integrated	12/8/2006	197.9	8.23	10.70	49.00	2,989.30
Utah	PacifiCorp	BRK A	D-07-035-93	Electric	Vertically Integrated	12/17/2007	74.5	8.54	10.75	50.40	4,127.10
New Mexico	Southwestern Public Service Co	XEL	C-07-00319-UT	Electric	Vertically Integrated	7/30/2007	18.9	8.56	10.75	51.23	310.01
Illinois	Commonwealth Edison Co	EXC	D-07-0568	Electric	Distribution	10/17/2007	355.4	8.57	10.75	45.04	7,016.92
Illinois	Ameren Illinois	AEE	D-07-0585 (CILCO)	Electric	Distribution	11/22/2007	4.1	8.74	11.00	52.93	243.33
Illinois	Ameren Illinois	AEE	D-07-0586 (CIPS)	Electric	Distribution	11/22/2007	27.8	8.67	11.00	50.00	444.31
Illinois	Ameren Illinois	AEE	D-07-0587 (IP)	Electric	Distribution	11/22/2007	130.5	8.24	11.00	52.61	1,286.05
Idaho	Avista Corp	AVA	C-AVU-E-08-01	Electric	Vertically Integrated	4/3/2008	32.3	8.74	10.80	47.94	549.30
Washington	Puget Sound Energy Inc		D-UE-07-2300	Electric	Vertically Integrated	12/3/2007	165.2	8.60	10.80	45.00	3,298.20
Michigan	Wisconsin Electric Power Co	WEC	C-U-15500	Electric	Vertically Integrated	1/31/2008	22.0	NA	NA	NA	NA
Virginia	Appalachian Power Co	AEP	C-PUE-2008-00046	Electric	Vertically Integrated	5/30/2008	207.9	8.52	11.75	41.02	2,415.12
Arizona	Tucson Electric Power Co	FTS	D-E-01933A-07-0402	Electric	Vertically Integrated	7/2/2007	158.2	8.35	10.75	45.00	982.73
Michigan	DTE Electric Co	DTE	C-U-15244	Electric	Vertically Integrated	4/13/2007	284.1	7.39	11.25	41.90	9,051.60
Oregon	Portland General Electric Co	POR	D-UE-197	Electric	Vertically Integrated	2/27/2008	162.2	8.33	10.10	50.00	2,275.80

New York	Central Hudson Gas & Electric	FTS	C-08-E-0887	Electric	Distribution	7/31/2008	66	1	7	34	10	05	48	00	678	04
Nevada	Nevada Power Co	BRK A	D-08-12002	Electric	Vertically Integrated	12/1/2008	305	7	8	86	11	26	44	15	5,009	51
Ohio	Duke Energy Ohio Inc	DUK	C-08-0709-EL-AIR	Electric	Distribution	7/25/2008	85	6	9	10	11	00	58	28	979	49
Idaho	Avista Corp	AVA	C-AV-U-E-09-01	Electric	Vertically Integrated	1/23/2009	31	2	8	80	11	00	50	00	577	43
Texas	Texas-New Mexico Power Co	PNM	D-36025	Electric	Distribution	8/29/2008	24	4	10	16	11	25	40	00	430	10
Texas	Oncor Electric Delivery Co	SRE	D-35717	Electric	Distribution	6/27/2008	241	6	8	55	11	50	40	00	7,302	59
Louisiana	Cleco Power LLC		D-U-30689	Electric	Vertically Integrated	7/14/2008	250	1	9	38	12	25	52	04	1,907	53
Minnesota	Northern States Power Co	XEL	D-E-002/GR-08-1065	Electric	Vertically Integrated	11/3/2008	135	8	89		11	00	52	47	4,087	40
Michigan	Consumers Energy Co	CMS	C-U-15645	Electric	Vertically Integrated	11/14/2008	179	0	7	12	11	00	40	88	6,287	00
California	Sierra Pacific Power Co	BRK A	AP-08-08-004	Electric	Vertically Integrated	8/1/2008	8	8	81	11	40		43	71	146	52
Arkansas	Southwestern Electric Power Co	AEP	D-09-009-U	Electric	Vertically Integrated	2/19/2009	25	3	7	00	11	50	35	68	608	97
North Dakota	Otter Tail Power Co	OTTR	C-PU-08-862	Electric	Vertically Integrated	11/3/2008	6	1	89	11	25		53	30	187	17
Massachusetts	Massachusetts Electric Co	NG	DPU 09-39	Electric	Distribution	5/15/2009	111	3	9	20	11	60	50	36	1,485	66
Colorado	Public Service Co of CO	XEL	D-09AL-299E	Electric	Vertically Integrated	5/1/2009	285	5	9	14	11	25	58	05	4,440	53
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, Sub 909	Electric	Vertically Integrated	6/2/2009	481	7	8	84	11	50	53	00	9,673	10
Michigan	Upper Peninsula Power Co		C-U-15988	Electric	Vertically Integrated	6/26/2009	12	2	87	12	00		49	52	145	49
Arizona	Arizona Public Service Co	PNW	D-E-01345A-08-0172	Electric	Vertically Integrated	3/24/2008	448	2	8	86	11	50	53	80	5,359	96
Wisconsin	Wisconsin Electric Power Co	WEC	D-5-UR-104 (WEP-EL)	Electric	Vertically Integrated	3/13/2009	126	6	9	53	10	75	52	97	3,229	67
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-117 (elec)	Electric	Vertically Integrated	5/8/2009	98	9	11	03	10	60	53	42	1,404	85
Washington	Avista Corp	AVA	D-UE-090134	Electric	Vertically Integrated	1/23/2009	37	5	8	25	10	20	46	50	1,012	90
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-116 (elec)	Electric	Vertically Integrated	4/29/2009	16	0	9	26	10	80	56	05	412	12
Wisconsin	Northern States Power Co	XEL	D-4220-UR-116 (elec)	Electric	Vertically Integrated	6/1/2009	30	4	9	22	10	75	53	12	644	03
Maryland	Delmarva Power & Light Co	EXC	C-9192	Electric	Distribution	5/6/2009	14	1	8	58	11	25	49	37	310	37
Iowa	Interstate Power & Light Co	LNT	D-RPU-2009-0002	Electric	Vertically Integrated	3/17/2009	146	7	9	23	11	54	49	50	1,850	84
Michigan	DTE Electric Co	DTE	C-U-15788	Electric	Vertically Integrated	1/26/2009	377	7	7	26	11	50	39	48	9,305	00
Oregon	PacificCorp	BRK A	D-UE-210	Electric	Vertically Integrated	4/2/2009	92	1	8	55	11	00	51	20	2,958	31
Kansas	Evergy Kansas Central Inc	EVRG	D-09-WISEE-925-RTS (WR)	Electric	Vertically Integrated	8/2/2009	9	7	8	49	10	40	50	13	35	39
Kansas	Evergy Kansas South	EVRG	D-09-WISEE-925-RTS (KG&E)	Electric	Vertically Integrated	6/2/2009	10	0	8	49	10	40	50	13	35	39
South Carolina	Duke Energy Carolinas LLC	DUK	D-2009-226-E	Electric	Vertically Integrated	7/27/2009	132	9	8	83	11	50	53	00	3,285	00
Rhode Island	Narragansett Electric Co	NG	D-4065	Electric	Distribution	6/1/2009	67	6	8	88	11	60	50	05	580	00
Utah	PacificCorp	BRK A	D-09-035-23	Electric	Vertically Integrated	6/23/2009	67	2	8	54	11	00	51	00	4,627	29
Oregon	Idaho Power Co	IDA	D-UE-213	Electric	Vertically Integrated	7/31/2009	7	3	8	88	11	25	49	80	110	80
District of Columbia	Potomac Electric Power Co	EXC	F C 1076	Electric	Distribution	5/22/2009	44	5	8	53	10	75	46	18	1,020	10
Virginia	Kentucky Utilities Co	PPL	C-PUE-2009-00029	Electric	Vertically Integrated	6/3/2009	12	2	8	59	12	00	53	26	155	60
Florida	Duke Energy Florida LLC	DUK	D-090079-EI	Electric	Vertically Integrated	3/20/2009	500	0	9	21	12	54	50	62	6,238	62
Virginia	Virginia Electric & Power Co	D	C-PUE-2009-00019	Electric	Vertically Integrated	3/31/2009	250	2	9	74	14	00	47	71	8,754	95
Florida	Florida Power & Light Co	NEE	D-080677-EI	Electric	Vertically Integrated	3/18/2009	1,043	5	8	00	12	50	47	93	17,063	59
New York	Consolidated Edison Co of NY	ED	C-09-E-0428	Electric	Distribution	5/8/2009	853	0	8	29	10	90	48	00	15,107	00
Washington	Puget Sound Energy Inc		D-UE-090704	Electric	Vertically Integrated	5/8/2009	110	3	8	50	10	80	48	00	3,805	68
Wyoming	MDU Resources Group	MDU	D-20004-81-ER-09	Electric	Vertically Integrated	8/14/2009	5	1	9	62	12	75	49	77	71	78
Illinois	Ameren Illinois	AEE	D-09-0306 (CILCO)	Electric	Distribution	6/5/2009	17	1	9	62	11	70	43	62	329	28
Illinois	Ameren Illinois	AEE	D-09-0307 (CIPS)	Electric	Distribution	6/5/2009	38	0	8	88	11	30	48	67	537	24
Illinois	Ameren Illinois	AEE	D-09-0308 (IP)	Electric	Distribution	6/5/2009	59	9	7	74	11	70	44	00	1,468	76
New Jersey	Atlantic City Electric Co	EXC	D-ER-09080684	Electric	Distribution	8/14/2009	45	8	9	13	11	50	47	62	808	80
New Jersey	Rockland Electric Company	ED	D-ER-09080688	Electric	Distribution	8/17/2009	13	7	8	57	11	00	49	85	149	53
Missouri	Union Electric Co	AEE	C-ER-2010-0036	Electric	Vertically Integrated	7/24/2009	286	9	8	42	10	80	51	26	6,000	00
Arkansas	Entergy Arkansas LLC	ETR	D-09-084-U	Electric	Vertically Integrated	9/4/2009	188	6	5	73	10	65	NA	4,017	95	
New Jersey	Public Service Electric Gas	PEG	D-GR09050422 (EL)	Electric	Distribution	5/29/2009	139	8	7	89	11	25	51	20	3,800	00
New York	Central Hudson Gas & Electric	FTS	C-09-E-0588	Electric	Distribution	7/31/2009	26	3	7	44	10	00	48	00	694	12
New Hampshire	Public Service Co of NH	ES	D-DE-09-035	Electric	Distribution	6/30/2009	67	6	7	92	10	50	51	08	777	57
Kentucky	Kentucky Power Co	AEP	C-2009-00459	Electric	Vertically Integrated	12/29/2009	123	6	8	52	11	75	42	91	1,012	69
Connecticut	The CT Light & Power Co	ES	D-09-12-05	Electric	Distribution	1/8/2010	177	6	8	23	10	60	49	20	2,778	61
Michigan	Wisconsin Electric Power Co	WEC	C-U-15981	Electric	Vertically Integrated	7/2/2009	36	5	7	27	10	75	47	61	330	59
Virginia	Appalachian Power Co	AEP	C-PUE-2009-00030	Electric	Vertically Integrated	7/15/2009	167	2	9	03	13	35	41	61	2,172	89
South Carolina	Dominion Energy South Carolina	D	D-2009-489-E	Electric	Vertically Integrated	1/15/2010	197	6	9	03	11	60	52	96	4,821	00
Hawaii	Mau Electric Company Ltd	HE	D-2006-0387	Electric	Vertically Integrated	2/23/2007	18	3	8	88	11	25	54	89	386	00
Colorado	Black Hills Colorado Electric	BKH	D-10AL-009E	Electric	Vertically Integrated	1/5/2010	23	0	10	00	11	80	52	00	136	00
Maryland	Potomac Electric Power Co	EXC	C-9217	Electric	Distribution	12/30/2009	28	2	8	63	10	75	48	87	924	12
Indiana	Northern IN Public Svc Co	NI	Ca-43526	Electric	Vertically Integrated	8/29/2008	26	3	8	36	12	00	49	95	2,639	19
California	PacificCorp	BRK A	A-09-11-015	Electric	Vertically Integrated	11/20/2009	8	4	8	59	11	00	54	41	274	80
Hawaii	Hawaiian Electric Co	HE	D-2008-0398	Electric	Vertically Integrated	12/22/2008	96	6	8	82	11	25	55	10	1,214	00
New York	NY State Electric & Gas Corp	IBE	C-09-E-0715	Electric	Distribution	9/17/2009	180	6	8	11	14	40	48	00	1,589	01
New York	Rochester Gas & Electric Co	IBE	C-09-E-0717	Electric	Distribution	9/17/2009	92	1	9	41	11	43	48	00	968	54
Arizona	UNS Electric Inc	FTS	D-E-04204A-09-0206	Electric	Vertically Integrated	4/30/2009	13	5	9	04	11	40	45	76	175	82
Michigan	Indiana Michigan Power Co	AEP	C-U-16180	Electric	Vertically Integrated	1/27/2010	62	5	8	16	11	75	44	19	600	94
Hawaii	Hawaii Electric Light Co	HE	D-2005-0315	Electric	Vertically Integrated	5/5/2008	29	9	8	65	11	25	50	83	369	14
Minnesota	Minnesota Power Entprns Inc	ALE	D-E-015/GR-09-1151	Electric	Vertically Integrated	11/2/2009	74	5	8	18	10	38	54	29	1,043	47
Michigan	Consumers Energy Co	CMS	C-U-16191	Electric	Vertically Integrated	1/22/2010	150	0	7	16	11	00	41	49	6,970	00
Washington	Avista Corp	AVA	D-UE-100467	Electric	Vertically Integrated	3/23/2010	55	3	8	33	10	90	48	39	1,075	67
Kansas	Evergy Metro Inc	EVRG	D-10-KCPE-415-RTS	Electric	Vertically Integrated	12/17/2009	50	9	8	93	10	75	46	17	1,784	30
Texas	Entergy Texas Inc	ETR	D-37744	Electric	Vertically Integrated	12/30/2009	198	7	9	82	11	50	51	94	1,561	00
Maryland	Baltimore Gas and Electric Co	EXC	C-9230 (elec)	Electric	Distribution	5/7/2010	92	3	8	99	11	65	51	93	2,291	47
Montana	NorthWestern Corp	NWE	D-D2009 9 129 (elec)	Electric	Distribution	10/16/2009	13	6	8	30	10	90	49	45	632	39
North Carolina	Virginia Electric & Power Co	D	D-E-22, Sub 459	Electric	Vertically Integrated	2/15/2010	29	1	8	98	11	90	53	09	679	34
Oregon	PacificCorp	BRK A	D-UE-217	Electric	Vertically Integrated	3/1/2010	130	9	8	38	10	60	53	30	3,315	96
Iowa	Interstate Power & Light Co	LNT	D-RPU-2010-0001	Electric	Vertically Integrated	3/10/2010	149	9	8	67	10	85	51	30	2,452	18
Oregon	Portland General Electric Co	POR	D-UE 215	Electric	Vertically Integrated	2/16/2010	157	8	8	29	10	50	50	00	3,243	60
Nevada	Sierra Pacific Power Co	BRK A	D-10-06001	Electric	Vertically Integrated	6/1/2010	29	3	8	35	11	20	44	11	1,595	77
Michigan	Upper Peninsula Power Co	BRK A	C-U-16168	Electric	Vertically Integrated	6/30/2010	15	4	7	93	11	25	56	42	1,687	07
Idaho	PacificCorp	BRK A	C-PAC-E-10-07	Electric	Vertically Integrated	5/28/2010	24	9	3	34	10	60	52	10	650	60
Georgia	Georgia Power Co	SO	D-31958	Electric	Vertically Integrated	7/1/2010	615	0	8	76	11	95	50	40	14,568	00
Oklahoma	Public Service Co of OK	AEP	C-PUD201000050	Electric	Vertically Integrated	7/9/2010	82	3	7	89	11	50	45	84	1,891	25
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-117 (elec)	Electric	Vertically Integrated	4/22/2010	32	8	9	17	10	40	57	27	431	39
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-120 (elec)	Electric	Vertically Integrated	4/1/2010	64	2	8	67	11	25	53	62	1,296	03
Delaware	Delmarva Power & Light Co	EXC	D-09-414	Electric	Distribution	9/18/2009	24	2	7	97	10	75	47	52	461	30
New York	Niagara Mohawk Power Corp	NG	C-10-E-0050	Electric	Distribution	1/29/2010	361	2	7	85	10	85	50	01	4,019	30
Texas	Texas-New Mexico Power Co	PNM	D-38480	Electric	Distribution	8/26/2010	16	3	10	65	11	50	50	00	332	19
Massachusetts	Western Massachusetts Electric	ES	DPU 10-70	Electric	Distribution	7/16/2010	28	4	11	10	50	50	50	70	381	60
Texas	CenterPoint Energy Houston	CNP	D-38339	Electric	Distribution	6/30/2010										

South Carolina	Duke Energy Carolinas LLC	DUK	D-2011-271-E	Electric	Vertically Integrated	8/5/2011	215.5	8.63	11.50	53.00	4,094.85
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, Sub 989	Electric	Vertically Integrated	7/1/2011	525.0	8.51	11.25	53.00	11,125.01
Michigan	Indiana Michigan Power Co	AEP	C-U-16801	Electric	Vertically Integrated	7/1/2011	27.4	7.38	11.15	43.08	684.74
Oregon	Idaho Power Co	IDA	D-UE-233	Electric	Vertically Integrated	7/29/2011	5.8	8.17	10.50	51.18	121.85
Florida	Gulf Power Co	NEE	D-110138-EI	Electric	Vertically Integrated	7/8/2011	101.6	7.05	11.70	38.50	1,734.75
North Dakota	Northern States Power Co	XEL	C-PU-10-657	Electric	Vertically Integrated	12/20/2010	20.4	8.74	11.25	52.56	327.43
Minnesota	Northern States Power Co	XEL	D-E-002/GR-10-971	Electric	Vertically Integrated	11/3/2010	150.6	8.57	10.85	52.56	5,682.94
Hawaii	Hawaii Electric Light Co	HE	D-2009-0164	Electric	Vertically Integrated	12/9/2009	20.9	8.73	10.75	55.91	486.73
Colorado	Public Service Co of CO	XEL	D-11AL-947E	Electric	Vertically Integrated	11/22/2011	281.0	8.50	10.75	56.00	5,431.22
Hawaii	Mau Electric Company Ltd	HE	D-2009-0163	Electric	Vertically Integrated	8/30/2009	28.2	8.57	10.75	56.86	389.96
Washington	Puget Sound Energy Inc	D	D-UE-111048	Electric	Vertically Integrated	6/13/2011	125.4	8.26	10.75	49.00	4,896.73
Arizona	Arizona Public Service Co	PNW	D-E-01345A-11-0224	Electric	Vertically Integrated	6/1/2011	95.5	8.87	11.00	53.90	5,720.28
Illinois	Commonwealth Edison Co	EXC	D-11-0721	Electric	Distribution	11/8/2011	(59.1)	8.11	10.05	45.56	6,601.00
Michigan	Consumers Energy Co	CMS	C-U-16794	Electric	Vertically Integrated	6/10/2011	180.9	8.66	10.70	42.07	7,653.80
New York	Orange & Rockland Utts Inc	ED	C-11-E-0408	Electric	Distribution	7/29/2011	31.4	8.33	10.80	49.37	672.78
Wisconsin	Wisconsin Power and Light Co	LNT	D-6890-UR-118 (elec)	Electric	Vertically Integrated	5/3/2012	0.0	NA	10.40	49.31	2,104.54
Wyoming	Cheyenne Light Fuel Power Co	BKH	D-20003-114-ER-11 (elec)	Electric	Vertically Integrated	12/1/2011	4.6	8.47	10.50	54.00	243.56
South Dakota	Northern States Power Co	XEL	D-EL11-019	Electric	Vertically Integrated	6/30/2011	11.9	8.52	10.65	52.90	318.89
Michigan	Wisconsin Electric Power Co	WEC	C-U-16830	Electric	Vertically Integrated	7/5/2011	12.6	6.54	10.40	43.92	354.89
Hawaii	Hawaiian Electric Co	HE	D-2010-0080	Electric	Vertically Integrated	7/30/2010	93.8	8.54	10.75	56.29	1,569.47
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD201100087	Electric	Vertically Integrated	7/28/2011	73.3	8.75	11.00	53.07	3,351.85
Wyoming	PacificCorp	BRK A	D-20000-405-ER-11	Electric	Vertically Integrated	12/9/2011	56.6	7.88	10.20	52.10	1,836.62
Maryland	Potomac Electric Power Co	EXC	C-9286	Electric	Distribution	12/16/2011	66.2	8.68	10.75	50.13	1,018.94
Maryland	Delmarva Power & Light Co	EXC	C-9285	Electric	Distribution	12/9/2011	23.5	8.03	10.75	50.06	400.02
Texas	Entergy Texas Inc	ETR	D-39896	Electric	Vertically Integrated	11/28/2011	104.8	8.67	10.60	49.92	1,714.11
Utah	PacificCorp	BRK A	D-11-035-200	Electric	Vertically Integrated	2/15/2012	155.7	7.91	10.20	52.10	5,758.75
Illinois	Ameren Illinois	AEE	D-12-0001	Electric	Distribution	1/3/2012	(20.0)	8.02	10.05	54.28	2,184.75
District of Columbia	Potomac Electric Power Co	EXC	FC-1087	Electric	Distribution	7/8/2011	35.7	8.64	10.75	49.23	1,155.80
Texas	Lone Star Transmission LLC	NEE	D-40020	Electric	Transmission	1/8/2012	28.8	8.65	11.00	52.00	53.51
New Jersey	Atlantic City Electric Co	EXC	D-ER-11080469	Electric	Distribution	8/5/2011	90.3	8.58	10.75	48.86	987.11
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-121 (Elec)	Electric	Vertically Integrated	3/30/2012	85.1	8.93	10.30	52.34	1,183.63
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-118 (elec)	Electric	Vertically Integrated	3/23/2012	22.5	9.53	10.30	59.65	414.81
Wisconsin	Wisconsin Electric Power Co	WEC	D-05-UR-106 (WEP-Elec)	Electric	Vertically Integrated	3/23/2012	262.0	9.26	10.40	52.35	3,963.96
Delaware	Delmarva Power & Light Co	EXC	D-11-528	Electric	Distribution	12/2/2011	34.9	7.87	10.75	49.61	590.00
California	Liberty Utilities (CalPeco Ele	AON	A-12-02-014	Electric	Vertically Integrated	2/17/2012	16.2	8.24	10.50	54.99	120.88
Illinois	Ameren Illinois	AEE	D-12-0293	Electric	Distribution	4/20/2012	19.6	8.76	9.71	54.85	2,034.48
Pennsylvania	PPL Electric Utilities Corp	PPL	D-R-2012-2290597	Electric	Distribution	3/30/2012	104.6	8.42	11.25	50.78	2,420.96
Missouri	Union Electric Co	AEE	C-ER-2012-0166	Electric	Vertically Integrated	2/3/2012	322.9	8.28	10.50	52.30	6,913.02
Kansas	Evergy Metro Inc	EVRG	D-12-KCPE-764-RTS	Electric	Vertically Integrated	4/20/2012	63.6	8.57	10.40	51.82	1,820.79
Florida	Florida Power & Light Co	NEE	D-120015-EI	Electric	Vertically Integrated	3/19/2012	690.4	7.00	11.50	46.03	21,858.15
Wisconsin	Northern States Power Co	XEL	D-4220-UR-118 (elec)	Electric	Vertically Integrated	6/1/2012	39.1	8.67	10.40	52.39	788.60
Illinois	Commonwealth Edison Co	EXC	D-12-0321	Electric	Distribution	4/30/2012	91.0	7.54	9.71	42.55	6,367.00
South Carolina	Dominion Energy South Carolina	D	D-2012-218-E	Electric	Vertically Integrated	6/29/2012	151.5	8.56	10.95	52.18	4,869.14
Rhode Island	Narragansett Electric Co	NG	D-4323 (elec)	Electric	Distribution	4/27/2012	31.4	7.85	10.75	49.80	575.08
Oregon	PacificCorp	BRK A	D-UE-246	Electric	Vertically Integrated	3/1/2012	38.4	7.92	10.20	52.80	3,253.96
Kentucky	Kentucky Utilities Co	PPL	C-2012-00221	Electric	Vertically Integrated	6/29/2012	82.4	7.62	11.00	53.70	3,294.69
Kentucky	Louisville Gas & Electric Co	PPL	C-2012-00222 (elec)	Electric	Vertically Integrated	6/29/2012	82.1	7.80	11.00	55.64	1,986.16
California	San Diego Gas & Electric Co	SRE	Ap-12-04-018 (Elec)	Electric	Vertically Integrated	4/20/2012	(6.9)	8.20	11.00	52.00	NA
California	Pacific Gas and Electric Co	PG&E	Ap-12-04-018 (Elec)	Electric	Vertically Integrated	4/20/2012	(75.0)	8.45	11.00	52.00	NA
California	Southern California Edison Co	EIX	Ap-12-04-015	Electric	Vertically Integrated	4/20/2012	(128.0)	8.24	11.10	48.00	NA
North Carolina	Virginia Electric & Power Co	D	D-E-22, Sub 479	Electric	Vertically Integrated	3/30/2012	53.4	8.53	11.25	54.23	777.92
Washington	Avista Corp	AVA	D-UE-120436	Electric	Vertically Integrated	4/2/2012	41.0	8.25	10.90	48.40	1,222.63
Missouri	Evergy Metro Inc	EVRG	C-ER-2012-0174	Electric	Vertically Integrated	2/27/2012	78.5	8.45	10.30	52.56	2,052.56
Missouri	Evergy Missour West	EVRG	C-ER-2012-0175 (MPS)	Electric	Vertically Integrated	2/27/2012	44.9	8.45	10.30	52.56	1,410.00
Missouri	Evergy Missour West	EVRG	C-ER-2012-0175 (L&P)	Electric	Vertically Integrated	2/27/2012	24.3	8.45	10.30	52.56	465.80
Texas	Cross Texas Transmission	D	D-40604	Electric	Transmission	8/24/2012	49.7	7.87	11.00	45.00	262.90
Texas	Wind Energy Transmission Texas	D	D-40606	Electric	Transmission	8/28/2012	49.7	7.73	10.90	40.00	289.45
Indiana	Indiana Michigan Power Co	AEP	Ca-44075	Electric	Vertically Integrated	9/23/2011	170.1	7.38	11.15	42.87	2,391.63
Maryland	Baltimore Gas and Electric Co	EXC	C-9299 (elec)	Electric	Distribution	7/27/2012	130.1	7.96	10.50	48.40	2,710.25
Louisiana	Southwestern Electric Power Co	AEP	C-U-32220	Electric	Vertically Integrated	7/20/2012	NA	NA	10.57	NA	NA
New York	Niagara Mohawk Power Corp	AEP	C-12-E-0201	Electric	Distribution	4/27/2012	145.4	7.38	10.55	51.36	4,104.20
Idaho	Avista Corp	AVA	C-AVUE-12-08	Electric	Vertically Integrated	10/10/2012	11.4	8.46	10.90	50.00	639.03
Ohio	Duke Energy Ohio Inc	DUK	D-12-1682-EL-AIR	Electric	Distribution	7/9/2012	96.6	8.13	10.60	53.30	1,116.87
Michigan	Consumers Energy Co	CMS	C-U-17087	Electric	Vertically Integrated	9/19/2012	144.9	6.51	10.50	41.19	8,203.20
North Carolina	Duke Energy Progress LLC	DUK	D-E-2, Sub 1023	Electric	Vertically Integrated	10/12/2012	386.8	8.27	11.25	55.39	6,928.06
Hawaii	Mau Electric Company Ltd	HE	D-2011-0092	Electric	Vertically Integrated	7/22/2011	27.5	8.72	11.00	56.85	393.27
Arizona	Tucson Electric Power Co	FTS	D-E-01833A-12-0291	Electric	Vertically Integrated	7/2/2012	127.8	7.74	10.75	46.00	1,519.07
New Jersey	Atlantic City Electric Co	EXC	D-ER-12121071	Electric	Distribution	12/11/2012	70.4	8.29	10.25	48.70	1,198.86
Washington	Puget Sound Energy Inc	D	D-UE-130137	Electric	Vertically Integrated	2/1/2013	31.9	7.80	9.80	48.00	2,621.99
Maryland	Potomac Electric Power Co	EXC	C-9311	Electric	Distribution	11/30/2012	66.4	8.06	10.25	48.89	1,342.78
Minnesota	Northern States Power Co	XEL	D-E-002/GR-12-961	Electric	Vertically Integrated	11/2/2012	208.9	7.85	10.60	52.56	6,269.42
Connecticut	The United Illuminatio Co	IBE	D-13-01-19	Electric	Distribution	2/15/2013	90.6	7.76	10.25	50.00	952.20
South Carolina	Duke Energy Carolinas LLC	DUK	D-2013-59-E	Electric	Vertically Integrated	3/18/2013	220.1	8.45	11.25	53.00	4,313.86
Florida	Tampa Electric Co	EMA	D-130040-EI	Electric	Vertically Integrated	4/5/2013	134.8	6.74	11.25	42.26	4,339.97
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, Sub 1026	Electric	Vertically Integrated	24/2013	446.1	8.45	11.25	53.00	11,951.33
Texas	Southwestern Electric Power Co	AEP	D-40443	Electric	Vertically Integrated	7/27/2012	83.1	8.55	11.25	49.10	1,199.33
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-122 (Elec)	Electric	Vertically Integrated	3/29/2013	60.2	9.06	10.60	51.11	1,463.00
Kansas	Evergy Kansas Central Inc	EVRG	D-13-WSEE-629-RTS	Electric	Vertically Integrated	4/15/2013	31.7	8.40	10.00	52.63	4,091.79
Virginia	Electric & Power Co	D	C-PUJ-13-00020	Electric	Vertically Integrated	3/28/2013	0.0	NA	11.50	NA	NA
Florida	Gulf Power Co	NEE	D-130140-EI	Electric	Vertically Integrated	7/12/2013	74.4	6.47	11.50	37.98	1,894.00
Washington	PacificCorp	BRK A	D-UE-130043	Electric	Vertically Integrated	1/11/2013	36.9	7.75	10.00	52.22	824.38
Wisconsin	Northern States Power Co	XEL	D-4220-UR-119 (Elec)	Electric	Vertically Integrated	5/31/2013	34.3	8.39	10.40	52.54	895.30
Illinois	Ameren Illinois	AEE	D-13-0301	Electric	Distribution	4/19/2013	(38.9)	8.11	8.72	54.33	2,043.09
Oregon	Portland General Electric Co	POR	D-UE-262	Electric	Vertically Integrated	2/15/2013	104.8	7.86	10.00	50.00	3,126.15
Maryland	Baltimore Gas and Electric Co	EXC	C-9326 (elec)	Electric	Distribution	5/17/2013	82.8	7.87	10.50	51.05	2,818.77
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-32707	Electric	Vertically Integrated	2/15/2013	24.5	8.18	10.40	51.72	2,666.18
Louisiana	Entergy Louisiana LLC	ETR	D-U-32708	Electric	Vertically Integrated	2/15/2013	144.0	8.19	10.40	52.80	4,475.07
Nevada	Sierra Pacific Power Co	BRK A	D-13-06002	Electric	Vertically Integrated	6/3/2013	(4.7)	8.19	10.70	46.94	1,536.23
Arizona	UNS Electric Inc	FTS	D-E-04204A-12-0504	Electric	Vertically Integrated	12/31/2012	7.5	8.35	10.50	52.60	216.60
Georgia	Georgia Power Co	SO	D-36989	Electric	Vertically Integrated	6/28/2013	482.0	7.93	11.50	50.60	15,697.00
Illinois	Commonwealth Edison Co	EXC	D-13-0318	Electric	Distribution	4/29/2013	336.7	6.94	8.72	45.28	6,702.42
Oregon	PacificCorp	BRK A	D-UE-263	Electric	Vertically Integrated	3/1/2013	56.0	7.66	9.80	52.10	3,384.54
Michigan	Upper Peninsula Power Co	D	C-U-17274	Electric	Vertically Integrated	6/28/2013	7.9	5.86	10.75	40.30	217.51
Arkansas	Entergy Arkansas LLC	ETR	D-13-028-U	Electric	Vertically Integrated	3/1/2013	145.3	4.73	10.40	28.84	4,840.18
New York	Consolidated Edison Co of NY	ED	C-13-E-0030	Electric	Distribution	1/25/2013	425.0	7.57	10.10	50.06	17,580.35
North Dakota	Northern States Power Co	XEL	C-PU-12-613	Electric	Vertically Integrated	12/19/2012	14.9	7.72	10.25	52.56	375.81
New Hampshire	Liberty Utilities Granite St	AON	D-DE-13-063	Electric	Distribution	3/29/2013	13.0	8.46	10.50	55.00	68.29
District of Columbia	Potomac Electric Power Co	EXC	FC-1103-2013-E	Electric	Distribution	3/8/2013	44.8	8.07	10.25	49.19	1,365.60
New Mexico	Southwestern Public Service Co	XEL	C-12-00350-UT	Electric	Vertically Integrated	12/12/2012	21.0	8.41	10.25	53.89	469.41
Delaware	Delmarva Power & Light Co	EXC	D-13-115	Electric	Distribution	3/22/2013	39.0	7.53	10.25	49.22	745.60
Texas	Entergy Texas Inc	ETR	D-41791	Electric	Vertically Integrated	9/25/2013	38.6	8.51	10.40	48.59	1,633.82
Massachusetts	Fitchburg Gas & Electric Light	UTL	DPU 13-90	Electric	Distribution	7/15/2013	6.9	8.55	10.25	47.78	52.00
Wisconsin	Wisconsin Power and Light Co	LNT	D-6880-UR-119 (Elec)	Electric	Vertically Integrated	4/8/2014	0.0	NA	10.40	50.46	2,329.11
Maine	Versant Power	D	D-2013								

Illinois	Ameren Illinois	AEE	D-14-0317	Electric	Distribution	4/17/2014	201.3	8.08	9.25	51.00	2,260.71
Illinois	Commonwealth Edison Co	EXC	D-14-0312	Electric	Distribution	4/16/2014	270.0	7.06	9.25	45.77	7,368.75
Mississippi	Entergy Mississippi LLC	ETR	D-2014-UN-0132	Electric	Vertically Integrated	6/10/2014	204.5	7.81	10.59	NA	2,022.49
Wisconsin	Northern States Power Co	XEL	D-4220-UR-120 (Elec)	Electric	Vertically Integrated	5/30/2014	20.6	NA	10.20	52.54	NA
Connecticut	The CT Light & Power Co	ES	D-14-05-06	Electric	Distribution	6/9/2014	221.1	7.84	10.20	50.38	3,406.47
Colorado	Black Hills Colorado Electric	BKH	D-14AL-0393E	Electric	Vertically Integrated	4/30/2014	13.2	7.83	10.30	50.54	457.78
Wyoming	PacificCorp	BRK A	D-20000-446-ER-14	Electric	Vertically Integrated	3/3/2014	32.6	7.67	10.00	51.43	2,072.88
Colorado	Public Service Co of CO	XEL	D-14AL-0680E	Electric	Vertically Integrated	6/17/2014	28.5	7.79	10.25	56.00	6,388.20
New Jersey	Jersev Cntrl Power & Light Co	FE	D-ER-12111052	Electric	Distribution	11/30/2012	11.0	8.66	11.00	53.80	2,024.17
Washington	PacificCorp	BRK A	D-UJE-140782	Electric	Vertically Integrated	5/1/2014	30.4	7.67	10.00	51.73	829.00
Minnesota	Northern States Power Co	XEL	D-E-2/GR-13-868	Electric	Vertically Integrated	11/4/2013	248.1	7.65	10.25	52.50	7,042.00
Michigan	Wisconsin Public Service Corp	WEC	C-U-17689	Electric	Vertically Integrated	10/17/2014	5.7	6.21	10.60	40.82	61.25
Missouri	Union Electric Co	AEE	C-ER-2014-0258	Electric	Vertically Integrated	7/3/2014	181.2	8.05	10.40	51.78	6,976.39
Texas	Cross Texas Transmission		D-43950	Electric	Transmission	12/23/2014	33.2	6.95	10.58	45.00	446.72
West Virginia	Appalachian Power Co	AEP	C-14-1152-E-42T	Electric	Vertically Integrated	6/30/2014	226.1	7.79	10.62	47.16	3,992.89
New York	Central Hudson Gas & Electric	FTS	C-14-E-0318	Electric	Distribution	7/25/2014	40.1	6.82	9.00	48.00	850.81
New York	Consolidated Edison Co of NY	ED	C-15-E-0050/C-13-E-0030 (Ext)	Electric	Distribution	1/30/2015	368.1	7.35	10.00	48.00	18,134.00
Missouri	Evergy Metro Inc	EVRG	C-ER-2014-0370	Electric	Vertically Integrated	10/30/2014	112.7	7.93	10.30	50.09	2,584.14
Kansas	Evergy Metro Inc	EVRG	D-15-KCPE-116-RTS	Electric	Vertically Integrated	1/2/2015	56.3	7.94	10.30	50.48	2,087.48
Texas	Wind Energy Transmission Texas		D-44746	Electric	Transmission	5/28/2015	80.5	6.82	10.25	45.00	847.33
New York	Orange & Rockland Utils Inc	ED	C-14-E-0493	Electric	Distribution	11/14/2014	33.9	7.51	9.75	48.00	821.55
Wisconsin	Wisconsin Public Service Corp	WEC	D-8690-UR-124 (Elec)	Electric	Vertically Integrated	4/17/2015	96.9	8.27	10.20	50.52	1,840.57
Michigan	Consumers Energy Co	CMS	C-U-17735	Electric	Vertically Integrated	12/5/2014	198.6	6.38	10.70	41.50	9,247.69
Wisconsin	Northern States Power Co	XEL	D-4220-UR-121 (Elec)	Electric	Vertically Integrated	5/29/2015	27.4	8.07	10.20	52.59	1,188.89
Illinois	Ameren Illinois	AEE	D-15-0305	Electric	Distribution	4/24/2015	95.5	7.65	9.14	50.00	2,489.88
Illinois	Commonwealth Edison Co	EXC	D-15-0287	Electric	Distribution	4/15/2015	(53.8)	7.05	9.14	46.25	8,277.12
Michigan	DTE Electric Co	DTE	C-U-17767	Electric	Vertically Integrated	12/19/2014	348.7	5.87	10.75	38.03	13,549.15
Oregon	Portland General Electric Co	POR	D-UJE-2694	Electric	Vertically Integrated	2/12/2015	122.3	7.67	9.90	50.00	4,470.48
Texas	Southwestern Public Service Co	XEL	D-43695	Electric	Vertically Integrated	12/8/2014	42.1	8.28	10.25	53.97	1,538.38
Idaho	Avista Corp	AVA	C-AVU-E-15-05	Electric	Vertically Integrated	6/1/2015	26.9	7.62	9.90	50.00	766.97
Wyoming	PacificCorp	BRK A	D-20000-469-ER-15	Electric	Vertically Integrated	3/2/2015	26.9	7.60	9.85	51.44	2,120.36
Washington	Avista Corp	AVA	D-UJE-150204	Electric	Vertically Integrated	2/9/2015	33.2	7.48	9.90	48.00	1,464.30
Arkansas	Entergy Arkansas LLC	ETR	D-15-015-U	Electric	Vertically Integrated	4/24/2015	268.5	4.86	10.20	30.16	5,928.76
Indiana	AES Indiana	AES	Ca-44576	Electric	Vertically Integrated	12/29/2014	65.6	6.91	10.93	37.33	1,964.99
Massachusetts	Fitchburg Gas & Electric Light	UTL	DPU-15-80	Electric	Distribution	6/16/2015	3.8	8.72	10.25	52.92	67.25
Maryland	Baltimore Gas and Electric Co	EXC	C-9406 (elec)	Electric	Distribution	11/6/2015	115.6	7.95	10.60	53.70	3,003.09
New Mexico	El Paso Electric Co		C-15-00127-UT	Electric	Vertically Integrated	5/11/2015	6.4	7.90	9.95	49.29	435.96
New York	NY State Electric & Gas Corp	IBE	C-15-E-0283	Electric	Distribution	5/20/2015	123.8	7.32	10.06	50.00	1,797.60
New York	Rochester Gas & Electric Co	IBE	C-15-E-0285	Electric	Distribution	5/20/2015	42.5	8.15	10.06	50.00	1,240.69
Indiana	Northern IN Public Svc Co	NI	Ca-44688	Electric	Vertically Integrated	10/1/2015	119.5	6.78	10.75	45.20	3,437.72
Tennessee	Kinross Power Company	AEP	D-16-00001	Electric	Vertically Integrated	14/2016	12.1	6.69	10.66	42.43	71.50
Arizona	UNS Electric Inc	FTS	D-E-04204A-15-0142	Electric	Vertically Integrated	5/5/2015	15.1	7.22	9.50	52.83	270.29
New Jersey	Atlantic City Electric Co	EXC	D-ER-16030252	Electric	Distribution	3/22/2016	79.4	8.06	10.80	49.48	1,300.00
Washington	PacificCorp	BRK A	D-UJE-152253	Electric	Vertically Integrated	11/25/2015	20.3	7.30	9.50	49.10	874.15
Michigan	Upper Peninsula Power Co	D	C-U-17895	Electric	Vertically Integrated	9/18/2015	8.5	7.87	10.75	54.13	243.55
New Mexico	Public Service Co of NM	PNM	D-15-00261-UT	Electric	Vertically Integrated	8/27/2015	123.5	8.17	10.50	49.61	2,459.09
Massachusetts	Massachusetts Electric Co	NG	DPU-15-155	Electric	Distribution	11/6/2015	201.9	8.13	10.50	51.98	1,799.53
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-121 (Elec)	Electric	Vertically Integrated	4/8/2016	6.9	8.32	10.20	58.06	573.37
Oklahoma	Public Service Co of OK	AEP	Ca-PUD201500208	Electric	Vertically Integrated	7/1/2015	84.4	7.60	10.50	48.00	2,062.16
Maryland	Potomac Electric Power Co	EXC	C-9418	Electric	Distribution	4/19/2016	102.8	8.01	10.60	49.55	1,728.57
Wisconsin	Wisconsin Power and Light Co	LNT	D-6880-UR-120 (Elec)	Electric	Vertically Integrated	5/20/2016	12.9	7.91	10.00	52.20	2,851.38
Florida	Florida Power & Light Co	NEE	D-160021-EI	Electric	Vertically Integrated	3/15/2016	1,304.6	6.70	11.50	45.35	33,893.50
California	Liberty Utilities (CalPeco Ele	AON	A-15-05-008	Electric	Vertically Integrated	5/1/2015	11.4	7.92	10.50	55.00	150.93
Illinois	Ameren Illinois	AEE	D-16-0262	Electric	Distribution	4/15/2016	(8.7)	7.28	8.64	50.00	2,556.58
Illinois	Commonwealth Edison Co	EXC	D-16-0259	Electric	Distribution	4/13/2016	135.7	6.71	8.64	45.62	8,931.12
South Carolina	Duke Energy Progress LLC	DUK	D-2016-227-E	Electric	Vertically Integrated	7/1/2016	79.0	7.55	10.75	53.00	1,318.99
New Jersey	Jersev Cntrl Power & Light Co	FE	D-ER-16040393	Electric	Distribution	4/28/2016	142.1	8.69	11.20	54.00	2,229.13
Connecticut	The United Illuminating Co	IBE	D-16-06-04	Electric	Distribution	7/1/2016	98.3	7.58	9.92	52.00	1,032.64
Maine	Versant Power		D-2015-00360	Electric	Distribution	3/21/2016	7.2	7.72	10.25	49.00	262.81
Colorado	Black Hills Colorado Electric	BKH	D-16AL-0326E	Electric	Vertically Integrated	5/3/2016	14.4	7.56	9.83	50.92	510.73
Nevada	Sierra Pacific Power Co	BRK A	D-16-06006	Electric	Vertically Integrated	8/8/2016	21.6	6.97	10.26	48.03	1,652.55
North Carolina	Virginia Electric & Power Co	D	D-E-22, Sub 532	Electric	Vertically Integrated	3/31/2016	49.8	10.50	53.92	1,047.15	
Idaho	Avista Corp	AVA	C-AVU-E-16-03	Electric	Vertically Integrated	5/28/2016	15.4	7.78	9.90	50.00	754.64
Wyoming	MDU Resources Group	MDU	D-20004-117-ER-16	Electric	Vertically Integrated	6/10/2016	3.2	8.00	10.10	50.99	72.31
New York	Consolidated Edison Co of NY	ED	C-16-E-0060	Electric	Distribution	1/29/2016	479.6	7.31	9.75	48.00	18,926.57
Michigan	DTE Electric Co	DTE	C-U-18014	Electric	Vertically Integrated	2/1/2016	325.2	5.71	10.50	37.49	14,444.51
Maryland	Delmarva Power & Light Co	EXC	C-9424	Electric	Distribution	7/20/2016	57.0	7.24	10.60	49.10	726.80
New Jersey	Rockland Electric Company	ED	D-ER-16050428	Electric	Distribution	5/13/2016	8.8	7.79	10.20	49.81	190.12
Arizona	Tucson Electric Power Co	FTS	D-E-0183A-15-0322	Electric	Vertically Integrated	11/5/2015	109.5	7.34	10.35	50.03	2,104.68
Michigan	Consumers Energy Co	CMS	C-U-17990	Electric	Vertically Integrated	3/1/2016	208.2	6.18	10.70	40.75	10,187.09
Minnesota	Otter Tail Power Co	OTTR	D-E-017/GR-15-1033	Electric	Vertically Integrated	2/16/2016	14.6	7.85	10.05	52.50	482.36
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD201500273	Electric	Vertically Integrated	12/18/2015	149.5	8.09	10.25	53.31	4,152.33
Florida	Gulf Power Co	NEE	D-160186-EI	Electric	Vertically Integrated	10/12/2016	106.8	6.04	11.00	40.07	2,418.92
New Hampshire	Liberty Utilities Granite St	AON	D-DE-16-383	Electric	Distribution	4/29/2016	5.7	8.31	10.30	55.00	96.59
New Hampshire	Unitil Energy Systems Inc	UTL	D-DE-16-384	Electric	Distribution	4/29/2016	6.6	8.75	10.30	50.97	152.23
Missouri	Evergy Metro Inc	EVRG	C-ER-2016-0285	Electric	Vertically Integrated	7/1/2016	65.2	7.70	9.90	49.72	2,529.30
Minnesota	Northern States Power Co	XEL	D-E-002/GR-15-826	Electric	Vertically Integrated	11/2/2015	297.1	7.51	10.00	52.50	7,681.16
Arkansas	Oklahoma Gas and Electric Co	OGE	D-16-052-U	Electric	Vertically Integrated	9/25/2016	15.2	6.01	10.25	39.87	529.15
Delaware	MDU Resources Group	MDU	C-16-0648	Electric	Distribution	5/17/2016	60.7	7.19	10.60	49.44	838.88
North Dakota	MDU Resources Group	MDU	C-PU-16-666	Electric	Vertically Integrated	10/14/2016	14.1	7.46	10.00	50.23	541.77
Kentucky	Kentucky Utilities Co	PPL	C-2016-00370	Electric	Vertically Integrated	11/23/2016	103.1	7.29	10.23	53.28	3,638.80
Kentucky	Louisville Gas & Electric Co	PPL	C-2016-00371 (elec)	Electric	Vertically Integrated	11/23/2016	93.6	7.24	10.23	53.27	2,404.58
District of Columbia	Potomac Electric Power Co	EXC	FC-1139	Electric	Distribution	6/30/2016	77.5	8.00	10.60	49.14	1,714.83
Arizona	Arizona Public Service Co	PNW	D-E-01345A-16-0036	Electric	Vertically Integrated	6/1/2016	433.4	8.13	10.50	55.80	6,771.15
New Jersey	Atlantic City Electric Co	EXC	D-ER-17030308	Electric	Distribution	3/30/2017	84.6	7.85	10.10	50.47	1,405.44
Texas	Oncor Electric Delivery Co	SRE	D-46957	Electric	Distribution	3/17/2017	316.9	7.75	10.25	45.00	10,989.50
Maryland	Potomac Electric Power Co	EXC	C-9443	Electric	Distribution	3/24/2017	67.0	7.74	10.10	50.15	1,683.41
California	San Diego Gas & Electric Co	SRE	Advice No 3120-E	Electric	Vertically Integrated	9/29/2017	(13.1)	7.55	10.20	52.00	NA
California	Pacific Gas and Electric Co	PCG	Advice No 3887-G/5148-E	Electric	Vertically Integrated	9/29/2017	(120.0)	7.69	10.25	52.00	NA
California	Southern California Edison Co	EIX	Advice No 3665-E	Electric	Vertically Integrated	9/29/2017	(73.0)	7.61	10.30	48.00	NA
Florida	Tampa Electric Co	EMA	D-20170210-EI	Electric	Vertically Integrated	9/27/2017	0.0	NA	10.25	NA	NA
Alaska	Alaska Electric Light Power	AVA	D-U-16-086	Electric	Vertically Integrated	9/16/2016	5.7	9.98	13.80	58.18	123.04
Massachusetts	NSTAR Electric Co	ES	DPU 17-05 (NSTAR)	Electric	Distribution	1/17/2017	60.2	7.81	10.50	53.37	2,734.40
Massachusetts	Western Massachusetts Electric	ES	DPU 17-05 (VMECO)	Electric	Distribution	1/17/2017	35.7	7.62	10.50	53.34	440.87
Washington	Puget Sound Energy Inc	DUE	D-UJE-170033	Electric	Vertically Integrated	1/13/2017	144.0	7.74	9.80	49.50	5,097.75
Illinois	Ameren Illinois	AEE	D-17-0197	Electric	Distribution	4/13/2017	(16.4)	7.04	8.40	50.00	2,736.55
Illinois	Commonwealth Edison Co	EXC	D-17-0196	Electric	Distribution	4/13/2017	99.2	6.47	8.40	45.89	9,681.98
Wisconsin	Northern States Power Co	XEL	D-4220-UR-123 (Elec)	Electric	Vertically Integrated	5/4/2017	24.7	7.84	10.00	52.53	1,218.58
Texas	Southwestern Electric Power Co	AEP	D-46449	Electric	Vertically Integrated	12/16/2016	105.9	7.38	10.00	48.46	1,238.89
Texas	El Paso Electric Co		D-46831	Electric	Vertically Integrated	2/13/2017	39.2	8.14	10.50	48.35	1,691.65
Oregon	Portland General Electric Co	POR	D-UJE-319	Electric	Vertically Integrated	2/28/2017	99.9	7.46	9.75	50.00	4,584.05
New Mexico	Public Service Co of NM	PNM	C-16-00276-UT	Electric	Vertically Integrated	12/7/2016	99.2	7.51	10.13	49.61	2,381.20
Vermont	Green Mountain Power Corp		C-17-3112-INV	Electric	Vertically Integrated	4/14/2017	31.7	7.07	9.50	48.63	1,458.10
Idaho	Avista Corp	AVA	C-AVU-E-17-01	Electric	Vertically Integrated	6/9/2					

North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, Sub 1146	Electrnc	Vertically Integrated	8/25/2017	472.2	7.35	9.90	52.00	NA
Maine	Versant Power		D-2017-00198	Electric	Distribution	10/2/2017	10.0	7.25	9.50	49.00	307.31
Hawaii	Hawaii Electric Light Co	HE	D-2015-0170	Electric	Vertically Integrated	9/19/2016	19.3	8.44	10.60	57.12	478.77
District of Columbia	Potomac Electric Power Co	EXC	FC-1150	Electric	Distribution	12/19/2017	26.3	7.74	10.10	50.28	1,872.43
Delaware	Delmarva Power & Light Co	EXC		Electric	Distribution	8/17/2017	10.9	6.98	10.10	50.52	810.64
Rhode Island	Narragansett Electric Co	NG	D-4770 (electric)	Electric	Distribution	11/27/2017	18.9	7.43	10.10	50.97	730.08
New Mexico	Southwestern Public Service Co	XEL	C-17-00255-UT	Electric	Vertically Integrated	10/27/2017	27.3	7.84	10.25	58.00	877.46
Wisconsin	Wisconsin Power and Light Co	LNT	D-6880-UR-121 (Elec)	Electric	Vertically Integrated	5/24/2018	0.0	7.08	10.00	52.00	3,955.30
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-122 (Elec)	Electric	Vertically Integrated	7/17/2018	(8.0)	7.10	9.80	56.08	860.54
North Dakota	Otter Tail Power Co	OTTR	C-PU-17-398	Electric	Vertically Integrated	11/2/2017	10.1	7.92	10.30	52.50	364.77
Ohio	AES Ohio	AES	C-15-1830-EL-AIR	Electric	Distribution	11/30/2015	65.8	7.86	10.50	50.00	683.78
Kansas	Evergy Kansas Central Inc	EVRG	D-18-WSEE-328-RTS	Electric	Vertically Integrated	2/1/2018	69.3	7.33	9.85	51.36	5,753.01
Pennsylvania	UGI Utilities Inc	UGI	D-R-2017-2640058	Electric	Distribution	1/26/2018	7.7	8.24	11.25	54.02	119.24
New Jersey	Public Service Electric Gas	PEG	D-ER18010029	Electric	Distribution	11/12/2018	172.7	7.36	10.30	54.00	5,664.07
Indiana	AES Indiana	AES	Ca-45029	Electric	Vertically Integrated	12/21/2017	88.3	6.82	10.32	40.21	3,368.50
Illinois	Ameren Illinois	AEE	D-18-0807	Electric	Distribution	4/16/2018	73.7	6.99	8.69	50.00	2,951.88
Illinois	Commonwealth Edison Co	EXC	D-18-0808	Electric	Distribution	4/16/2018	(26.1)	6.52	8.69	47.11	10,675.24
Kansas	Evergy Metro Inc	EVRG	D-18-KCPE-480-RTS	Electric	Vertically Integrated	5/1/2018	32.9	7.38	9.85	49.75	2,329.02
Oregon	Portland General Electric Co	POR	D-UE-335	Electric	Vertically Integrated	2/15/2018	75.5	7.31	9.50	50.00	4,857.60
Ohio	Duke Energy Ohio Inc	DUK	C-17-0032-EL-AIR	Electric	Distribution	3/2/2017	15.4	7.82	10.40	50.75	1,338.49
Texas	Texas-New Mexico Power Co	PNM	D-48401	Electric	Distribution	5/30/2018	31.3	8.85	10.50	50.00	522.41
Vermont	Green Mountain Power Corp		C-18-0974-TF	Electric	Vertically Integrated	4/13/2018	23.5	6.97	9.30	49.85	1,558.69
Michigan	Consumers Energy Co	CMS	C-U-20134	Electric	Vertically Integrated	5/14/2018	43.9	6.28	10.75	41.90	10,638.74
West Virginia	Appalachian Power Co	AEP	C-18-0646-E-42T	Electric	Vertically Integrated	5/9/2018	95.3	7.52	10.22	50.16	4,124.37
New Jersey	Atlantic City Electric Co	ED	D-ER18080925	Electric	Distribution	8/21/2018	130.2	7.33	10.10	49.84	1,582.61
New York	Orange & Rockland Utills Inc	EXC	C-18-E-0067	Electric	Distribution	1/26/2018	30.4	7.35	9.75	48.00	877.64
Oklahoma	Public Service Co of OK	AEP	Ca-PUD201800097	Electric	Vertically Integrated	8/28/2018	88.5	7.41	10.30	49.14	2,513.28
Maryland	The Potomac Edison Co	FE	C-9490	Electric	Distribution	8/24/2018	17.6	7.75	10.80	52.82	471.12
Kentucky	Kentucky Utilities Co	PPL	C-2018-00294	Electric	Vertically Integrated	9/28/2018	112.5	7.56	10.42	52.84	4,099.14
Kentucky	Louisville Gas & Electric Co	PPL	C-2018-00295 (elec)	Electric	Vertically Integrated	9/28/2018	34.9	7.62	10.42	52.84	2,583.43
South Carolina	Duke Energy Carolinas LLC	DUK	D-2018-319-E	Electric	Vertically Integrated	11/8/2018	225.2	7.69	10.50	53.00	5,624.95
Michigan	DTE Electric Co	DTE	C-U-20162	Electric	Vertically Integrated	7/6/2018	396.8	5.72	10.50	38.72	17,152.35
South Carolina	Duke Energy Progress LLC	DUK	D-2018-319-E	Electric	Vertically Integrated	11/8/2018	68.5	7.52	10.50	53.00	1,512.51
South Dakota	Otter Tail Power Co	OTTR	D-EL18-021	Electric	Vertically Integrated	4/20/2018	5.7	7.91	10.30	52.92	NA
Hawaii	Mau Electric Company Ltd	HE	D-2017-0150	Electric	Vertically Integrated	10/12/2017	21.2	8.05	10.60	56.94	482.42
Michigan	Upper Peninsula Power Co		C-U-20276	Electric	Vertically Integrated	9/21/2018	7.1	7.68	10.50	49.94	267.72
Maryland	Potomac Electric Power Co	EXC	C-9602	Electric	Distribution	11/5/2019	26.7	7.81	10.30	50.46	1,973.61
Vermont	Green Mountain Power Corp		C-19-1932-TF	Electric	Vertically Integrated	6/13/2019	17.9	6.90	9.16	49.46	1,622.52
Wisconsin	Northern States Power Co	XEL	D-4220-UR-124 (Elec)	Electric	Vertically Integrated	5/23/2019	0.0	7.74	10.00	52.52	1,482.79
Massachusetts	Massachusetts Electric Co	NG	DPU-18-150	Electric	Distribution	11/15/2018	116.0	8.04	10.50	53.49	2,218.49
Wisconsin	Wisconsin Electric Power Co	WEC	D-05-UR-109 (WEP-Elec)	Electric	Vertically Integrated	3/28/2019	223.3	9.40	10.35	53.99	4,846.53
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-126 (Elec)	Electric	Vertically Integrated	3/28/2019	101.9	8.17	10.35	51.48	2,614.73
Louisiana	Entergy New Orleans LLC	ETR	D-UD-18-07 (elec)	Electric	Vertically Integrated	9/21/2018	135.1	7.79	10.50	52.20	769.32
Idaho	Avista Corp	AVA	C-AVUJ-E-19-04	Electric	Vertically Integrated	8/10/2019	5.3	7.55	9.90	50.00	856.82
Illinois	Commonwealth Edison Co	EXC	D-19-0387	Electric	Distribution	4/8/2019	(2.7)	6.51	8.91	47.87	11,355.13
Indiana	Northern IN Public Svc Co	NI	Ca-45159	Electric	Vertically Integrated	10/31/2018	109.5	7.02	10.80	47.86	4,115.50
Illinois	Ameren Illinois	AEE	D-19-0436	Electric	Distribution	4/18/2019	(3.0)	6.71	8.91	50.00	3,180.74
Maryland	Baltimore Gas and Electric Co	EXC	C-9610 (EL)	Electric	Distribution	5/24/2019	80.7	7.26	10.30	52.00	3,457.32
Georgia	Georgia Power Co	SO	D-42516	Electric	Vertically Integrated	6/28/2019	937.0	7.93	10.90	56.00	20,079.35
California	San Diego Gas & Electric Co	SRE	A-19-04-017 (Elec)	Electric	Vertically Integrated	4/22/2019	NA	8.95	12.38	56.00	NA
California	Pacific Gas and Electric Co	PGC	A-19-04-015	Electric	Vertically Integrated	4/22/2019	396.0	NA	12.00	52.00	NA
California	Southern California Edison Co	EIX	A-19-04-014	Electric	Vertically Integrated	4/22/2019	204.0	8.28	11.45	52.00	NA
Arkansas	Southwestern Electric Power Co	AEP	D-19-008-U	Electric	Vertically Integrated	2/28/2019	69.5	5.10	10.50	NA	1,155.04
Montana	NorthWestern Corp	NWE	D2018 2 12	Electric	Vertically Integrated	9/28/2018	30.7	7.42	10.65	49.38	2,334.10
Nevada	Sierra Pacific Power Co	BRK A	D-19-06002	Electric	Vertically Integrated	6/3/2019	6.0	7.11	10.21	50.92	1,818.84
Iowa	Interstate Power & Light Co	LNT	D-RPU-2019-0001	Electric	Vertically Integrated	3/1/2019	203.3	7.54	10.25	53.00	6,244.90
New York	Consolidated Edison Co of NY	ED	C-19-E-0065	Electric	Distribution	1/31/2019	468.6	7.19	9.75	50.00	21,835.67
New Jersey	Rockland Electric Company	ED	D-ER19050562	Electric	Distribution	5/3/2019	20.3	7.37	9.60	50.16	253.28
Michigan	Indiana Michigan Power Co	AEP	C-U-20359	Electric	Vertically Integrated	6/24/2019	50.4	6.34	10.50	40.16	1,131.20
California	PacificCorp	BRK A	A-18-04-002	Electric	Vertically Integrated	4/12/2018	0.8	NA	10.60	51.86	NA
Colorado	Public Service Co of CO	XEL	D-19AL-0268E	Electric	Vertically Integrated	5/20/2019	353.3	7.53	10.20	55.81	8,326.36
Texas	CenturPoint Energy Houston	CHP	D-48421	Electric	Distribution	4/5/2019	189.8	7.39	10.40	50.00	6,415.24
Maine	Central Maine Power and	IBE	D-2018-00194	Electric	Distribution	10/15/2018	44.9	7.45	10.00	55.00	952.47
North Carolina	Virginia Electric & Power Co	D	E-22, Sub 562	Electric	Vertically Integrated	3/29/2019	24.2	7.83	10.75	53.65	1,152.25
Texas	AEP Texas Inc	AEP	D-49494	Electric	Distribution	5/1/2019	59.1	7.08	10.50	45.00	2,433.98
Indiana	Indiana Michigan Power Co	AEP	Ca-45235	Electric	Vertically Integrated	5/14/2019	172.0	5.91	10.50	37.55	4,946.96
Washington	Avista Corp	AVA	D-UE-190334	Electric	Vertically Integrated	4/30/2019	45.8	7.52	9.90	50.00	1,708.30
Massachusetts	Fitchburg Gas & Electric Light	UTL	DPU 19-130	Electric	Distribution	12/17/2019	2.7	8.41	10.50	52.45	77.45
Kentucky	Duke Energy Kentucky Inc	DUK	C-2019-00271	Electric	Vertically Integrated	9/3/2019	45.6	6.71	9.80	48.23	946.43
Michigan	DTE Electric Co	DTE	C-U-20561	Electric	Vertically Integrated	7/8/2019	343.2	5.73	10.50	38.32	18,167.55
New Mexico	Southwestern Public Service Co	XEL	C-19-00170-UT	Electric	Vertically Integrated	7/1/2019	46.6	7.54	10.10	54.77	1,269.65
Indiana	Duke Energy Indiana LLC	DUK	Ca-45253	Electric	Vertically Integrated	7/2/2019	361.8	6.00	10.40	40.98	10,195.19
New Hampshire	Liberty Utilities Granite St	AON	D-DE-19-064	Electric	Distribution	4/30/2019	6.7	8.19	10.00	55.00	103.02
Missouri	Empire District Electric Co	AON	C-ER-2019-0374	Electric	Vertically Integrated	8/14/2019	26.5	7.50	9.95	51.91	1,457.36
Washington	Puget Sound Energy Inc	EXC	D-UE-190529	Electric	Vertically Integrated	6/20/2019	138.4	7.48	9.50	48.50	5,436.02
Maryland	Delmarva Power & Light Co	EXC	C-9630	Electric	Distribution	12/5/2019	17.5	7.19	10.30	50.53	852.62
Hawaii	Hawaii Electric Light Co	HE	D-2018-0368	Electric	Vertically Integrated	12/14/2018	13.4	8.30	10.50	56.91	536.93
Vermont	Green Mountain Power Corp		20-1407-TF	Electric	Vertically Integrated	6/1/2020	(0.3)	6.43	8.20	49.87	1,630.90
Texas	Southwestern Public Service Co	XEL	D-49811	Electric	Vertically Integrated	8/8/2019	128.7	7.49	10.10	55.82	2,581.63
California	Liberty Utilities (CalPeco Ele	AON	A-18-12-001	Electric	Vertically Integrated	12/3/2018	6.7	7.79	10.30	52.50	273.50
Hawaii	Hawaiian Electric Co	HE	D-2019-00085	Electric	Vertically Integrated	8/21/2019	77.6	7.97	10.50	57.15	2,476.80
New Jersey	Jersey Cntrl Power & Light Co	FE	D-ER20020146	Electric	Distribution	2/18/2020	185.3	7.76	10.15	52.80	2,623.04
New York	NY State Electric & Gas Corp	IBE	C-19-E-0378	Electric	Distribution	5/20/2019	162.7	6.61	9.50	50.00	2,445.94
New York	Rochester Gas & Electric Co	IBE	C-19-E-0380	Electric	Distribution	5/20/2019	38.7	7.07	9.50	50.00	1,517.07
Virginia	Appalachian Power Co	AEP	C-PUR-2020-00015	Electric	Vertically Integrated	3/31/2020	64.9	7.51	9.90	50.31	2,479.19
Wisconsin	Madison Gas and Electric Co	MGEE	D-3270-UR-123 (Elec)	Electric	Vertically Integrated	8/28/2020	0.0	6.96	9.80	55.00	1,019.08
Illinois	Ameren Illinois	AEE	D-20-0381	Electric	Distribution	4/14/2020	(31.5)	6.39	8.38	50.00	3,422.03
Illinois	Commonwealth Edison Co	EXC	D-20-0393	Electric	Distribution	4/16/2020	(13.4)	6.28	8.38	48.16	12,050.34
Nevada	Nevada Power Co	BRK A	D-20-06003	Electric	Vertically Integrated	6/1/2020	(99.6)	7.49	10.08	51.37	4,939.56
Washington	PacificCorp	BRK A	D-UE-191024	Electric	Vertically Integrated	12/13/2019	29.8	7.69	10.20	52.55	1,015.97
New Hampshire	Public Service Co of NH	ES	D-DE-19-057	Electric	Distribution	5/28/2019	69.3	7.62	10.40	54.85	1,215.69
Maryland	Baltimore Gas and Electric Co	EXC	C-9645 (EL)	Electric	Distribution	5/15/2020	137.0	7.09	10.10	52.00	4,714.01
Michigan	Consumers Energy Co	CMS	C-U-20697	Electric	Vertically Integrated	2/27/2020	229.7	6.03	10.50	42.81	11,842.41
Oregon	PacificCorp	BRK A	D-UE-374	Electric	Vertically Integrated	2/14/2020	46.3	7.46	9.80	53.52	4,199.66
Arizona	Tucson Electric Power Co	FTS	D-E-01933A-19-0028	Electric	Vertically Integrated	4/1/2019	99.0	7.49	10.00	53.08	2,707.04
Wisconsin	Wisconsin Public Service and Light Co	LNT	D-6880-UR-122 (Elec)	Electric	Vertically Integrated	5/1/2020	0.0	NA	NA	NA	NA
Utah	PacificCorp	BRK A	D-20-035-04	Electric	Vertically Integrated	5/8/2020	72.0	7.48	9.90	53.67	7,745.61
Kentucky	Kentucky Power Co	AEP	C-2020-00174	Electric	Distribution	6/29/2020	70.1	6.58	10.00	43.25	1,399.89
North Carolina	Duke Energy Carolinas LLC	DUK	D-E-7, Sub 1214	Electric	Vertically Integrated	9/30/2019	357.2	7.04	9.60	52.00	17,017.58
Missouri	Union Electric Co	AEE	C-ER-80-17	Electric	Vertically Integrated	7/6/1979	55.6	10.15	15.00	34.26	NA
Missouri	Evergy Missouri West	EVRG	C-ER-80-53	Electric	Vertically Integrated	8/8/1979	14.7	10.94	13.50	35.00	NA
Missouri	Empire District Electric Co	AON	C-ER-80-143	Electric	Vertically Integrated	11/9/1979	16.1	NA	15.60	34.40	NA
South Dakota	Northern States Power Co	XEL	D-F-3353	Electric	Vertically Integrated	6/23/1980	5.1	10.56	15.50	41.66	NA
Maryland	Baltimore Gas and Electric Co	EXC	C-7482 0-65066-E	Electric	Vertically Integrated	9/22/1980	29.5	9.55	NA	NA	NA
Missouri	Evergy Missouri West	EVRG									

Pennsylvania	Duquesne Light Co		C-R-832337	Electric	Vertically Integrated	4/29/1983	49.9	12.29	17.00	37.40	NA
Ohio	The Cleveland Electric Illumin	FE	C-83-849-EL-COI	Electric	Vertically Integrated	6/22/1983	0.0	NA	NA	NA	NA
Vermont	Central Vermont Public Service		D-4797	Electric	Vertically Integrated	4/27/1983	11.1	13.24	16.60	46.10	NA
Ohio	Ohio Power Co	AEP	C-83-98-EL-AIR	Electric	Vertically Integrated	2/28/1983	82.2	12.77	17.80	34.30	NA
Wyoming	PacifiCorp	BRK A	D-9454, SUB 20	Electric	Vertically Integrated	6/28/1983	18.4	12.78	17.10	36.00	NA
Utah	PacifiCorp	BRK A	C-83-035-06	Electric	Vertically Integrated	6/3/1983	76.6	12.46	15.80	42.13	NA
Maryland	Baltimore Gas and Electric Co	EXC	C-7770 0-66871-E	Electric	Vertically Integrated	11/2/1983	108.6	11.42	16.00	42.20	2,856.50
Pennsylvania	Metropolitan Edison Co	FE	C-R-832549	Electric	Vertically Integrated	1/25/1984	19.8	11.17	16.50	40.18	NA
District of Columbia	Potomac Electric Power Co	EXC	C-813 0-8056 8127	Electric	Vertically Integrated	11/4/1983	86.0	11.60	16.50	44.04	NA
Massachusetts	Massachusetts Electric Co	NG	DP-94-240	Electric	Vertically Integrated	11/5/1984	(10.0)	NA	NA	NA	NA
Massachusetts	Fitchburg Gas & Electric Light	UTL	DP-94-145-E	Electric	Vertically Integrated	7/16/1984	9.9	15.57	18.00	37.16	NA
Louisiana	Entergy Louisiana LLC	ETR	D-U-16091	Electric	Vertically Integrated	4/12/1984	591.7	12.82	16.00	37.00	2,902.30
Louisiana	Entergy New Orleans LLC	ETR	D-U-16092 (elec)	Electric	Vertically Integrated	4/12/1984	133.8	12.45	15.00	37.00	NA
Louisiana	Entergy Louisiana LLC	ETR	D-U-16518	Electric	Vertically Integrated	5/17/1985	576.0	12.75	16.00	37.00	NA
West Virginia	The Potomac Edison Co	FE	C-94-857-E-42T	Electric	Vertically Integrated	12/6/1984	10.5	11.47	16.00	39.85	NA
Louisiana	Entergy Louisiana LLC	ETR	D-U-16945	Electric	Vertically Integrated	9/23/1985	444.4	12.75	16.00	37.00	NA
Wyoming	PacifiCorp	BRK A	D-9454, SUB 26	Electric	Vertically Integrated	10/3/1985	17.2	11.57	14.68	36.00	NA
Texas	Southwestern Public Service Co	XEL	D-6465	Electric	Vertically Integrated	8/30/1985	(0.1)	11.95	15.05	44.29	NA
Indiana	Duke Energy Indiana, LLC	DUK	Ca-37414	Electric	Vertically Integrated	2/11/1985	76.7	13.15	20.00	35.93	1,862.00
Louisiana	Entergy New Orleans LLC	ETR	D-CD-85-1 (elec)	Electric	Vertically Integrated	5/17/1985	118.0	12.75	16.00	37.00	NA
Louisiana	Cleco Power LLC		D-U-16510	Electric	Vertically Integrated	5/10/1985	84.7	12.49	15.90	42.00	690.70
Wyoming	PacifiCorp	BRK A	D-9441 SUB 25	Electric	Vertically Integrated	12/23/1985	24.1	12.39	15.41	44.09	NA
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-16950	Electric	Vertically Integrated	9/30/1985	454.0	13.42	16.50	40.00	NA
Maine	Central Maine Power Co	IBE	D-85-212	Electric	Vertically Integrated	12/20/1985	48.8	12.10	14.50	NA	NA
Mississippi	Mississippi Power Co	SO	C-U-4761	Electric	Vertically Integrated	11/6/1985	0.0	NA	NA	NA	NA
Vermont	Green Mountain Power Corp		D-5125	Electric	Vertically Integrated	3/17/1986	6.3	12.72	15.50	43.80	NA
Maryland	Delmarva Power & Light Co	EXC	C-7971 0-67487	Electric	Vertically Integrated	6/26/1986	NA	NA	NA	NA	NA
Texas	Entergy Texas Inc	ETR	D-6525	Electric	Vertically Integrated	10/1/1986	296.0	13.33	16.50	36.00	NA
Pennsylvania	Metropolitan Edison Co	FE	C-R-860384	Electric	Vertically Integrated	6/10/1986	57.7	10.78	14.75	43.10	NA
Pennsylvania	Pennsylvania Electric Co	FE	C-R-860413	Electric	Vertically Integrated	6/10/1986	38.1	10.94	14.50	45.16	NA
Oregon	PacifiCorp	BRK A	C-UE-52	Electric	Vertically Integrated	6/16/1986	22.6	NA	NA	NA	NA
Connecticut	The United Illuminating Co	IBE	D-87-01-04	Electric	Vertically Integrated	1/9/1987	NA	NA	NA	NA	NA
Indiana	Indiana Michigan Power Co	AEP	Ca-38063-S1	Electric	Vertically Integrated	7/11/1986	11.7	NA	NA	NA	NA
Massachusetts	Eastern Edison Company		DP-88-100	Electric	Vertically Integrated	6/14/1988	11.9	11.55	13.25	41.50	NA
Ohio	The Cleveland Electric Illumin	FE	C-88-170-EL-AIR	Electric	Vertically Integrated	3/8/1988	452.6	11.75	14.00	NA	NA
Ohio	The Toledo Edison Co	FE	C-88-171-EL-AIR	Electric	Vertically Integrated	3/8/1988	194.6	11.75	14.00	40.45	NA
Louisiana	Entergy Louisiana LLC	ETR	D-CD-86-11,CD-89-1	Electric	Vertically Integrated	7/11/1986	13.8	12.54	15.28	40.00	NA
Nevada	Sierra Pacific Power Co	BRK A	D-89-516	Electric	Vertically Integrated	5/5/1989	1.9	10.95	14.00	42.35	NA
Massachusetts	NSTAR Electric Co	ES	DP-89-100	Electric	Vertically Integrated	4/14/1989	85.8	11.18	13.75	39.57	NA
Maine	Central Maine Power Co	IBE	D-89-68	Electric	Vertically Integrated	5/19/1989	61.5	11.37	14.00	41.13	NA
Massachusetts	Cambdige Electric Light Co		DP-89-109	Electric	Vertically Integrated	5/17/1989	6.1	12.09	15.00	50.30	NA
Maryland	Potomac Electric Power Co	EXC	C-8251	Electric	Vertically Integrated	2/1/1990	24.0	10.11	13.00	43.16	NA
Minnesota	Northern States Power Co	XEL	D-E-002-GR-89-965	Electric	Vertically Integrated	11/2/1989	120.9	10.20	13.25	47.03	NA
Missouri	Empire District Electric Co	AON	C-ER-90-158	Electric	Vertically Integrated	12/29/1989	8.2	11.07	13.50	49.90	NA
Maine	Central Maine Power Co		D-90-001	Electric	Vertically Integrated	3/9/1990	9.1	11.87	14.10	40.00	NA
Texas	AEP Texas Central Co	AEP	D-9561	Electric	Vertically Integrated	5/17/1990	120.0	11.13	13.00	44.80	NA
Texas	Entergy Texas Inc	ETR	D-8702	Electric	Vertically Integrated	3/21/1989	103.0	12.52	15.00	39.11	NA
Washington	Puget Sound Energy Inc		Ca-UE-90-1183-T 84-P	Electric	Vertically Integrated	11/5/1990	19.2	NA	NA	NA	NA
Massachusetts	Western Massachusetts Electric	ES	DP-90-300	Electric	Vertically Integrated	12/14/1990	54.9	10.67	13.70	37.45	NA
Colorado	Public Service Co of CO	XEL	D-91S-091E	Electric	Vertically Integrated	1/31/1991	(23.6)	10.68	13.75	47.84	NA
Massachusetts	Massachusetts Electric Co	NG	DP-91-52	Electric	Vertically Integrated	3/15/1991	35.6	10.65	13.50	46.54	NA
Arizona	Tucson Electric Power Co	FTS	D-U-1933-90-270	Electric	Vertically Integrated	9/21/1990	50.4	10.32	13.50	40.00	NA
Arizona	Arizona Public Service Co	PNW	D-U-1345-90-007	Electric	Vertically Integrated	1/11/1990	208.5	10.75	12.50	41.28	NA
Maryland	Delmarva Power & Light Co	EXC	C-8389	Electric	Vertically Integrated	8/30/1991	9.2	10.31	13.15	42.86	NA
Massachusetts	Western Massachusetts Electric	ES	DP-91-290	Electric	Vertically Integrated	12/13/1991	37.4	10.47	13.50	37.43	NA
Ohio	Columbus Southern Power Co	AEP	C-91-1610-EL-AIR	Electric	Vertically Integrated	10/4/1991	7.7	10.31	13.00	44.85	NA
Maryland	Potomac Electric Power Co	EXC	C-8466	Electric	Vertically Integrated	6/22/1992	86.4	10.39	13.25	45.96	NA
South Dakota	Northern States Power Co	XEL	D-EL-92-016	Electric	Vertically Integrated	6/29/1992	6.3	10.16	12.50	49.90	NA
Massachusetts	Eastern Edison Company		DP-92-148	Electric	Vertically Integrated	6/15/1992	16.4	11.02	12.50	40.01	NA
Maryland	Delmarva Power & Light Co	EXC	C-8492	Electric	Vertically Integrated	10/30/1992	14.6	10.07	12.50	46.00	NA
Ohio	Evergy Missouin West	EVRG	C-ER-93-37	Electric	Vertically Integrated	7/31/1992	19.4	11.08	13.50	44.75	NA
Delaware	Delmarva Power & Light Co	DUK	C-92-1464-EL-AIR	Electric	Vertically Integrated	9/1/1992	86.1	10.57	13.00	43.65	NA
Maryland	Potomac Electric Power Co	EXC	C-8565	Electric	Vertically Integrated	10/30/1992	36.6	9.73	12.00	46.00	NA
Oklahoma	Public Service Co of OK	AEP	Ca-PUD-920000-1342	Electric	Vertically Integrated	6/2/1993	49.9	9.89	12.75	44.79	NA
Texas	Entergy Texas Inc	ETR	D-12423	Electric	Vertically Integrated	6/19/1992	41.6	9.98	11.85	51.17	NA
Arizona	Arizona Public Service Co	PNW	D-U-1345-94-120	Electric	Vertically Integrated	9/29/1993	NA	NA	NA	NA	NA
Missouri	Evergy Missouin West	EVRG	C-ER-94-163	Electric	Vertically Integrated	11/22/1993	5.1	10.46	12.33	55.20	NA
Nevada	Nevada Power Co	BRK A	D-93-11045	Electric	Vertically Integrated	1/10/1994	29.1	9.70	12.50	NA	NA
Missouri	Empire District Electric Co	AON	C-ER-94-174	Electric	Vertically Integrated	12/1/1993	8.0	10.23	12.50	49.44	NA
New Mexico	Southwestern Public Service Co	XEL	C-2573	Electric	Vertically Integrated	2/25/1994	(4.0)	NA	NA	NA	NA
Maryland	The Potomac Edison Co	FE	C-8652	Electric	Vertically Integrated	4/15/1994	30.9	9.46	12.25	42.85	NA
Texas	Texas-New Mexico Power Co	PNM	D-12900	Electric	Vertically Integrated	3/30/1994	34.8	11.50	12.20	24.00	NA
Nevada	Sierra Pacific Power Co	BRK A	D-94-6020	Electric	Vertically Integrated	6/15/1994	16.6	9.54	11.78	45.56	NA
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD-940000413	Electric	Vertically Integrated	8/9/1994	(12.0)	NA	NA	NA	NA
Montana	NorthWestern Corp	NWE	D-94 8 30	Electric	Vertically Integrated	8/22/1994	24.7	9.32	12.50	46.95	NA
South Dakota	Black Hills Power Inc	BKH	D-EL-95-003	Electric	Vertically Integrated	2/1/1995	8.4	10.13	12.25	45.00	NA
Iowa	MidAmerican Energy Co	BRK A	D-RPU-94-4	Electric	Vertically Integrated	9/15/1994	81.0	10.36	13.50	46.53	NA
Missouri	Missouri Electric Co	AEP	C-ER-95-411	Electric	Vertically Integrated	10/1/1995	30.0	NA	NA	NA	NA
Indiana	AES Indiana	AES	Ca-39838	Electric	Vertically Integrated	10/11/1994	97.6	9.88	15.83	41.71	NA
Texas	CenterPoint Energy Houston	CNP	D-12065	Electric	Vertically Integrated	7/13/1994	248.0	10.43	12.70	51.00	NA
Texas	El Paso Electric Co		D-12700	Electric	Vertically Integrated	1/10/1994	41.4	NA	NA	NA	NA
Missouri	Empire District Electric Co	AON	C-ER-95-279	Electric	Vertically Integrated	3/17/1995	8.5	10.38	12.75	46.98	NA
California	Southern California Edison Co	EIX	AP-9312025 De-9601011	Electric	Vertically Integrated	12/23/1993	117.3	9.17	11.00	47.25	NA
Virginia	Appalachian Power Co	AEP	C-PUE-940063	Electric	Vertically Integrated	9/28/1994	15.7	9.28	11.40	39.93	NA
Missouri	Evergy Metro Inc	EVRG	C-EO-94-199	Electric	Vertically Integrated	5/28/1996	(20.0)	NA	NA	NA	NA
Oregon	PacifiCorp	BRK A	D-UE-94	Electric	Vertically Integrated	9/1/1995	124.9	9.83	12.25	46.60	NA
Pennsylvania	UGI Utilities Inc	UGI	C-R-954534	Electric	Vertically Integrated	1/26/1996	6.2	10.18	12.75	46.67	NA
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-21485	Electric	Vertically Integrated	5/31/1995	19.0	9.42	10.95	37.28	NA
Louisiana	Entergy Louisiana LLC	ETR	D-U-20925-A&B	Electric	Vertically Integrated	4/15/1996	(12.0)	NA	NA	NA	NA
Colorado	Public Service Co of CO	XEL	D-95A-531EG	Electric	Vertically Integrated	11/6/1995	0.0	NA	NA	NA	NA
West Virginia	Appalachian Power Co	AEP	C-96-0458-E-GI	Electric	Vertically Integrated	6/8/1996	34.2	9.67	12.75	37.11	NA
Kansas	Evergy Kansas Central Inc	EVRG	D-193.307-U	Electric	Vertically Integrated	8/17/1995	9.0	7.89	12.00	37.30	NA
Kansas	Evergy Kansas South	EVRG	D-193.306-U	Electric	Vertically Integrated	8/17/1995	12.0	7.85	12.00	37.10	NA
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD-960000116	Electric	Vertically Integrated	6/17/1996	(14.2)	10.15	12.75	51.08	NA
Iowa	MidAmerican Energy Co	BRK A	D-RPU-96-8	Electric	Vertically Integrated	6/4/1996	(21.0)	NA	NA	NA	NA
Missouri	Empire District Electric Co	AON	C-ER-97-91	Electric	Vertically Integrated	9/30/1996	23.4	10.35	13.50	48.40	NA
Louisiana	Entergy Louisiana LLC	ETR	D-U-20925-D	Electric	Vertically Integrated	5/30/1997	(26.7)	NA	NA	NA	NA
Oklahoma	Public Service Co of OK	AEP	Ca-PUD-960000-214	Electric	Vertically Integrated	7/19/1996	9.3	9.82	12.00	NA	NA
Maryland	Potomac Electric Power Co	EXC	C-8773	Electric	Vertically Integrated	8/20/1997	64.5	9.52	12.50	42.70	NA
Kansas	Evergy Metro Inc	EVRG	D-97-KCPE-661-RTS	Electric	Vertically Integrated	8/18/1997	1.8	9.43	12.90	51.62	NA
Louisiana	Entergy Gulf States LA LLC	ETR	D-U-22092	Electric	Vertically Integrated	5/31/1996	(5.3)	NA	10.95	NA	NA
New Mexico	El Paso Electric Co		C-2722	Electric	Vertically Integrated	3/3/1997	8.6	9.14	12.00	39.44	NA
Louisiana	Entergy New Orleans LLC	ETR	D-UD-97-1 (elec)	Electric	Vertically Integrated	2/6/1997	NA	NA	NA	NA	NA
Maryland	Potomac Electric Power Co	EXC	C-8791	Electric	Vertically Integrated	6/5/1998	56.3	9.23	12.00	42.47	NA
New Mexico	Southwestern Public Service Co	XEL	C-2798	Electric	Vertically Integrated	5/5/1998	(1.7)	9.56	11.74	49.20	NA
California	San Diego Gas & Electric Co	SRE	AP-9801014 De-9812038 (elec)	Electric	Vertically Integrated	11/6/1998	35.0	NA	NA	NA	NA
Georgia	Georgia Power Co	DO	D-9355-U	Electric	Vertically Integrated	6/4/1998	(60.0)	NA	NA	NA	NA
Michigan	DTE Electric Co	STE	C-U-11726	Electric	Vertically Integrated	7/1/1998	0.0	NA	NA	NA	NA
Virginia	Appalachian Power Co	AEP	C-PUE-960301	Electric	Vertically Integrated	6/13/1997	30.5	9.79	12.90	39.33	NA
Missouri	Evergy Metro Inc	EVRG	C-ER-98-313	Electric	Vertically Integrated	1/26/1999	0.0	NA	NA	NA	NA
Texas	Entergy Texas Inc		D-20150	Electric	Vertically Integrated	11/30/1998	90.0	9.91	11.25	46.49	NA
Missouri	Evergy Miss										

New York	NY State Electric & Gas Corp	IBE	C-01-E-0359	Electric	Distribution	3/14/2001	0 0	NA	NA	NA	NA
Missouri	Union Electric Co	AEE	C-EC-2002-1	Electric	Vertically Integrated	7/2/2001	148 0	10 14	12 50	59 08	NA
Indiana	Northern IN Public Svc Co	NI	Ca-41746	Electric	Vertically Integrated	1/24/2001	NA	NA	NA	NA	NA
Missouri	Empire District Electric Co	AQN	C-ER-2002-425	Electric	Vertically Integrated	3/8/2002	19 8	9 94	12 00	47 50	NA
New Mexico	Public Service Co of NM	PNM	C-3137	Electric	Vertically Integrated	10/10/2002	(35 2)	NA	NA	NA	NA
Louisiana	Entergy New Orleans LLC	ETR	D-UD-01-04 (elec)	Electric	Vertically Integrated	6/1/2001	28 9	9 72	12 25	45 00	NA
Missouri	Evergy Missouin West	EVRG	C-ER-2004-0034 (MPS)	Electric	Vertically Integrated	7/3/2003	65 0	9 59	12 25	47 50	725 00
Missouri	Evergy Missouin West	EVRG	C-ER-2004-0034 (L&P)	Electric	Vertically Integrated	7/3/2003	14 6	9 85	12 25	47 50	197 00
Wisconsin	Wisconsin Electric Power Co	WEC	D-05-UR-101 (elec 2003)	Electric	Vertically Integrated	7/2/2003	63 5	NA	NA	NA	NA
New York	Rochester Gas & Electric Co	IBE	C-03-E-0765	Electric	Distribution	5/16/2003	80 3	8 53	11 25	46 41	1,106 30
New Hampshire	Public Service Co of NH	ES	D-DE-03-200	Electric	Distribution	12/29/2003	21 4	7 74	11 20	47 81	498 10
Texas	Entergy Texas Inc	ETR	D-30123	Electric	Vertically Integrated	8/25/2004	42 6	8 57	11 50	46 96	1,476 00
Washington	PacificCorp	BRK A	D-UE-03-2065	Electric	Vertically Integrated	12/26/2003	26 7	8 74	11 25	47 08	596 30
California	San Diego Gas & Electric Co	SRE	AP-0212028 De-0412015 (elec)	Electric	Vertically Integrated	12/20/2002	58 9	NA	NA	NA	NA
North Carolina	Virginia Electric & Power Co	D	D-E-22.SB412	Electric	Vertically Integrated	5/13/2004	10 8	8 57	11 80	50 39	501 20
Michigan	Upper Peninsula Power Co	C-U-14410	D-05-UR-101 (elec 2004)	Electric	Vertically Integrated	2/4/2005	5 7	8 28	12 00	47 39	100 80
Oklahoma	Public Service Co of OK	AEP	Ca-PUD-200300076	Electric	Vertically Integrated	10/31/2003	40 9	9 43	12 00	48 45	1,060 60
Wisconsin	Wisconsin Electric Power Co	WEC	D-05-UR-101 (elec 2004)	Electric	Vertically Integrated	5/10/2004	84 8	NA	NA	NA	NA
Idaho	PacificCorp	BRK A	C-PAC-E-05-1	Electric	Vertically Integrated	1/14/2005	16 9	8 66	11 13	47 80	407 80
Kansas	Empire District Electric Co	AQN	D-05-EPDE-980-RTS	Electric	Vertically Integrated	4/29/2005	4 2	8 14	11 50	42 44	50 90
Massachusetts	NSTAR Electric Co	ES	DTE-05-85 (elec)	Electric	Distribution	12/6/2005	87 4	NA	NA	NA	NA
Wisconsin	Wisconsin Electric Power Co	WEC	D-05-UR-102 (WEP-EL)	Electric	Vertically Integrated	7/1/2005	256 4	NA	NA	NA	NA
Missouri	Evergy Missouin West	EVRG	C-ER-2005-0436 (MPS)	Electric	Vertically Integrated	5/24/2005	67 3	9 01	11 50	48 20	833 60
Missouri	Evergy Missouin West	EVRG	C-ER-2005-0436 (L&P)	Electric	Vertically Integrated	5/24/2005	7 0	9 67	11 50	48 20	187 60
Kentucky	Kentucky Power Co	AEP	C-2005-00341	Electric	Vertically Integrated	9/26/2005	64 8	7 84	11 50	39 54	858 40
Wyoming	PacificCorp	BRK A	D-20000-230-ER-05	Electric	Vertically Integrated	10/14/2005	40 2	8 74	11 00	50 80	976 20
Idaho	Idaho Power Co	IDA	C-IPCC-E-05-28	Electric	Vertically Integrated	10/28/2005	43 9	8 42	11 25	49 48	1,654 30
Michigan	DTE Electric Co	DTE	C-U-14836	Electric	Vertically Integrated	3/23/2006	45 3	7 36	11 25	41 59	7,906 80
Texas	CenterPoint Energy Houston	CNP	D-32093	Electric	Distribution	4/14/2006	93 3	8 97	11 25	50 00	3,417 10
Pennsylvania	Duquesne Light Co	C-R-00061346	D-06-KCPE-928-RTS	Electric	Distribution	4/7/2006	163 0	NA	11 75	48 00	1,200 00
Kansas	Evergy Metro Inc	EVRG	D-06-KCPE-928-RTS	Electric	Vertically Integrated	1/31/2006	42 3	9 01	11 50	53 81	1,015 00
Massachusetts	Western Massachusetts Electric	ES	DTE-06-55	Electric	Distribution	10/20/2006	4 0	NA	NA	NA	NA
Kentucky	Duke Energy Kentucky Inc	DUK	C-2006-00172	Electric	Vertically Integrated	5/31/2006	66 6	8 26	11 50	50 88	591 10
South Dakota	Black Hills Power Inc	BKH	D-EL06-019	Electric	Vertically Integrated	6/30/2006	9 6	9 83	11 75	54 26	286 04
Texas	AEP Texas North Co	AEP	D-33310	Electric	Distribution	11/9/2006	25 0	7 97	11 25	40 00	459 90
New Mexico	El Paso Electric Co	C-06-00258-UT	D-07-KCPE-905-RTS	Electric	Vertically Integrated	6/30/2006	31 7	8 35	11 00	49 10	300 00
Texas	Southwestern Public Service Co	XEL	D-32766	Electric	Vertically Integrated	5/31/2006	66 3	9 15	11 60	51 13	968 56
Kansas	Evergy Metro Inc	EVRG	D-07-KCPE-905-RTS	Electric	Vertically Integrated	3/1/2007	47 1	8 83	11 25	53 43	1,107 82
Pennsylvania	PPL Electric Utilities Corp	PPL	C-R-00072155	Electric	Distribution	3/29/2007	83 6	8 36	11 50	43 13	2,024 00
Idaho	Idaho Power Co	IDA	C-IPCC-E-07-08	Electric	Vertically Integrated	6/8/2007	63 9	8 56	11 50	50 26	1,893 00
Texas	Oncor Electric Delivery Co	SRE	D-34040	Electric	Distribution	8/28/2007	318 0	8 55	10 75	44 15	6,880 00
Montana	NorthWestern Corp	NWE	D-20007 7 82 (elec)	Electric	Distribution	7/31/2007	31 4	8 98	12 00	51 46	667 44
Washington	PacificCorp	BRK A	D-UE-08-0220	Electric	Vertically Integrated	2/6/2008	35 0	8 47	10 75	50 10	624 90
Wisconsin	Wisconsin Power and Light Co	WEC	D-08-00171-UT	Electric	Vertically Integrated	2/22/2008	93 4	10 08	10 80	55 40	1,356 80
Wisconsin	Wisconsin Public Service Corp	WEC	D-6690-2-119 (elec)	Electric	Vertically Integrated	4/1/2008	86 4	9 29	10 80	58 11	1,241 90
Kansas	Evergy Kansas Central Inc	EVRG	D-08-WSEE-1041-RTS (WR)	Electric	Vertically Integrated	5/28/2008	90 0	8 68	10 95	48 46	1,641 05
Kansas	Evergy Kansas South	EVRG	D-08-WSEE-1041-RTS (KG&E)	Electric	Vertically Integrated	5/28/2008	87 6	8 69	10 95	48 46	1,517 29
Kentucky	Kentucky Utilities Co	PPL	C-2008-00251	Electric	Vertically Integrated	7/29/2008	22 2	7 77	11 25	52 63	2,216 90
Kentucky	Louisville Gas & Electric Co	PPL	C-2008-00252 (elec)	Electric	Vertically Integrated	7/29/2008	15 1	8 30	11 25	52 48	1,795 20
Texas	Entergy Texas Inc	ETR	D-34800	Electric	Vertically Integrated	9/26/2007	107 5	8 67	11 00	48 69	1,746 14
Idaho	PacificCorp	BRK A	C-PAC-E-09-07	Electric	Vertically Integrated	9/19/2008	19 4	8 49	10 75	50 40	565 41
Wyoming	PacificCorp	BRK A	D-20000-333-ER-08	Electric	Vertically Integrated	7/24/2008	28 7	8 53	10 75	51 90	1,489 96
Colorado	Public Service Co of CO	XEL	D-08S-520E	Electric	Vertically Integrated	11/14/2008	159 3	9 01	11 00	58 08	4,122 19
Texas	Southwestern Public Service Co	XEL	D-35763	Electric	Vertically Integrated	6/12/2008	94 4	8 85	11 25	51 01	989 40
Missouri	Evergy Metro Inc	EVRG	C-ER-2009-0089	Electric	Vertically Integrated	9/5/2008	101 5	8 69	10 75	53 82	1,501 35
Missouri	Evergy Missouin West	EVRG	C-ER-2009-0090 (L&P)	Electric	Vertically Integrated	9/5/2008	17 1	9 29	10 75	53 82	305 03
Missouri	Evergy Missouin West	EVRG	C-ER-2009-0090 (MPS)	Electric	Vertically Integrated	9/5/2008	66 0	8 93	10 75	53 82	1,202 23
Kansas	Evergy Metro Inc	EVRG	D-09-KCPE-246-RTS	Electric	Vertically Integrated	9/5/2008	71 6	8 75	10 75	55 39	1,254 15
New Mexico	Southwestern Public Service Co	XEL	C-08-00354-UT	Electric	Vertically Integrated	12/18/2008	24 6	9 50	12 00	50 00	321 00
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD200800398	Electric	Vertically Integrated	2/27/2009	110 3	9 64	12 25	54 14	2,862 74
New Mexico	El Paso Electric Co	C-08-00171-UT	C-08-00171-UT	Electric	Vertically Integrated	5/29/2009	12 7	9 06	11 50	49 35	339 27
Washington	DUE-000205	BRK A	D-UE-000205	Electric	Vertically Integrated	2/9/2009	38 5	8 51	11 00	50 19	737 86
South Dakota	Northern States Power Co	XEL	D-EL09-009	Electric	Vertically Integrated	6/30/2009	18 6	9 02	11 25	51 63	282 64
Texas	Southwestern Electric Power Co	AEP	D-37364	Electric	Vertically Integrated	8/28/2009	81 9	8 78	11 50	50 65	668 74
Wyoming	PacificCorp	BRK A	D-20000-352-ER-09	Electric	Vertically Integrated	10/2/2009	62 0	8 63	11 00	52 80	1,724 57
Kansas	Empire District Electric Co	AQN	D-10-EPDE-314-RTS	Electric	Vertically Integrated	11/4/2009	5 2	8 80	11 30	48 29	69 18
West Virginia	Monongahela Power Co	FE	C-09-1352-E-42T	Electric	Vertically Integrated	8/13/2009	122 1	9 31	12 25	41 60	1,545 48
South Dakota	Black Hills Power Inc	BKH	D-EL09-018	Electric	Vertically Integrated	9/29/2009	38 8	9 27	11 50	52 00	393 43
Kentucky	Kentucky Utilities Co	PPL	C-2009-00548	Electric	Vertically Integrated	1/29/2010	135 3	8 32	11 50	53 85	3,054 54
Kentucky	Louisville Gas & Electric Co	PPL	C-2009-00549 (elec)	Electric	Vertically Integrated	1/29/2010	94 6	8 32	11 50	53 86	1,805 79
Texas	El Paso Electric Co	D-37690	D-37690	Electric	Vertically Integrated	12/9/2009	50 8	9 22	11 35	51 27	969 24
Missouri	Empire District Electric Co	AQN	C-ER-2010-0130	Electric	Vertically Integrated	10/29/2009	68 2	8 93	11 00	48 00	1,077 38
Idaho	Avista Corp	AVA	C-AVU-E-10-01	Electric	Vertically Integrated	3/23/2010	32 1	8 55	10 90	50 00	607 96
Pennsylvania	PECO Energy Co	EXC	D-R-2010-2161575	Electric	Distribution	3/31/2010	316 4	8 95	11 75	53 18	2,336 00
Pennsylvania	PPL Electric Utilities Corp	PPL	D-R-2010-2161694	Electric	Distribution	3/31/2010	114 7	9 11	11 75	48 37	2,244 96
Pennsylvania	Duquesne Light Co	D-R-2010-2179522	D-R-2010-2179522	Electric	Distribution	7/23/2010	87 3	8 78	11 25	52 42	1,439 93
Texas	Southwestern Public Service Co	XEL	D-38147	Electric	Vertically Integrated	5/17/2010	55 4	9 24	11 35	51 00	941 08
California	Pacific Gas and Electric Co	PG&E	AP-08-12-020 (elec)	Electric	Vertically Integrated	12/21/2009	856 0	NA	NA	NA	14,783 00
Missouri	Empire District Electric Co	AQN	C-ER-2011-0004	Electric	Vertically Integrated	9/28/2010	36 6	8 92	10 80	50 95	1,067 81
Maryland	Delmarva Power & Light Co	EXC	D-12-012-046	Electric	Distribution	12/21/2010	9 3	8 08	10 75	49 81	344 57
Montana	MDU Resources Group	MDU	D-D2010 8 82	Electric	Vertically Integrated	8/11/2010	4 9	8 78	11 00	51 15	87 25
Idaho	Avista Corp	AVA	C-AVU-E-11-01	Electric	Vertically Integrated	7/5/2011	9 0	8 49	10 90	50 15	627 00
Wisconsin	Wisconsin Electric Power Co	WEC	D-5-UR-105 (WEP-EL)	Electric	Vertically Integrated	5/26/2011	0 0	NA	NA	NA	NA
Washington	Avista Corp	AVA	D-UE-110876	Electric	Vertically Integrated	5/16/2011	38 3	8 23	10 90	48 04	1,127 81
Texas	Southwestern Electric Power Co	AEP	D-39708	Electric	Vertically Integrated	8/31/2011	60 3	8 21	10 33	49 70	372 90
New Mexico	Southwestern Public Service Co	XEL	C-10-00395-UT	Electric	Vertically Integrated	2/28/2011	19 9	9 04	11 25	51 11	390 28
Idaho	Idaho Power Co	IDA	C-IPCC-E-11-08	Electric	Vertically Integrated	6/1/2011	82 6	8 17	10 50	51 20	2,355 91
Illinois	Ameren Illinois	AEE	D-11-0279 (elec)	Electric	Distribution	2/18/2011	39 0	9 44	11 00	52 87	2,012 81
Idaho	PacificCorp	BRK A	C-PAC-E-11-12	Electric	Vertically Integrated	5/27/2011	32 7	8 25	10 50	52 30	745 70
Florida	Duke Energy Florida LLC	DUK	D-120022-EI	Electric	Vertically Integrated	1/20/2012	150 0	NA	NA	NA	NA
Washington	PacificCorp	BRK A	D-UE-111190	Electric	Vertically Integrated	7/1/2011	12 9	7 74	NA	NA	750 50
Kansas	Evergy Kansas Central Inc	EVRG	D-12-WSEE-112-RTS	Electric	Vertically Integrated	8/25/2011	90 8	8 68	10 60	51 62	3,399 27
Texas	El Paso Electric Co	D-40094	D-40094	Electric	Vertically Integrated	2/1/2012	26 3	8 94	10 80	53 38	1,126 22
California	Southern California Edison Co	EIX	AP-10-11-015	Electric	Vertically Integrated	11/23/2010	809 0	NA	NA	NA	16,224 21
Missouri	Empire District Electric Co	AQN	C-ER-2012-0345	Electric	Vertically Integrated	7/6/2012	30 7	8 32	10 60	51 00	1,005 67
Hawaii	Hawaii Electric Light Co	HE	D-2012-0099	Electric	Vertically Integrated	8/16/2012	19 9	8 30	10 25	57 05	455 00
South Dakota	Northern States Power Co	XEL	D-EL12-046	Electric	Vertically Integrated	8/29/2012	19 4	8 51	10 65	52 89	367 51
California	San Diego Gas & Electric Co	SRE	AP-10-12-005 (elec)	Electric	Vertically Integrated	12/15/2010	201 8	NA	NA	NA	3,743 25
Texas	Southwestern Public Service Co	XEL	D-40824	Electric	Vertically Integrated	11/15/2012	90 2	8 62	10 65	52 00	1,150 58
Wisconsin	Madison Gas and Electric Co	MG&E	D-3270-UR-119 (Elec)	Electric	Vertically Integrated	4/15/2013	0 0	NA	NA	NA	NA
Maryland	Delmarva Power & Light Co	EXC	C-9317	Electric	Distribution	3/29/2013	22 6	7 67	10 25	49 58	507 86
South Dakota	Black Hills Power Inc	BKH	D-EL12-061	Electric	Vertically Integrated	12/17/2012	13 7	8 54	10 25	53 17	438 29
Idaho	PacificCorp	BRK A	C-PAC-E-13-04	Electric	Vertically Integrated	6/3/2013	2 0	NA	NA	NA	NA
Kentucky	Kentucky Power Co	AEP	C-2013-00197	Electric	Vertically Integrated	6/28/2013	114 0	8 08	10 65		

South Dakota	Northern States Power Co	XEL	D-EL14-058	Electrnc	Vertically Integrated	6/23/2014	24	6	7	84	10	25	53	86	433	24
Kentucky	Kentucky Power Co	AEP	C-2014-00396	Electrnc	Vertically Integrated	12/23/2014	(4)	7	71	10	62	45	19	1,147	48	
Missouri	Empire District Electric Co	AON	C-ER-2014-0351	Electrnc	Vertically Integrated	8/29/2014	24	3	74	10	15	51	45	1,164	92	
New Mexico	Southwestern Public Service Co	XEL	C-15-00139-UT	Electrnc	Vertically Integrated	6/8/2015	31	5	81	10	25	53	97	777	86	
Kentucky	Kentucky Utilities Co	PPL	C-2014-00371	Electrnc	Vertically Integrated	11/26/2014	153	4	73	10	50	53	02	3,568	97	
Kentucky	Louisville Gas & Electric Co	PPL	C-2014-00372 (elec)	Electrnc	Vertically Integrated	11/26/2014	30	3	76	10	50	52	75	2,146	05	
Texas	Entergy Texas Inc	ETR	D-44704	Electrnc	Vertically Integrated	6/12/2015	75	9	83	10	20	50	08	2,004	59	
Kansas	Evergy Kansas Central Inc	EVRG	D-15-WSEE-115-RTS	Electrnc	Vertically Integrated	3/2/2015	250	9	79	10	00	53	12	5,062	80	
South Dakota	NorthWestern Corp	NWE	D-EL14-106	Electrnc	Vertically Integrated	12/19/2014	26	5	76	10	00	53	61	447	40	
California	Southern California Edison Co	EIX	A-13-11-003	Electrnc	Vertically Integrated	11/12/2013	(120)	9	NA	NA	NA	NA	NA	18,176	82	
Pennsylvania	PPL Electric Utilities Corp	PPL	D-R-2015-2489275	Electrnc	Distribution	3/31/2015	167	5	81	10	95	51	68	3,156	00	
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00027	Electrnc	Vertically Integrated	3/31/2015	0	0	NA	NA	NA	NA	NA	8,921	00	
Tennessee	Kingsport Power Company	AEP	D-15-00093	Electrnc	Vertically Integrated	9/28/2015	12	1	69	10	86	42	43	71	50	
Pennsylvania	PECO Energy Co	EXC	D-R-2015-2468981	Electrnc	Distribution	3/27/2015	190	1	81	10	95	53	36	4,103	61	
Virginia	Kentucky Utilities Co	PPL	C-PUE-2015-00063	Electrnc	Vertically Integrated	6/30/2015	7	2	75	10	50	54	07	222	18	
Montana	MDU Resources Group	MDU	D-D2015 6 51	Electrnc	Vertically Integrated	6/25/2015	11	8	79	10	00	49	52	174	96	
California	San Diego Gas & Electric Co	SRE	A-14-11-003 (Elec)	Electrnc	Vertically Integrated	11/14/2014	91	9	NA	NA	NA	NA	NA	4,606	77	
Missouri	Empire District Electric Co	AON	C-ER-2016-0023	Electrnc	Vertically Integrated	10/16/2015	33	4	78	9	90	49	01	1,368	11	
New Mexico	Southwestern Public Service Co	XEL	C-15-00296-UT	Electrnc	Vertically Integrated	10/16/2015	45	4	81	17	10	25	53	97	734	14
Texas	El Paso Electric Co	D	D-44941	Electrnc	Vertically Integrated	8/10/2015	63	3	80	10	10	49	52	1	467	75
Missouri	Evergy Missouri West	EVRG	C-ER-2016-0156 (MPS/L&P)	Electrnc	Vertically Integrated	2/23/2016	53	3	77	9	90	54	83	1,906	00	
Wisconsin	Northern States Power Co	XEL	D-4220-UR-122 (Elec)	Electrnc	Vertically Integrated	4/1/2016	28	3	NA	NA	NA	NA	NA	1	188	00
Arkansas	Entergy Arkansas LLC	ETR	D-16-036-FR	Electrnc	Vertically Integrated	7/22/2016	67	7	42	NA	NA	30	79	6,623	46	
Washington	Avista Corp	AVA	D-UE-160228	Electrnc	Vertically Integrated	2/19/2016	48	9	74	9	90	48	50	1	484	59
Texas	Lone Star Transmission LLC	NEE	D-46585	Electrnc	Transmission	11/16/2016	(6)	0	NA	NA	NA	NA	NA	NA	NA	
Hawaii	Hawaiian Electric Co	HE	D-2013-0373	Electrnc	Vertically Integrated	6/27/2014	0	0	84	10	75	56	94	1,851	91	
Kansas	Empire District Electric Co	AON	D-17-EPDE-101-RTS	Electrnc	Vertically Integrated	9/18/2016	84	7	55	10	10	49	69	81	40	
Texas	Cross Texas Transmission	D	D-46481	Electrnc	Transmission	12/6/2016	(6)	5	NA	NA	NA	NA	NA	NA	NA	
Pennsylvania	Metropolitan Edison Co	FE	D-R-2016-2537349	Electrnc	Distribution	4/28/2016	140	2	84	10	90	51	20	1,405	99	
Pennsylvania	Pennsylvania Electric Co	FE	D-R-2016-2537352	Electrnc	Distribution	4/28/2016	158	8	58	11	30	52	60	1,631	19	
Pennsylvania	Pennsylvania Power Co	FE	D-R-2016-2537355	Electrnc	Distribution	4/28/2016	42	0	80	11	50	50	10	413	52	
Pennsylvania	West Penn Power Co	FE	D-R-2016-2537359	Electrnc	Distribution	4/28/2016	98	2	90	10	90	50	30	1,674	22	
Texas	Southwestern Public Service Co	XEL	D-45524	Electrnc	Vertically Integrated	2/16/2016	61	5	82	10	25	53	97	1	674	04
Indiana	AES Indiana	AES	Ca-44893	Electrnc	Vertically Integrated	12/22/2016	91	7	68	10	40	39	55	3,041	40	
Missouri	Union Electric Co	AEE	C-ER-2016-0179	Electrnc	Vertically Integrated	7/1/2016	206	4	71	9	90	51	80	7	195	26
New Mexico	Southwestern Public Service Co	XEL	C-16-00269-UT	Electrnc	Vertically Integrated	11/1/2016	41	4	78	10	10	53	97	832	17	
California	Pacific Gas and Electric Co	PG&E	A-15-09-001 (Elec)	Electrnc	Vertically Integrated	9/1/2015	260	0	NA	NA	NA	NA	NA	19,300	96	
Kansas	Evergy Metro Inc	EVRG	D-17-KCPE-201-RTS	Electrnc	Vertically Integrated	11/9/2016	(2)	8	NA	NA	NA	NA	NA	2,104	63	
Kansas	Evergy Kansas Central Inc	EVRG	D-17-WSEE-147-RTS	Electrnc	Vertically Integrated	10/26/2016	16	4	NA	NA	NA	NA	NA	NA	NA	
Hawaii	Mau Electric Company Ltd	HE	D-2014-0318	Electrnc	Vertically Integrated	12/30/2014	0	0	82	10	75	57	43	460	07	
Wisconsin	Wisconsin Electric Power Co	WEC	D-5-UR-108 (WEP-Elec)	Electrnc	Vertically Integrated	4/4/2017	0	0	NA	NA	NA	NA	NA	NA	NA	
Wisconsin	Wisconsin Public Service Corp	WEC	D-6890-UR-125 (Elec)	Electrnc	Vertically Integrated	4/4/2017	0	0	NA	NA	NA	NA	NA	NA	NA	
Texas	Shariland Utilities L L C	SRE	D-45414	Electrnc	Distribution	4/29/2016	1	4	74	10	00	45	00	335	24	
Florida	Duke Energy Florida LLC	DUK	D-20170183-EI	Electrnc	Vertically Integrated	9/29/2017	200	0	NA	NA	NA	NA	NA	NA	NA	
Arkansas	Entergy Arkansas LLC	ETR	D-16-036-FR (2017 Review)	Electrnc	Vertically Integrated	7/7/2017	129	4	64	NA	NA	31	62	7,094	57	
Maryland	Delmara Power & Light Co	EXC	C-9455	Electrnc	Distribution	7/14/2017	19	3	75	10	10	50	68	740	92	
Colorado	Public Service Co of CO	XEL	D-17AL-0649E	Electrnc	Vertically Integrated	10/3/2017	377	9	75	10	00	55	25	7,396	06	
Virginia	Kentucky Utilities Co	PPL	C-PUR-2017-00106	Electrnc	Vertically Integrated	9/29/2017	6	7	47	10	42	53	85	214	08	
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD201700496	Electrnc	Vertically Integrated	1/16/2018	1	9	76	9	90	53	34	4,583	07	
New Jersey	Atlantic City Electric Co	EXC	D-ER18060638	Electrnc	Distribution	6/15/2018	99	7	46	10	10	50	26	1,536	40	
Missouri	Evergy Metro Inc	EVRG	C-ER-2018-0145	Electrnc	Vertically Integrated	1/30/2018	16	4	74	9	85	50	03	2,626	77	
Missouri	Evergy Missouri West	EVRG	C-ER-2018-0146	Electrnc	Vertically Integrated	1/30/2018	19	3	76	9	85	54	40	1,907	88	
Texas	Southwestern Public Service Co	XEL	D-47527	Electrnc	Vertically Integrated	8/21/2017	32	0	79	10	25	58	00	1,882	88	
Arkansas	Entergy Arkansas LLC	ETR	16-036-FR (2018 Review)	Electrnc	Vertically Integrated	7/6/2018	189	7	56	NA	NA	36	73	7,546	59	
Pennsylvania	Duquesne Light Co	D	D-R-2018-3000124	Electrnc	Distribution	3/28/2018	133	8	06	10	95	54	51	1,926	26	
Pennsylvania	PECO Energy Co	EXC	D-R-2018-3000164	Electrnc	Distribution	3/29/2018	81	9	79	10	95	53	39	4,846	19	
Texas	Entergy Texas Inc	ETR	D-48371	Electrnc	Vertically Integrated	5/15/2018	117	5	82	10	65	50	90	2,571	70	
Massachusetts	NSTAR Electric Co	ES	DPU 18-101	Electrnc	Distribution	9/19/2018	4	8	NA	NA	NA	NA	NA	NA	NA	
Texas	Wind Energy Transmission Texas	D	D-48874	Electrnc	Transmission	11/13/2018	(16)	0	NA	NA	NA	NA	NA	NA	NA	
Washington	Puget Sound Energy Inc	OGE	D-UE-180899	Electrnc	Vertically Integrated	11/7/2018	18	9	NA	NA	NA	NA	NA	5,101	92	
Arkansas	Oklahoma Gas and Electric Co	OGE	D-18-046-FR	Electrnc	Vertically Integrated	10/1/2018	5	8	57	NA	NA	37	31	617	46	
Massachusetts	Verant Power	D	D-2018-00019	Electrnc	Distribution	3/22/2019	157	7	86	10	30	50	00	341	28	
California	Southern California Edison Co	EIX	A-16-09-001	Electrnc	Vertically Integrated	9/1/2016	(106)	0	78	1	NA	NA	NA	22,939	28	
Montana	MDU Resources Group	MDU	D2018 9 60	Electrnc	Vertically Integrated	9/28/2018	11	9	74	10	30	50	45	211	27	
Kansas	Empire District Electric Co	AON	D-19-EPDE-223-RTS	Electrnc	Vertically Integrated	12/10/2018	1	7	54	10	20	51	65	63	77	
Oklahoma	Oklahoma Gas and Electric Co	OGE	Ca-PUD201800140	Electrnc	Vertically Integrated	12/31/2018	77	6	72	9	90	53	34	5,254	15	
California	San Diego Gas & Electric Co	SRE	A-17-10-007 (Elec)	Electrnc	Vertically Integrated	10/6/2017	111	5	NA	NA	NA	NA	NA	5,303	72	
Arkansas	Entergy Arkansas LLC	ETR	D-16-036-FR (2019 review)	Electrnc	Vertically Integrated	7/5/2019	15	3	52	NA	NA	36	53	7,960	90	
Massachusetts	NSTAR Electric Co	ES	DPU 19-115	Electrnc	Distribution	9/16/2019	33	6	NA	NA	NA	NA	NA	NA	NA	
Arkansas	Oklahoma Gas and Electric Co	OGE	D-18-046-FR (2019 update)	Electrnc	Vertically Integrated	10/1/2019	5	4	53	NA	NA	37	92	641	19	
Mississippi	Mississippi Power Co	SO	D-2019-UN-0219	Electrnc	Vertically Integrated	11/26/2019	(5)	8	73	10	30	53	10	2,362	14	
Missouri	Union Electric Co	AEE	C-ER-2019-0335	Electrnc	Vertically Integrated	7/5/2019	(0)	8	76	9	85	51	91	7,977	97	
Virginia	Kentucky Utilities Co	PPL	C-PUR-2019-00060	Electrnc	Vertically Integrated	7/12/2019	12	7	57	10	50	54	04	253	87	
Minnesota	Northern States Power Co	XEL	D-E-002/GR-19-564	Electrnc	Vertically Integrated	11/1/2019	466	1	74	10	20	52	50	9,805	74	
Massachusetts	Massachusetts Electric Co	NG	DPU-20-68	Electrnc	Distribution	6/15/2020	46	1	NA	NA	NA	NA	NA	NA	NA	
Texas	Lone Star Transmission LLC	NEE	D-51206	Electrnc	Transmission	8/21/2020	(5)	3	NA	NA	NA	NA	NA	NA	NA	
Missouri	Empire District Electric Co	PCG	C-ER-2020-0396	Electrnc	Vertically Integrated	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
California	Pacific Gas and Electric Co	PG&E	D-18-12-009 (Elec)	Electrnc	Vertically Integrated	12/13/2018	924	0	NA	NA	NA	NA	NA	22,508	24	
Arkansas	Entergy Arkansas LLC	ETR	D-16-036-FR (2020 review)	Electrnc	Vertically Integrated	7/7/2020	72	6	51	NA	NA	37	37	8,381	16	
Minnesota	Minnesota Power Entprns Inc	ALE	D-E-015/GR-19-442	Electrnc	Vertically Integrated	11/11/2019	65	9	74	10	05	53	81	2,072	02	
Massachusetts	NSTAR Electric Co	ES	DPU 20-96	Electrnc	Distribution	9/15/2020	29	9	NA	NA	NA	NA	NA	NA	NA	
Texas	Cross Texas Transmission	D	D-51534	Electrnc	Transmission	11/19/2020	(8)	9	NA	NA	NA	NA	NA	NA	NA	
Texas	Electric Transmission Texas	D	D-51583	Electrnc	Transmission	12/9/2020	(8)	3	NA	NA	NA	NA	NA	NA	NA	
California	Southern California Edison Co	EIX	A-19-08-013 (Track 2)	Electrnc	Vertically Integrated	9/25/2020	482	0	NA	NA	NA	NA	NA	NA	NA	
Arkansas	Oklahoma Gas and Electric Co	OGE	D-18-046-FR (2020 update)	Electrnc	Vertically Integrated	10/1/2020	6	7	53	NA	NA	37	92	673	05	

Limited Issue Riders

Virginia	Appalachian Power Co	AEP	C-PUE-2005-00056 (Rider)	Electric	Limited-Issue Rider	7/1/2005	62	1	78	10	85	42	65	NA	
Virginia	Appalachian Power Co	AEP	C-PUE-2007-00069 (Rider)	Electric	Limited-Issue Rider	7/16/2007	38	2	81	12	00	44	28	NA	
Virginia	Virginia Electric & Power Co	D	C-PUE-2007-00066 (Rider S)	Electric	Limited-Issue Rider	7/13/2007	83	3	89	13	75	48	88	532	30
Idaho	Idaho Power Co	IDA	IPC-E-08-01	Electric	Limited-Issue Rider	3/7/2008	9	0	10		NA	NA	NA		
Virginia	Appalachian Power Co	AEP	PUE-2008-00045 (Rider)	Electric	Limited-Issue Rider	5/30/2008	17	6	83	11	75	41	29	648	80
Virginia	Appalachian Power Co	AEP	C-PUE-2009-00039 (Rider)	Electric	Limited-Issue Rider	5/15/2008	41	6	81	12	50	41	61	870	70
Idaho	Idaho Power Co	IDA	C-IPC-E-09-07	Electric	Limited-Issue Rider	3/13/2009	11	2	81	10	50	49	27	NA	
Oregon	Portland General Electric Co	POR	D-UE-204	Electric	Limited-Issue Rider	10/24/2008	12	9	NA		NA	NA	NA		
Virginia	Virginia Electric & Power Co	D	C-PUE-2009-00011 (Rider S)	Electric	Limited-Issue Rider	3/31/2009	99	2	10	41	14	50	52	06	1,154
Virginia	Virginia Electric & Power Co	D	C-PUE-2009-00017 (Rider R)	Electric	Limited-Issue Rider	3/31/2009	77	3	10	41	14	50	52	06	418
Utah	PacificCorp	BRK A	D-10-035-13	Electric	Limited-Issue Rider	2/1/2010	33	7	84	11	00	51	00	21	32
South Carolina	Dominion Energy South Carolina	D	D-2010-157-E	Electric	Limited-Issue Rider	5/28/2010	54	6	80	11	00	53	36	462	00
Utah	PacificCorp	BRK A	D-10-035-89	Electric	Limited-Issue Rider	8/3/2010	39	0	84	10	60	51	00	312	85
Georgia	Georgia Power Co	SO	D-32539	Electric	Limited-Issue Rider	9/3/2010	218	0	NA		NA	NA	NA		
Virginia	Virginia Electric & Power Co	D	C-PUE-2010-00054 (Rider S)	Electric	Limited-Issue Rider	6/25/2010	45	9	87	12	30	49	37	1,401	57
Virginia	Virginia Electric & Power Co	D	C-PUE-2010-00055 (Rider R)	Electric	Limited-Issue Rider	6/25/2010	13	9	87	12	30	49	37	449	18
South Carolina	Dominion Energy South Carolina	D	D-2011-207-E	Electric	Limited-Issue Rider	5/27/2011	58	5	85	NA		54	48	484	70
Virginia	Appalachian Power Co	AEP	PUE-2011-00035 (E-RAC)	Electric	Limited-Issue Rider	3/31/2011	38	5	NA		NA	NA		633	65
Georgia	Georgia Power Co	SO	D-32539 (2012 Update)	Electric	Limited-Issue Rider	11/1/2011	35	6	NA		NA	NA			
Virginia	Appalachian Power Co	AEP	C-PUE-2011-00036 (G-RAC)	Electric	Limited-Issue Rider	3/31/2011	26	9	86	12	15	42	59	156	27
Virginia	Virginia Electric & Power Co	D	C-PUE-2011-00042 (Rider W)	Electric	Limited-Issue Rider	5/2/2011	64	8	77	11	40	53	01	281	02
Virginia	Virginia Electric & Power Co	D	C-PUE-2011-00073 (Rider B)	Electric	Limited-Issue Rider	6/27/2011	64	0	83	12	40	53	25	42	94
Montana	NorthWestern power	NWE	D-CUE-2011-00066 (Rider R)	Electric	Limited-Issue Rider	6/27/2011	2	9	80	13	50	53	25	395	27
Virginia	Virginia Electric & Power Co	D	D-2008 8 95	Electric	Limited-Issue Rider	8/25/2008	39	1	NA		NA	NA		172	68
Montana	NorthWestern power	NWE	D-CUE-2011-00067 (Rider S)	Electric	Limited-Issue Rider	6/27/2011	50	1	90	13	50	53	25	1,328	90
Mississippi	Mississippi Power Co	SO	D-2011-UN-0135	Electric	Limited-Issue Rider	11/15/2011	58	6	74	10	43	47	51	863	51
Idaho	Idaho Power Co	IDA	C-IPC-E-12-14	Electric	Limited-Issue Rider	3/2/2012	59	9	NA		NA	NA		336	70
Oregon	Idaho Power Co	IDA	D-UE-248	Electric	Limited-Issue Rider	3/9/2012	3	0	NA		NA	NA		15	29
South Carolina	Dominion Energy South Carolina	D	D-2012-186-E	Electric	Limited-Issue Rider	5/30/2012	56	7	84	NA		54	11	1,594	74
Georgia	Georgia Power Co	SO	D-32539 (2013 Update)	Electric	Limited-Issue Rider	11/1/2012	50	2	NA		NA	NA		NA	
Virginia	Appalachian Power Co	AEP	PUE-2012-00036 (G-RAC)	Electric	Limited-Issue Rider	3/30/2012	1	9	818	11	40	44	28	167	39

Virginia	Virginia Electric & Power Co	D	C-PUE-2012-00068 (Rider R)	Electric	Limited-Issue Rider	6/1/2012	6 6	8 36	11 40	52 81	379 70
Virginia	Virginia Electric & Power Co	D	C-PUE-2012-00067 (Rider W)	Electric	Limited-Issue Rider	6/1/2012	52 0	8 36	11 40	52 81	684 75
Virginia	Virginia Electric & Power Co	D	C-PUE-2012-00071 (Rider S)	Electric	Limited-Issue Rider	6/29/2012	2 7	8 36	11 40	52 81	1,221 89
Virginia	Virginia Electric & Power Co	D	C-PUE-2012-00072 (Rider B)	Electric	Limited-Issue Rider	6/29/2012	5 8	8 89	12 40	52 81	104 18
Virginia	Virginia Electric & Power Co	D	C-PUE-2012-00128 (Rider BW)	Electric	Limited-Issue Rider	11/2/2012	43 5	8 36	11 40	52 81	351 04
South Carolina	Dominion Energy South Carolina	D	D-2013-150-E	Electric	Limited-Issue Rider	5/30/2013	69 7	8 56	NA	53 68	2,126 94
West Virginia	Monongahela Power Co	FE	C-12-1571-E-PC (Rider)	Electric	Limited-Issue Rider	11/16/2012	192 9	7 51	10 50	45 00	1,115 79
Virginia	Appalachian Power Co	AEP	PUE-2013-00010 (E-RAC)	Electric	Limited-Issue Rider	3/29/2013	38 5	NA	NA	NA	845 78
Virginia	Appalachian Power Co	AEP	PUE-2013-00009 (G-Rider S)	Electric	Limited-Issue Rider	3/29/2013	11 9	7 88	11 40	44 28	159 08
Georgia	Georgia Power Co	SO	D-32539 (2014 Update)	Electric	Limited-Issue Rider	11/1/2013	64 9	NA	NA	NA	NA
Virginia	Virginia Electric & Power Co	D	C-PUE-2013-00065 (Rider W)	Electric	Limited-Issue Rider	5/31/2013	39 6	9 16	12 50	55 62	791 65
Virginia	Virginia Electric & Power Co	D	C-PUE-2013-00061 (Rider S)	Electric	Limited-Issue Rider	6/14/2013	39 2	9 16	12 50	55 62	1,266 29
Virginia	Virginia Electric & Power Co	D	C-PUE-2013-00060 (Rider B)	Electric	Limited-Issue Rider	6/14/2013	10 1	9 72	13 50	55 62	100 37
Virginia	Virginia Electric & Power Co	D	C-PUE-2013-00122 (Rider BW)	Electric	Limited-Issue Rider	11/1/2013	57 2	9 07	12 50	55 02	733 62
South Carolina	Dominion Energy South Carolina	D	D-2014-187-E	Electric	Limited-Issue Rider	5/30/2014	70 0	8 51	NA	53 29	2,701 22
Montana	NorthWestern Corp	NWE	D-D2013 12 85	Electric	Limited-Issue Rider	12/20/2013	121 0	7 14	10 00	48 00	838 80
District of Columbia	Potomac Electric Power Co	EXC	FC-1116	Electric	Limited-Issue Rider	6/17/2014	4 7	NA	NA	NA	NA
Indiana	Northern IN Public Svc Co	NI	Ca-44371-TDSIC-1	Electric	Limited-Issue Rider	8/28/2014	0 8	NA	NA	NA	19 70
Arizona	Arizona Public Service Co	PNW	D-E-01345A-11-0224 (Four Cnrs)	Electric	Limited-Issue Rider	12/30/2013	65 4	8 33	NA	NA	225 93
Georgia	Georgia Power Co	SO	D-32539 (2015 Update)	Electric	Limited-Issue Rider	10/31/2014	26 6	NA	NA	NA	NA
Virginia	Virginia Electric & Power Co	D	C-PUE-2014-00042 (Rider W)	Electric	Limited-Issue Rider	5/30/2014	36 9	7 88	11 00	52 03	NA
Virginia	Virginia Electric & Power Co	D	C-PUE-2014-00050 (Rider B)	Electric	Limited-Issue Rider	6/16/2014	(2) 2	NA	12 00	52 03	102 56
Virginia	Virginia Electric & Power Co	D	C-PUE-2014-00052 (Rider R)	Electric	Limited-Issue Rider	6/16/2014	13 5	7 88	11 00	52 03	372 41
Virginia	Virginia Electric & Power Co	D	C-PUE-2014-00051 (Rider S)	Electric	Limited-Issue Rider	6/16/2014	5 8	7 88	11 00	52 03	1,215 59
Virginia	Virginia Electric & Power Co	D	C-PUE-2014-00103 (Rider BW)	Electric	Limited-Issue Rider	10/31/2014	60 5	7 88	11 00	52 03	939 68
Mississippi	Mississippi Power Co	SO	D-2013-UN-0014	Electric	Limited-Issue Rider	1/25/2013	170 5	6 95	9 70	49 95	1,757 41
South Carolina	Dominion Energy South Carolina	D	D-2015-180-E	Electric	Limited-Issue Rider	5/29/2015	89 6	8 45	NA	52 46	3,267 49
Mississippi	Georgia Power Co	SO	D-2015-UN-0080	Electric	Limited-Issue Rider	5/15/2015	272 9	7 25	10 20	49 42	2,355 67
Georgia	Georgia Power Co	SO	D-32539 (2016 Update)	Electric	Limited-Issue Rider	10/30/2015	19 1	NA	NA	NA	NA
Idaho	PacificCorp	BRK A	C-PAC-E-15-09	Electric	Limited-Issue Rider	5/27/2015	10 2	NA	NA	NA	NA
North Dakota	MDU Resources Group	MDU	C-PU-15-703	Electric	Limited-Issue Rider	10/26/2015	15 4	8 74	10 75	50 27	135 86
Indiana	Northern IN Public Svc Co	NI	Ca-44371-TDSIC-2	Electric	Limited-Issue Rider	2/26/2015	2 1	NA	NA	NA	62 33
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00058 (Rider B)	Electric	Limited-Issue Rider	6/1/2015	21 3	8 10	12 00	49 99	126 62
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00059 (Rider R)	Electric	Limited-Issue Rider	6/1/2015	(7) 8	7 60	11 00	49 99	353 90
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00060 (Rider S)	Electric	Limited-Issue Rider	6/1/2015	11 5	7 60	11 00	49 99	1,211 59
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00061 (Rider W)	Electric	Limited-Issue Rider	6/1/2015	(15) 5	7 60	11 00	49 99	645 41
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00075 (Rider GV)	Electric	Limited-Issue Rider	7/1/2015	41 6	7 10	10 00	49 99	389 20
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00102 (Rider BW)	Electric	Limited-Issue Rider	10/1/2015	(23) 0	7 40	10 60	49 99	825 00
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00104 (Rider US-2)	Electric	Limited-Issue Rider	10/1/2015	12 0	7 10	10 00	49 99	86 16
West Virginia	Appalachian Power Co	AEP	C-16-0239-E-ENEC	Electric	Limited-Issue Rider	3/1/2016	108 3	NA	NA	NA	210 93
Virginia	Virginia Electric & Power Co	D	C-PUE-2015-00114 (Rider U)	Electric	Limited-Issue Rider	12/1/2015	24 3	7 10	10 00	49 99	120 94
Virginia	Appalachian Power Co	AEP	C-PUE-2016-00038	Electric	Limited-Issue Rider	3/31/2016	NA	NA	10 43	NA	NA
South Carolina	Dominion Energy South Carolina	D	D-2016-224-E	Electric	Limited-Issue Rider	6/27/2016	74 2	8 19	NA	51 18	3,878 38
West Virginia	Monongahela Power Co	FE	C-16-1121-E-ENEC	Electric	Limited-Issue Rider	9/16/2016	64 9	NA	NA	NA	NA
Georgia	Georgia Power Co	SO	D-32539 (2017 Update)	Electric	Limited-Issue Rider	11/1/2016	70 0	NA	NA	NA	NA
Virginia	Appalachian Power Co	AEP	Ca-44733-TDSIC-1	Electric	Limited-Issue Rider	3/31/2016	3 4	7 62	10 70	47 20	163 13
Indiana	Northern IN Public Svc Co	NI	Ca-44733-TDSIC-1	Electric	Limited-Issue Rider	6/30/2016	1 9	NA	NA	NA	45 54
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00059 (Rider B)	Electric	Limited-Issue Rider	6/1/2016	(1) 1	8 27	12 50	49 49	139 67
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00060 (Rider GV)	Electric	Limited-Issue Rider	6/1/2016	48 8	7 28	10 50	45 49	826 93
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00061 (Rider R)	Electric	Limited-Issue Rider	6/1/2016	0 9	7 78	11 50	49 49	354 98
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00062 (Rider S)	Electric	Limited-Issue Rider	6/1/2016	2 5	7 78	11 50	49 49	1,214 76
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00063 (Rider W)	Electric	Limited-Issue Rider	6/1/2016	6 3	7 78	11 50	49 49	649 07
Indiana	Duke Energy Indiana, LLC	DUK	Ca-44720-TDSIC-1	Electric	Limited-Issue Rider	10/24/2016	12 5	NA	NA	NA	17 97
Virginia	Appalachian Power Co	AEP	C-PUE-2016-00089 (RAC-EE)	Electric	Limited-Issue Rider	8/31/2016	5 1	NA	NA	NA	16 30
Idaho	Idaho Power Co	IDA	C-IPC-E-16-24	Electric	Limited-Issue Rider	10/21/2016	28 5	NA	9 50	NA	NA
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00111 (Rider DSM)	Electric	Limited-Issue Rider	10/3/2016	(2) 2	7 28	10 50	49 49	50 47
Virginia	Virginia Electric & Power Co	D	PUE-2016-00112 (Rider BW)	Electric	Limited-Issue Rider	10/3/2016	(11) 3	7 78	11 50	49 49	745 49
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00113 (Rider US-2)	Electric	Limited-Issue Rider	10/3/2016	4 9	7 28	10 50	49 49	77 75
Virginia	Appalachian Power Co	AEP	C-PUE-2016-00080 (VM-RAC)	Electric	Limited-Issue Rider	11/17/2016	13 8	6 97	NA	46 27	7 88
Virginia	Virginia Electric & Power Co	D	C-PUE-2016-00136 (Rider U)	Electric	Limited-Issue Rider	12/1/2016	9 7	7 28	10 50	49 49	157 75
Indiana	Duke Energy Indiana, LLC	DUK	Ca-44720-TDSIC-2	Electric	Limited-Issue Rider	4/25/2017	9 6	NA	NA	NA	62 69
Indiana	Northern IN Public Svc Co	NI	Ca-44733-TDSIC-2	Electric	Limited-Issue Rider	6/2/2017	14 6	NA	NA	NA	177 31
Indiana	Southern Indiana Gas & Elec Co	CNP	Ca-44910-TDSIC-1	Electric	Limited-Issue Rider	8/1/2017	1 6	NA	NA	NA	7 16
Mississippi	Mississippi Power Co	SO	D-2017-AD-0112	Electric	Limited-Issue Rider	7/6/2017	NA	NA	NA	NA	NA
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00072 (Rider R)	Electric	Limited-Issue Rider	6/1/2017	1 7	7 87	11 50	50 23	348 62
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00074 (Rider W)	Electric	Limited-Issue Rider	6/1/2017	(11) 5	7 21	10 20	50 23	612 63
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00073 (Rider S)	Electric	Limited-Issue Rider	6/1/2017	2 1	7 87	11 50	50 23	1,168 91
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00071 (Rider GV)	Electric	Limited-Issue Rider	6/1/2017	12 3	6 71	9 20	50 23	926 51
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00070 (Rider B)	Electric	Limited-Issue Rider	6/1/2017	14 9	8 37	12 50	50 23	145 74
Georgia	Georgia Power Co	SO	D-32539 (2018 Update)	Electric	Limited-Issue Rider	11/1/2017	(50) 0	NA	NA	NA	NA
Virginia	Appalachian Power Co	AEP	C-PUR-2017-00031 (Rider G)	Electric	Limited-Issue Rider	7/5/2017	NA	7 02	9 40	46 68	NA
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00129 (Rider DSM)	Electric	Limited-Issue Rider	10/3/2017	3 1	7 36	10 50	50 23	NA
Virginia	Appalachian Power Co	AEP	C-PUR-2017-00126 (RAC-EE)	Electric	Limited-Issue Rider	9/29/2017	2 2	NA	NA	NA	27 31
Indiana	Southern Indiana Gas & Elec Co	CNP	Ca-44910-TDSIC-2	Electric	Limited-Issue Rider	2/1/2018	1 9	NA	NA	NA	31 61
Indiana	Northern IN Public Svc Co	NI	Ca-44733-TDSIC-3	Electric	Limited-Issue Rider	1/30/2018	12 6	NA	NA	NA	250 43
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00128 (Rider BW)	Electric	Limited-Issue Rider	10/5/2017	5 3	7 87	11 50	50 23	699 93
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00127 (Rider US-2)	Electric	Limited-Issue Rider	10/3/2017	5 1	7 36	10 50	50 23	70 57
Florida	Duke Energy Florida LLC	DUK	D-20180084-EI	Electric	Limited-Issue Rider	4/2/2018	200 5	6 62	NA	45 52	1,373 82
West Virginia	Appalachian Power Co	AEP	D-19-0505-E-ENEC	Electric	Limited-Issue Rider	4/17/2018	94 6	NA	NA	NA	NA
West Virginia	Duke Energy Indiana, LLC	DUK	Ca-44720-TDSIC-4	Electric	Limited-Issue Rider	4/25/2018	14 3	NA	NA	NA	213 31
Indiana	Northern IN Public Svc Co	NI	Ca-44733-TDSIC-4	Electric	Limited-Issue Rider	7/31/2018	15 5	NA	NA	NA	324 74
Indiana	Southern Indiana Gas & Elec Co	CNP	Ca-44910-TDSIC-3	Electric	Limited-Issue Rider	8/1/2018	3 9	NA	NA	NA	59 20
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00042 (Rider U)	Electric	Limited-Issue Rider	3/19/2018	50 7	6 87	9 20	51 37	309 30
Virginia	Appalachian Power Co	AEP	C-PUR-2018-00018 (G-RAC)	Electric	Limited-Issue Rider	3/29/2018	7 2	7 76	10 40	50 46	181 90
West Virginia	Monongahela Power Co	FE	C-18-1231-E-ENEC	Electric	Limited-Issue Rider	8/31/2018	(100) 9	NA	NA	NA	NA
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00083 (Rider B)	Electric	Limited-Issue Rider	6/1/2018	0 8	6 87	9 20	51 37	148 79
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00084 (Rider GV)	Electric	Limited-Issue Rider	6/1/2018	39 7	6 87	9 20	51 37	963 48
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00085 (Rider R)	Electric	Limited-Issue Rider	6/1/2018	(7) 4	7 38	10 20	51 37	327 92
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00086 (Rider S)	Electric	Limited-Issue Rider	6/1/2018	1 7	7 39	10 20	51 37	1,137 08
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00087 (Rider W)	Electric	Limited-Issue Rider	6/1/2018	(2) 0	7 39	10 20	51 37	634 64
Florida	Duke Energy Florida LLC	DUK	D-20180149	Electric	Limited-Issue Rider	7/31/2018	29 2	NA	10 50	NA	NA
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00101 (Rider US-3)	Electric	Limited-Issue Rider	7/24/2018	10 6	6 87	9 20	51 37	102 06
Virginia	Appalachian Power Co	AEP	C-PUR-2018-00118 (RAC-EE)	Electric	Limited-Issue Rider	9/28/2018	(0) 0	NA	9 42	NA	NA
Virginia	Virginia Electric & Power Co	D	C-PUR-2017-00168 (Rider DSM)	Electric	Limited-Issue Rider	10/3/2018	18 4	6 87	9 20	51 37	NA
Indiana	Southern Indiana Gas & Elec Co	CNP	Ca-44910-TDSIC-4	Electric	Limited-Issue Rider	2/4/2019	4 1	NA	NA	NA	83 57
Indiana	Northern IN Public Svc Co	NI	Ca-44733-TDSIC-5	Electric	Limited-Issue Rider	1/29/2019	16 7	NA	NA	NA	375 16
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00186 (Rider BW)	Electric	Limited-Issue Rider	10/3/2018	3 1	7 39	10 20	51 37	656 56
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00187 (Rider US-2)	Electric	Limited-Issue Rider	10/3/2018	1 8	6 87	9 20	51 37	68 66
Virginia	Virginia Electric & Power Co	D	C-PUR-2018-00195 (Rider E)	Electric	Limited-Issue Rider	12/14/2018	113 7	6 87	9 20	51 37	219 30
Indiana	Duke Energy Indiana, LLC	DUK	Ca-44720-TDSIC-6	Electric	Limited-Issue Rider	4/30/2019	23 5	NA	NA	NA	393 50
Virginia	Virginia Electric & Power Co	D	C-PUR-2019-00046 (Rider U)	Electric	Limited-Issue Rider	3/25/2019	(14) 0	7 62	10 75	51 17	375 01
Indiana	Southern Indiana Gas & Elec Co	CNP	Ca-44910-TDSIC-5	Electric	Limited-Issue Rider	8/2/2019	7 2	NA	NA	NA	118 54
Indiana	Northern IN Public Svc Co	NI	Ca-44733-TDSIC-6	Electric	Limited-Issue Rider	8/21/2019	44 8				

West Virginia	Monongahela Power Co	FE	C-20-0665-E-ENEC	Electric	Limited-Issue Rider	8/28/2020	(55 0)	NA	NA	NA	NA
Indiana	Northern IN Public Svc Co	NI	Ca-44733-TDSIC-7	Electric	Limited-Issue Rider	9/29/2020	14 2	NA	NA	NA	160 95
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00099 (Rider B)	Electric	Limited-Issue Rider	6/1/2020	(7 8)	6 87	9 20	51 99	118 75
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00100 (Rider GV)	Electric	Limited-Issue Rider	6/1/2020	16 8	6 87	9 20	51 99	879 49
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00101 (Rider R)	Electric	Limited-Issue Rider	6/1/2020	14 8	7 39	10 20	51 99	305 12
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00102 (Rider S)	Electric	Limited-Issue Rider	6/1/2020	(0 3)	7 39	10 20	51 99	1,070 70
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00103 (Rider W)	Electric	Limited-Issue Rider	6/1/2020	14 1	7 39	10 20	51 99	599 41
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00096 (Rider U)	Electric	Limited-Issue Rider	6/1/2020	28 2	6 87	9 20	51 99	500 26
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00122 (Rider US-3)	Electric	Limited-Issue Rider	7/1/2020	9 8	6 87	9 20	51 99	291 09
Virginia	Virginia Electric & Power Co	D	C-PUR-2020-00123 (Rider US-4)	Electric	Limited-Issue Rider	7/1/2020	4 4	6 87	9 20	51 99	108 52

Date	Decision Type	Rate Increase (\$M)	Phase-In?	Interim Authorized?	Return on Original Cost Rate (%)	Return on Equity (%)	Common Equity to Total Capital (%)	Rate Case Test Year End Date	Rate Base (\$M)	Rate Base Valuation Method	Rate Case Duration (months)
1/1/1980	Fully Litigated	5.3	No	No		10.80	14.50	39.30 09/1979	NA	NA	1
1/7/1980	Fully Litigated	35.1	No	No		10.24	14.39	35.80 09/1979	NA	NA	9
1/9/1980	Fully Litigated	82.0	No	Yes		10.55	15.00	38.01 03/1979	NA	Year-end	6
1/14/1980	Fully Litigated	62.3	Yes	No		11.15	15.17	36.65 12/1980	NA	NA	7
1/17/1980	Fully Litigated	11.1	No	Yes		9.98	13.93	NA 08/1979	NA	Year-end	2
1/23/1980	Fully Litigated	65.5	No	No		10.75	15.50	37.68 06/1979	929.00	Year-end	3
1/30/1980	Fully Litigated	117.4	No	No		10.12	13.86	34.54 09/1979	NA	NA	9
1/31/1980	Fully Litigated	5.6	No	No		10.31	12.61	52.00 12/1978	NA	NA	6
2/6/1980	Fully Litigated	389.6	No	No		10.05	13.71	33.00 12/1979	NA	NA	10
2/13/1980	Fully Litigated	4.0	No	No		10.12	12.80	44.37 04/1979	NA	Average	3
2/14/1980	Fully Litigated	6.0	No	No		NA	13.00	40.00 12/1980	185.90	Average	8
2/19/1980	Fully Litigated	21.8	No	Yes		NA	13.50	36.90 12/1978	NA	Average	31
2/27/1980	Fully Litigated	4.0	No	No		9.46	13.75	34.65 03/1979	NA	Average	6
2/29/1980	Fully Litigated	14.7	No	No		9.95	13.75	33.00 06/1978	NA	Year-end	16
2/29/1980	Fully Litigated	122.6	No	No		10.22	14.00	38.50 03/1981	NA	Average	10
2/29/1980	Fully Litigated	30.7	No	No		10.77	14.77	35.13 09/1979	NA	NA	9
3/7/1980	Fully Litigated	16.8	No	No		NA	12.70	33.81 10/1980	NA	Average	5
3/14/1980	Fully Litigated	132.7	No	Yes		9.25	13.50	30.30 12/1979	NA	NA	15
3/26/1980	Fully Litigated	16.3	No	No		10.50	14.16	37.50 12/1979	NA	NA	4
3/27/1980	Fully Litigated	11.6	No	No		10.12	14.24	39.25 03/1981	NA	Average	11
3/28/1980	Fully Litigated	47.2	No	No		9.42	14.50	33.83 12/1979	NA	NA	3
4/11/1980	Fully Litigated	1.5	No	No		10.20	12.75	41.69 03/1979	NA	Year-end	10
4/14/1980	Fully Litigated	18.9	No	No		9.60	13.85	37.90 11/1979	NA	Average	7
4/16/1980	Fully Litigated	11.0	No	No		9.83	15.50	34.60 12/1979	NA	Year-end	4
4/22/1980	Fully Litigated	3.3	No	No		9.70	13.25	32.93 12/1980	NA	Average	8
4/22/1980	Fully Litigated	43.4	No	No		10.66	13.90	38.00 12/1978	NA	NA	7
4/24/1980	Fully Litigated	46.1	No	No		11.64	16.80	36.93 09/1980	NA	Average	6
4/29/1980	Fully Litigated	81.9	No	No		10.91	15.50	38.61 09/1979	NA	Year-end	3
5/6/1980	Fully Litigated	25.1	No	No		NA	13.70	NA 04/1981	NA	Average	7
5/7/1980	Fully Litigated	(15.1)	No	No		10.64	15.00	42.85 06/1979	NA	Year-end	10
5/8/1980	Fully Litigated	134.6	No	No		9.46	13.75	35.91 12/1979	NA	NA	13
5/9/1980	Fully Litigated	88.8	No	No		10.51	14.35	35.00 03/1980	NA	Year-end	9
5/13/1980	Fully Litigated	3.6	No	No		12.60	13.60	30.64 03/1979	NA	NA	9
5/15/1980	Fully Litigated	35.5	No	No		9.38	13.25	36.00 06/1979	NA	Year-end	15
5/19/1980	Fully Litigated	18.7	No	No		10.56	13.75	36.00 12/1979	NA	Average	12
5/27/1980	Fully Litigated	37.7	No	Yes		10.60	13.62	33.00 03/1979	NA	Average	13
5/27/1980	Fully Litigated	45.9	No	No		9.54	14.60	35.80 12/1979	NA	Year-end	2
5/29/1980	Fully Litigated	33.1	No	No		8.95	16.00	37.21 07/1979	NA	NA	6
5/30/1980	Fully Litigated	13.9	No	No		10.30	13.80	35.45 06/1979	NA	NA	6
6/2/1980	Settled	31.9	No	No		10.76	15.63	35.30 08/1979	NA	Year-end	3
6/9/1980	Fully Litigated	18.3	No	Yes		12.49	15.90	34.24 05/1979	NA	NA	9
6/10/1980	Fully Litigated	73.9	No	No		9.63	13.78	39.50 01/1980	NA	Average	7
6/12/1980	Settled	10.2	No	No		10.50	14.25	35.00 09/1979	411.80	Year-end	4
6/19/1980	Fully Litigated	45.7	No	No		10.16	13.40	34.28 12/1979	NA	Year-end	10
6/30/1980	Fully Litigated	33.5	No	Yes		9.65	13.00	33.32 03/1979	NA	NA	13
6/30/1980	Fully Litigated	7.4	No	Yes		9.85	13.40	34.00 05/1979	NA	Average	12
7/9/1980	Fully Litigated	41.7	No	No		10.11	14.75	35.90 12/1980	NA	Average	10
7/10/1980	Fully Litigated	69.6	No	No		10.82	15.00	38.41 12/1979	NA	NA	9
7/15/1980	Settled	3.9	No	No		11.15	15.80	35.56 09/1979	NA	Year-end	4
7/18/1980	Fully Litigated	38.4	No	No		10.32	13.80	39.90 07/1981	NA	Average	10
7/22/1980	Fully Litigated	35.5	No	No		10.58	14.10	39.90 07/1981	NA	Average	10
7/24/1980	Fully Litigated	5.1	No	No		11.72	15.00	36.55 12/1979	NA	Year-end	3
7/25/1980	Fully Litigated	4.2	No	No		9.57	13.48	30.50 12/1979	NA	Year-end	4
7/31/1980	Fully Litigated	31.8	No	No		10.62	14.58	34.80 12/1979	NA	NA	9
8/8/1980	Fully Litigated	70.3	No	No		9.23	13.50	30.54 12/1980	NA	NA	18
8/8/1980	Fully Litigated	4.7	No	No		10.65	14.00	32.20 12/1979	NA	NA	5
8/8/1980	Fully Litigated	6.2	No	No		10.49	14.45	34.92 08/1979	NA	Year-end	5
8/11/1980	Fully Litigated	8.1	No	No		10.74	14.85	36.62 12/1979	NA	NA	4
8/14/1980	Settled	80.0	No	No		4.97	14.00	25.95 11/1979	NA	NA	7
8/14/1980	Settled	31.9	No	No		12.16	16.25	40.35 12/1979	286.40	Year-end	2
8/25/1980	Fully Litigated	9.2	No	No		9.66	13.75	27.40 12/1979	NA	Year-end	10
8/27/1980	Fully Litigated	65.6	No	No		9.93	13.80	36.40 12/1979	NA	Year-end	6
8/29/1980	Fully Litigated	23.4	No	Yes		10.21	12.50	35.37 06/1979	NA	NA	13
9/15/1980	Fully Litigated	60.0	No	No		9.79	13.50	31.01 12/1979	NA	Year-end	5
9/15/1980	Fully Litigated	22.3	No	Yes		10.27	13.93	32.30 12/1979	NA	Year-end	2
9/15/1980	Settled	134.9	No	No		11.32	15.80	38.80 03/1980	NA	Year-end	2
9/24/1980	Fully Litigated	15.8	No	No		9.42	12.50	37.80 12/1979	NA	Average	30
9/24/1980	Fully Litigated	43.7	No	No		10.14	15.00	36.43 01/1980	NA	Year-end	5
9/26/1980	Fully Litigated	50.6	No	No		10.15	13.75	39.10 06/1980	NA	NA	10
9/30/1980	Fully Litigated	57.5	No	No		10.88	14.10	38.00 12/1979	NA	NA	7
9/30/1980	Fully Litigated	42.7	No	No		10.61	14.20	32.93 12/1979	NA	Year-end	6
10/1/1980	Fully Litigated	27.7	No	No		10.28	13.90	34.40 01/1980	NA	Year-end	5
10/3/1980	Fully Litigated	69.4	No	Yes		11.31	15.50	39.58 03/1980	NA	Year-end	4
10/7/1980	Fully Litigated	12.2	No	No		9.78	12.50	37.16 03/1980	NA	Average	22
10/8/1980	Fully Litigated	71.0	No	Yes		NA	13.25	38.43 12/1980	NA	Average	13
10/8/1980	Fully Litigated	72.3	No	No		10.25	14.50	35.12 12/1979	NA	NA	5
10/8/1980	Fully Litigated	40.5	No	No		10.49	14.50	37.10 12/1979	NA	NA	5
10/16/1980	Settled	44.0	No	No		11.24	16.10	30.34 12/1979	NA	Year-end	4
10/17/1980	Fully Litigated	31.0	No	Yes		8.40	14.50	32.04 12/1979	NA	NA	8
10/31/1980	Fully Litigated	16.2	No	No		10.78	13.75	35.70 12/1979	NA	NA	9
10/31/1980	Fully Litigated	16.9	No	No		9.07	14.25	35.12 12/1979	NA	NA	6
11/4/1980	Fully Litigated	6.2	No	No		10.99	15.00	37.35 12/1979	NA	Year-end	6
11/5/1980	Fully Litigated	15.9	No	No		10.10	13.75	31.90 12/1979	NA	Average	6
11/5/1980	Fully Litigated	11.6	No	No		9.94	14.00	33.80 12/1979	NA	Average	7
11/8/1980	Fully Litigated	5.8	No	No		9.60	13.75	34.10 12/1979	NA	NA	6
11/10/1980	Fully Litigated	40.6	No	Yes		8.90	14.85	28.96 12/1979	NA	NA	8
11/17/1980	Fully Litigated	77.3	No	No		10.77	14.00	35.70 12/1979	878.50	Average	11
11/18/1980	Fully Litigated	5.8	No	No		10.09	14.00	34.94 12/1979	NA	NA	22
11/19/1980	Fully Litigated	1.8	No	No		10.26	13.00	45.23 12/1979	NA	Average	4
11/24/1980	Fully Litigated	48.3	No	No		9.88	14.00	34.80 06/1981	485.00	Average	6
11/26/1980	Fully Litigated	5.4	No	No		11.81	14.00	41.30 12/1979	NA	NA	6
12/8/1980	Fully Litigated	7.1	No	No		10.80	14.15	36.00 09/1979	NA	NA	7
12/8/1980	Fully Litigated	35.8	No	No		11.30	15.10	40.00 03/1980	NA	NA	7
12/9/1980	Settled	9.5	No	No		10.63	16.35	43.00 06/1980	NA	Year-end	2
12/12/1980	Fully Litigated	27.1	No	No		10.19	15.45	34.62 06/1980	NA	Year-end	7
12/17/1980	Fully Litigated	11.5	No	No		10.82	13.25	42.72 03/1980	NA	Year-end	5
12/18/1980	Settled	5.2	No	No		11.29	15.80	32.40 03/1980	NA	Year-end	4
12/19/1980	Fully Litigated	39.1	No	Yes		10.31	14.50	34.90 12/1979	NA	Average	10
12/19/1980	Fully Litigated	14.5	No	No		10.00	14.64	34.00 12/1979	NA	Year-end	7
12/22/1980	Fully Litigated	21.7	No	No		10.34	13.45	38.71 09/1979	442.70	Average	8
12/22/1980	Fully Litigated	11.9	No	No		11.16	15.00	38.11 03/1980	NA	Year-end	5
12/30/1980	Fully Litigated	81.0	No	No		11.36	14.50	36.25 12/1981	NA	NA	6
12/30/1980	Fully Litigated	294.2	Yes	No		11.20	14.95	40.00 12/1981	NA	NA	12
12/31/1980	Fully Litigated	3.3	No	No		9.75	13.39	43.68 12/1981	NA	Average	7
1/2/1981	Fully Litigated	90.1	No	Yes		11.71	15.25	36.50 12/1979	NA	Average	10
1/7/1981	Fully Litigated	23.3	No	No		9.92	14.30	35.56 12/1980	NA	Year-end	10
1/19/1981	Fully Litigated	78.4	No	No		10.52	15.25	36.31 03/1980	NA	Year-end	12

Y				X
Date	Return on Equity	30 - Year Treasury	Risk Premium	LN (30-Yr Treasury)
1/1/1980	14.50%	9.36%	5.14%	-2.36877
1/7/1980	14.39%	9.39%	5.00%	-2.36804
1/9/1980	15.00%	9.40%	5.60%	-2.36471
1/14/1980	15.17%	9.42%	5.75%	-2.36259
1/17/1980	13.93%	9.44%	4.49%	-2.3603
1/23/1980	15.50%	9.47%	6.03%	-2.35674
1/30/1980	13.86%	9.52%	4.34%	-2.35149
1/31/1980	12.61%	9.53%	3.08%	-2.35043
2/6/1980	13.71%	9.58%	4.13%	-2.34534
2/13/1980	12.80%	9.64%	3.16%	-2.33975
2/14/1980	13.00%	9.65%	3.35%	-2.33834
2/19/1980	13.50%	9.68%	3.82%	-2.33506
2/27/1980	13.75%	9.78%	3.97%	-2.32438
2/29/1980	13.75%	9.81%	3.94%	-2.321
2/29/1980	14.00%	9.81%	4.19%	-2.3213
2/29/1980	14.77%	9.81%	4.96%	-2.3213
3/7/1980	12.70%	9.80%	2.80%	-2.31311
3/14/1980	13.50%	9.87%	3.53%	-2.30529
3/26/1980	14.16%	10.11%	4.05%	-2.29209
3/27/1980	14.24%	10.12%	4.12%	-2.2903
3/28/1980	14.50%	10.14%	4.35%	-2.28861
4/1/1980	12.75%	10.28%	2.24%	-2.27484
4/14/1980	13.85%	10.29%	5.56%	-2.27368
4/16/1980	15.50%	10.32%	5.18%	-2.27138
4/22/1980	13.25%	10.36%	2.89%	-2.2672
4/22/1980	13.90%	10.36%	3.54%	-2.2672
4/24/1980	16.80%	10.38%	6.42%	-2.26502
4/29/1980	15.50%	10.41%	5.09%	-2.262
5/6/1980	13.70%	10.45%	3.35%	-2.25818
5/7/1980	15.00%	10.46%	4.54%	-2.25761
5/8/1980	13.75%	10.47%	3.88%	-2.25694
5/13/1980	14.35%	10.47%	3.28%	-2.25626
5/13/1980	13.60%	10.49%	3.11%	-2.25494
5/15/1980	13.25%	10.50%	2.75%	-2.25363
5/19/1980	13.75%	10.52%	3.23%	-2.2521
5/27/1980	13.62%	10.55%	3.07%	-2.24892
5/27/1980	14.60%	10.55%	4.05%	-2.24892
5/29/1980	16.00%	10.58%	5.44%	-2.24764
5/30/1980	13.80%	10.57%	3.23%	-2.24688
5/31/1980	13.50%	10.58%	3.05%	-2.2468
6/9/1980	15.90%	10.61%	5.29%	-2.24371
6/10/1980	13.78%	10.61%	3.17%	-2.24329
6/12/1980	14.25%	10.62%	3.63%	-2.24263
6/19/1980	13.40%	10.63%	2.77%	-2.24146
6/30/1980	13.00%	10.65%	2.35%	-2.23935
6/30/1980	13.40%	10.65%	2.75%	-2.23935
7/8/1980	14.75%	10.68%	4.07%	-2.23688
7/10/1980	15.00%	10.69%	4.31%	-2.23617
7/15/1980	15.80%	10.70%	5.10%	-2.23456
7/18/1980	13.80%	10.72%	3.08%	-2.2333
7/22/1980	14.10%	10.73%	3.37%	-2.23251
7/24/1980	15.00%	10.73%	4.27%	-2.23169
7/25/1980	13.48%	10.74%	2.74%	-2.23124
7/31/1980	15.58%	10.76%	3.82%	-2.22969
8/1/1980	13.50%	10.76%	2.74%	-2.2297
8/8/1980	14.50%	10.78%	3.22%	-2.22747
8/8/1980	15.45%	10.78%	4.67%	-2.22747
8/11/1980	14.85%	10.78%	4.07%	-2.22714
8/14/1980	14.00%	10.79%	3.21%	-2.22611
8/14/1980	16.25%	10.79%	5.46%	-2.22611
8/25/1980	13.75%	10.82%	2.93%	-2.22369
8/27/1980	13.80%	10.83%	2.97%	-2.22282
8/29/1980	12.50%	10.84%	1.66%	-2.222
9/15/1980	13.50%	10.88%	2.62%	-2.21799
9/15/1980	13.93%	10.88%	3.05%	-2.21799
9/15/1980	15.80%	10.88%	4.92%	-2.21799
9/24/1980	12.50%	10.93%	1.57%	-2.21349
9/24/1980	15.00%	10.93%	4.07%	-2.21349
9/26/1980	13.75%	10.95%	2.80%	-2.21271
9/30/1980	14.50%	10.96%	3.63%	-2.21062
9/30/1980	14.20%	10.96%	3.24%	-2.21062
10/1/1980	13.90%	10.97%	2.93%	-2.20981
10/5/1980	15.50%	10.99%	4.51%	-2.20884
10/7/1980	12.50%	11.00%	1.50%	-2.2076
10/8/1980	13.25%	11.01%	2.24%	-2.20659
10/8/1980	14.50%	11.01%	3.49%	-2.20659
10/8/1980	14.50%	11.01%	3.49%	-2.20659
10/16/1980	16.10%	11.03%	5.07%	-2.20472
10/17/1980	14.50%	11.03%	4.74%	-2.2042
10/31/1980	13.75%	11.11%	2.64%	-2.19728
10/31/1980	14.25%	11.11%	3.14%	-2.19728
11/4/1980	15.00%	11.12%	3.88%	-2.19566
11/5/1980	13.75%	11.13%	2.82%	-2.19584
11/7/1980	14.50%	11.13%	3.63%	-2.19411
11/8/1980	13.75%	11.15%	2.60%	-2.19412
11/10/1980	14.85%	11.15%	3.70%	-2.19329
11/17/1980	14.00%	11.18%	2.82%	-2.19081
11/17/1980	14.00%	11.19%	2.81%	-2.19037
11/19/1980	13.00%	11.19%	1.81%	-2.18994
11/24/1980	14.00%	11.20%	2.80%	-2.18897
11/26/1980	14.00%	11.21%	2.79%	-2.18846
12/8/1980	14.15%	11.22%	2.93%	-2.18791
12/8/1980	15.10%	11.22%	3.88%	-2.18791
12/8/1980	15.35%	11.22%	4.13%	-2.18787
12/12/1980	15.45%	11.22%	4.23%	-2.18765
12/17/1980	13.25%	11.23%	2.02%	-2.18689
12/18/1980	15.80%	11.23%	4.57%	-2.18677
12/19/1980	14.50%	11.23%	3.27%	-2.18685
12/19/1980	14.50%	11.23%	3.14%	-2.18685
12/22/1980	13.45%	11.22%	2.33%	-2.18725
12/22/1980	15.00%	11.22%	3.78%	-2.18725
12/30/1980	14.50%	11.21%	3.29%	-2.18811
12/30/1980	14.95%	11.21%	3.74%	-2.18811
12/31/1980	13.39%	11.21%	2.18%	-2.18821
1/2/1981	15.25%	11.21%	4.04%	-2.18829
1/7/1981	14.30%	11.21%	3.09%	-2.18872
1/19/1981	15.25%	11.19%	4.06%	-2.18999

1/23/1981	Fully Litigated	3.1	No	No	10.01	13.10	32.76	04/1980	NA Average	5	1/23/1981	13.10%	11.20%	1.90%	-2.18952
1/23/1981	Fully Litigated	11.7	No	No	11.13	14.40	28.32	12/1980	NA NA	6	1/23/1981	14.40%	11.20%	3.20%	-2.18952
1/26/1981	Fully Litigated	17.7	No	Yes	11.25	15.25	36.02	12/1979	NA Average	10	1/26/1981	15.25%	11.20%	4.05%	-2.1893
1/27/1981	Fully Litigated	46.0	No	No	10.75	15.00	35.69	12/1979	NA NA	11	1/27/1981	15.00%	11.20%	3.80%	-2.18904
1/31/1981	Fully Litigated	61.4	No	Yes	9.91	13.47	33.76	04/1981	NA NA	12	1/31/1981	13.47%	11.21%	2.26%	-2.18792
2/3/1981	Fully Litigated	47.4	No	No	10.23	15.25	36.60	12/1980	NA Year-end	9	2/3/1981	15.25%	11.23%	4.02%	-2.18851
2/5/1981	Fully Litigated	101.5	No	No	11.35	15.75	32.70	12/1980	NA Year-end	9	2/5/1981	15.75%	11.25%	4.50%	-2.18505
2/11/1981	Fully Litigated	91.4	No	No	11.25	15.80	32.21	10/1980	1,690.30 Date Certain	9	2/11/1981	15.80%	11.28%	4.32%	-2.18184
2/20/1981	Fully Litigated	47.5	No	No	10.58	15.25	33.80	12/1979	NA Year-end	9	2/20/1981	15.25%	11.34%	3.81%	-2.1772
3/11/1981	Fully Litigated	57.1	No	Yes	9.20	15.40	28.69	12/1980	NA NA	10	3/11/1981	15.40%	11.50%	3.90%	-2.16287
3/12/1981	Fully Litigated	44.9	No	No	10.12	14.51	46.56	03/1982	5,546.10 Average	10	3/12/1981	14.51%	11.51%	3.00%	-2.16189
3/12/1981	Fully Litigated	161.3	No	No	11.51	16.00	39.50	03/1982	NA Average	10	3/12/1981	16.00%	11.51%	4.49%	-2.16189
3/13/1981	Fully Litigated	6.2	No	No	9.39	13.02	36.70	09/1980	NA Year-end	10	3/13/1981	13.02%	11.52%	1.50%	-2.16087
3/18/1981	Fully Litigated	50.5	No	No	11.28	16.19	34.44	10/1980	NA NA	9	3/18/1981	16.19%	11.55%	4.64%	-2.15818
3/19/1981	Fully Litigated	3.3	No	No	9.74	13.75	36.30	08/1980	NA Average	3	3/19/1981	13.75%	11.56%	2.19%	-2.15735
3/23/1981	Fully Litigated	16.2	No	No	10.86	14.30	36.00	06/1980	296.50 Average	11	3/23/1981	14.30%	11.58%	2.72%	-2.15547
3/25/1981	Fully Litigated	30.2	No	No	10.20	15.30	37.60	12/1979	NA Year-end	10	3/25/1981	15.30%	11.61%	3.69%	-2.15315
4/1/1981	Fully Litigated	58.7	No	No	11.15	14.53	34.62	12/1980	1,956.80 Date Certain	9	4/1/1981	14.53%	11.69%	2.84%	-2.14665
4/3/1981	Fully Litigated	45.2	No	No	11.45	19.10	30.30	12/1979	NA Year-end	8	4/3/1981	19.10%	11.72%	7.38%	-2.14375
4/8/1981	Fully Litigated	18.9	No	No	9.78	15.00	30.16	12/1980	NA Average	11	4/8/1981	15.00%	11.79%	3.21%	-2.13765
4/8/1981	Fully Litigated	64.5	No	No	11.40	15.30	33.41	12/1980	NA NA	9	4/8/1981	15.30%	11.79%	3.51%	-2.13765
4/8/1981	Fully Litigated	54.9	No	No	10.82	16.50	33.06	03/1981	NA Year-end	8	4/8/1981	16.50%	11.79%	4.71%	-2.13765
4/9/1981	Fully Litigated	51.8	No	No	11.17	17.00	36.80	03/1981	NA Year-end	8	4/9/1981	17.00%	11.79%	5.21%	-2.13765
4/10/1981	Fully Litigated	15.3	No	Yes	10.61	13.75	33.80	12/1979	NA NA	13	4/10/1981	13.75%	11.81%	1.94%	-2.13617
4/13/1981	Fully Litigated	3.7	No	Yes	10.14	13.57	32.66	12/1980	NA NA	12	4/13/1981	13.57%	11.83%	1.74%	-2.13467
4/15/1981	Fully Litigated	10.7	No	No	10.92	15.30	37.25	12/1979	NA Year-end	10	4/15/1981	15.30%	11.86%	3.52%	-2.13164
4/16/1981	Fully Litigated	10.9	No	No	9.76	13.50	31.96	11/1981	NA Average	5	4/16/1981	13.50%	11.89%	1.62%	-2.13039
4/17/1981	Fully Litigated	8.5	No	No	10.60	14.10	31.13	06/1980	NA Average	5	4/17/1981	14.10%	11.89%	2.22%	-2.13039
4/21/1981	Fully Litigated	21.2	No	Yes	NA	14.00	41.90	12/1981	NA Average	13	4/21/1981	14.00%	11.91%	2.09%	-2.12775
4/21/1981	Fully Litigated	39.0	No	No	11.87	16.80	39.02	06/1981	1,232.80 Average	6	4/21/1981	16.80%	11.91%	4.89%	-2.12775
4/24/1981	Fully Litigated	187.6	No	No	11.53	16.00	34.30	03/1981	NA Year-end	8	4/24/1981	16.00%	11.96%	4.04%	-2.12373
4/27/1981	Fully Litigated	11.4	No	No	9.37	12.50	34.35	04/1980	NA Average	25	4/27/1981	12.50%	11.98%	0.52%	-2.12233
4/27/1981	Fully Litigated	16.5	No	No	9.94	13.61	35.20	12/1980	NA Average	15	4/27/1981	13.61%	11.98%	1.63%	-2.12233
4/29/1981	Fully Litigated	11.4	No	No	9.52	13.65	37.90	12/1980	NA Average	2	4/29/1981	13.65%	12.01%	1.64%	-2.11959
4/30/1981	Fully Litigated	56.2	No	Yes	9.73	13.50	42.20	07/1981	NA NA	12	4/30/1981	13.50%	12.02%	1.48%	-2.11819
5/4/1981	Fully Litigated	143.4	No	No	11.76	16.22	35.61	12/1980	NA NA	19	5/4/1981	16.22%	12.06%	4.16%	-2.11526
5/5/1981	Fully Litigated	8.6	No	No	10.22	14.40	40.00	06/1979	NA Average	19	5/5/1981	14.40%	12.08%	2.32%	-2.11357
5/7/1981	Fully Litigated	45.4	Yes	No	11.34	16.25	35.10	12/1981	NA NA	1	5/7/1981	16.25%	12.12%	4.13%	-2.11046
5/7/1981	Fully Litigated	58.3	No	No	12.65	16.27	35.00	12/1981	NA NA	1	5/7/1981	16.27%	12.12%	4.15%	-2.11046
5/8/1981	Fully Litigated	5.6	No	No	9.57	13.00	39.72	06/1980	NA Average	24	5/8/1981	13.00%	12.14%	0.86%	-2.10895
5/8/1981	Fully Litigated	27.0	No	Yes	11.57	16.00	34.10	12/1979	NA Average	10	5/8/1981	16.00%	12.14%	3.86%	-2.10895
5/12/1981	Fully Litigated	4.3	No	Yes	9.93	13.50	29.78	03/1979	NA NA	20	5/12/1981	13.50%	12.17%	1.33%	-2.10584
5/15/1981	Fully Litigated	5.0	No	No	11.49	15.75	40.00	12/1980	NA NA	6	5/15/1981	15.75%	12.23%	3.52%	-2.10164
5/18/1981	Fully Litigated	11.9	No	No	10.31	14.88	39.19	10/1979	NA NA	12	5/18/1981	14.88%	12.24%	2.64%	-2.10044
5/20/1981	Fully Litigated	183.1	No	No	12.21	16.00	42.72	04/1982	1,847.40 Average	11	5/20/1981	16.00%	12.27%	3.73%	-2.09814
5/21/1981	Fully Litigated	31.2	No	No	NA	14.00	38.20	12/1981	NA Average	10	5/21/1981	14.00%	12.28%	1.72%	-2.09701
5/26/1981	Fully Litigated	156.4	No	No	11.78	14.90	37.00	12/1980	1,661.20 Average	12	5/26/1981	14.90%	12.31%	2.69%	-2.09488
5/27/1981	Fully Litigated	149.4	No	No	10.51	15.00	32.00	08/1979	NA NA	12	5/27/1981	15.00%	12.32%	2.68%	-2.09384
5/29/1981	Fully Litigated	14.2	No	No	10.83	15.50	30.90	12/1980	NA Year-end	4	5/29/1981	15.50%	12.34%	3.16%	-2.09197
6/1/1981	Fully Litigated	1.4	Yes	No	12.49	16.50	32.80	12/1980	NA NA	9	6/1/1981	16.50%	12.35%	4.15%	-2.09115
6/3/1981	Fully Litigated	15.4	No	No	10.84	14.67	35.80	05/1980	NA Year-end	10	6/3/1981	14.67%	12.38%	2.29%	-2.08942
6/5/1981	Fully Litigated	14.4	No	No	9.08	13.00	30.79	06/1980	NA Average	24	6/5/1981	13.00%	12.40%	0.60%	-2.08762
6/10/1981	Fully Litigated	112.7	No	No	12.19	16.75	38.20	09/1980	NA Year-end	6	6/10/1981	16.75%	12.42%	4.33%	-2.08548
6/17/1981	Fully Litigated	17.4	No	No	10.67	14.40	35.48	12/1980	NA Average	10	6/17/1981	14.40%	12.46%	1.94%	-2.08235
6/18/1981	Fully Litigated	23.7	No	No	11.76	16.33	39.68	09/1980	314.60 Year-end	4	6/18/1981	16.33%	12.47%	3.86%	-2.08172
6/25/1981	Fully Litigated	36.9	No	Yes	NA	14.75	39.40	12/1981	NA Average	24	6/25/1981	14.75%	12.52%	2.23%	-2.07785
6/26/1981	Fully Litigated	56.3	No	No	10.99	16.00	42.85	06/1980	921.90 Year-end	9	6/26/1981	16.00%	12.53%	3.47%	-2.07705
6/30/1981	Fully Litigated	64.2	No	No	10.93	15.25	33.70	12/1980	NA Year-end	2	6/30/1981	15.25%	12.55%	2.70%	-2.07531
7/1/1981	Fully Litigated	104.0	No	No	11.47	15.50	39.87	12/1980	NA Year-end	10	7/1/1981	15.50%	12.58%	2.52%	-2.07438
7/1/1981	Fully Litigated	503.6	No	No	11.88	17.50	33.54	06/1981	NA NA	10	7/1/1981	17.50%	12.59%	4.84%	-2.07438
7/10/1981	Fully Litigated	42.1	No	No	11.52	16.00	40.15	07/1982	NA Average	10	7/10/1981	16.00%	12.62%	3.38%	-2.0695
7/14/1981	Fully Litigated	31.7	No	No	12.24	16.00	38.04	07/1982	365.90 Average	10	7/14/1981	16.00%	12.64%	4.26%	-2.06803
7/15/1981	Fully Litigated	81.7	No	No	11.60	16.00	36.75	03/1981	NA NA	9	7/15/1981	16.00%	12.65%	3.35%	-2.06731
7/17/1981	Fully Litigated	5.7	No	No	11.99	15.00	34.00	04/1980	NA NA	11	7/17/1981	15.00%	12.67%	2.33%	-2.06597
7/20/1981	Fully Litigated	13.3	No	No	10.75	15.00	34.10	12/1981	172.30 Average	12	7/20/1981	15.00%	12.68%	2.32%	-2.0652
7/21/1981	Fully Litigated	253.4	No	Yes	9.31	14.00	30.00	12/1981	NA NA	14	7/21/1981	14.00%	12.69%	1.31%	-2.06435
7/28/1981	Fully Litigated	3.7	No	No	9.80	13.48	32.30	12/1980	NA Year-end	3	7/28/1981	13.48%	12.75%	0.73%	-2.05977
7/31/1981	Fully Litigated	18.1	No	No	9.74	13.50	39.40	12/1979	NA Average	37	7/31/1981	13.50%	12.79%	0.71%	-2.05663
7/31/1981	Fully Litigated	110.7	No	Yes	10.68	15.00	34.22	12/1985	NA NA	15	7/31/1981	15.00%	12.79%	2.21%	-2.05663
7/31/1981	Fully Litigated	24.3	No	Yes	12.00	16.00	33.11	06/1980	NA NA	6	7/31/1981	16.00%	12.79%	3.21%	-2.05663
8/5/1981	Fully Litigated	57.1	No	No	11.33	15.71	40.63	12/1980	NA Year-end	5	8/5/1981	15.71%	12.83%	2.88%	-2.05308
8/10/1981	Fully Litigated	13.6	No	No	10.52	14.50	38.74	06/1981	NA Year-end	8	8/10/1981	14.50%	12.87%	1.63%	-2.05011
8/11/1981	Fully Litigated	14.5	No	No	11.74	15.00	36.92	11/1980	NA Year-end	5	8/11/1981	15.00%	12.88%	2.12%	-2.04937
8/20/1981	Fully Litigated	18.6	No	No	10.17	13.50	36.63	06/1980	NA Average	20	8/20/1981	13.50%	12.95%	0.55%	-2.04415
8/20/1981	Fully Litigated	41.1	No	No	13.01	16.50	40.00	12/1980	NA NA	3	8/20/1981	16.50%	12.95%	3.55%	-2.04415
8/24/1981	Fully Litigated	131.8	No	No	10.68	15.00	30.79	12/1980	NA Year-end	4	8/24/1981	15.00%	12.97%	2.03%	-2.04254
8/29/1981	Fully Litigated	6.1	No	No	11.49	15.00	35.10	12/1980	NA Year-end	5	8/29/1981	15.00%	13.01%	1.99%	-2.03939
9/3/1981	Settled	5.9	No	No	10.69	14.50	41.07	05/1981	NA NA	8	9/3/1981	14.50%	13.06%	1.44%	-2.03575
9/10/1981	Fully Litigated	128.4	No	Yes	11.71	16.00	31.40	12/1980	NA Year-end	5	9/10/1981				

1/11/1982	Fully Ligated	28.9	No	Yes	14.26	17.00	39.21	12/1980	NA	NA	9	1/11/1982	17.00%	13.73%	3.27%	-1.98565
1/13/1982	Fully Ligated	63.1	No	No	13.16	14.75	41.43	12/1982	1,311.20	Average	8	1/13/1982	14.75%	13.74%	1.01%	-1.9845
1/14/1982	Fully Ligated	102.1	No	Yes	11.58	15.75	35.30	12/1980	NA	Average	6	1/14/1982	15.75%	13.75%	2.00%	-1.984
1/15/1982	Fully Ligated	8.7	No	No	11.77	15.00	36.20	12/1981	NA	Year-end	12	1/15/1982	15.00%	13.76%	1.24%	-1.98346
1/15/1982	Fully Ligated	79.1	No	No	12.31	16.50	41.96	10/1980	710.80	Year-end	16	1/15/1982	16.50%	13.76%	2.44%	-1.98346
1/22/1982	Fully Ligated	24.9	No	No	11.76	16.25	34.80	12/1981	NA	Year-end	9	1/22/1982	16.25%	13.80%	2.45%	-1.9807
1/27/1982	Fully Ligated	85.4	No	No	11.80	16.84	34.50	09/1981	NA	NA	9	1/27/1982	16.84%	13.81%	3.03%	-1.97956
1/28/1982	Fully Ligated	57.0	No	Yes	10.57	13.00	37.98	12/1980	NA	NA	13	1/28/1982	13.00%	13.82%	-0.82%	-1.97921
1/29/1982	Fully Ligated	12.6	No	No	9.52	15.50	35.18	12/1980	NA	NA	6	1/29/1982	15.50%	13.82%	1.68%	-1.97893
2/1/1982	Fully Ligated	5.5	No	No	9.70	15.85	26.73	12/1981	NA	NA	8	2/1/1982	15.85%	13.83%	2.02%	-1.97853
2/3/1982	Fully Ligated	28.1	No	No	12.11	16.44	36.35	09/1981	NA	NA	9	2/3/1982	16.44%	13.84%	2.60%	-1.97771
2/8/1982	Fully Ligated	84.8	No	No	10.96	15.50	38.61	09/1981	2,487.40	Average	7	2/8/1982	15.50%	13.86%	1.64%	-1.97625
2/11/1982	Fully Ligated	337.8	No	No	10.67	16.00	38.60	10/1981	NA	NA	12	2/11/1982	16.00%	13.88%	2.12%	-1.97477
2/11/1982	Fully Ligated	11.8	No	No	12.04	16.20	45.50	09/1981	NA	Year-end	2	2/11/1982	16.20%	13.88%	2.32%	-1.97477
2/17/1982	Settled	10.5	No	No	10.98	15.00	29.97	12/1980	NA	NA	7	2/17/1982	15.00%	13.89%	1.11%	-1.9741
2/19/1982	Fully Ligated	26.4	No	No	10.66	15.17	39.28	12/1980	NA	Average	18	2/19/1982	15.17%	13.89%	1.28%	-1.97376
2/26/1982	Fully Ligated	4.3	No	No	13.20	15.25	38.73	12/1980	NA	NA	6	2/26/1982	15.25%	13.89%	1.36%	-1.9741
3/1/1982	Fully Ligated	26.2	No	No	11.46	15.03	30.64	12/1980	NA	NA	10	3/1/1982	15.03%	13.89%	1.14%	-1.97415
3/1/1982	Fully Ligated	7.9	No	Yes	11.96	16.00	41.85	12/1980	NA	Average	9	3/1/1982	16.00%	13.89%	2.11%	-1.97415
3/3/1982	Fully Ligated	26.2	No	No	10.79	15.00	36.75	12/1980	NA	Average	12	3/3/1982	15.00%	13.88%	1.12%	-1.97451
3/8/1982	Fully Ligated	142.5	No	No	12.47	17.10	41.48	03/1983	NA	Average	10	3/8/1982	17.10%	13.88%	3.22%	-1.97487
3/12/1982	Fully Ligated	81.8	No	No	12.76	16.25	38.50	12/1980	899.90	Average	10	3/12/1982	16.25%	13.88%	2.37%	-1.9747
3/17/1982	Fully Ligated	107.0	No	No	12.25	17.30	37.69	12/1982	NA	NA	10	3/17/1982	17.30%	13.88%	3.42%	-1.97441
3/22/1982	Fully Ligated	24.0	No	No	10.58	15.10	36.92	12/1980	NA	Average	11	3/22/1982	15.10%	13.89%	1.21%	-1.97397
3/27/1982	Fully Ligated	31.9	No	Yes	12.34	15.40	NA	11/1981	673.80	Average	9	3/27/1982	15.40%	13.90%	1.50%	-1.97338
3/30/1982	Fully Ligated	9.4	No	No	11.45	15.50	32.92	12/1980	NA	NA	9	3/30/1982	15.50%	13.91%	1.69%	-1.97271
3/31/1982	Fully Ligated	39.0	No	No	10.87	17.00	34.56	06/1981	NA	Year-end	9	3/31/1982	17.00%	13.91%	3.09%	-1.97274
4/1/1982	Fully Ligated	56.4	No	Yes	11.09	14.70	33.04	12/1980	NA	NA	13	4/1/1982	14.70%	13.92%	0.78%	-1.97213
4/1/1982	Fully Ligated	6.2	No	No	12.83	16.50	36.83	06/1981	NA	Year-end	5	4/1/1982	16.50%	13.92%	2.58%	-1.97213
4/2/1982	Settled	3.3	No	No	12.80	15.50	43.50	06/1982	NA	Year-end	5	4/2/1982	15.50%	13.92%	1.58%	-1.97185
4/5/1982	Fully Ligated	5.4	No	No	9.85	15.50	NA	07/1981	NA	Year-end	5	4/5/1982	15.50%	13.93%	1.57%	-1.97145
4/8/1982	Fully Ligated	12.0	No	No	13.71	16.40	29.44	12/1981	NA	NA	9	4/8/1982	16.40%	13.94%	2.46%	-1.9705
4/13/1982	Fully Ligated	4.6	No	No	11.12	14.50	47.90	06/1981	NA	Average	6	4/13/1982	14.50%	13.94%	0.56%	-1.97019
4/23/1982	Fully Ligated	21.0	No	No	12.38	15.75	38.00	10/1981	292.90	Average	9	4/23/1982	15.75%	13.94%	1.81%	-1.9701
4/27/1982	Fully Ligated	30.3	No	No	11.58	15.00	39.09	12/1982	547.70	Average	9	4/27/1982	15.00%	13.94%	1.06%	-1.9702
4/28/1982	Fully Ligated	31.7	No	No	11.15	15.75	37.30	12/1981	926.80	Average	7	4/28/1982	15.75%	13.94%	1.81%	-1.97025
4/30/1982	Fully Ligated	25.6	No	Yes	10.54	14.70	36.43	06/1982	NA	NA	12	4/30/1982	14.70%	13.94%	0.76%	-1.97024
4/30/1982	Fully Ligated	31.3	No	No	11.37	15.50	33.82	12/1980	NA	NA	6	4/30/1982	15.50%	13.94%	1.56%	-1.97024
5/3/1982	Fully Ligated	4.2	No	No	12.18	16.60	32.73	06/1981	NA	NA	5	5/3/1982	16.60%	13.94%	2.66%	-1.97019
5/4/1982	Fully Ligated	7.1	Yes	No	12.08	16.00	36.00	12/1982	NA	NA	11	5/4/1982	16.00%	13.94%	2.06%	-1.97024
5/14/1982	Fully Ligated	3.6	No	No	10.70	15.50	38.56	09/1981	NA	Year-end	4	5/14/1982	15.50%	13.92%	1.58%	-1.97181
5/18/1982	Fully Ligated	8.1	No	No	11.17	15.42	36.70	12/1980	NA	Average	15	5/18/1982	15.42%	13.92%	1.50%	-1.97195
5/19/1982	Fully Ligated	11.0	No	No	10.86	14.69	34.70	12/1980	364.90	Year-end	9	5/19/1982	14.69%	13.92%	0.77%	-1.97218
5/20/1982	Fully Ligated	10.2	No	No	12.68	15.00	41.55	12/1982	NA	Average	8	5/20/1982	15.00%	13.91%	1.09%	-1.97246
5/20/1982	Fully Ligated	9.20	No	Yes	9.96	15.10	30.93	12/1980	NA	Average	13	5/20/1982	15.10%	13.91%	1.19%	-1.97246
5/20/1982	Fully Ligated	3.2	No	No	13.55	15.50	29.86	12/1980	NA	NA	9	5/20/1982	15.50%	13.91%	1.59%	-1.97246
5/20/1982	Fully Ligated	34.3	No	Yes	12.31	16.30	40.44	08/1982	1,309.90	Average	8	5/20/1982	16.30%	13.91%	2.39%	-1.97246
5/21/1982	Fully Ligated	221.7	No	No	13.25	17.75	36.50	03/1982	NA	Year-end	9	5/21/1982	17.75%	13.91%	3.84%	-1.97274
5/27/1982	Fully Ligated	2.9	No	Yes	11.12	15.00	30.80	12/1980	65.30	Average	9	5/27/1982	15.00%	13.89%	1.11%	-1.97393
5/28/1982	Fully Ligated	19.3	No	No	11.91	15.50	53.24	06/1981	128.80	Year-end	6	5/28/1982	15.50%	13.89%	1.61%	-1.97418
5/28/1982	Fully Ligated	4.3	No	No	12.58	17.00	33.45	06/1981	325.50	Year-end	6	5/28/1982	17.00%	13.89%	3.11%	-1.97418
6/1/1982	Fully Ligated	24.5	No	Yes	11.04	13.75	37.24	09/1981	596.60	Year-end	13	6/1/1982	13.75%	13.89%	-0.14%	-1.97426
6/1/1982	Fully Ligated	12.7	No	Yes	12.50	16.60	36.19	09/1981	NA	Year-end	5	6/1/1982	16.60%	13.89%	2.71%	-1.97426
6/8/1982	Fully Ligated	30.8	No	No	13.09	17.86	35.29	12/1981	894.40	Date Certain	9	6/8/1982	17.86%	13.88%	3.98%	-1.97463
6/14/1982	Fully Ligated	20.4	No	No	10.99	15.75	38.00	12/1981	410.20	Average	7	6/14/1982	15.75%	13.88%	1.87%	-1.97498
6/15/1982	Fully Ligated	15.6	No	Yes	11.06	14.85	34.42	06/1982	116.0	Average	12	6/15/1982	14.85%	13.87%	0.98%	-1.97523
6/18/1982	Fully Ligated	16.6	No	No	12.26	15.50	39.90	09/1981	394.30	Year-end	5	6/18/1982	15.50%	13.86%	1.64%	-1.97581
6/21/1982	Fully Ligated	6.4	No	No	10.47	14.90	33.14	09/1981	259.90	Year-end	10	6/21/1982	14.90%	13.86%	1.04%	-1.97593
6/23/1982	Fully Ligated	72.0	No	No	11.98	16.00	41.94	09/1981	NA	Year-end	4	6/23/1982	16.00%	13.86%	2.14%	-1.9763
6/23/1982	Settled	33.7	No	No	11.56	16.17	37.31	08/1981	NA	Year-end	3	6/23/1982	16.17%	13.86%	2.13%	-1.97626
6/24/1982	Fully Ligated	4.8	No	Yes	10.13	14.85	31.92	08/1980	NA	NA	11	6/24/1982	14.85%	13.86%	0.96%	-1.97649
6/25/1982	Fully Ligated	80.0	No	Yes	10.68	14.70	41.30	09/1982	1,501.00	Year-end	11	6/25/1982	14.70%	13.85%	0.85%	-1.97689
7/1/1982	Fully Ligated	32.6	No	No	11.06	16.00	41.29	12/1982	534.90	Year-end	14	7/1/1982	16.00%	13.84%	2.16%	-1.97783
7/2/1982	Fully Ligated	65.2	No	No	11.71	15.62	35.46	10/1981	NA	Year-end	10	7/2/1982	15.62%	13.83%	1.79%	-1.97799
7/2/1982	Fully Ligated	9.5	No	No	14.26	17.00	NA	09/1981	426.30	Average	1	7/2/1982	17.00%	13.83%	3.17%	-1.97799
7/13/1982	Settled	3.2	No	No	9.48	14.00	34.69	12/1982	NA	NA	6	7/13/1982	14.00%	13.82%	0.18%	-1.97934
7/13/1982	Fully Ligated	47.7	No	No	12.41	16.80	41.70	07/1983	673.90	Average	10	7/13/1982	16.80%	13.82%	2.98%	-1.97934
7/14/1982	Fully Ligated	14.5	No	No	11.91	15.76	37.63	12/1981	532.60	Date Certain	10	7/14/1982	15.76%	13.81%	1.95%	-1.97957
7/14/1982	Fully Ligated	121.2	No	No	11.97	16.02	34.33	03/1982	2,108.70	Date Certain	9	7/14/1982	16.02%	13.81%	2.21%	-1.97957
7/19/1982	Settled	10.0	No	No	11.68	16.50	37.31	08/1981	NA	Year-end	4	7/19/1982	16.50%	13.79%	2.71%	-1.98107
7/22/1982	Fully Ligated	13.9	No	No	12.21	14.50	41.20	12/1982	189.80	Average	10	7/22/1982	14.50%	13.76%	0.74%	-1.98314
7/22/1982	Fully Ligated	122.2	Yes	Yes	11.32	17.00	36.42	06/1982	1,433.30	Year-end	11	7/22/1982	17.00%	13.76%	3.24%	-1.98314
7/27/1982	Fully Ligated	11.2	No	No	10.15	16.75	35.50	09/1981	271.70	Year-end	7	7/27/1982	16.75%	13.74%	3.01%	-1.98474
7/29/1982	Fully Ligated	88.2	No	No	12.54	16.50	39.72	12/1981	1,225.40	Year-end	4	7/29/1982	16.50%	13.73%	2.77%	-1.98548
8/11/1982	Fully Ligated	63.3	No	No	10.66	17.50	32.74	09/1981	1,352.10	Year-end	8	8/11/1982	17.50%	13.68%	3.82%	-1.98949
8/18/1982	Fully Ligated	73.7	No	Yes	12.54	17.07	35.24	12/1982	NA	NA	7	8/18/1982	17.07%</			

1/11/1983	Fully Ltiqated	33.5	No	No	13.05	15.90	NA	12/1983	1,417.30	Average	10	1/11/1983	15.90%	12.34%	3.56%	-2.0924
1/12/1983	Settled	4.4	No	No	9.83	14.63	29.00	12/1983	NA	NA	6	1/12/1983	14.63%	12.32%	2.31%	-2.0937
1/12/1983	Fully Ltiqated	69.9	No	No	11.98	15.50	42.82	12/1983	NA	NA	10	1/12/1983	15.50%	12.32%	3.18%	-2.0937
1/20/1983	Fully Ltiqated	81.2	No	No	11.75	17.75	35.77	12/1981	1,572.10	Year-end	10	1/20/1983	17.75%	12.23%	5.52%	-2.10143
1/21/1983	Fully Ltiqated	47.5	No	No	11.75	15.00	34.70	08/1983	531.20	Average	5	1/21/1983	15.00%	12.21%	2.79%	-2.10284
1/24/1983	Fully Ltiqated	2.7	No	Yes	10.97	14.50	30.90	12/1981	68.20	Average	9	1/24/1983	14.50%	12.20%	2.30%	-2.10381
1/24/1983	Fully Ltiqated	16.8	No	No	12.79	15.50	44.59	12/1983	1,818.30	Average	11	1/24/1983	15.50%	12.20%	3.30%	-2.10381
1/25/1983	Fully Ltiqated	111.3	No	Yes	10.10	15.85	28.87	12/1982	1,971.50	Average	6	1/25/1983	15.85%	12.19%	3.68%	-2.1049
1/27/1983	Fully Ltiqated	105.9	No	Yes	11.64	16.14	35.10	12/1982	1,779.30	Year-end	9	1/27/1983	16.14%	12.18%	3.98%	-2.1069
2/1/1983	Fully Ltiqated	17.5	No	No	13.01	18.50	36.00	12/1981	303.20	Average	10	2/1/1983	18.50%	12.13%	6.37%	-2.10983
2/4/1983	Fully Ltiqated	24.0	No	No	11.46	14.00	36.00	09/1983	1,048.00	Average	10	2/4/1983	14.00%	12.09%	1.91%	-2.11251
2/10/1983	Fully Ltiqated	7.7	No	No	10.89	15.00	39.93	12/1981	NA	Average	10	2/10/1983	15.00%	12.05%	2.95%	-2.116
2/21/1983	Fully Ltiqated	20.4	No	Yes	11.54	15.50	37.00	12/1981	NA	Year-end	14	2/21/1983	15.50%	11.98%	3.52%	-2.12216
2/22/1983	Fully Ltiqated	24.1	No	No	11.10	15.50	39.21	09/1982	1,015.30	Average	6	2/22/1983	15.50%	11.98%	3.54%	-2.12321
2/23/1983	Fully Ltiqated	28.4	No	Yes	11.11	15.10	39.80	12/1983	659.80	NA	7	2/23/1983	15.10%	11.95%	3.15%	-2.12425
2/23/1983	Fully Ltiqated	9.4	No	Yes	11.67	16.00	33.38	12/1981	NA	Year-end	9	2/23/1983	16.00%	11.95%	4.05%	-2.12425
3/2/1983	Fully Ltiqated	39.7	No	No	10.15	15.25	39.46	06/1982	1,000.10	Year-end	5	3/2/1983	15.25%	11.89%	3.36%	-2.12986
3/9/1983	Fully Ltiqated	267.0	No	No	10.92	15.20	49.50	03/1984	5,737.20	Average	10	3/9/1983	15.20%	11.82%	3.38%	-2.13554
3/15/1983	Fully Ltiqated	40.7	No	Yes	10.88	13.00	40.80	06/1982	1,545.70	Year-end	13	3/15/1983	13.00%	11.76%	1.24%	-2.14008
3/18/1983	Fully Ltiqated	13.0	No	No	11.20	15.25	38.10	06/1982	779.40	Year-end	5	3/18/1983	15.25%	11.72%	3.53%	-2.14375
3/23/1983	Fully Ltiqated	56.4	No	No	11.97	15.40	41.97	03/1984	2,643.30	Average	10	3/23/1983	15.40%	11.68%	3.72%	-2.14762
3/24/1983	Fully Ltiqated	12.3	No	No	11.49	15.00	42.25	12/1983	532.70	Average	8	3/24/1983	15.00%	11.68%	3.34%	-2.14896
3/29/1983	Fully Ltiqated	16.1	No	No	10.66	15.50	32.75	06/1982	289.90	Year-end	7	3/29/1983	15.50%	11.62%	3.88%	-2.15283
3/30/1983	Settled	30.7	No	No	12.29	16.71	36.20	03/1983	NA	Date Certain	9	3/30/1983	16.71%	11.60%	5.11%	-2.15424
3/31/1983	Fully Ltiqated	203.4	No	Yes	9.38	15.00	28.37	12/1982	6,276.80	Average	18	3/31/1983	15.00%	11.58%	3.42%	-2.15551
4/4/1983	Fully Ltiqated	5.3	No	No	11.81	15.20	37.20	12/1981	151.80	Average	9	4/4/1983	15.20%	11.57%	3.5%	-2.15702
4/6/1983	Fully Ltiqated	15.2	No	No	11.52	15.50	35.99	03/1982	584.30	Year-end	9	4/6/1983	15.50%	11.49%	4.01%	-2.1633
4/11/1983	Fully Ltiqated	16.8	No	No	11.60	14.81	35.30	12/1981	366.10	Year-end	9	4/11/1983	14.81%	11.48%	3.33%	-2.16497
4/19/1983	Fully Ltiqated	8.4	No	No	10.94	14.50	35.29	12/1983	174.20	Average	11	4/19/1983	14.50%	11.38%	3.14%	-2.17468
4/20/1983	Fully Ltiqated	5.0	Yes	No	12.57	16.00	38.50	12/1983	NA	NA	11	4/20/1983	16.00%	11.35%	4.65%	-2.17625
4/29/1983	Fully Ltiqated	12.0	No	No	12.07	16.00	32.98	06/1982	321.70	Year-end	6	4/29/1983	16.00%	11.23%	4.77%	-2.18635
5/1/1983	Fully Ltiqated	3.9	No	No	10.42	14.50	40.00	06/1982	NA	Average	5	5/1/1983	14.50%	11.23%	3.27%	-2.18635
5/9/1983	Fully Ltiqated	8.0	No	No	12.12	15.50	38.34	10/1982	NA	Year-end	3	5/9/1983	15.50%	11.14%	4.36%	-2.19444
5/11/1983	Fully Ltiqated	23.3	No	No	12.63	16.46	38.39	03/1983	1,163.30	Date Certain	4	5/11/1983	16.46%	11.11%	5.35%	-2.1972
5/12/1983	Fully Ltiqated	31.9	No	Yes	11.63	14.14	39.93	12/1981	468.60	Average	9	5/12/1983	14.14%	11.10%	3.04%	-2.19858
5/18/1983	Fully Ltiqated	122.9	No	Yes	10.90	15.00	27.94	12/1982	5,137.30	Average	22	5/18/1983	15.00%	11.04%	3.96%	-2.20386
5/23/1983	Settled	3.1	No	No	11.13	14.90	45.09	12/1982	NA	NA	10	5/23/1983	14.90%	11.00%	3.90%	-2.20739
5/23/1983	Fully Ltiqated	54.4	No	Yes	12.19	15.50	41.52	08/1983	1,475.70	Average	8	5/23/1983	15.50%	11.00%	4.50%	-2.20739
5/25/1983	Fully Ltiqated	8.8	No	No	11.90	15.50	37.46	12/1983	193.40	Year-end	10	5/25/1983	15.50%	10.97%	4.53%	-2.20983
5/27/1983	Fully Ltiqated	5.1	No	No	11.69	15.00	33.37	12/1982	NA	Year-end	17	5/27/1983	15.00%	10.95%	4.05%	-2.21212
5/31/1983	Fully Ltiqated	2.7	No	No	10.54	14.00	47.12	05/1984	353.80	Average	10	5/31/1983	14.00%	10.94%	3.08%	-2.21313
5/31/1983	Fully Ltiqated	31.1	No	No	11.30	15.50	32.86	08/1982	1,107.00	Year-end	6	5/31/1983	15.50%	10.94%	4.58%	-2.21313
6/2/1983	Fully Ltiqated	4.5	No	No	11.68	14.50	42.75	12/1983	190.10	Average	11	6/2/1983	14.50%	10.82%	3.58%	-2.21497
6/17/1983	Fully Ltiqated	1.7	No	No	10.75	15.00	37.69	12/1982	2,222.10	Year-end	10	6/17/1983	15.00%	10.83%	4.20%	-2.2285
7/1/1983	Fully Ltiqated	49.9	No	No	10.96	14.80	40.30	02/1983	2,899.80	Average	6	7/1/1983	14.80%	10.77%	4.03%	-2.22857
7/1/1983	Fully Ltiqated	11.8	No	No	11.24	14.90	33.43	09/1982	290.20	Year-end	10	7/1/1983	14.90%	10.77%	4.13%	-2.22857
7/8/1983	Fully Ltiqated	31.1	No	Yes	12.19	16.25	36.45	09/1982	523.10	Year-end	10	7/8/1983	16.25%	10.75%	5.05%	-2.23006
7/13/1983	Fully Ltiqated	34.1	No	Yes	11.23	13.20	39.17	03/1982	1,509.70	Year-end	12	7/13/1983	13.20%	10.75%	2.45%	-2.23069
7/19/1983	Fully Ltiqated	5.2	No	No	12.05	15.00	43.70	12/1983	162.30	Average	11	7/19/1983	15.00%	10.74%	4.26%	-2.23153
7/19/1983	Fully Ltiqated	7.8	No	No	11.91	15.10	41.92	07/1984	678.60	Average	10	7/19/1983	15.10%	10.74%	4.36%	-2.23153
7/25/1983	Fully Ltiqated	87.6	No	No	12.63	16.25	47.00	06/1982	1,097.10	Average	10	7/25/1983	16.25%	10.73%	5.52%	-2.23216
7/28/1983	Fully Ltiqated	5.4	No	No	12.18	15.90	34.84	09/1982	146.70	Year-end	6	7/28/1983	15.90%	10.74%	5.16%	-2.23152
8/3/1983	Fully Ltiqated	23.0	No	No	12.72	16.34	33.51	12/1982	978.60	Date Certain	9	8/3/1983	16.34%	10.75%	5.59%	-2.23023
8/3/1983	Fully Ltiqated	161.7	No	No	10.39	16.50	30.07	09/1982	NA	Year-end	8	8/3/1983	16.50%	10.75%	5.75%	-2.23023
8/19/1983	Settled	39.8	No	No	11.72	15.00	31.77	12/1982	1,853.90	Year-end	9	8/19/1983	15.00%	10.80%	4.20%	-2.22577
8/22/1983	Fully Ltiqated	203.3	No	No	12.26	15.50	34.80	07/1983	NA	Year-end	9	8/22/1983	15.50%	10.80%	4.70%	-2.22536
8/22/1983	Fully Ltiqated	34.7	No	No	13.16	16.40	40.00	08/1982	NA	NA	5	8/22/1983	16.40%	10.80%	5.60%	-2.22536
8/31/1983	Fully Ltiqated	5.7	No	No	12.94	14.75	45.50	06/1984	574.60	Average	7	8/31/1983	14.75%	10.85%	3.90%	-2.22148
9/7/1983	Settled	8.7	No	No	12.60	15.00	38.12	12/1982	NA	Year-end	1	9/7/1983	15.00%	10.87%	4.13%	-2.2195
9/14/1983	Settled	102.0	No	No	12.57	15.78	37.00	07/1983	2,111.10	Date Certain	9	9/14/1983	15.78%	10.88%	4.89%	-2.21896
9/15/1983	Fully Ltiqated	22.3	No	No	11.40	15.00	37.98	12/1983	459.10	Year-end	14	9/15/1983	15.00%	10.90%	4.10%	-2.21801
9/19/1983	Fully Ltiqated	90.9	No	No	11.38	14.50	38.00	09/1982	2,222.10	Year-end	7	9/19/1983	14.50%	10.91%	3.59%	-2.21555
9/20/1983	Fully Ltiqated	4.2	No	No	12.49	16.50	36.23	12/1982	439.80	Year-end	6	9/20/1983	16.50%	10.91%	5.59%	-2.21505
9/28/1983	Fully Ltiqated	34.9	No	Yes	11.39	14.50	39.33	12/1982	465.50	Year-end	12	9/28/1983	14.50%	10.94%	3.56%	-2.21245
9/29/1983	Fully Ltiqated	195.4	No	No	12.23	15.50	34.50	03/1984	NA	NA	6	9/29/1983	15.50%	10.95%	4.55%	-2.21201
9/30/1983	Fully Ltiqated	76.2	No	No	11.84	15.25	40.00	09/1982	2,549.60	Year-end	7	9/30/1983	15.25%	10.95%	4.30%	-2.21162
9/30/1983	Fully Ltiqated	6.9	No	No	12.83	16.15	42.50	06/1982	NA	NA	13	9/30/1983	16.15%	10.95%	5.20%	-2.21162
10/4/1983	Fully Ltiqated	0.7	No	No	11.85	14.80	40.00	05/1982	48.30	Year-end	9	10/4/1983	14.80%	10.96%	3.84%	-2.21094
10/7/1983	Fully Ltiqated	29.9	No	No	11.67	16.00	32.55	12/1982	980.10	Year-end	5	10/7/1983	16.00%	10.97%	5.03%	-2.20994
10/13/1983	Fully Ltiqated	21.1	Yes	No	11.72	15.52	36.16	06/1984	243.70	Average	10	10/13/1983	15.52%	10.99%	4.53%	-2.20836
10/17/1983	Fully Ltiqated	23.5	No	Yes	9.70	15.50	36.31	12/1983	1,065.50	Average	6	10/17/1983	15.50%	11.00%	4.50%	-2.20743
10/18/1983	Fully Ltiqated	10.2	No	No	11.65	14.50	38.20	12/1982	425.90	Average	11	10/18/1983	14.50%	11.00%	3.50%	-2.20692
10/19/1983	Fully Ltiqated	44.8	No	No	10.91	16.25	33.94	09/1983	NA	Year-end	9	10/19/1983	16.25%	11.01%	5.24%	-2.20642
10/19/1983	Fully Ltiqated	25.1	No	No	10.97	16.50	37.55	09/1983	NA	Year-end	9	10/19/1983</				

5/16/1984	Fully Litigated	7.6	No	Yes	9.90	14.69	33.28	12/1982	297.90	Average	10	5/16/1984	14.69%	11.99%	2.70%	-2.12133
5/16/1984	Fully Litigated	32.6	No	No	10.66	15.00	40.13	08/1983	1,080.70	Year-end	5	5/16/1984	15.00%	11.99%	3.01%	-2.12133
5/22/1984	Fully Litigated	42.2	No	Yes	10.21	14.40	38.59	03/1983	1,654.40	Year-end	6	5/22/1984	14.40%	12.02%	2.38%	-2.11833
5/29/1984	Fully Litigated	(4.4)	No	No	11.11	15.10	39.80	12/1984	NA	NA	0	5/29/1984	15.10%	12.06%	3.04%	-2.11534
6/13/1984	Fully Litigated	131.0	No	No	11.93	15.25	42.08	06/1983	2,950.50	Year-end	6	6/13/1984	15.25%	12.16%	3.09%	-2.1073
6/15/1984	Fully Litigated	196.5	Yes	No	10.40	15.80	32.07	12/1985	6,184.40	Average	6	6/15/1984	15.80%	12.17%	3.43%	-2.10597
6/22/1984	Settled	16.7	No	No	11.12	16.25	37.33	09/1984	996.80	Year-end	4	6/22/1984	16.25%	12.21%	4.04%	-2.10294
6/29/1984	Fully Litigated	34.1	No	No	11.37	15.25	35.14	08/1983	1,182.80	Year-end	6	6/29/1984	15.25%	12.28%	2.88%	-2.09898
7/2/1984	Fully Litigated	5.5	No	Yes	10.45	13.35	36.74	12/1982	NA	Average	9	7/2/1984	13.35%	12.27%	1.08%	-2.08906
7/10/1984	Fully Litigated	16.3	No	No	12.52	16.00	42.74	07/1985	728.10	Average	10	7/10/1984	16.00%	12.31%	3.69%	-2.08457
7/12/1984	Fully Litigated	282.5	No	No	12.82	16.50	39.82	12/1984	6,633.80	Average	5	7/12/1984	16.50%	12.33%	4.17%	-2.08321
7/13/1984	Fully Litigated	193.7	Yes	No	13.27	16.25	35.52	06/1983	1,039.00	Year-end	6	7/13/1984	16.25%	12.34%	3.91%	-2.08254
7/17/1984	Fully Litigated	8.3	No	No	10.76	14.14	43.55	09/1983	NA	NA	10	7/17/1984	14.14%	12.35%	1.79%	-2.08114
7/18/1984	Fully Litigated	6.8	No	No	12.44	15.30	37.41	09/1983	157.30	Year-end	6	7/18/1984	15.30%	12.36%	2.94%	-2.08049
7/18/1984	Fully Litigated	6.7	Yes	No	12.02	15.50	36.00	12/1984	NA	NA	14	7/18/1984	15.50%	12.36%	3.14%	-2.08049
7/19/1984	Settled	3.1	No	No	10.80	14.30	47.57	06/1983	NA	NA	10	7/19/1984	14.30%	12.37%	1.93%	-2.08981
7/24/1984	Fully Litigated	49.4	No	No	13.21	16.79	38.80	06/1984	2,203.50	Date Certain	9	7/24/1984	16.79%	12.40%	4.39%	-2.08771
7/31/1984	Fully Litigated	14.3	No	No	12.67	16.00	36.04	06/1983	314.40	Year-end	6	7/31/1984	16.00%	12.43%	3.57%	-2.08492
8/3/1984	Fully Litigated	4.1	No	Yes	11.65	14.25	37.32	12/1982	476.80	Average	10	8/3/1984	14.25%	12.45%	1.80%	-2.08366
8/17/1984	Fully Litigated	0.0	No	No	11.35	14.30	45.10	12/1983	883.80	Year-end	10	8/17/1984	14.30%	12.49%	1.81%	-2.08017
8/20/1984	Fully Litigated	4.9	No	Yes	12.08	15.00	38.37	12/1984	NA	Average	16	8/20/1984	15.00%	12.49%	2.51%	-2.07991
8/27/1984	Fully Litigated	245.0	No	Yes	13.75	16.30	43.31	09/1985	1,709.50	Average	15	8/27/1984	16.30%	12.51%	3.79%	-2.07873
8/31/1984	Fully Litigated	93.4	Yes	No	9.75	15.55	28.10	12/1984	NA	NA	7	8/31/1984	15.55%	12.53%	3.02%	-2.07737
9/6/1984	Fully Litigated	8.7	No	No	11.86	16.00	36.67	08/1983	NA	Year-end	8	9/6/1984	16.00%	12.54%	3.46%	-2.07638
9/10/1984	Fully Litigated	15.6	No	Yes	11.85	14.75	40.00	05/1984	267.70	Average	5	9/10/1984	14.75%	12.55%	2.20%	-2.07679
9/13/1984	Fully Litigated	57.1	No	Yes	12.10	15.00	43.02	12/1984	1,725.40	Average	8	9/13/1984	15.00%	12.55%	2.59%	-2.07607
9/17/1984	Fully Litigated	16.8	No	No	13.54	17.38	35.80	12/1983	923.80	Date Certain	9	9/17/1984	17.38%	12.58%	4.82%	-2.07467
9/26/1984	Settled	15.0	Yes	No	11.04	14.50	31.70	12/1985	NA	NA	9	9/26/1984	14.50%	12.57%	1.93%	-2.07369
9/28/1984	Settled	37.2	No	No	11.90	15.00	36.00	12/1983	1,025.00	Average	9	9/28/1984	15.00%	12.57%	2.43%	-2.07355
9/28/1984	Fully Litigated	47.5	No	No	12.74	16.25	40.55	06/1983	1,248.70	Average	1	9/28/1984	16.25%	12.57%	3.68%	-2.07355
10/8/1984	Fully Litigated	(14.4)	No	No	11.33	14.75	45.27	06/1985	490.70	Average	9	10/8/1984	14.75%	12.58%	2.17%	-2.07272
10/12/1984	Fully Litigated	(7.0)	No	No	12.39	15.60	44.02	09/1983	5,187.40	Year-end	7	10/12/1984	15.60%	12.59%	3.01%	-2.07233
10/22/1984	Fully Litigated	1.8	No	No	11.91	15.00	39.72	06/1983	397.70	Year-end	11	10/22/1984	15.00%	12.59%	2.41%	-2.07222
10/26/1984	Fully Litigated	(0.3)	No	No	12.72	16.40	36.47	12/1983	507.50	Year-end	6	10/26/1984	16.40%	12.59%	3.81%	-2.07245
10/31/1984	Fully Litigated	16.5	No	No	12.15	16.25	38.15	12/1983	512.70	Year-end	6	10/31/1984	16.25%	12.59%	3.66%	-2.07247
11/7/1984	Fully Litigated	4.7	No	No	9.75	15.60	27.76	12/1984	625.60	Average	6	11/7/1984	15.60%	12.58%	3.02%	-2.07271
11/9/1984	Settled	12.5	No	No	13.08	16.00	44.10	03/1984	270.30	Year-end	4	11/9/1984	16.00%	12.58%	3.42%	-2.0727
11/14/1984	Settled	20.4	No	Yes	12.23	15.75	36.00	06/1985	1,220.50	Average	9	11/14/1984	15.75%	12.59%	3.16%	-2.07263
11/20/1984	Fully Litigated	64.3	No	Yes	11.87	15.25	40.00	09/1983	2,346.80	Year-end	9	11/20/1984	15.25%	12.58%	2.67%	-2.0728
11/20/1984	Fully Litigated	37.9	No	No	12.10	15.92	37.80	09/1984	1,365.80	Date Certain	8	11/20/1984	15.92%	12.58%	3.34%	-2.0728
11/23/1984	Fully Litigated	3.0	No	Yes	11.73	15.00	38.95	12/1984	69.60	Average	16	11/23/1984	15.00%	12.58%	2.42%	-2.07311
11/28/1984	Fully Litigated	111.9	Yes	Yes	12.88	16.15	40.80	08/1983	NA	NA	17	11/28/1984	16.15%	12.57%	3.58%	-2.07369
12/3/1984	Settled	71.5	Yes	No	10.95	15.80	31.20	03/1984	NA	Year-end	8	12/3/1984	15.80%	12.57%	3.23%	-2.07418
12/4/1984	Fully Litigated	29.6	No	No	12.03	16.50	38.14	03/1984	396.80	Year-end	5	12/4/1984	16.50%	12.58%	3.94%	-2.07435
12/18/1984	Fully Litigated	38.7	No	No	13.63	16.40	40.00	12/1983	556.00	Year-end	6	12/18/1984	16.40%	12.54%	3.86%	-2.07657
12/19/1984	Fully Litigated	4.8	No	No	11.06	14.75	41.17	12/1983	296.50	Average	5	12/19/1984	14.75%	12.53%	2.22%	-2.07688
12/19/1984	Fully Litigated	22.9	No	Yes	10.41	15.00	34.04	12/1983	4,217.20	Year-end	8	12/19/1984	15.00%	12.53%	2.47%	-2.07688
12/20/1984	Settled	5.9	No	No	13.08	16.00	45.44	12/1983	NA	Average	8	12/20/1984	16.00%	12.53%	3.47%	-2.07722
12/28/1984	Fully Litigated	(115.8)	Yes	No	12.70	16.00	45.00	12/1985	5,133.60	Average	12	12/28/1984	16.00%	12.50%	3.50%	-2.07908
1/3/1985	Fully Litigated	(26.5)	No	No	12.43	14.75	50.54	12/1985	1,376.00	Average	11	1/3/1985	14.75%	12.49%	2.26%	-2.07999
1/10/1985	Fully Litigated	2.3	No	No	12.38	15.75	39.65	12/1983	442.50	Average	8	1/10/1985	15.75%	12.47%	3.28%	-2.082
1/11/1985	Fully Litigated	148.8	No	No	12.58	16.30	42.44	03/1984	4,158.20	Year-end	7	1/11/1985	16.30%	12.46%	3.84%	-2.08234
1/23/1985	Fully Litigated	0.0	No	No	10.75	15.80	40.29	09/1984	NA	NA	12	1/23/1985	15.80%	12.43%	3.37%	-2.08483
1/24/1985	Fully Litigated	31.4	No	No	12.10	15.82	38.20	12/1984	1,783.60	Year-end	9	1/24/1985	15.82%	12.43%	3.39%	-2.08543
1/25/1985	Fully Litigated	48.6	No	No	13.27	16.75	37.30	12/1984	3,102.60	Year-end	9	1/25/1985	16.75%	12.42%	4.33%	-2.08601
1/30/1985	Fully Litigated	7.5	No	No	12.10	14.90	40.00	12/1983	257.10	Year-end	9	1/30/1985	14.90%	12.40%	2.50%	-2.08769
1/31/1985	Fully Litigated	(11.6)	No	No	11.08	14.75	50.00	12/1985	512.10	Average	9	1/31/1985	14.75%	12.39%	2.36%	-2.08821
2/8/1985	Fully Litigated	(5.3)	No	Yes	11.29	14.47	45.50	12/1983	201.70	Average	13	2/8/1985	14.47%	12.35%	2.12%	-2.09142
3/1/1985	Fully Litigated	8.0	No	No	11.63	13.84	43.10	12/1983	136.80	Year-end	10	3/1/1985	13.84%	12.30%	1.54%	-2.09552
3/8/1985	Fully Litigated	19.5	No	No	12.99	16.85	40.43	12/1984	1,972.20	Date Certain	11	3/8/1985	16.85%	12.28%	4.25%	-2.09418
3/14/1985	Fully Litigated	49.3	No	No	12.42	15.50	43.35	03/1986	3,090.00	Average	10	3/14/1985	15.50%	12.25%	3.25%	-2.09673
3/15/1985	Settled	12.5	No	No	12.23	15.82	34.70	06/1985	405.20	Year-end	13	3/15/1985	15.82%	12.25%	3.37%	-2.09673
3/29/1985	Fully Litigated	455.0	Yes	No	12.17	15.62	37.37	12/1984	NA	Year-end	13	3/29/1985	15.62%	12.18%	3.46%	-2.10706
4/3/1985	Fully Litigated	(10.4)	No	No	9.59	14.60	27.30	03/1984	2,419.00	Year-end	13	4/3/1985	14.60%	12.13%	2.47%	-2.10973
4/8/1985	Fully Litigated	78.5	No	No	13.12	15.50	40.97	04/1986	1,965.00	Average	10	4/8/1985	15.50%	12.10%	3.40%	-2.11189
4/16/1985	Fully Litigated	16.1	No	No	12.84	15.70	42.09	04/1986	520.60	Average	10	4/16/1985	15.70%	12.05%	3.65%	-2.11607
4/22/1985	Fully Litigated	1.5	No	No	11.24	14.00	34.20	03/1984	NA	Average	9	4/22/1985	14.00%	12.01%	1.99%	-2.11931
4/26/1985	Fully Litigated	120.8	No	No	12.50	15.50	34.90	03/1985	4,599.00	Year-end	9	4/26/1985	15.50%	11.97%	3.53%	-2.12275
4/29/1985	Fully Litigated	31.6	Yes	No	11.37	15.00	45.04	12/1983	799.50	Year-end	23	4/29/1985	15.00%	11.96%	3.04%	-2.12362
5/2/1985	Fully Litigated	4.4	No	No	11.87	14.68	36.00	12/1983	434.10	Year-end	10	5/2/1985	14.68%	11.93%	2.75%	-2.12635
5/8/1985	Fully Litigated	56.0	Yes	No	11.84	15.62	37.01	12/1984	413.30	Year-end	14	5/8/1985	15.62%	11.88%	3.74%	-2.13017
5/10/1985	Settled	4.5	No	Yes	13.54	16.50	33.28	06/1984	NA	NA	8	5/10/1985	16.50%	11.86%	4.64%	-2.13191
5/29/1985	Settled	14.4	No	No	11.91	14.61	40.46	08/1984	191.90	Year-end	10	5/29/1985	14.61%	11.73%	2.88%	-2.14327
5/31/1985	Settled	36.3	No	Yes	13.00	16.00	35.90	05/1984	759.70	Average	9	5/31/1985	16.00%	11.71%	4.29%	-2.14511
6/14/1985	Settled	48.7</														

4/1/1986	Fully Ltrated	403.8	Yes	Yes	10.15	14.00	28.60	12/1985	7,344.00	Average	32	4/1/1986	14.00%	9.82%	4.18%	-2.32053
4/2/1986	Fully Ltrated	9.6	No	Yes	10.33	15.50	34.81	12/1984	NA	Year-end	9	4/2/1986	15.50%	9.81%	5.69%	-2.32211
4/4/1986	Fully Ltrated	14.2	No	No	12.00	15.00	37.05	12/1984	543.40	Average	9	4/4/1986	15.00%	9.78%	5.22%	-2.32497
4/14/1986	Fully Ltrated	4.1	No	No	11.36	13.40	40.00	12/1985	287.60	Average	7	4/14/1986	13.40%	9.68%	3.72%	-2.33465
4/23/1986	Fully Ltrated	78.2	Yes	No	11.75	15.00	37.38	12/1984	1,257.90	Year-end	17	4/23/1986	15.00%	9.57%	5.43%	-2.34642
5/16/1986	Fully Ltrated	106.9	Yes	Yes	10.10	14.50	33.70	06/1984	4,742.40	Year-end	14	5/16/1986	14.50%	9.31%	5.19%	-2.37363
5/16/1986	Settled	26.8	No	No	10.96	14.50	38.40	12/1984	1,672.50	Average	9	5/16/1986	14.50%	9.31%	5.19%	-2.37363
5/29/1986	Fully Ltrated	(1.9)	No	No	11.71	13.90	49.00	04/1987	192.50	Average	7	5/29/1986	13.90%	9.19%	4.71%	-2.38729
5/30/1986	Fully Ltrated	29.1	No	No	10.47	15.10	42.17	12/1985	1,486.30	Year-end	10	5/30/1986	15.10%	9.17%	5.83%	-2.38887
6/2/1986	Fully Ltrated	37.0	No	Yes	10.20	12.91	45.00	06/1986	2,184.00	Average	10	6/2/1986	12.91%	9.16%	3.65%	-2.39039
6/11/1986	Fully Ltrated	0.0	No	No	11.19	14.00	39.52	06/1985	1,802.40	Year-end	6	6/11/1986	14.00%	9.06%	4.94%	-2.40093
6/24/1986	Fully Ltrated	37.0	No	No	12.87	16.63	40.69	03/1986	2,015.90	Date Certain	11	6/24/1986	16.63%	8.93%	7.70%	-2.41577
6/26/1986	Fully Ltrated	0.1	No	No	10.48	12.00	42.40	06/1985	NA	NA	6	6/26/1986	12.00%	8.90%	3.10%	-2.41955
6/26/1986	Fully Ltrated	350.8	Yes	No	12.26	14.75	38.40	06/1986	6,000.10	Year-end	9	6/26/1986	14.75%	8.90%	5.85%	-2.41955
6/30/1986	Fully Ltrated	(5.8)	Yes	No	11.18	13.00	37.15	06/1985	347.20	Year-end	6	6/30/1986	13.00%	8.86%	4.14%	-2.42346
7/10/1986	Fully Ltrated	11.8	No	No	11.65	14.34	37.66	03/1986	2,039.60	Date Certain	12	7/10/1986	14.34%	8.74%	5.60%	-2.43725
7/11/1986	Fully Ltrated	1.0	No	No	10.10	12.75	40.00	12/1984	1,109.00	Average	2	7/11/1986	12.75%	8.72%	4.03%	-2.43923
7/14/1986	Fully Ltrated	20.8	Yes	No	10.75	12.60	45.16	07/1987	1,079.00	Average	10	7/14/1986	12.60%	8.71%	3.89%	-2.44121
7/17/1986	Fully Ltrated	13.3	No	No	10.66	12.40	44.40	07/1987	649.40	Average	10	7/17/1986	12.40%	8.65%	3.75%	-2.44705
7/25/1986	Fully Ltrated	59.8	No	No	10.28	14.25	40.10	06/1986	1,202.90	Year-end	9	7/25/1986	14.25%	8.56%	5.69%	-2.45858
8/6/1986	Fully Ltrated	113.0	No	No	9.75	13.50	35.67	06/1985	NA	Year-end	13	8/6/1986	13.50%	8.43%	5.07%	-2.47304
8/14/1986	Fully Ltrated	(5.4)	No	No	10.94	13.50	46.78	07/1987	610.90	Average	7	8/14/1986	13.50%	8.34%	5.16%	-2.48403
9/16/1986	Settled	2.4	No	No	10.10	12.75	40.00	12/1984	NA	NA	12	9/16/1986	12.75%	8.06%	4.69%	-2.51882
9/19/1986	Fully Ltrated	12.0	No	No	10.42	13.25	35.30	06/1985	325.20	Average	9	9/19/1986	13.25%	8.02%	5.23%	-2.52286
10/1/1986	Fully Ltrated	1.6	No	No	11.40	14.00	39.58	12/1984	2,486.40	Year-end	16	10/1/1986	14.00%	7.94%	6.08%	-2.5331
10/3/1986	Fully Ltrated	133.1	No	No	10.92	13.40	46.30	12/1985	3,374.10	Year-end	6	10/3/1986	13.40%	7.92%	5.89%	-2.5354
10/5/1986	Fully Ltrated	(17.4)	No	No	10.44	13.50	44.21	12/1986	NA	Year-end	0	10/5/1986	13.50%	7.77%	5.73%	-2.55645
11/5/1986	Fully Ltrated	79.1	No	No	10.68	13.00	46.43	12/1985	1,432.90	Year-end	6	11/5/1986	13.00%	7.74%	5.26%	-2.55899
12/3/1986	Fully Ltrated	3.7	No	No	NA	12.90	NA	12/1985	NA	NA	5	12/3/1986	12.90%	7.58%	5.32%	-2.58008
12/4/1986	Fully Ltrated	113.1	No	No	11.37	14.44	47.28	12/1985	4,687.40	Year-end	8	12/4/1986	14.44%	7.57%	6.87%	-2.58116
12/16/1986	Settled	1.8	No	No	10.39	13.60	40.70	03/1986	NA	Date Certain	10	12/16/1986	13.60%	7.52%	6.08%	-2.58774
12/22/1986	Fully Ltrated	108.2	Yes	No	11.44	13.80	44.50	12/1987	NA	NA	12	12/22/1986	13.80%	7.50%	6.30%	-2.58983
12/30/1986	Fully Ltrated	(28.8)	No	No	11.55	13.00	53.00	12/1987	1,582.50	Average	10	12/30/1986	13.00%	7.49%	5.51%	-2.59185
12/1987	Fully Ltrated	8.3	Yes	No	11.55	13.00	47.87	12/1985	NA	Average	8	12/1987	13.00%	7.48%	5.52%	-2.59255
1/12/1987	Fully Ltrated	2.4	No	No	11.74	12.40	42.14	12/1985	NA	NA	9	1/12/1987	12.40%	7.46%	4.94%	-2.59509
1/27/1987	Fully Ltrated	4.4	No	No	10.88	12.71	36.13	12/1986	NA	Average	11	1/27/1987	12.71%	7.46%	5.25%	-2.59583
3/2/1987	Fully Ltrated	1.2	No	No	9.43	12.47	37.67	12/1985	299.60	Average	10	3/2/1987	12.47%	7.47%	5.00%	-2.59387
3/3/1987	Fully Ltrated	3.7	No	No	11.72	13.80	40.00	06/1986	NA	Average	5	3/3/1987	13.80%	7.47%	6.13%	-2.59381
3/4/1987	Fully Ltrated	20.5	No	Yes	10.54	12.38	43.34	12/1985	453.00	Average	10	3/4/1987	12.38%	7.47%	4.91%	-2.59383
3/10/1987	Fully Ltrated	(18.6)	No	No	11.18	13.50	41.00	03/1987	1,754.30	Year-end	9	3/10/1987	13.50%	7.47%	6.03%	-2.59412
3/13/1987	Fully Ltrated	75.1	No	No	10.45	13.00	37.04	03/1988	4,526.90	Average	10	3/13/1987	13.00%	7.47%	5.53%	-2.59411
3/13/1987	Settled	(15.0)	No	No	10.64	13.00	48.85	07/1988	609.50	Average	2	3/13/1987	13.00%	7.46%	5.54%	-2.59513
4/6/1987	Settled	344.2	No	No	10.85	13.00	47.13	03/1986	6,377.30	Year-end	28	4/6/1987	13.00%	7.47%	5.53%	-2.59411
4/14/1987	Fully Ltrated	(30.1)	No	Yes	9.88	12.50	42.32	12/1985	650.34	Year-end	10	4/14/1987	12.50%	7.49%	5.01%	-2.58125
4/16/1987	Fully Ltrated	8.1	No	Yes	10.87	14.50	35.92	12/1985	995.00	Year-end	13	4/16/1987	14.50%	7.50%	7.00%	-2.58001
4/27/1987	Fully Ltrated	7.3	No	Yes	10.03	12.00	45.00	06/1987	NA	NA	10	4/27/1987	12.00%	7.54%	4.46%	-2.58479
5/5/1987	Fully Ltrated	(76.2)	No	No	9.78	12.85	42.98	06/1986	3,121.10	Average	5	5/5/1987	12.85%	7.58%	5.27%	-2.57904
5/12/1987	Fully Ltrated	(21.9)	No	No	9.80	12.65	42.09	06/1986	1,136.80	Average	6	5/12/1987	12.65%	7.62%	5.03%	-2.57419
5/28/1987	Fully Ltrated	(8.8)	No	No	11.49	13.50	47.90	04/1988	206.40	Average	7	5/28/1987	13.50%	7.70%	5.80%	-2.56423
6/15/1987	Fully Ltrated	27.1	No	No	10.48	13.20	36.90	07/1988	1,087.60	Average	9	6/15/1987	13.20%	7.78%	5.42%	-2.55331
6/29/1987	Fully Ltrated	20.5	No	Yes	14.94	15.00	32.14	09/1985	NA	NA	13	6/29/1987	15.00%	7.84%	7.16%	-2.54654
6/30/1987	Fully Ltrated	11.6	No	No	10.32	12.50	37.37	06/1986	431.60	Year-end	6	6/30/1987	12.50%	7.84%	4.66%	-2.54604
7/8/1987	Fully Ltrated	(14.7)	No	No	10.20	12.00	39.86	NA	NA	NA	3	7/8/1987	12.00%	7.86%	4.14%	-2.5436
7/10/1987	Fully Ltrated	(1.3)	No	No	11.08	12.90	48.01	12/1987	510.60	Average	14	7/10/1987	12.90%	7.87%	5.03%	-2.54272
7/15/1987	Fully Ltrated	28.9	Yes	No	9.06	13.50	27.56	12/1985	2,077.70	Year-end	7	7/15/1987	13.50%	7.88%	5.62%	-2.54104
7/16/1987	Fully Ltrated	(13.0)	No	No	11.42	13.50	35.80	02/1987	395.90	Year-end	13	7/16/1987	13.50%	7.88%	5.62%	-2.54043
7/16/1987	Fully Ltrated	115.2	Yes	Yes	11.27	15.00	29.33	12/1985	2,801.10	Average	44	7/16/1987	15.00%	7.88%	7.12%	-2.54043
7/27/1987	Fully Ltrated	(26.3)	No	No	9.08	13.00	40.95	12/1986	NA	NA	0	7/27/1987	13.00%	7.92%	5.08%	-2.53535
7/27/1987	Fully Ltrated	0.7	No	No	10.36	13.40	36.50	07/1988	764.40	Average	11	7/27/1987	13.40%	7.92%	5.48%	-2.53535
7/27/1987	Fully Ltrated	(3.5)	No	No	10.67	13.50	NA	NA	NA	NA	6	7/27/1987	13.50%	7.92%	5.48%	-2.53535
7/31/1987	Fully Ltrated	(40.7)	No	No	10.86	12.98	43.00	03/1986	2,892.50	Year-end	5	7/31/1987	12.98%	7.95%	5.03%	-2.53535
8/25/1987	Fully Ltrated	92.45	No	No	10.45	12.53	NA	NA	NA	NA	7	8/25/1987	12.53%	8.06%	4.57%	-2.51856
8/26/1987	Fully Ltrated	23.2	No	No	10.50	12.75	42.80	03/1986	655.40	Year-end	6	8/26/1987	12.75%	8.06%	4.69%	-2.51856
8/27/1987	Settled	(2.6)	No	No	NA	13.25	NA	NA	NA	NA	5	8/27/1987	13.25%	8.07%	5.18%	-2.51762
9/8/1987	Fully Ltrated	5.0	No	No	NA	13.00	NA	03/1986	NA	Year-end	16	9/8/1987	13.00%	8.14%	4.86%	-2.50822
9/30/1987	Settled	(20.9)	No	Yes	11.14	12.75	42.28	12/1987	NA	NA	19	9/30/1987	12.75%	8.31%	4.44%	-2.48758
9/30/1987	Fully Ltrated	464.1	Yes	No	11.03	13.00	37.05	09/1988	6,369.20	Average	6	9/30/1987	13.00%	8.31%	4.69%	-2.48758
10/2/1987	Fully Ltrated	(13.1)	No	No	9.69	11.50	43.41	09/1986	672.60	Average	10	10/2/1987	11.50%	8.33%	3.17%	-2.48473
10/15/1987	Settled	(1.5)	No	No	NA	13.00	NA	NA	NA	NA	7	10/15/1987	13.00%	8.44%	4.56%	-2.47248
11/2/1987	Fully Ltrated	6.6	No	No	10.93	13.00	43.51	09/1986	NA	Year-end	9	11/2/1987	13.00%	8.55%	4.45%	-2.45882
11/19/1987	Fully Ltrated	(4.5)	No	No	NA	13.00	NA	12/1986	NA	NA	0	11/19/1987	13.00%	8.64%	4.36%	-2.4486
11/30/1987	Fully Ltrated	28.0	No	No	10.90	12.00	45.93	03/1987	482.60	Year-end	6	11/30/1987	12.00%	8.69%	3.31%	-2.44343
12/3/1987	Fully Ltrated	0.0	No	No	11.25	14.20	29.91	09/1988	1,765.70	Average	12	12/3/1987	14.20%	8.71%	5.49%	-2.4408
12/15/1987	Fully Ltrated	(27.6)	No	No	10.47	13.25	46.00	06/1987	NA	NA	15	12/15/1987	13.25%	8.78%	4.47%	-2.43287
12/16/1987	Fully Ltrated	69.7	No	Yes	11.53	13.50	37.54	07/1987	927.90	Date Certain	13	12/16/1987	13.50%	8.79%	4.71%	-2.43173
12/16/1987	F															

4/18/1989	Fully Ltrqated	(2.7)	No	No	10.49	13.00	36.80	07/1989	743.40	Average	12	4/18/1989	13.00%	9.05%	3.95%	-2.40186
5/5/1989	Fully Ltrqated	14.7	No	No	10.87	12.40	46.61	06/1988	427.20	Year-end	6	5/5/1989	12.40%	9.05%	3.35%	-2.40254
6/2/1989	Fully Ltrqated	24.2	No	Yes	10.63	13.20	49.78	06/1988	608.30	Average	10	6/2/1989	13.20%	9.00%	4.20%	-2.40779
6/8/1989	Fully Ltrqated	7.3	No	No	12.02	13.50	47.81	05/1990	234.20	Average	8	6/8/1989	13.50%	8.98%	4.52%	-2.41014
6/27/1989	Fully Ltrqated	21.8	Yes	No	10.68	13.25	46.20	09/1988	1,639.40	Year-end	5	6/27/1989	13.25%	8.91%	4.34%	-2.41175
6/30/1989	Fully Ltrqated	17.5	No	No	10.38	13.00	36.58	06/1988	557.80	Year-end	6	6/30/1989	13.00%	8.90%	4.10%	-2.41903
8/14/1989	Fully Ltrqated	(18.5)	No	No	10.44	12.50	44.00	12/1987	838.50	Average	13	8/14/1989	12.50%	8.77%	3.73%	-2.43425
9/28/1989	Fully Ltrqated	218.1	Yes	No	10.80	12.25	37.49	04/1990	7,934.00	Average	5	9/28/1989	12.25%	8.63%	3.62%	-2.45023
10/24/1989	Fully Ltrqated	43.2	No	No	9.17	12.50	44.07	09/1988	789.00	Year-end	11	10/24/1989	12.50%	8.54%	3.98%	-2.45048
11/8/1989	Fully Ltrqated	3.7	No	No	10.21	13.00	49.50	07/1990	635.90	Average	10	11/8/1989	13.00%	8.48%	4.52%	-2.46706
12/15/1989	Fully Ltrqated	21.5	No	No	10.01	13.00	43.06	08/1989	3,472.80	Average	6	12/15/1989	13.00%	8.33%	4.67%	-2.48477
12/20/1989	Fully Ltrqated	174.2	Yes	No	10.98	12.90	46.75	12/1990	NA	NA	12	12/20/1989	12.90%	8.31%	4.59%	-2.48712
12/21/1989	Fully Ltrqated	(7.3)	No	No	NA	12.90	53.60	12/1990	NA	Average	8	12/21/1989	12.90%	8.31%	4.59%	-2.48789
12/27/1989	Fully Ltrqated	8.0	No	No	11.42	12.50	56.61	12/1990	365.80	Average	6	12/27/1989	12.50%	8.29%	4.21%	-2.49024
12/27/1989	Settled	5.8	No	No	NA	13.00	NA	12/1988	NA	NA	6	12/27/1989	13.00%	8.29%	4.71%	-2.49024
1/10/1990	Fully Ltrqated	0.0	No	No	NA	12.80	NA	NA	NA	NA	0	1/10/1990	12.80%	8.24%	4.56%	-2.49648
1/11/1990	Fully Ltrqated	(29.7)	No	No	11.47	12.90	54.18	12/1990	1,677.00	Average	8	1/11/1990	12.90%	8.23%	4.67%	-2.49702
1/17/1990	Fully Ltrqated	29.7	No	No	10.22	12.80	41.50	09/1988	1,846.70	Average	11	1/17/1990	12.80%	8.22%	4.58%	-2.49811
1/26/1990	Settled	3.8	No	No	10.84	12.00	50.51	12/1988	NA	Average	6	1/26/1990	12.00%	8.19%	3.81%	-2.50194
2/8/1990	Fully Ltrqated	(38.8)	No	Yes	10.21	12.10	45.00	12/1988	NA	Average	7	2/8/1990	12.10%	8.17%	3.93%	-2.50448
2/24/1990	Fully Ltrqated	8.6	No	Yes	11.30	12.86	48.65	03/1989	220.00	Year-end	7	2/24/1990	12.86%	8.15%	4.71%	-2.50752
3/30/1990	Fully Ltrqated	40.9	No	No	9.73	12.90	41.35	06/1989	625.60	Year-end	6	3/30/1990	12.90%	8.16%	4.74%	-2.50691
4/4/1990	Fully Ltrqated	(37.3)	No	No	9.97	15.76	33.36	12/1988	1,565.90	Year-end	12	4/4/1990	15.76%	8.17%	7.59%	-2.50524
4/12/1990	Fully Ltrqated	(2.9)	No	No	9.95	12.52	44.33	12/1988	861.10	Year-end	10	4/12/1990	12.52%	8.18%	4.34%	-2.50352
4/19/1990	Fully Ltrqated	242.3	No	No	11.23	12.75	36.20	03/1990	9,150.30	Year-end	9	4/19/1990	12.75%	8.20%	4.55%	-2.50141
5/21/1990	Fully Ltrqated	13.8	No	No	10.15	12.10	38.90	04/1991	735.90	Average	12	5/21/1990	12.10%	8.28%	4.82%	-2.49082
5/28/1990	Settled	3.6	No	No	11.28	12.40	41.89	06/1989	NA	Average	6	5/28/1990	12.40%	8.30%	4.10%	-2.49915
5/31/1990	Fully Ltrqated	14.0	No	No	10.77	12.00	48.92	03/1989	253.90	Average	9	5/31/1990	12.00%	8.30%	3.70%	-2.48989
6/4/1990	Settled	3.8	No	No	10.67	12.90	37.39	06/1989	NA	Average	4	6/4/1990	12.90%	8.30%	4.60%	-2.48939
6/6/1990	Fully Ltrqated	74.8	No	No	10.11	12.25	33.54	12/1990	2,451.00	Year-end	10	6/6/1990	12.25%	8.31%	3.94%	-2.49812
6/15/1990	Fully Ltrqated	3.1	No	No	11.34	13.20	51.37	05/1991	243.30	Average	8	6/15/1990	13.20%	8.32%	4.88%	-2.48695
6/20/1990	Fully Ltrqated	227.0	No	Yes	10.61	12.92	43.23	09/1988	6,042.10	Year-end	19	6/20/1990	12.92%	8.32%	4.60%	-2.48622
6/27/1990	Fully Ltrqated	(7.3)	No	No	10.27	12.90	50.16	07/1991	646.90	Average	6	6/27/1990	12.90%	8.33%	4.57%	-2.485
6/29/1990	Fully Ltrqated	20.0	No	No	10.22	12.50	37.61	06/1989	NA	Year-end	6	6/29/1990	12.50%	8.34%	4.16%	-2.48447
7/6/1990	Fully Ltrqated	36.1	No	No	9.91	12.10	40.48	06/1991	1,161.80	Average	10	7/6/1990	12.10%	8.34%	3.76%	-2.48421
7/6/1990	Fully Ltrqated	9.5	No	No	9.78	12.35	41.78	12/1989	1,159.70	Average	10	7/6/1990	12.35%	8.34%	4.01%	-2.48421
8/10/1990	Fully Ltrqated	14.1	No	Yes	8.10	12.55	30.76	12/1990	861.20	Average	7	8/10/1990	12.55%	8.41%	4.14%	-2.47574
8/16/1990	Fully Ltrqated	142.4	No	No	11.20	13.21	43.53	12/1989	4,045.60	Date Certain	12	8/16/1990	13.21%	8.43%	4.78%	-2.47358
8/22/1990	Fully Ltrqated	13.1	No	Yes	10.99	13.10	41.98	06/1989	NA	Year-end	8	8/22/1990	13.10%	8.45%	4.65%	-2.47102
8/24/1990	Fully Ltrqated	14.3	Yes	No	8.79	13.00	33.30	03/1989	1,861.60	Year-end	13	8/24/1990	13.00%	8.46%	4.54%	-2.4695
9/26/1990	Settled	10.5	No	No	9.87	11.45	43.28	07/1991	515.10	Average	13	9/26/1990	11.45%	8.59%	2.86%	-2.4542
10/2/1990	Fully Ltrqated	6.4	No	No	11.17	13.00	49.90	12/1989	79.70	Year-end	6	10/2/1990	13.00%	8.61%	4.39%	-2.45181
10/5/1990	Fully Ltrqated	124.0	No	No	11.00	12.84	41.42	12/1989	405.70	Year-end	10	10/5/1990	12.84%	8.63%	4.21%	-2.45034
10/19/1990	Settled	14.4	No	No	11.17	13.00	NA	09/1988	NA	Average	20	10/19/1990	13.00%	8.67%	4.82%	-2.45648
10/25/1990	Fully Ltrqated	24.1	No	Yes	10.25	12.30	47.87	09/1989	506.70	Year-end	10	10/25/1990	12.30%	8.68%	3.62%	-2.44437
11/21/1990	Settled	95.5	No	No	10.67	12.70	50.20	06/1990	1,952.00	Year-end	12	11/21/1990	12.70%	8.69%	4.01%	-2.44262
12/13/1990	Fully Ltrqated	36.2	No	No	9.77	12.30	45.40	12/1990	1,311.80	Year-end	9	12/13/1990	12.30%	8.67%	3.63%	-2.44449
12/17/1990	Fully Ltrqated	77.0	No	No	9.94	12.87	40.75	07/1990	3,729.20	Average	7	12/17/1990	12.87%	8.67%	4.20%	-2.44546
12/18/1990	Fully Ltrqated	10.9	No	No	11.40	13.10	50.98	12/1991	545.60	Average	8	12/18/1990	13.10%	8.67%	4.43%	-2.44576
12/19/1990	Settled	2.4	No	No	9.73	12.00	42.50	12/1989	NA	Average	5	12/19/1990	12.00%	8.66%	3.34%	-2.44601
12/20/1990	Settled	13.0	No	No	10.62	12.75	NA	NA	NA	NA	5	12/20/1990	12.75%	8.66%	4.09%	-2.44619
12/21/1990	Fully Ltrqated	6.2	No	No	9.52	12.50	44.00	04/1990	1,269.50	Year-end	5	12/21/1990	12.50%	8.66%	3.84%	-2.44633
12/27/1990	Settled	6.1	No	No	NA	12.79	NA	09/1990	NA	NA	3	12/27/1990	12.79%	8.66%	4.13%	-2.44672
12/29/1991	Fully Ltrqated	35.4	No	No	11.62	13.10	53.57	12/1991	1,738.70	Average	8	1/2/1991	13.10%	8.66%	4.44%	-2.44694
1/4/1991	Fully Ltrqated	7.3	No	No	10.96	12.50	47.39	12/1989	157.70	Average	8	1/4/1991	12.50%	8.65%	3.85%	-2.44737
1/15/1991	Fully Ltrqated	7.3	No	No	11.74	12.75	58.62	12/1991	389.20	Average	7	1/15/1991	12.75%	8.65%	4.10%	-2.44817
1/25/1991	Fully Ltrqated	50.3	No	No	10.17	11.70	41.96	12/1991	3,061.30	Average	11	1/25/1991	11.70%	8.63%	3.07%	-2.45025
2/4/1991	Settled	26.9	No	No	10.52	12.50	42.96	12/1991	1,573.50	Average	10	2/4/1991	12.50%	8.60%	3.90%	-2.45313
2/7/1991	Fully Ltrqated	36.7	No	Yes	10.71	12.50	31.31	09/1989	548.20	Year-end	10	2/7/1991	12.50%	8.59%	3.91%	-2.45489
2/12/1991	Settled	10.4	Yes	No	NA	13.00	NA	12/1991	NA	NA	7	2/12/1991	12.50%	8.59%	3.91%	-2.45489
2/14/1991	Fully Ltrqated	13.9	No	No	10.27	12.72	40.62	12/1989	330.40	Year-end	8	2/14/1991	13.00%	8.57%	4.26%	-2.45648
2/22/1991	Settled	(3.7)	No	No	10.66	12.90	50.10	12/1989	199.40	Average	6	2/22/1991	12.72%	8.56%	4.16%	-2.4575
3/6/1991	Fully Ltrqated	5.7	No	Yes	10.46	13.10	43.71	12/1990	124.29	Average	19	3/6/1991	13.10%	8.53%	4.25%	-2.45187
3/8/1991	Fully Ltrqated	34.2	No	Yes	10.52	12.30	42.57	12/1989	1,065.90	Average	9	3/8/1991	12.30%	8.52%	3.78%	-2.46225
3/8/1991	Fully Ltrqated	750.2	No	No	11.16	13.00	47.10	12/1991	14,485.10	Average	11	3/8/1991	13.00%	8.52%	4.48%	-2.46225
4/22/1991	Fully Ltrqated	79.8	No	Yes	10.33	13.00	38.32	12/1989	6,592.40	Year-end	12	4/22/1991	13.00%	8.49%	4.51%	-2.46624
5/7/1991	Fully Ltrqated	(44.6)	No	No	8.99	13.50	24.50	12/1991	2,935.60	Year-end	19	5/7/1991	13.50%	8.47%	5.03%	-2.46821
5/13/1991	Fully Ltrqated	25.5	No	Yes	10.77	13.25	43.67	12/1989	916.00	Year-end	13	5/13/1991	13.25%	8.47%	4.78%	-2.46867
5/30/1991	Fully Ltrqated	19.7	No	No	9.98	12.75	41.99	12/1990	1,434.30	Average	7	5/30/1991	12.75%	8.43%	4.32%	-2.47303
6/12/1991	Fully Ltrqated	19.4	No	No	9.89	12.00	43.19	12/1989	710.40	Average	10	6/12/1991	12.00%	8.41%	3.59%	-2.47634
6/25/1991	Fully Ltrqated	33.1	No	No	9.66	11.70	41.79	06/1992	1,184.80	Average	10	6/25/1991	11.70%	8.38%	3.32%	-2.47885
6/28/1991	Settled	293.9	Yes	Yes	NA	12.50	33.62	06/1992	NA	Average	23	6/28/1991	12.50%	8.38%	4.12%	-2.47988
7/1/1991	Fully Ltrqated	10.9	No	No	10.49	12.00	49.89	06/1990	267.50	Year-end	6	7/1/1991	12.00%	8.37%	3.63%	-2.48029
7/3/1991	Settled	91.6	No	No	10.52	12.50	46.05	05/1991	1,270.70	Year-end	9	7/3/1991	12.50%	8.36%	4.14%	-2.48117
7/19/1991	Fully Ltrqated	39.8	No	Yes	10.24	12.10	44.78									

8/6/1992	Fully Litigated	22.2	No	No	10.02	12.50	41.82	10/1991	994.40	Year-end	6	8/6/1992	12.50%	7.80%	4.70%	-2.55098
9/22/1992	Fully Litigated	85.8	Yes	Yes	8.37	12.00	37.62	12/1993	3,179.40	Average	7	9/22/1992	12.00%	7.71%	4.29%	-2.56215
9/28/1992	Settled	3.7	No	No	NA	11.40	40.00	09/1993	NA	Year-end	9	9/28/1992	11.40%	7.71%	3.69%	-2.56301
9/30/1992	Fully Litigated	45.6	No	No	9.90	11.75	51.25	12/1991	731.90	Year-end	6	9/30/1992	11.75%	7.71%	4.04%	-2.56325
10/2/1992	Fully Litigated	3.9	Yes	Yes	10.40	13.00	48.86	12/1992	152.00	Average	14	10/2/1992	13.00%	7.70%	5.30%	-2.56335
10/12/1992	Settled	19.3	No	Yes	10.23	12.20	49.20	12/1991	704.10	Average	6	10/12/1992	12.20%	7.70%	4.50%	-2.56356
10/16/1992	Fully Litigated	25.8	No	No	10.53	13.16	16.55	09/1990	820.30	Year-end	18	10/16/1992	13.16%	7.71%	5.45%	-2.56327
10/30/1992	Settled	NA	Yes	No	NA	11.75	NA	NA	NA	NA	6	10/30/1992	11.75%	7.71%	4.04%	-2.56308
11/3/1992	Settled	4.6	No	No	10.70	12.00	NA	NA	NA	NA	5	11/3/1992	12.00%	7.71%	4.29%	-2.56316
12/5/1992	Fully Litigated	33.5	Yes	No	9.94	11.85	49.50	12/1993	2,394.00	Average	12	12/5/1992	11.85%	7.68%	4.17%	-2.56667
12/15/1992	Fully Litigated	2.8	No	No	9.30	11.00	48.52	12/1993	153.00	Average	7	12/15/1992	11.00%	7.66%	3.34%	-2.56902
12/16/1992	Fully Litigated	254.4	Yes	No	10.13	11.90	46.75	12/1993	9,120.50	Average	12	12/16/1992	11.90%	7.66%	4.24%	-2.56933
12/16/1992	Fully Litigated	33.1	Yes	No	10.60	12.40	30.05	12/1991	NA	Year-end	5	12/16/1992	12.40%	7.66%	4.74%	-2.56933
12/17/1992	Fully Litigated	29.6	Yes	No	8.34	12.00	43.08	12/1994	1,850.90	Average	6	12/17/1992	12.00%	7.66%	4.34%	-2.56968
12/22/1992	Fully Litigated	8.7	No	No	11.54	12.30	54.15	12/1993	577.50	Average	8	12/22/1992	12.30%	7.65%	4.65%	-2.571
12/22/1992	Fully Litigated	(0.8)	No	No	9.88	12.40	49.53	07/1993	703.00	Average	11	12/22/1992	12.40%	7.65%	4.75%	-2.571
12/29/1992	Fully Litigated	45.2	No	Yes	9.92	12.25	41.75	12/1990	6,560.90	Year-end	17	12/29/1992	12.25%	7.63%	4.62%	-2.57313
12/30/1992	Settled	235.0	No	No	10.08	12.00	NA	06/1992	7,881.30	Year-end	13	12/30/1992	12.00%	7.63%	4.37%	-2.5735
12/31/1992	Settled	10.4	No	Yes	9.65	11.90	46.00	12/1991	NA	Average	8	12/31/1992	11.90%	7.62%	4.28%	-2.57386
1/12/1993	Fully Litigated	8.0	No	No	10.92	12.00	56.94	12/1993	401.80	Average	7	1/12/1993	12.00%	7.61%	4.39%	-2.57629
1/21/1993	Fully Litigated	31.1	No	No	9.59	11.25	46.23	12/1992	1,231.40	Year-end	9	1/21/1993	11.25%	7.59%	3.66%	-2.57876
2/2/1993	Settled	98.4	No	No	NA	11.40	NA	12/1993	NA	Average	12	2/2/1993	11.40%	7.56%	3.84%	-2.58279
2/15/1993	Fully Litigated	26.7	No	No	11.52	12.30	51.19	12/1993	1,989.90	Average	9	2/15/1993	12.30%	7.52%	4.78%	-2.58785
2/24/1993	Fully Litigated	16.2	No	No	9.68	11.90	43.82	06/1992	580.50	Average	7	2/24/1993	11.90%	7.49%	4.41%	-2.59187
2/26/1993	Fully Litigated	10.6	No	No	9.48	11.80	44.82	12/1991	367.80	Year-end	7	2/26/1993	11.80%	7.48%	4.32%	-2.59314
2/26/1993	Fully Litigated	123.8	No	No	10.28	12.20	47.38	03/1992	2,456.10	Year-end	14	2/26/1993	12.20%	7.48%	4.42%	-2.59362
4/23/1993	Fully Litigated	84.9	No	No	9.40	11.75	44.55	11/1992	4,312.90	Average	7	4/23/1993	11.75%	7.29%	4.46%	-2.61913
5/1/1993	Fully Litigated	3.6	Yes	No	8.93	11.75	38.89	12/1993	81.30	Average	12	5/1/1993	11.75%	7.24%	4.51%	-2.62487
5/14/1993	Fully Litigated	53.6	No	No	9.45	11.50	44.50	06/1993	1,552.90	Year-end	8	5/14/1993	11.50%	7.24%	4.26%	-2.62595
5/25/1993	Fully Litigated	60.4	Yes	No	9.80	11.50	47.84	09/1992	2,088.40	Year-end	5	5/25/1993	11.50%	7.22%	4.28%	-2.6277
5/28/1993	Fully Litigated	7.0	No	No	9.95	11.00	49.89	06/1992	86.30	Year-end	6	5/28/1993	11.00%	7.22%	3.78%	-2.62849
6/3/1993	Fully Litigated	(4.4)	No	No	10.92	12.00	50.66	05/1994	230.20	Average	7	6/3/1993	12.00%	7.21%	4.79%	-2.62995
6/16/1993	Fully Litigated	141.3	Yes	No	8.84	11.50	40.10	12/1991	3,675.50	Average	6	6/16/1993	11.50%	7.19%	4.31%	-2.63302
6/18/1993	Fully Litigated	4.3	No	No	10.32	12.10	56.11	12/1991	NA	Year-end	7	6/18/1993	12.10%	7.18%	4.92%	-2.63367
6/25/1993	Fully Litigated	(0.9)	No	No	10.34	11.67	51.71	09/1992	119.00	Year-end	10	6/25/1993	11.67%	7.17%	4.50%	-2.63565
7/21/1993	Fully Litigated	9.6	No	No	9.61	11.38	48.05	12/1992	238.10	Average	10	7/21/1993	11.38%	7.10%	4.28%	-2.64573
7/23/1993	Fully Litigated	2.6	No	No	9.20	10.46	60.60	09/1991	70.40	Year-end	16	7/23/1993	10.46%	7.09%	3.37%	-2.64692
8/24/1993	Settled	18.5	Yes	No	9.46	11.50	42.49	06/1994	1,275.70	Average	12	8/24/1993	11.50%	6.95%	4.55%	-2.66574
9/21/1993	Fully Litigated	(64.0)	No	No	8.94	10.50	45.00	06/1992	2,002.50	Average	10	9/21/1993	10.50%	6.80%	3.70%	-2.68754
9/29/1993	Fully Litigated	72.2	No	Yes	9.31	11.47	48.39	12/1993	2,373.30	Average	11	9/29/1993	11.47%	6.76%	4.71%	-2.69367
9/30/1993	Fully Litigated	15.6	No	No	9.56	11.60	50.31	07/1994	727.30	Average	8	9/30/1993	11.60%	6.76%	4.84%	-2.69486
11/2/1993	Settled	65.5	Yes	No	8.34	10.80	44.28	07/1994	3,182.20	Average	11	11/2/1993	10.80%	6.60%	4.20%	-2.71806
11/12/1993	Fully Litigated	34.7	No	No	9.78	12.00	35.29	12/1991	1,805.20	Year-end	18	11/12/1993	12.00%	6.56%	5.44%	-2.72362
11/28/1993	Fully Litigated	(13.1)	No	No	9.40	11.00	44.62	08/1992	1,730.40	Year-end	10	11/28/1993	11.00%	6.52%	4.48%	-2.73043
12/14/1993	Fully Litigated	26.0	No	No	8.52	10.55	43.74	12/1992	1,201.50	Average	9	12/14/1993	10.55%	6.48%	4.07%	-2.73614
12/16/1993	Fully Litigated	5.1	No	No	8.58	10.60	44.61	01/1994	775.30	Average	13	12/16/1993	10.60%	6.48%	4.12%	-2.73684
12/22/1993	Fully Litigated	(17.4)	No	No	10.72	11.30	55.61	12/1994	582.00	Average	8	12/22/1993	11.30%	6.47%	4.83%	-2.7381
1/4/1994	Settled	NA	No	No	NA	10.07	NA	09/1993	NA	NA	5	1/4/1994	10.07%	6.44%	3.63%	-2.74243
1/13/1994	Fully Litigated	21.6	No	No	8.51	11.00	44.07	06/1992	1,017.70	Year-end	12	1/13/1994	11.00%	6.42%	4.58%	-2.74627
1/21/1994	Fully Litigated	(78.0)	No	No	7.66	11.00	32.32	12/1994	9,041.30	Average	18	1/21/1994	11.00%	6.40%	4.60%	-2.74865
1/28/1994	Fully Litigated	435.4	No	Yes	9.98	11.35	41.71	06/1992	13,840.30	Year-end	12	1/28/1994	11.35%	6.39%	4.96%	-2.75045
2/3/1994	Fully Litigated	241.9	No	Yes	9.19	11.40	43.38	12/1991	6,972.00	Year-end	20	2/3/1994	11.40%	6.38%	5.02%	-2.75226
2/17/1994	Fully Litigated	11.0	No	No	9.25	10.60	41.27	12/1992	185.40	Average	9	2/17/1994	10.60%	6.36%	4.24%	-2.75543
2/25/1994	Settled	6.8	No	Yes	9.33	11.25	46.32	12/1992	NA	Average	9	2/25/1994	11.25%	6.35%	4.90%	-2.7569
2/25/1994	Fully Litigated	(16.9)	No	No	9.99	12.00	49.00	06/1991	1,534.40	Year-end	36	2/25/1994	12.00%	6.35%	5.65%	-2.7569
3/1/1994	Settled	(28.1)	No	No	9.92	11.00	41.00	06/1993	719.50	Year-end	4	3/1/1994	11.00%	6.35%	4.65%	-2.75737
3/4/1994	Fully Litigated	25.4	Yes	No	9.05	11.00	44.90	06/1993	1,529.30	Average	9	3/4/1994	11.00%	6.34%	4.68%	-2.7577
4/25/1994	Fully Litigated	7.6	No	Yes	9.09	11.00	44.12	12/1992	903.20	Year-end	10	4/25/1994	11.00%	6.40%	4.80%	-2.74819
5/10/1994	Fully Litigated	57.6	No	No	7.43	11.75	28.35	12/1994	3,168.40	Average	12	5/10/1994	11.75%	6.44%	5.31%	-2.74191
5/13/1994	Settled	3.7	No	No	9.41	10.50	50.33	06/1993	180.10	Average	7	5/13/1994	10.50%	6.46%	4.04%	-2.75852
6/3/1994	Fully Litigated	7.4	No	Yes	9.11	11.00	44.30	12/1992	286.90	Average	7	6/3/1994	11.00%	6.54%	4.46%	-2.72742
6/27/1994	Fully Litigated	17.9	No	Yes	9.55	11.40	39.51	06/1992	959.60	Year-end	19	6/27/1994	11.40%	6.65%	4.75%	-2.71061
8/5/1994	Fully Litigated	8.1	No	Yes	10.19	12.75	48.69	12/1993	191.90	Average	33	8/5/1994	12.75%	6.88%	5.87%	-2.76757
10/31/1994	Fully Litigated	8.6	No	No	8.68	10.00	47.86	12/1993	277.40	Average	8	10/31/1994	10.00%	7.33%	2.67%	-2.61307
11/8/1994	Fully Litigated	23.5	No	No	9.02	10.85	41.35	12/1993	NA	Average	9	11/8/1994	10.85%	7.40%	3.45%	-2.60427
11/8/1994	Fully Litigated	1.5	No	No	9.40	10.85	46.42	12/1993	NA	Average	9	11/8/1994	10.85%	7.40%	3.45%	-2.60427
11/18/1994	Fully Litigated	4.5	No	Yes	9.51	11.20	45.28	12/1992	218.40	Year-end	18	11/18/1994	11.20%	7.46%	3.74%	-2.58623
11/22/1994	Fully Litigated	19.0	No	Yes	9.33	11.60	48.61	12/1994	485.90	Average	10	11/22/1994	11.60%	7.47%	4.13%	-2.58404
11/28/1994	Settled	(30.0)	No	No	8.79	11.06	44.19	12/1992	859.00	Year-end	10	11/28/1994	11.06%	7.50%	3.56%	-2.58042
12/8/1994	Fully Litigated	(12.3)	No	No	9.41	11.50	51.93	12/1995	795.40	Average	10	12/8/1994	11.50%	7.55%	3.95%	-2.58407
12/8/1994	Fully Litigated	(4.2)	No	No	10.99	11.70	53.89	12/1995	223.80	Average	7	12/8/1994	11.70%	7.55%	4.15%	-2.58407
12/14/1994	Fully Litigated	(4.4)	No	No	9.58	10.95	41.09	12/1993	NA	Average	7	12/14/1994	10.95%	7.57%	3.38%	-2.58138
12/15/1994	Fully Litigated	57.3	No	No	9.15	11.50	45.50	12/1994	1,830.10	Year-end	8	12/15/1994	11.50%	7.57%	3.93%	-2.58074
12/19/1994	Fully Litigated	(10.9)	No	No	10.91	11.50	55.43	12/1995	573.40	Average	8	12/19/1994	11.50%	7.58%	3.92%	-2.57951
12/28/1994	Fully Litigated	40.5	No	Yes	9.38	12.15	48.44	12/1994	689.90	Average	17	12/28/1994	12.15%	7.81%	4.54%	-2.57515

1/3/1997	Fully Ltrqated	0 5	No	No	8 88	10 70	51 00	03/1995	NA	Year-end	15	1/3/1997	10 70%	6 83%	3 87%	-2 68347
2/13/1997	Fully Ltrqated	(7 4)	No	No	10 61	11 80	53 35	12/1997	2,371 10	Average	13	2/13/1997	11 80%	6 82%	4 98%	-2 6848
2/20/1997	Fully Ltrqated	(35 5)	No	No	10 72	11 80	54 80	12/1997	559 50	Average	10	2/20/1997	11 80%	6 82%	4 98%	-2 6859
3/31/1997	Fully Ltrqated	(32 3)	Yes	Yes	8 73	10 02	45 39	06/1995	2,905 40	Year-end	17	3/31/1997	10 02%	6 80%	3 22%	-2 68805
4/2/1997	Fully Ltrqated	6 8	No	Yes	9 34	11 65	49 30	12/1996	223 40	Average	24	4/2/1997	11 65%	6 80%	4 85%	-2 68796
4/28/1997	Fully Ltrqated	3 9	No	Yes	9 27	11 50	49 12	12/1996	228 00	Average	26	4/28/1997	11 50%	6 81%	4 69%	-2 68681
4/29/1997	Fully Ltrqated	(10 6)	No	No	9 46	11 70	52 00	12/1997	802 70	Average	13	4/29/1997	11 70%	6 81%	4 89%	-2 68685
7/17/1997	Fully Ltrqated	4 9	No	No	11 08	12 00	53 01	06/1998	225 30	Average	10	7/17/1997	12 00%	6 77%	5 23%	-2 69235
12/12/1997	Settled	(16 9)	Yes	No	6 99	11 00	32 11	12/1995	NA	Year-end	13	12/12/1997	11 00%	6 60%	4 40%	-2 71761
12/23/1997	Fully Ltrqated	0 0	No	No	9 13	11 12	48 58	12/1997	253 29	Average	19	12/23/1997	11 12%	6 57%	4 55%	-2 72295
12/21/1998	Fully Ltrqated	13 2	Yes	No	9 65	12 75	26 72	12/1996	390 70	Average	9	2/21/1998	12 75%	6 39%	6 36%	-2 75065
3/2/1998	Fully Ltrqated	5 6	No	No	9 21	11 25	43 82	03/1997	176 60	Average	8	3/2/1998	11 25%	6 28%	4 97%	-2 78703
3/6/1998	Settled	(16 9)	No	No	9 10	10 75	39 59	12/1996	537 60	Year-end	11	3/6/1998	10 75%	6 27%	4 48%	-2 76994
3/20/1998	Settled	(8 1)	No	No	NA	10 50	NA	NA	NA	NA	16	3/20/1998	10 50%	6 22%	4 28%	-2 77721
4/30/1998	Fully Ltrqated	160 2	No	Yes	10 46	12 20	53 14	12/1998	2,513 20	Average	7	4/30/1998	12 20%	6 12%	6 08%	-2 79338
7/10/1998	Fully Ltrqated	(122 0)	No	No	9 76	11 40	43 26	06/1996	1,111 30	Year-end	19	7/10/1998	11 40%	5 94%	5 46%	-2 82419
9/15/1998	Fully Ltrqated	7 3	No	No	10 25	11 80	55 00	12/1998	453 00	Average	10	9/15/1998	11 80%	5 78%	6 12%	-2 85077
11/30/1998	Settled	(111 5)	No	No	9 57	12 60	50 22	12/1996	913 90	Year-end	13	11/30/1998	12 60%	5 58%	7 02%	-2 886
12/10/1998	Fully Ltrqated	8 4	Yes	No	11 24	12 20	53 35	12/1999	246 60	Average	7	12/10/1998	12 20%	5 54%	6 66%	-2 89316
12/17/1998	Fully Ltrqated	26 9	Yes	No	10 79	12 10	54 22	12/1999	604 10	Average	8	12/17/1998	12 10%	5 52%	6 58%	-2 89731
2/5/1999	Fully Ltrqated	(231 9)	No	No	8 12	10 30	34 93	12/1997	2,876 80	Average	8	2/5/1999	10 30%	5 38%	4 92%	-2 92255
3/4/1999	Fully Ltrqated	(97 8)	No	Yes	8 84	10 50	47 60	12/1997	2,302 00	Average	25	3/4/1999	10 50%	5 34%	5 16%	-2 93071
4/6/1999	Fully Ltrqated	11 3	No	Yes	8 83	10 94	48 84	12/1999	310 10	Average	15	4/6/1999	10 94%	5 32%	5 62%	-2 93362
7/29/1999	Fully Ltrqated	9 3	No	No	8 98	10 75	37 42	12/1997	360 50	Average	7	7/29/1999	10 75%	5 52%	5 23%	-2 89719
9/23/1999	Settled	(5 4)	No	No	6 82	10 75	34 20	06/1998	NA	Year-end	4	9/23/1999	10 75%	5 70%	5 05%	-2 86413
11/17/1999	Settled	(11 0)	Yes	No	NA	11 10	NA	NA	NA	NA	23	11/17/1999	11 10%	5 90%	5 20%	-2 89054
1/7/2000	Fully Ltrqated	(33 9)	No	No	8 78	11 50	57 91	12/1999	990 60	Year-end	15	1/7/2000	11 50%	5 05%	5 45%	-2 89052
1/7/2000	Fully Ltrqated	(27 2)	No	No	8 00	11 50	50 14	12/1998	1,245 60	Year-end	14	1/7/2000	11 50%	6 05%	5 45%	-2 90523
2/17/2000	Fully Ltrqated	163 0	Yes	No	8 75	10 60	48 00	12/1999	6,939 40	Average	26	2/17/2000	10 60%	6 17%	4 43%	-2 7847
3/28/2000	Fully Ltrqated	10 6	No	No	8 85	11 25	43 50	12/1998	907 00	Year-end	8	3/28/2000	11 25%	6 20%	5 05%	-2 78139
5/24/2000	Fully Ltrqated	17 0	No	No	9 02	11 00	48 80	12/1998	NA	Average	8	5/24/2000	11 00%	6 18%	4 82%	-2 78342
7/18/2000	Fully Ltrqated	64 0	Yes	Yes	10 52	12 20	53 45	12/2000	2,709 60	Average	10	7/18/2000	12 20%	6 16%	6 04%	-2 78769
9/29/2000	Fully Ltrqated	(2 8)	No	No	9 03	11 16	42 00	12/1998	533 30	Average	11	9/29/2000	11 16%	6 03%	5 13%	-2 80857
11/28/2000	Fully Ltrqated	7 5	Yes	No	10 85	12 90	50 69	12/2001	296 40	Average	7	11/28/2000	12 90%	5 89%	7 01%	-2 83324
11/30/2000	Fully Ltrqated	27 2	No	No	10 28	12 10	54 28	12/2001	714 00	Average	8	11/30/2000	12 10%	5 88%	6 22%	-2 83327
1/23/2001	Settled	20 0	No	Yes	NA	11 25	NA	NA	NA	NA	33	1/23/2001	11 25%	5 79%	5 46%	-2 84867
2/8/2001	Fully Ltrqated	8 4	No	Yes	9 14	11 50	49 69	12/2000	249 60	Average	15	2/8/2001	11 50%	5 77%	5 73%	-2 85226
5/8/2001	Fully Ltrqated	16 0	No	Yes	8 46	10 75	43 00	12/1999	579 96	Average	9	5/8/2001	10 75%	5 62%	5 13%	-2 87889
6/26/2001	Settled	16 8	No	Yes	NA	11 00	NA	NA	NA	NA	7	6/26/2001	11 00%	5 62%	5 38%	-2 87872
7/25/2001	Fully Ltrqated	25 4	No	No	9 08	11 02	44 14	09/2000	1,057 20	Year-end	8	7/25/2001	11 02%	5 60%	5 42%	-2 88298
7/25/2001	Fully Ltrqated	(41 0)	No	No	9 08	11 02	44 14	09/2000	1,191 30	Year-end	8	7/25/2001	11 02%	5 60%	5 42%	-2 88298
7/31/2001	Settled	8 9	No	No	8 90	11 00	49 08	NA	NA	NA	7	7/31/2001	11 00%	5 59%	5 51%	-2 88362
8/31/2001	Settled	440 0	No	No	9 08	10 50	52 18	12/2002	NA	Average	11	8/31/2001	10 50%	5 58%	4 94%	-2 88691
9/7/2001	Settled	64 4	No	No	8 81	10 75	46 30	12/2001	2 393 70	Average	10	9/7/2001	10 75%	5 55%	5 20%	-2 89094
4/10/2001	Fully Ltrqated	40 5	No	Yes	8 87	11 00	47 60	12/1999	NA	Average	8	4/10/2001	11 00%	5 55%	5 45%	-2 89118
9/20/2001	Fully Ltrqated	17 1	No	No	8 75	10 00	37 76	12/2000	531 40	Year-end	10	9/20/2001	10 00%	5 55%	4 45%	-2 89151
10/24/2001	Settled	(2 0)	Yes	No	7 53	10 30	47 00	06/2002	380 20	Average	14	10/24/2001	10 30%	5 54%	4 76%	-2 89293
11/28/2001	Settled	(151 9)	Yes	No	NA	10 60	NA	NA	NA	NA	10	11/28/2001	10 60%	5 49%	5 11%	-2 90214
12/3/2001	Fully Ltrqated	39 0	No	No	9 90	12 88	53 68	12/2002	731 70	Average	4	12/3/2001	12 88%	5 49%	7 39%	-2 90275
12/20/2001	Fully Ltrqated	(117 7)	No	No	9 71	12 50	51 67	12/2002	NA	NA	5	12/20/2001	12 50%	5 50%	7 00%	-2 90088
1/22/2002	Settled	4 2	No	No	7 35	10 00	NA	12/2000	NA	Year-end	6	1/22/2002	10 00%	5 50%	4 50%	-2 90111
3/27/2002	Fully Ltrqated	(40 2)	No	No	8 37	10 10	42 59	05/2001	2,087 80	Year-end	5	3/27/2002	10 10%	5 45%	4 65%	-2 91026
4/22/2002	Fully Ltrqated	(4 3)	No	No	10 24	11 80	48 87	12/2001	128 90	Average	7	4/22/2002	11 80%	5 45%	6 35%	-2 90955
5/28/2002	Fully Ltrqated	(13 7)	No	No	8 61	10 17	39 19	07/2001	973 70	Year-end	5	5/28/2002	10 17%	5 46%	4 71%	-2 90689
6/10/2002	Fully Ltrqated	53 2	No	No	7 92	12 00	41 02	05/2003	1 199 70	Average	9	6/10/2002	12 00%	5 47%	6 53%	-2 90512
6/18/2002	Settled	45 7	No	Yes	NA	11 16	42 00	NA	NA	NA	6	6/18/2002	11 16%	5 48%	5 68%	-2 90483
6/20/2002	Settled	59 0	No	Yes	8 76	11 00	40 00	NA	NA	NA	6	6/20/2002	11 00%	5 48%	5 52%	-2 90476
6/20/2002	Fully Ltrqated	58 6	No	Yes	10 23	12 30	54 99	12/2002	793 70	Average	14	6/20/2002	12 30%	5 48%	6 82%	-2 90478
7/15/2002	Fully Ltrqated	4 8	No	No	6 43	11 00	50 00	07/2003	NA	Average	8	7/15/2002	11 00%	5 48%	5 52%	-2 90487
9/12/2002	Fully Ltrqated	60 1	No	Yes	10 02	12 30	44 67	12/2002	840 40	Average	13	9/12/2002	12 30%	5 45%	5 45%	-2 90594
9/26/2002	Settled	(30 9)	No	No	8 41	10 45	47 00	12/2000	757 70	Average	10	9/26/2002	10 45%	5 41%	5 04%	-2 91861
1/24/2002	Settled	0 0	No	No	9 12	11 50	56 00	09/2001	1,560 60	Year-end	3	1/24/2002	11 55%	5 29%	6 26%	-2 93931
12/13/2002	Settled	49 2	No	No	9 09	11 75	44 99	12/2003	1,174 90	Average	3	12/13/2002	11 75%	5 27%	6 48%	-2 94369
12/20/2002	Settled	4 9	No	No	8 58	11 40	NA	12/2003	NA	NA	4	12/20/2002	11 40%	5 25%	6 15%	-2 94753
1/8/2003	Settled	(22 1)	No	No	NA	11 10	NA	NA	NA	NA	19	1/8/2003	11 10%	5 19%	5 91%	-2 95883
1/31/2003	Fully Ltrqated	70 7	No	No	9 94	12 45	52 18	03/2002	3,174 80	Year-end	5	1/31/2003	12 45%	5 13%	7 32%	-2 97099
2/28/2003	Fully Ltrqated	20 3	No	No	10 17	12 30	55 42	12/2003	280 90	Average	10	2/28/2003	12 30%	5 04%	7 26%	-2 98736
3/6/2003	Fully Ltrqated	8 7	No	No	8 45	10 75	45 70	09/2001	898 00	Year-end	10	3/6/2003	10 75%	5 02%	5 73%	-2 99115
3/7/2003	Fully Ltrqated	(15 6)	No	No	8 11	9 96	41 40	06/2003	1,130 00	Average	12	3/7/2003	9 96%	5 02%	4 94%	-2 99206
3/20/2003	Fully Ltrqated	21 4	No	No	9 61	12 00	55 00	12/2003	810 00	Average	11	3/20/2003	12 00%	4 98%	7 02%	-2 99937
4/3/2003	Fully Ltrqated	77 1	No	No	10 22	12 00	51 72	12/2003	894 10	Average	11	4/3/2003	12 00%	4 95%	7 05%	-3 00477
4/15/2003	Fully Ltrqated	25 8	No	Yes	9 08	11 15	47 20	12/2001	1 394 20	Average	12	4/15/2003	11 15%	4 93%	6 22%	-3 00882
6/25/2003	Settled	16 0	No	No	9 07	10 75	47 50	06/2002	11 00	Average	8	6/25/2003	10 75%	4 79%	5 96%	-3 03805
6/26/2003	Settled	(21 1)	No	No	9 08	10 75	51 40	12/2001	2,770 50	Average	13	6/26/2003	10 75%	4 79%	5 96%	-3 03824
7/9/2003	Settled	159 5	No	No	8 18	9 75	41 45	12/2002	3,092 00	Year-end	13	7/9/2003	9 75%	4 79%	4 98%	-3 03873
7/16/2003	Fully Ltrqated	(7 2)	No													

12/12/2005	Fully Litigated	35.9	No	No	9.37	11.00	56.65	12/2006	328.90	Average	7	12/12/2005	11.00%	4.55%	6.45%	-3.09066
12/13/2005	Fully Litigated	42.3	No	No	8.66	10.75	55.69	12/2004	1,711.40	Year-end	6	12/13/2005	10.75%	4.55%	6.20%	-3.09077
12/21/2005	Settled	51.5	No	No	8.24	10.29	47.53	06/2005	840.00	Date Certain	10	12/21/2005	10.29%	4.54%	5.75%	-3.09165
12/21/2005	Settled	22.1	No	No	9.11	10.40	40.00	12/2004	NA	Average	8	12/21/2005	10.40%	4.54%	5.86%	-3.09165
12/22/2005	Fully Litigated	79.9	No	No	12.06	11.00	59.73	12/2006	755.20	Average	8	12/22/2005	11.00%	4.54%	6.48%	-3.09188
12/22/2005	Fully Litigated	177.4	No	No	6.78	11.15	36.31	12/2003	4,838.30	Average	12	12/22/2005	11.15%	4.54%	6.61%	-3.09188
12/28/2005	Fully Litigated	24.2	No	No	7.89	10.00	44.59	12/2004	1,022.20	Year-end	8	12/28/2005	11.00%	4.54%	5.46%	-3.093
12/28/2005	Fully Litigated	(21.2)	No	No	7.89	10.00	44.59	12/2004	1,200.90	Year-end	8	12/28/2005	10.00%	4.54%	5.49%	-3.093
1/5/2006	Fully Litigated	43.4	No	No	9.97	11.00	53.68	12/2006	551.00	Average	7	1/5/2006	11.00%	4.53%	6.47%	-3.09495
1/27/2006	Fully Litigated	14.3	Yes	No	6.98	9.75	49.00	12/2004	402.80	Average	6	1/27/2006	9.75%	4.52%	5.23%	-3.09667
3/3/2006	Settled	1.2	No	Yes	8.58	10.39	49.10	12/2004	135.80	Average	9	3/3/2006	10.39%	4.53%	5.86%	-3.09416
4/17/2006	Fully Litigated	0.0	No	No	8.10	10.20	46.00	09/2004	NA	NA	11	4/17/2006	10.20%	4.62%	5.68%	-3.07561
4/26/2006	Fully Litigated	(14.0)	No	No	8.96	10.60	40.76	05/2005	1,066.70	Year-end	6	4/26/2006	10.60%	4.64%	5.96%	-3.07023
5/17/2006	Fully Litigated	133.9	Yes	No	8.77	11.60	48.00	12/2006	9,112.90	Average	17	5/17/2006	11.60%	4.69%	6.91%	-3.05872
6/6/2006	Fully Litigated	(11.1)	No	No	7.17	10.00	47.72	03/2005	414.70	Average	9	6/6/2006	10.00%	4.75%	5.25%	-3.04781
6/27/2006	Settled	3.8	No	No	7.75	10.75	47.12	12/2006	NA	NA	5	6/27/2006	10.75%	4.80%	5.95%	-3.03663
7/6/2006	Settled	1.8	No	No	8.45	10.20	50.00	12/2005	NA	NA	3	7/6/2006	10.20%	4.83%	5.37%	-3.03106
7/24/2006	Settled	17.9	Yes	No	7.05	9.60	45.00	03/2006	544.00	Average	12	7/24/2006	9.60%	4.86%	4.74%	-3.0248
7/26/2006	Settled	43.7	Yes	No	7.60	10.50	NA	12/2004	1,657.50	Average	11	7/26/2006	10.50%	4.86%	5.64%	-3.02394
7/28/2006	Fully Litigated	82.6	No	No	8.01	10.05	42.86	12/2004	5,521.40	Year-end	11	7/28/2006	10.05%	4.87%	5.18%	-3.023
8/23/2006	Fully Litigated	(36.3)	No	No	7.18	9.55	41.60	12/2007	1,459.90	Average	10	8/23/2006	9.55%	4.89%	4.66%	-3.01827
9/1/2006	Fully Litigated	131.5	No	Yes	8.81	10.54	51.67	12/2006	3,240.60	Average	10	9/1/2006	10.54%	4.90%	5.64%	-3.01657
9/14/2006	Settled	43.0	No	No	8.16	10.00	50.00	12/2007	2,301.30	Average	6	9/14/2006	10.00%	4.91%	5.09%	-3.01451
10/6/2006	Settled	2.3	Yes	No	8.70	9.67	43.10	06/2005	96.00	Year-end	11	10/6/2006	9.67%	4.92%	4.75%	-3.01185
11/21/2006	Fully Litigated	84.0	No	No	8.33	10.08	51.58	12/2004	1,208.70	Year-end	10	11/21/2006	10.08%	4.95%	5.13%	-3.00524
11/21/2006	Fully Litigated	(9.0)	No	No	8.06	10.08	48.92	12/2004	418.40	Year-end	10	11/21/2006	10.08%	4.95%	5.13%	-3.00524
11/21/2006	Fully Litigated	20.7	No	No	7.94	10.12	45.57	12/2004	262.90	Year-end	10	11/21/2006	10.12%	4.95%	5.17%	-3.00524
12/1/2006	Settled	115.0	Yes	No	NA	10.25	NA	NA	NA	NA	8	12/1/2006	10.25%	4.96%	5.29%	-3.00455
12/1/2006	Settled	107.0	No	No	8.95	10.50	60.00	NA	NA	NA	7	12/1/2006	10.50%	4.96%	5.54%	-3.00455
12/7/2006	Settled	10.8	No	No	8.55	10.75	55.57	12/2005	300.70	Average	6	12/7/2006	10.75%	4.96%	5.79%	-3.00457
12/21/2006	Fully Litigated	29.4	No	No	9.10	10.90	50.80	12/2005	620.00	Year-end	10	12/21/2006	10.90%	4.95%	5.95%	-3.00497
12/21/2006	Fully Litigated	50.6	No	No	8.89	11.25	53.69	12/2005	1,269.57	Year-end	10	12/21/2006	11.25%	4.95%	6.30%	-3.00497
12/22/2006	Settled	19.0	Yes	No	8.65	10.25	52.76	12/2005	227.50	Average	8	12/22/2006	10.25%	4.95%	5.30%	-3.00491
1/5/2007	Settled	5.4	No	No	5.36	10.00	32.33	12/2005	293.60	Year-end	5	1/5/2007	10.00%	4.95%	5.05%	-3.00518
1/11/2007	Fully Litigated	58.7	No	No	7.52	10.10	49.00	12/2006	968.50	Year-end	9	1/11/2007	10.10%	4.95%	5.15%	-3.00597
1/11/2007	Fully Litigated	50.2	No	No	7.92	10.10	49.00	12/2006	1,067.70	Year-end	9	1/11/2007	10.10%	4.95%	5.15%	-3.00597
1/11/2007	Fully Litigated	56.7	No	No	12.93	10.90	57.46	12/2007	844.50	Average	9	1/11/2007	10.90%	4.95%	5.95%	-3.00597
1/12/2007	Fully Litigated	20.5	No	No	8.29	10.10	50.00	12/2007	2,008.70	Average	10	1/12/2007	10.10%	4.95%	5.15%	-3.00614
1/13/2007	Fully Litigated	(22.8)	No	No	8.40	10.40	44.00	09/2005	2,977.32	Average	11	1/13/2007	10.40%	4.95%	5.45%	-3.00614
1/19/2007	Fully Litigated	36.2	No	No	9.27	10.80	54.13	12/2007	1,051.50	Average	10	1/19/2007	10.80%	4.94%	5.86%	-3.00724
3/21/2007	Settled	192.2	Yes	No	8.79	11.35	52.00	12/2007	10,354.30	Average	15	3/21/2007	11.35%	4.86%	6.49%	-3.02314
3/22/2007	Settled	6.4	No	No	7.83	9.75	46.51	12/2006	131.00	Year-end	8	3/22/2007	9.75%	4.86%	4.89%	-3.02354
5/15/2007	Fully Litigated	24.0	No	Yes	7.36	10.00	41.11	12/2005	2,021.70	Year-end	12	5/15/2007	10.00%	4.91%	5.19%	-3.03513
5/17/2007	Fully Litigated	13.6	No	No	8.93	10.25	48.17	12/2005	166.80	Year-end	10	5/17/2007	10.25%	4.90%	5.45%	-3.03552
5/17/2007	Fully Litigated	45.2	No	No	8.39	10.25	49.17	12/2005	918.48	Year-end	10	5/17/2007	10.25%	4.90%	5.45%	-3.03552
5/22/2007	Fully Litigated	41.8	No	No	7.94	10.20	52.22	06/2006	5,637.40	Year-end	10	5/22/2007	10.20%	4.80%	5.40%	-3.03581
5/22/2007	Fully Litigated	(6.2)	No	No	8.44	10.50	46.07	12/2005	1,178.87	Average	10	5/22/2007	10.50%	4.80%	5.70%	-3.03581
5/23/2007	Fully Litigated	120.5	No	No	9.06	10.70	47.29	06/2006	3,296.50	Year-end	6	5/23/2007	10.70%	4.80%	5.90%	-3.03581
5/25/2007	Settled	50.1	Yes	Yes	7.55	9.67	47.66	12/2005	668.30	Average	12	5/25/2007	9.67%	4.80%	4.87%	-3.03575
6/15/2007	Fully Litigated	(5.1)	No	No	5.58	9.90	32.19	06/2006	3,693.20	Year-end	10	6/15/2007	9.90%	4.82%	5.08%	-3.03218
6/21/2007	Fully Litigated	14.4	No	No	8.06	10.20	46.00	03/2006	526.54	Average	8	6/21/2007	10.20%	4.83%	5.37%	-3.03076
6/22/2007	Settled	85.5	Yes	No	7.67	10.50	42.88	12/2006	1,817.40	Average	3	6/22/2007	10.50%	4.83%	5.67%	-3.03042
6/28/2007	Fully Litigated	321.7	No	Yes	8.32	10.75	54.50	09/2005	4,403.50	Year-end	20	6/28/2007	10.75%	4.84%	5.91%	-3.02877
7/12/2007	Settled	(2.2)	Yes	No	8.61	9.67	50.00	NA	NA	NA	11	7/12/2007	9.67%	4.86%	4.81%	-3.02433
7/19/2007	Fully Litigated	14.9	No	No	7.68	10.00	48.63	09/2006	267.30	Average	8	7/19/2007	10.00%	4.87%	5.13%	-3.02307
7/19/2007	Fully Litigated	10.6	No	No	7.99	10.00	47.69	09/2006	895.50	Average	8	7/19/2007	10.00%	4.87%	5.13%	-3.02307
8/15/2007	Settled	67.3	No	No	7.32	10.40	47.05	03/2006	1,043.72	Year-end	11	8/15/2007	10.40%	4.88%	5.52%	-3.02004
10/9/2007	Fully Litigated	9.8	No	Yes	8.01	10.00	46.02	06/2006	1,117.23	Year-end	10	10/9/2007	10.00%	4.91%	5.09%	-3.01403
10/17/2007	Fully Litigated	0.0	No	No	7.56	9.10	47.54	06/2008	436.67	Average	10	10/17/2007	9.10%	4.91%	4.19%	-3.01325
10/17/2007	Fully Litigated	12.0	No	No	7.88	9.96	40.00	06/2008	98.06	Year-end	9	10/17/2007	9.96%	4.91%	5.06%	-3.01611
11/29/2007	Settled	6.7	No	No	8.84	10.50	54.00	09/2006	245.45	Year-end	9	11/29/2007	10.50%	4.92%	5.03%	-3.02245
12/6/2007	Fully Litigated	35.3	No	Yes	8.68	10.75	57.62	12/2006	1,300.00	Year-end	10	12/6/2007	10.75%	4.86%	5.89%	-3.02387
12/13/2007	Fully Litigated	40.8	No	No	7.50	9.96	40.00	06/2006	1,566.50	Year-end	13	12/13/2007	9.96%	4.86%	5.10%	-3.02438
12/14/2007	Settled	76.9	No	No	8.62	10.70	53.32	03/2007	3,943.90	Year-end	6	12/14/2007	10.70%	4.86%	5.84%	-3.02442
12/14/2007	Fully Litigated	16.2	No	No	9.08	10.80	57.36	12/2008	421.10	Average	7	12/14/2007	10.80%	4.86%	5.94%	-3.02442
12/19/2007	Settled	30.2	No	No	8.20	10.20	46.00	12/2006	895.90	Average	7	12/19/2007	10.20%	4.86%	5.34%	-3.02493
12/20/2007	Settled	1.1	No	No	8.60	10.20	NA	NA	NA	NA	11	12/20/2007	10.20%	4.86%	5.34%	-3.02515
12/20/2007	Settled	(286.9)	No	No	8.57	11.00	53.00	12/2006	7,833.05	Year-end	6	12/20/2007	11.00%	4.86%	6.14%	-3.02515
12/28/2007	Settled	11.5	No	No	8.27	10.25	50.40	12/2006	NA	NA	6	12/28/2007	10.25%	4.85%	5.40%	-3.02611
12/31/2007	Settled	99.7	Yes	No	NA	11.25	NA	07/2008	NA	NA	6	12/31/2007	11.25%	4.85%	6.40%	-3.02647
1/8/2008	Fully Litigated	39.4	No	No	9.67	10.75	52.51	12/2008	552.10	Average	7	1/8/2008	10.75%	4.83%	5.92%	-3.02943
1/17/2008	Fully Litigated	148.4	Yes	No	9.26	10.75	54.36	12/2008	3,018.47	Average	8	1/17/2008	10.75%	4.81%	5.94%	-3.03356
1/28/2008	Fully Litigated	98.0	Yes	No	7.72	9.40	48.99	12/2006	2,438.37	Year-end	6	1/28/2008	9.40%	4.80%	4.60%	-3.03759
1/30/2008	Fully Litigated	28.3	No	No	7.96	10.00	46.55	02/2007	978.29	Average	13	1/30/2008	10.00%	4.79%	5.21%	-3.03861
1/31/2008	Settled	6.4	No	No	8.50	10.71	50.02	12/2006	343.88	Average	8	1/31/2008	10.71%	4.79%	5.92%	-3.0392

6/22/2009	Fully Ltrqated	39.6	No	No	7.28	10.00	47.00	06/2010	674.36	Average	10	6/22/2009	10.00%	3.76%	6.24%	-3.28018
6/24/2009	Fully Ltrqated	222.7	No	No	8.66	10.80	44.15	06/2008	4,680.90	Year-end	6	6/24/2009	10.80%	3.76%	7.04%	-3.27949
7/8/2009	Settled	55.3	No	No	8.61	10.63	51.59	12/2008	963.79	Date Certain	11	7/8/2009	10.63%	3.76%	6.87%	-3.27956
7/17/2009	Settled	12.5	No	No	8.55	10.50	50.00	09/2008	576.29	Average	5	7/17/2009	10.50%	3.77%	6.73%	-3.27688
8/21/2009	Settled	12.7	No	No	9.76	10.25	40.00	03/2008	430.22	Year-end	11	8/21/2009	10.25%	3.80%	6.45%	-3.26888
8/31/2009	Fully Ltrqated	115.1	No	No	8.28	10.25	40.00	12/2007	7,073.73	Year-end	14	8/31/2009	10.25%	3.82%	6.43%	-3.26534
10/14/2009	Settled	173.3	No	No	8.52	10.70	51.00	08/2009	1,936.70	Average	15	10/14/2009	10.70%	4.02%	6.68%	-3.21448
10/23/2009	Fully Ltrqated	91.4	No	Yes	8.83	10.88	52.47	12/2009	4,070.42	Average	11	10/23/2009	10.88%	4.08%	6.82%	-3.20317
11/2/2009	Fully Ltrqated	134.4	No	Yes	6.98	10.70	40.51	12/2009	6,102.71	Average	11	11/2/2009	10.70%	4.10%	6.80%	-3.19531
11/5/2009	Settled	5.5	No	No	8.51	10.70	43.71	12/2009	141.46	Average	15	11/5/2009	10.70%	4.10%	6.80%	-3.1942
11/24/2009	Settled	17.9	No	No	6.01	10.25	33.99	12/2008	612.28	Year-end	9	11/24/2009	10.25%	4.16%	6.09%	-3.18053
11/25/2009	Settled	3.1	Yes	Yes	8.62	10.75	53.30	12/2007	187.36	Average	12	11/25/2009	10.75%	4.16%	6.59%	-3.17985
11/30/2009	Fully Ltrqated	42.2	No	No	8.14	10.35	49.99	12/2008	1,420.37	Year-end	6	11/30/2009	10.35%	4.17%	6.18%	-3.17736
12/3/2009	Settled	237.3	Yes	No	8.72	10.50	58.56	12/2008	NA	NA	7	12/3/2009	10.50%	4.18%	6.32%	-3.17509
12/7/2009	Settled	315.2	No	No	8.38	10.70	52.50	12/2008	9,533.30	Year-end	6	12/7/2009	10.70%	4.19%	6.51%	-3.17321
12/16/2009	Settled	6.5	No	No	7.83	10.90	49.52	12/2010	NA	NA	5	12/16/2009	10.90%	4.22%	6.68%	-3.16597
12/16/2009	Settled	344.7	No	Yes	8.58	11.00	53.79	12/2007	5,582.14	Year-end	21	12/16/2009	11.00%	4.22%	6.78%	-3.16597
12/18/2009	Fully Ltrqated	85.8	No	No	8.96	10.40	53.02	12/2010	3,181.90	Average	9	12/18/2009	10.40%	4.22%	6.18%	-3.16425
12/18/2009	Fully Ltrqated	58.6	No	No	9.81	10.40	50.38	12/2010	1,381.21	Average	7	12/18/2009	10.40%	4.22%	6.18%	-3.16425
12/22/2009	Fully Ltrqated	12.1	No	No	8.25	10.20	46.50	09/2008	991.03	Average	11	12/22/2009	10.20%	4.23%	5.97%	-3.1621
12/22/2009	Fully Ltrqated	11.9	No	No	8.67	10.40	55.34	12/2010	420.22	Average	7	12/22/2009	10.40%	4.23%	6.17%	-3.1621
12/22/2009	Fully Ltrqated	6.4	No	No	8.93	10.40	52.30	12/2010	644.03	Average	6	12/22/2009	10.40%	4.23%	6.17%	-3.1621
12/30/2009	Fully Ltrqated	7.5	No	No	7.96	10.00	49.87	12/2008	306.40	Average	7	12/30/2009	10.00%	4.26%	5.74%	-3.15512
1/4/2010	Fully Ltrqated	83.7	No	Yes	8.91	10.80	49.52	12/2008	1,820.88	Average	9	1/4/2010	10.80%	4.28%	6.52%	-3.15139
1/11/2010	Fully Ltrqated	217.4	No	Yes	7.02	11.00	39.48	06/2010	9,172.18	Average	11	1/11/2010	11.00%	4.31%	6.69%	-3.14531
1/26/2010	Settled	41.5	No	No	8.08	10.13	51.00	12/2010	2,907.83	Average	9	1/26/2010	10.13%	4.35%	5.78%	-3.13437
1/27/2010	Settled	8.6	No	No	8.49	10.40	50.13	NA	NA	NA	7	1/27/2010	10.40%	4.36%	6.04%	-3.13348
1/27/2010	Settled	8.6	No	No	8.49	10.40	50.13	NA	NA	NA	7	1/27/2010	10.40%	4.36%	6.04%	-3.13348
1/27/2010	Settled	74.1	No	No	8.41	10.70	53.00	12/2008	3,189.30	Year-end	6	1/27/2010	10.70%	4.36%	6.34%	-3.13348
2/9/2010	Fully Ltrqated	25.8	No	No	7.31	9.80	48.78	12/2008	550.87	Average	8	2/9/2010	9.80%	4.38%	5.42%	-3.12779
2/18/2010	Fully Ltrqated	32.4	No	No	8.34	10.60	51.00	06/2010	4,628.44	Average	8	2/18/2010	10.60%	4.40%	6.20%	-3.12378
2/24/2010	Settled	5.0	No	No	8.06	10.18	49.80	12/2009	109.60	Average	6	2/24/2010	10.18%	4.41%	5.77%	-3.12169
3/2/2010	Fully Ltrqated	19.8	No	No	8.01	9.63	46.18	12/2008	1,010.26	Average	9	3/2/2010	9.63%	4.41%	5.22%	-3.12127
3/4/2010	Settled	10.6	No	Yes	7.85	10.50	53.62	12/2008	163.60	Average	9	3/4/2010	10.50%	4.41%	6.09%	-3.12091
3/5/2010	Settled	126.2	No	Yes	7.88	10.50	46.74	12/2010	6,302.28	Average	11	3/5/2010	10.50%	4.41%	6.09%	-3.12078
3/11/2010	Settled	0.0	No	Yes	NA	11.90	NA	12/2008	NA	NA	11	3/11/2010	11.90%	4.42%	7.48%	-3.12012
3/17/2010	Settled	75.5	No	No	6.65	10.00	47.00	12/2010	16,787.43	Average	12	3/17/2010	10.00%	4.41%	5.89%	-3.12049
3/25/2010	Settled	540.8	Yes	No	7.76	10.15	48.00	03/2011	14,887.00	Average	10	3/25/2010	10.15%	4.42%	5.73%	-3.11988
4/2/2010	Fully Ltrqated	74.1	No	No	8.10	10.10	46.00	12/2008	3,796.61	Average	10	4/2/2010	10.10%	4.43%	5.67%	-3.11723
4/27/2010	Fully Ltrqated	2.7	No	No	8.25	10.00	49.77	12/2008	71.86	Year-end	8	4/27/2010	10.00%	4.46%	5.54%	-3.11064
4/29/2010	Fully Ltrqated	4.9	No	No	8.05	9.90	43.61	12/2008	284.02	Year-end	10	4/29/2010	9.90%	4.46%	5.44%	-3.11049
4/29/2010	Fully Ltrqated	23.7	No	No	8.02	10.06	48.67	12/2008	475.73	Year-end	10	4/29/2010	10.06%	4.46%	5.60%	-3.11049
4/29/2010	Fully Ltrqated	28.2	No	No	8.97	10.26	43.55	12/2008	1,363.79	Year-end	10	4/29/2010	10.26%	4.46%	5.80%	-3.11049
5/1/2010	Settled	20.0	No	No	8.69	10.30	49.10	12/2009	781.63	Year-end	9	5/1/2010	10.30%	4.45%	5.85%	-3.1113
5/1/2010	Settled	9.8	No	No	8.21	10.30	49.85	12/2009	148.64	Year-end	8	5/1/2010	10.30%	4.45%	5.85%	-3.1113
5/28/2010	Fully Ltrqated	22.8	No	No	8.06	10.10	51.26	03/2009	6,000.00	Year-end	8	5/28/2010	10.10%	4.44%	5.66%	-3.11393
5/28/2010	Settled	63.7	No	No	5.04	10.20	29.32	06/2009	3,995.61	Year-end	8	5/28/2010	10.20%	4.44%	5.76%	-3.11393
6/7/2010	Settled	73.5	No	No	8.21	10.30	51.20	12/2009	3,750.00	Year-end	12	6/7/2010	10.30%	4.44%	5.86%	-3.11406
6/16/2010	Settled	11.8	Yes	No	7.43	10.00	48.00	06/2011	692.91	Average	10	6/16/2010	10.00%	4.44%	5.56%	-3.1146
6/28/2010	Settled	57.4	Yes	Yes	7.51	9.67	52.40	NA	NA	NA	12	6/28/2010	9.67%	4.43%	5.24%	-3.11572
6/28/2010	Settled	63.7	No	No	NA	10.50	NA	09/2009	NA	Year-end	6	6/28/2010	10.50%	4.43%	6.07%	-3.11572
6/30/2010	Fully Ltrqated	101.9	Yes	No	7.68	9.40	49.20	06/2009	2,790.25	Date Certain	5	6/30/2010	9.40%	4.43%	4.97%	-3.11634
7/1/2010	Fully Ltrqated	23.5	No	Yes	6.99	10.25	47.61	12/2010	324.37	Average	12	7/1/2010	10.25%	4.43%	5.82%	-3.11656
7/15/2010	Fully Ltrqated	61.5	No	Yes	7.85	10.53	41.53	12/2008	2,096.00	Year-end	12	7/15/2010	10.53%	4.43%	6.10%	-3.11712
7/15/2010	Settled	101.2	Yes	No	8.58	10.70	52.96	09/2009	4,759.34	Year-end	6	7/15/2010	10.70%	4.43%	6.27%	-3.11712
7/30/2010	Settled	13.2	No	Yes	8.67	10.70	54.89	12/2007	382.97	Average	41	7/30/2010	10.70%	4.41%	6.29%	-3.12022
8/4/2010	Settled	17.9	No	No	9.32	10.50	52.00	07/2009	NA	NA	7	8/4/2010	10.50%	4.41%	6.09%	-3.121
8/6/2010	Fully Ltrqated	7.8	No	No	8.18	9.83	48.87	12/2009	906.04	Average	7	8/6/2010	9.83%	4.41%	5.42%	-3.1215
8/25/2010	Fully Ltrqated	(48.9)	No	No	7.29	9.90	49.95	12/2007	2,639.19	Year-end	24	8/25/2010	9.90%	4.37%	5.53%	-3.13013
9/3/2010	Settled	4.1	No	No	8.37	10.60	52.20	12/2011	270.78	Average	9	9/3/2010	10.60%	4.35%	6.25%	-3.13507
9/14/2010	Settled	77.5	No	Yes	8.62	10.70	55.10	12/2007	1,158.33	Average	45	9/14/2010	10.70%	4.33%	6.37%	-3.13953
9/16/2010	Settled	66.8	Yes	No	7.48	10.00	48.00	08/2011	1,565.92	Average	12	9/16/2010	10.00%	4.32%	5.69%	-3.14094
9/16/2010	Settled	33.0	Yes	No	8.47	10.00	48.00	08/2011	922.88	Average	12	9/16/2010	10.00%	4.32%	5.69%	-3.14094
9/30/2010	Fully Ltrqated	7.4	No	No	8.28	9.75	45.76	12/2008	168.57	Year-end	17	9/30/2010	9.75%	4.28%	5.47%	-3.15023
10/14/2010	Settled	35.7	No	Yes	7.53	10.35	44.14	12/2010	595.44	Average	8	10/14/2010	10.35%	4.24%	6.11%	-3.16077
10/28/2010	Settled	24.6	No	Yes	8.33	10.70	51.19	12/2006	357.24	Average	54	10/28/2010	10.70%	4.21%	6.49%	-3.16834
11/2/2010	Fully Ltrqated	67.5	No	Yes	8.18	10.38	54.29	12/2010	1,043.37	Average	12	11/2/2010	10.38%	4.20%	6.18%	-3.17043
11/4/2010	Fully Ltrqated	145.7	No	Yes	6.98	10.70	41.59	06/2011	6,873.41	Average	9	11/4/2010	10.70%	4.19%	6.51%	-3.17154
11/19/2010	Settled	29.5	No	No	7.91	10.20	46.50	12/2009	1,056.08	Average	8	11/19/2010	10.20%	4.17%	6.03%	-3.17607
11/22/2010	Fully Ltrqated	21.8	No	No	8.37	10.00	49.66	09/2009	1,781.00	Year-end	11	11/22/2010	10.00%	4.17%	5.83%	-3.17658
12/1/2010	Settled	68.0	Yes	Yes	8.52	10.13	NA	06/2009	NA	NA	11	12/1/2010	10.13%	4.16%	5.97%	-3.18051
12/6/2010	Fully Ltrqated	31.0	No	No	8.06	9.86	51.93	07/2010	2,242.80	Average	7	12/6/2010	9.86%	4.15%	5.71%	-3.18157
12/9/2010	Settled	7.0	No	Yes	7.92	10.25	48.00	12/2008	632.39	Average	13	12/9/2010	10.25%	4.15%	6.10%	-3.18225
12/13/2010	Settled	3.1	No	No	8.22	10.70	51.00	12/2008	591.68	Year-end	10	12/13/2010	10.70%	4.15%	6.55%	-3.18288
12/14/2010	Settled	80.0	No	No	8.08	10.13	51.00	12/2011	3,311.41							

1/25/2012	Settled	92.8	Yes	No	810	1050	53.00	12/2010	3,963.06	Year-end	5	1/25/2012	10.50%	3.57%	6.93%	-3.33388
1/27/2012	Settled	368.0	No	No	811	1050	53.00	12/2010	11,097.00	Year-end	7	1/27/2012	10.50%	3.55%	6.95%	-3.33779
2/15/2012	Settled	14.6	No	Yes	684	1020	42.07	12/2012	663.29	Average	7	2/15/2012	10.20%	3.47%	6.73%	-3.36141
2/23/2012	Settled	1.8	No	No	776	990	49.90	12/2011	105.10	Average	6	2/23/2012	9.90%	3.43%	6.47%	-3.37127
2/27/2012	Fully Ltrqated	68.1	Yes	Yes	639	1025	38.50	12/2012	1,703.97	Average	7	2/27/2012	10.25%	3.42%	6.83%	-3.37474
2/29/2012	Settled	15.7	Yes	Yes	NA	1040	NA	12/2011	NA	NA	14	2/29/2012	10.40%	3.41%	6.99%	-3.37819
3/29/2012	Settled	72.9	Yes	Yes	832	1037	52.58	12/2011	5,653.98	Average	17	3/29/2012	10.37%	3.31%	7.08%	-3.40781
4/4/2012	Settled	4.5	No	Yes	831	1000	55.91	12/2010	485.14	Average	28	4/4/2012	10.00%	3.29%	6.71%	-3.41955
4/26/2012	Settled	234.4	Yes	No	808	1000	56.00	NA	NA	NA	5	4/26/2012	10.00%	3.20%	6.80%	-3.44143
5/2/2012	Settled	4.7	No	Yes	815	1000	56.86	12/2010	387.32	Average	31	5/2/2012	10.00%	3.18%	6.82%	-3.44875
5/7/2012	Fully Ltrqated	63.3	No	No	780	980	48.00	12/2010	4,853.00	Average	10	5/7/2012	9.80%	3.16%	6.84%	-3.45328
5/15/2012	Settled	0.0	No	No	833	1000	53.94	12/2010	5,663.00	Year-end	11	5/15/2012	10.00%	3.14%	6.86%	-3.46006
5/29/2012	Fully Ltrqated	(133.4)	No	No	816	1005	46.17	12/2010	6,187.67	Year-end	6	5/29/2012	10.05%	3.11%	6.94%	-3.47211
6/7/2012	Fully Ltrqated	118.5	No	Yes	670	1030	42.07	09/2012	7,403.53	Average	12	6/7/2012	10.30%	3.07%	7.23%	-3.482
6/14/2012	Settled	19.4	Yes	No	761	940	48.00	06/2013	671.05	Average	10	6/14/2012	9.40%	3.06%	6.34%	-3.48662
6/15/2012	Fully Ltrqated	0.0	No	No	NA	1040	49.31	12/2013	2,104.54	Average	1	6/15/2012	10.40%	3.06%	7.34%	-3.48755
6/18/2012	Settled	2.7	No	No	799	960	54.00	08/2011	243.51	Year-end	6	6/18/2012	9.60%	3.05%	6.55%	-3.48865
6/19/2012	Fully Ltrqated	8.0	No	Yes	779	925	53.04	12/2010	319.53	Average	11	6/19/2012	9.25%	3.05%	6.20%	-3.48953
6/26/2012	Fully Ltrqated	9.2	No	Yes	635	1010	43.51	12/2012	354.89	Average	11	6/26/2012	10.10%	3.04%	7.06%	-3.4937
6/29/2012	Settled	43.1	No	Yes	811	1000	56.29	12/2011	1,385.83	Average	23	6/29/2012	10.00%	3.04%	6.96%	-3.49464
7/8/2012	Settled	4.3	No	No	NA	1020	NA	12/2010	NA	Year-end	11	7/8/2012	10.20%	3.03%	7.17%	-3.49705
7/16/2012	Settled	50.0	Yes	No	767	980	52.10	03/2013	1,830.20	Year-end	7	7/16/2012	9.80%	3.02%	6.78%	-3.50042
7/20/2012	Fully Ltrqated	18.1	No	No	796	931	50.13	12/2011	1,002.77	Average	7	7/20/2012	9.31%	3.01%	6.30%	-3.50434
7/20/2012	Fully Ltrqated	11.3	No	No	756	981	50.06	12/2011	400.75	Average	7	7/20/2012	9.81%	3.01%	6.80%	-3.50434
9/13/2012	Fully Ltrqated	27.7	No	No	827	980	49.92	06/2011	1,677.22	Year-end	9	9/13/2012	9.80%	2.94%	6.88%	-3.52718
9/19/2012	Settled	154.0	Yes	No	768	980	52.10	05/2013	NA	NA	7	9/19/2012	9.80%	2.94%	6.88%	-3.52693
9/19/2012	Fully Ltrqated	(48.1)	No	No	896	1005	51.49	12/2010	2,001.79	Year-end	7	9/19/2012	10.05%	2.94%	7.11%	-3.52883
9/26/2012	Fully Ltrqated	24.0	No	No	803	950	49.23	09/2011	1,150.00	Average	14	9/26/2012	9.50%	2.94%	6.56%	-3.52706
10/12/2012	Settled	14.7	Yes	Yes	681	960	45.00	03/2012	49.02	Year-end	9	10/12/2012	9.60%	2.93%	6.67%	-3.52952
10/23/2012	Settled	44.0	No	No	805	975	48.33	12/2011	921.85	Year-end	14	10/23/2012	9.75%	2.93%	6.82%	-3.52959
10/24/2012	Settled	28.5	No	No	NA	1030	51.61	12/2013	NA	NA	6	10/24/2012	10.30%	2.93%	7.37%	-3.52975
11/9/2012	Fully Ltrqated	14.9	No	No	941	1030	59.09	12/2013	417.85	Average	7	11/9/2012	10.30%	2.92%	7.38%	-3.53386
11/28/2012	Fully Ltrqated	205.7	Yes	No	915	1040	52.09	12/2013	3,928.42	Average	8	11/28/2012	10.40%	2.90%	7.50%	-3.54207
11/29/2012	Settled	23.2	Yes	Yes	738	975	49.61	12/2011	NA	NA	12	11/29/2012	9.75%	2.89%	6.86%	-3.54226
11/29/2012	Settled	12.5	No	No	775	988	51.50	12/2013	119.18	Average	9	11/29/2012	9.88%	2.89%	6.99%	-3.54226
12/5/2012	Fully Ltrqated	(5.1)	No	No	866	971	51.00	12/2011	1,973.63	Year-end	7	12/5/2012	9.71%	2.89%	6.82%	-3.54467
12/5/2012	Settled	71.1	No	No	799	1040	50.78	12/2012	2,407.73	Year-end	8	12/5/2012	10.40%	2.89%	7.51%	-3.54467
12/12/2012	Fully Ltrqated	259.6	No	No	791	980	52.30	09/2011	6,847.00	Year-end	10	12/12/2012	9.80%	2.88%	6.92%	-3.5473
12/13/2012	Fully Ltrqated	33.2	No	No	801	950	51.82	12/2011	1,798.48	Year-end	7	12/13/2012	9.50%	2.88%	6.62%	-3.54778
12/13/2012	Settled	350.0	Yes	No	NA	1050	NA	12/2013	NA	NA	8	12/13/2012	10.50%	2.88%	7.62%	-3.54778
12/14/2012	Fully Ltrqated	35.5	No	No	857	1040	52.37	12/2013	788.60	Average	6	12/14/2012	10.40%	2.88%	7.52%	-3.54831
12/19/2012	Fully Ltrqated	74.9	No	No	754	971	42.55	12/2011	6,367.03	Year-end	7	12/19/2012	9.71%	2.87%	6.84%	-3.55033
12/19/2012	Settled	97.1	No	No	820	1025	52.18	12/2011	4,842.52	Year-end	5	12/19/2012	10.25%	2.87%	7.38%	-3.55033
12/20/2012	Settled	20.9	No	No	717	950	49.14	12/2011	561.74	Average	7	12/20/2012	9.50%	2.87%	6.53%	-3.55107
12/20/2012	Settled	20.7	No	No	766	980	52.10	12/2013	3,253.92	Average	9	12/20/2012	9.80%	2.87%	6.93%	-3.55107
12/20/2012	Settled	51.0	No	No	NA	1025	NA	03/2012	NA	NA	5	12/20/2012	10.25%	2.87%	7.38%	-3.55107
12/20/2012	Settled	33.7	No	No	NA	1025	NA	03/2012	NA	NA	5	12/20/2012	10.25%	2.87%	7.38%	-3.55107
12/20/2012	Fully Ltrqated	(28.0)	No	No	779	1030	52.00	12/2013	NA	NA	8	12/20/2012	10.30%	2.87%	7.43%	-3.55107
12/20/2012	Fully Ltrqated	(181.2)	No	No	806	1040	52.00	12/2013	NA	NA	8	12/20/2012	10.40%	2.87%	7.53%	-3.55107
12/20/2012	Fully Ltrqated	(217.0)	No	No	790	1045	48.00	12/2013	NA	NA	8	12/20/2012	10.45%	2.87%	7.58%	-3.55107
12/21/2012	Fully Ltrqated	36.4	No	Yes	780	1020	51.00	12/2011	770.10	Year-end	8	12/21/2012	10.20%	2.87%	7.33%	-3.55203
12/26/2012	Settled	27.7	Yes	No	764	980	47.00	12/2011	NA	NA	8	12/26/2012	9.80%	2.86%	6.94%	-3.55447
1/9/2013	Settled	67.4	No	No	813	970	52.30	09/2011	2,052.56	Year-end	10	1/9/2013	9.70%	2.84%	6.86%	-3.56001
1/9/2013	Settled	26.2	No	No	813	970	52.30	09/2011	1,364.00	Year-end	10	1/9/2013	9.70%	2.84%	6.86%	-3.56001
1/9/2013	Settled	21.7	No	No	813	970	52.30	09/2011	465.80	Year-end	10	1/9/2013	9.70%	2.84%	6.86%	-3.56001
1/16/2013	Settled	39.5	No	No	703	960	40.00	06/2012	237.60	Year-end	4	1/16/2013	9.60%	2.84%	6.76%	-3.56133
1/16/2013	Settled	43.5	Yes	No	715	960	40.00	06/2012	283.24	Year-end	4	1/16/2013	9.60%	2.84%	6.76%	-3.56133
2/13/2013	Fully Ltrqated	85.0	No	No	697	1020	42.67	03/2011	2,398.83	Year-end	16	2/13/2013	10.20%	2.84%	7.36%	-3.56023
2/22/2013	Fully Ltrqated	80.6	No	No	780	975	48.40	09/2012	2,634.93	Average	7	2/22/2013	9.75%	2.85%	6.90%	-3.55652
2/27/2013	Settled	107.0	No	No	NA	1000	NA	12/2011	NA	NA	7	2/27/2013	9.75%	2.85%	6.90%	-3.55652
3/14/2013	Settled	43.4	Yes	No	650	930	49.00	03/2014	4,107.00	Average	10	3/14/2013	10.00%	2.86%	7.14%	-3.56531
3/27/2013	Settled	7.8	No	No	791	950	50.00	06/2012	659.00	Average	5	3/27/2013	9.80%	2.90%	6.90%	-3.53965
5/1/2013	Settled	49.0	No	No	773	984	53.30	12/2012	1,064.51	Date Certain	9	5/1/2013	9.84%	2.94%	6.90%	-3.52613
5/15/2013	Settled	89.0	No	Yes	NA	1030	NA	12/2013	NA	NA	7	5/15/2013	10.30%	2.96%	7.34%	-3.51954
5/30/2013	Settled	178.7	Yes	No	755	1020	53.00	03/2012	6,701.45	Year-end	7	5/30/2013	10.20%	2.98%	7.22%	-3.51307
5/31/2013	Settled	5.3	No	Yes	734	900	56.86	12/2012	393.40	Average	22	5/31/2013	9.00%	2.98%	6.02%	-3.51219
6/11/2013	Settled	76.2	No	No	726	1000	43.50	12/2011	1,507.06	Year-end	11	6/11/2013	10.00%	3.00%	7.00%	-3.50532
6/21/2013	Settled	25.5	No	No	804	975	48.70	09/2012	1,008.97	Year-end	6	6/21/2013	9.75%	3.02%	6.73%	-3.49876
6/25/2013	Settled	52.3	No	No	777	980	48.00	06/2012	2,621.99	Year-end	4	6/25/2013	9.80%	3.03%	6.77%	-3.49676
7/12/2013	Fully Ltrqated	27.9	No	No	763	936	48.89	12/2012	1,183.05	Average	7	7/12/2013	9.36%	3.08%	6.28%	-3.48179
8/8/2013	Fully Ltrqated	102.8	No	Yes	745	983	52.56	12/2013	6,148.36	Average	9	8/8/2013	9.83%	3.14%	6.69%	-3.45936
8/14/2013	Fully Ltrqated	46.1	Yes	No	721	915	50.00	06/2012	886.88	Average	6	8/14/2013	9.15%	3.16%	5.99%	-3.45386
9/11/2013	Settled	118.6	Yes	No	789	1020	53.00	06/2012	4,228.96	Year-end	5	9/11/2013	10.20%	3.27%	6.93%	-3.42153
9/11/2013	Settled	70.0	Yes	No	NA	1025	42.00	12/2014	NA	NA	5	9/11/2013	10.25%	3.27%	6.98%	-3.42153
9/24/2013	Settled	234.5	Yes	No	788	1020	53.00	06/2012	11,512.63	Year-end	7	9/24/2013	10.20%	3.31%	6.89%	-3.40922
10/3/2013	Fully Ltrqated	52.4	No	No	777	965	49.10	12/2011	1,173.93	Year-end	14	10/3/2013	9.65%	3.33%	6.32%	-3.40108
11/																

12/10/2014	Fully Ltrqated	200 6	No	No	8 08	9 25	51 00	12/2013	2,260 71	Year-end	7	12/10/2014	9 25%	3 29%	5 96%	-3 41446
12/10/2014	Fully Ltrqated	232 8	No	No	7 06	9 25	45 77	12/2013	7,344 02	Year-end	7	12/10/2014	9 25%	3 29%	5 96%	-3 41446
12/11/2014	Settled	177 7	No	No	7 51	10 07	NA	12/2015	2,014 33	Average	6	12/11/2014	10 07%	3 28%	6 79%	-3 41585
12/12/2014	Fully Ltrqated	14 2	No	No	NA	10 20	52 54	12/2015	NA	NA	6	12/12/2014	10 20%	3 28%	6 92%	-3 41736
12/17/2014	Fully Ltrqated	152 7	No	No	7 31	9 17	50 38	12/2013	3,396 54	Average	6	12/17/2014	9 17%	3 27%	5 90%	-3 42167
12/18/2014	Fully Ltrqated	9 2	No	No	7 55	9 83	49 83	12/2013	448 33	Average	7	12/18/2014	9 83%	3 26%	6 57%	-3 42287
12/23/2014	Settled	20 2	No	No	7 41	9 50	51 43	08/2015	2,067 00	Average	10	12/23/2014	9 50%	3 14%	6 36%	-3 46197
2/24/2015	Settled	(39 4)	No	Yes	7 55	9 83	56 00	12/2013	NA	Year-end	8	2/24/2015	9 83%	3 04%	6 79%	-3 48463
3/18/2015	Fully Ltrqated	(115 0)	No	No	8 01	9 75	50 00	12/2011	1,830 02	Year-end	27	3/18/2015	9 75%	2 98%	6 77%	-3 514
3/25/2015	Fully Ltrqated	8 6	No	No	7 30	9 50	49 10	12/2013	819 89	Average	10	3/25/2015	9 50%	2 95%	6 55%	-3 52179
3/28/2015	Fully Ltrqated	148 4	Yes	Yes	7 37	9 72	52 50	12/2014	6,988 29	Average	16	3/28/2015	9 72%	2 95%	6 77%	-3 52324
4/23/2015	Settled	4 0	Yes	No	6 01	10 20	NA	12/2015	NA	NA	6	4/23/2015	10 20%	2 87%	7 33%	-3 55182
4/29/2015	Fully Ltrqated	121 5	No	No	7 60	9 53	51 76	03/2014	6,976 28	Year-end	10	4/29/2015	9 53%	2 86%	6 67%	-3 55602
5/1/2015	Settled	30 9	No	No	6 11	9 60	40 00	09/2014	446 72	Year-end	4	5/1/2015	9 60%	2 85%	6 75%	-3 55765
5/26/2015	Fully Ltrqated	123 5	No	No	7 38	9 75	47 16	12/2013	3,700 12	Average	11	5/26/2015	9 75%	2 83%	6 92%	-3 56549
6/17/2015	Settled	15 3	Yes	No	6 62	9 00	48 00	06/2016	830 09	Average	10	6/17/2015	9 00%	2 82%	6 18%	-3 56901
6/17/2015	Settled	0 0	No	No	6 91	9 00	48 00	12/2016	18,282 00	Average	4	6/17/2015	9 00%	2 82%	6 18%	-3 56901
9/2/2015	Fully Ltrqated	89 7	No	No	7 53	9 50	50 09	03/2014	2,580 07	Year-end	10	9/2/2015	9 50%	2 79%	6 71%	-3 57902
9/10/2015	Fully Ltrqated	40 1	No	No	7 44	9 30	50 48	06/2014	2,115 96	Year-end	8	9/10/2015	9 30%	2 79%	6 51%	-3 57928
9/25/2015	Settled	71 7	No	No	6 25	9 60	40 00	12/2014	847 33	Year-end	4	9/25/2015	9 60%	2 80%	6 80%	-3 57542
10/15/2015	Settled	9 3	Yes	No	7 10	9 00	48 00	10/2016	763 16	Average	11	10/15/2015	9 00%	2 81%	6 19%	-3 57101
11/19/2015	Fully Ltrqated	(7 9)	No	No	8 24	10 00	50 47	12/2016	1,745 69	Average	7	11/19/2015	10 00%	2 88%	7 12%	-3 54708
11/19/2015	Fully Ltrqated	126 4	Yes	Yes	6 18	10 30	41 50	05/2016	9,160 09	Average	11	11/19/2015	10 30%	2 88%	7 42%	-3 54708
12/3/2015	Fully Ltrqated	7 6	No	No	7 81	10 00	52 49	12/2016	1 175 23	Average	6	12/3/2015	10 00%	2 90%	7 10%	-3 5414
12/9/2015	Fully Ltrqated	95 1	No	No	7 65	9 14	50 00	12/2014	2,480 48	Year-end	7	12/9/2015	9 14%	2 90%	6 24%	-3 55957
12/9/2015	Fully Ltrqated	(65 5)	No	No	7 05	9 14	46 25	12/2014	8,276 94	Year-end	7	12/9/2015	9 14%	2 90%	6 24%	-3 55957
12/11/2015	Fully Ltrqated	242 7	No	Yes	5 70	10 30	38 03	08/2016	13,431 97	Average	11	12/11/2015	10 30%	2 90%	7 40%	-3 53922
12/15/2015	Settled	70 4	Yes	No	7 51	9 60	50 00	12/2016	4,440 31	Year-end	10	12/15/2015	9 60%	2 91%	6 89%	-3 53831
12/17/2015	Fully Ltrqated	(4 0)	No	No	7 89	9 70	51 00	06/2014	1,394 57	Year-end	12	12/17/2015	9 70%	2 91%	6 79%	-3 53739
12/18/2015	Settled	1 7	No	No	7 42	9 50	50 00	12/2014	735 02	Average	6	12/18/2015	9 50%	2 91%	6 59%	-3 53691
12/30/2015	Fully Ltrqated	16 3	No	No	7 41	9 50	51 44	12/2015	2,087 28	Average	10	12/30/2015	9 50%	2 93%	6 57%	-3 53076
1/6/2016	Settled	(8 1)	No	No	7 29	9 50	48 50	09/2014	1,315 89	NA	11	1/6/2016	9 50%	2 94%	6 58%	-3 52677
2/23/2016	Settled	219 7	No	No	4 52	9 75	28 46	03/2015	NA	NA	10	2/23/2016	9 75%	2 94%	6 81%	-3 52825
3/16/2016	Fully Ltrqated	29 6	No	No	6 51	9 85	37 33	06/2014	1,887 31	Year-end	14	3/16/2016	9 85%	2 91%	6 94%	-3 53767
4/29/2016	Fully Ltrqated	2 1	No	No	8 46	9 80	52 17	12/2014	57 16	Year-end	10	4/29/2016	9 80%	2 83%	6 97%	-3 56403
6/3/2016	Fully Ltrqated	44 1	No	No	7 28	9 75	51 90	11/2015	2,934 73	Average	7	6/3/2016	9 75%	2 80%	6 95%	-3 57497
6/8/2016	Fully Ltrqated	1 1	NA	NA	7 67	9 48	49 29	12/2014	414 46	Year-end	13	6/8/2016	9 48%	2 80%	6 68%	-3 57712
6/15/2016	Settled	29 6	Yes	No	6 68	9 00	48 00	04/2017	1,752 85	Average	13	6/15/2016	9 00%	2 78%	6 22%	-3 58157
6/15/2016	Settled	3 0	No	No	7 55	9 00	48 00	04/2017	1,146 36	Average	13	6/15/2016	9 00%	2 78%	6 22%	-3 58157
7/18/2016	Settled	72 5	No	No	6 74	9 98	47 42	03/2015	3,221 42	Year-end	9	7/18/2016	9 98%	2 71%	7 27%	-3 6083
8/9/2016	Settled	8 6	No	No	6 18	9 85	40 25	12/2017	82 75	Average	7	8/9/2016	9 85%	2 66%	7 19%	-3 62714
8/18/2016	Fully Ltrqated	15 1	No	No	7 22	9 50	52 83	12/2014	270 29	Year-end	17	8/18/2016	9 50%	2 63%	6 87%	-3 63804
8/24/2016	Settled	45 0	No	No	7 64	9 75	49 48	12/2015	1,205 96	Year-end	5	8/24/2016	9 75%	2 61%	7 14%	-3 64411
9/1/2016	Fully Ltrqated	13 7	Yes	No	7 30	9 50	49 10	08/2015	808 33	Year-end	9	9/1/2016	9 50%	2 59%	6 91%	-3 65289
9/8/2016	Fully Ltrqated	7 47	No	Yes	7 47	10 00	53 49	12/2016	242 34	Average	11	9/8/2016	10 00%	2 57%	7 43%	-3 65975
9/28/2016	Fully Ltrqated	61 2	No	No	7 71	9 58	49 61	09/2016	2,263 00	Average	11	9/28/2016	9 58%	2 53%	7 05%	-3 67528
9/30/2016	Fully Ltrqated	169 7	No	No	7 58	9 90	50 70	06/2015	1,783 12	Year-end	10	9/30/2016	9 90%	2 53%	7 37%	-3 67788
11/8/2016	Fully Ltrqated	(3 3)	No	No	7 89	9 80	57 16	12/2017	570 78	Average	7	11/8/2016	9 80%	2 48%	7 32%	-3 68634
11/10/2016	Fully Ltrqated	14 5	No	Yes	6 94	9 50	44 00	01/2015	2,024 77	Year-end	16	11/10/2016	9 50%	2 48%	7 02%	-3 68576
11/15/2016	Fully Ltrqated	52 5	No	No	7 49	9 55	49 55	12/2015	1,636 94	Average	7	11/15/2016	9 55%	2 49%	7 06%	-3 69316
11/18/2016	Settled	9 4	Yes	No	7 91	10 00	52 20	12/2018	2,851 38	Average	6	11/18/2016	10 00%	2 50%	7 50%	-3 69062
11/29/2016	Settled	811 0	Yes	No	NA	10 55	NA	12/2018	NA	NA	8	11/29/2016	10 55%	2 51%	8 04%	-3 68534
12/1/2016	Settled	8 3	No	No	7 51	10 00	52 50	12/2016	145 66	Average	19	12/1/2016	10 00%	2 51%	7 49%	-3 68351
12/6/2016	Fully Ltrqated	(8 8)	No	No	7 28	8 64	50 00	12/2015	2,555 71	Year-end	7	12/6/2016	8 64%	2 52%	6 12%	-3 68111
12/6/2016	Fully Ltrqated	113 3	No	No	6 71	8 64	45 62	12/2015	8,826 62	Year-end	7	12/6/2016	8 64%	2 52%	6 12%	-3 68111
12/7/2016	Settled	56 2	Yes	No	7 21	10 10	53 00	12/2015	1,305 96	Year-end	5	12/7/2016	10 10%	2 52%	7 58%	-3 68038
12/12/2016	Settled	80 0	No	No	7 47	9 60	45 00	06/2016	2 217 12	Year-end	7	12/12/2016	9 60%	2 53%	7 07%	-3 67784
12/14/2016	Fully Ltrqated	57 4	Yes	No	7 08	9 10	50 00	12/2015	1,014 14	Average	5	12/14/2016	9 10%	2 53%	6 57%	-3 67574
12/19/2016	Fully Ltrqated	3 0	No	No	7 45	9 00	49 00	12/2014	259 64	Average	9	12/19/2016	9 00%	2 54%	6 46%	-3 67329
12/19/2016	Fully Ltrqated	0 6	No	No	7 43	9 37	52 39	12/2015	414 59	Average	7	12/19/2016	9 37%	2 54%	6 83%	-3 67329
12/22/2016	Settled	(2 9)	No	No	6 65	9 60	48 03	12/2015	NA	NA	6	12/22/2016	9 60%	2 55%	7 05%	-3 67071
12/22/2016	Settled	34 7	No	Yes	7 37	9 40	51 75	12/2015	1,040 04	Year-end	8	12/22/2016	9 40%	2 55%	7 35%	-3 67071
12/28/2016	Settled	6 3	No	No	7 58	9 50	50 00	12/2015	754 00	Average	7	12/28/2016	9 50%	2 55%	6 95%	-3 66739
1/18/2017	Settled	2 7	No	No	7 25	9 45	50 99	12/2015	72 21	Year-end	7	1/18/2017	9 45%	2 58%	6 87%	-3 6555
1/24/2017	Settled	194 5	Yes	No	6 82	9 00	48 00	12/2017	18,902 00	Average	12	1/24/2017	9 00%	2 59%	6 41%	-3 65212
1/31/2017	Fully Ltrqated	184 3	No	Yes	5 55	10 10	37 49	07/2017	14,243 72	Average	12	1/31/2017	10 10%	2 60%	7 50%	-3 64863
2/15/2017	Fully Ltrqated	38 3	No	No	6 74	9 60	49 10	03/2016	707 25	Average	7	2/15/2017	9 60%	2 62%	6 98%	-3 64009
2/22/2017	Settled	1 7	No	No	7 47	9 60	49 70	12/2016	178 73	Year-end	9	2/22/2017	9 60%	2 64%	6 96%	-3 63604
2/24/2017	Settled	81 5	No	No	7 04	9 75	50 03	06/2015	2,045 20	Year-end	15	2/24/2017	9 75%	2 64%	7 11%	-3 63468
2/28/2017	Fully Ltrqated	113 3	No	Yes	5 94	10 10	40 75	08/2017	10 159 17	Average	12	2/28/2017	10 10%	2 64%	7 46%	-3 6334
3/2/2017	Fully Ltrqated	12 3	No	Yes	7 51	9 41	52 50	12/2016	487 19	Average	12	3/2/2017	9 41%	2 65%	6 76%	-3 63179
3/20/2017	Fully Ltrqated	8 8	No	Yes	7 69	9 50	53 31	06/2015	4 202 13	Year-end	15	3/20/2017	9 50%	2 68%	6 82%	-3 61815
4/4/2017	Settled	62 0	No	No	NA	10 25	NA	12/2017	NA	NA	5	4/4/2017	10 25%	2 72%	7 53%	-3 60598
4/12/2017	Settled	3 8	Yes	Yes	7 64	9 40	50 00	12/2015	NA	NA	11	4/12/2017	9 40%	2 74%	6 68%	-3 59747
4/20/2017	Settled	4 1	Yes	Yes	8 34	9 50	50 97	12/2015	NA	NA	11	4/20/2017				

6/22/2018	Settled	(13 0)	No	No	7 35	9 90	52 00	12/2016	13,500 00	Year-end	10	6/22/2018	9 90%	2 97%	6 93%	-3 51732
6/28/2018	Fully Ltrqated	4 5	No	No	7 18	9 35	49 00	12/2016	292 87	Average	8	6/28/2018	9 35%	2 97%	6 38%	-3 51601
6/29/2018	Settled	(0 1)	No	Yes	7 80	9 50	56 69	12/2016	481 31	Average	21	6/29/2018	9 50%	2 97%	6 53%	-3 51563
8/8/2018	Settled	(24 1)	No	No	7 45	9 53	50 44	12/2017	NA	NA	7	8/8/2018	9 53%	2 99%	6 54%	-3 50803
8/21/2018	Settled	(6 9)	No	Yes	6 78	9 70	50 52	12/2017	NA	NA	12	8/21/2018	9 70%	3 00%	6 70%	-3 50506
8/24/2018	Settled	28 9	Yes	No	6 97	9 28	50 95	08/2017	734 84	Average	9	8/24/2018	9 28%	3 01%	6 27%	-3 50416
9/5/2018	Fully Ltrqated	12 5	No	No	7 24	9 56	53 97	08/2017	870 33	Year-end	10	9/5/2018	9 56%	3 02%	6 54%	-3 50075
9/14/2018	Settled	0 0	No	No	7 08	10 00	52 00	12/2020	3,955 30	Average	3	9/14/2018	10 00%	3 03%	6 97%	-3 48675
9/20/2018	Settled	(9 2)	No	No	7 10	9 80	56 08	12/2020	880 54	Average	2	9/20/2018	9 80%	3 04%	6 78%	-3 48371
9/26/2018	Settled	7 4	No	Yes	7 64	9 77	52 50	12/2018	384 76	Average	10	9/26/2018	9 77%	3 05%	6 72%	-3 48114
9/26/2018	Settled	26 9	No	No	7 27	10 00	47 52	05/2016	643 52	Date Certain	34	9/26/2018	10 00%	3 05%	6 95%	-3 48114
9/27/2018	Settled	(50 3)	No	No	7 06	9 30	51 24	08/2017	NA	Year-end	7	9/27/2018	9 30%	3 05%	6 25%	-3 49056
10/4/2018	Fully Ltrqated	3 2	No	No	7 48	9 85	54 02	09/2019	94 85	Year-end	8	10/4/2018	9 85%	3 06%	6 79%	-3 48654
10/29/2018	Settled	89 9	No	Yes	6 99	9 60	54 00	06/2018	5,476 00	Year-end	9	10/29/2018	9 60%	3 10%	6 50%	-3 47252
10/31/2018	Settled	43 9	No	No	6 59	9 99	39 67	06/2017	3,339 57	Year-end	10	10/31/2018	9 99%	3 11%	6 88%	-3 47099
11/1/2018	Fully Ltrqated	73 7	No	No	6 99	8 69	50 00	12/2017	2,951 88	Year-end	6	11/1/2018	8 69%	3 11%	5 58%	-3 47024
12/4/2018	Fully Ltrqated	(26 1)	No	No	6 52	8 69	47 11	12/2017	10,675 26	Year-end	7	12/4/2018	8 69%	3 14%	5 55%	-3 46138
12/13/2018	Settled	(3 9)	No	No	7 07	9 30	49 09	09/2017	NA	NA	7	12/13/2018	9 30%	3 14%	6 16%	-3 46124
12/14/2018	Settled	8 6	No	No	7 30	9 50	50 00	12/2019	4,744 71	Year-end	10	12/14/2018	9 50%	3 14%	6 36%	-3 46122
12/19/2018	Settled	(19 2)	No	No	7 54	9 84	50 75	03/2017	1 302 47	Date Certain	21	12/19/2018	9 84%	3 14%	6 70%	-3 44613
12/20/2018	Settled	22 8	No	No	7 89	9 85	45 00	12/2017	520 30	Year-end	6	12/20/2018	9 65%	3 14%	6 51%	-3 46134
12/21/2018	Fully Ltrqated	23 5	No	No	6 97	9 30	49 85	09/2017	1 557 78	Average	8	12/21/2018	9 30%	3 14%	6 16%	-3 46143
1/9/2019	Settled	(24 0)	No	No	NA	10 00	NA	12/2019	NA	Average	8	1/9/2019	10 00%	3 14%	6 88%	-3 46231
2/27/2019	Settled	44 2	No	No	7 28	9 75	50 16	12/2017	4 004 98	Average	9	2/27/2019	9 75%	3 12%	6 63%	-3 46717
3/13/2019	Settled	70 0	No	No	7 08	9 60	49 84	12/2018	1,494 80	Year-end	6	3/13/2019	9 60%	3 12%	6 49%	-3 46734
3/14/2019	Settled	13 4	Yes	No	6 97	9 00	48 00	12/2019	877 79	Average	13	3/14/2019	9 00%	3 12%	5 88%	-3 46741
3/14/2019	Settled	46 0	No	No	6 97	9 40	NA	03/2018	NA	NA	5	3/14/2019	9 40%	3 12%	6 29%	-3 46741
3/22/2019	Fully Ltrqated	6 2	No	No	7 15	9 65	52 82	06/2018	461 66	Average	7	3/22/2019	9 65%	3 12%	6 53%	-3 46932
4/30/2019	Settled	55 9	No	No	NA	9 73	NA	04/2020	NA	NA	7	4/30/2019	9 73%	3 11%	6 62%	-3 47154
4/30/2019	Settled	2 1	No	No	NA	9 73	NA	04/2020	NA	NA	7	4/30/2019	9 73%	3 11%	6 62%	-3 47154
5/1/2019	Fully Ltrqated	106 9	No	No	7 16	9 50	53 00	12/2017	5 445 67	Year-end	5	5/1/2019	9 50%	3 11%	6 39%	-3 47186
5/2/2019	Fully Ltrqated	273 3	No	No	5 48	10 00	37 94	04/2020	17,058 83	Average	10	5/2/2019	10 00%	3 11%	6 89%	-3 47221
5/8/2019	Fully Ltrqated	41 5	No	No	6 99	9 50	53 00	12/2017	1 477 36	Year-end	6	5/8/2019	9 50%	3 10%	6 40%	-3 47352
5/14/2019	Fully Ltrqated	4 8	No	Yes	7 09	8 75	52 92	12/2017	83 50	Average	12	5/14/2019	8 75%	3 10%	5 65%	-3 47509
5/16/2019	Settled	12 2	No	Yes	7 43	9 50	57 02	12/2018	454 33	Average	19	5/16/2019	9 50%	3 09%	6 41%	-3 47582
5/23/2019	Settled	1 8	No	No	6 91	9 90	NA	12/2019	NA	Average	8	5/23/2019	9 90%	3 09%	6 81%	-3 47765
8/12/2019	Fully Ltrqated	10 3	No	No	7 45	9 60	50 46	01/2019	1,958 40	Average	6	8/12/2019	9 60%	2 89%	6 71%	-3 54245
8/29/2019	Fully Ltrqated	16 7	Yes	No	6 85	9 06	49 46	09/2020	1,622 31	Average	2	8/29/2019	9 06%	2 81%	6 25%	-3 57273
9/4/2019	Settled	0 7	Yes	No	7 74	10 00	52 52	12/2018	1,482 79	Average	3	9/4/2019	10 00%	2 78%	7 22%	-3 58254
9/30/2019	Fully Ltrqated	90 1	Yes	No	7 56	9 80	53 49	12/2017	2,151 48	Year-end	10	9/30/2019	9 60%	2 70%	6 90%	-3 61338
10/31/2019	Settled	81 3	No	No	7 49	10 00	54 46	12/2020	4,738 61	NA	7	10/31/2019	10 00%	2 60%	7 40%	-3 65033
10/31/2019	Settled	38 6	No	No	7 22	10 00	51 98	12/2020	2,569 52	NA	13	10/31/2019	10 00%	2 60%	7 40%	-3 65033
11/7/2019	Fully Ltrqated	(41 8)	No	No	7 09	9 35	50 00	NA	NA	NA	13	11/7/2019	9 35%	2 58%	6 77%	-3 65742
11/29/2019	Settled	(7 2)	No	No	7 35	9 50	50 90	12/2019	827 75	Year-end	5	11/29/2019	9 50%	2 52%	6 98%	-3 68063
12/4/2019	Fully Ltrqated	(3 1)	No	No	6 51	8 91	47 97	12/2018	11,355 14	Year-end	9	12/4/2019	9 91%	2 51%	6 40%	-3 68562
12/4/2019	Settled	42 7	Yes	No	6 52	9 75	47 86	12/2019	4 115 50	Year-end	8	12/4/2019	9 75%	2 51%	7 24%	-3 68562
12/16/2019	Fully Ltrqated	(3 0)	No	No	6 71	8 91	50 00	12/2018	3,180 74	Year-end	8	12/16/2019	8 91%	2 48%	6 43%	-3 69983
12/17/2019	Settled	25 0	No	No	6 94	9 70	NA	07/2019	NA	NA	6	12/17/2019	9 70%	2 47%	7 23%	-3 69974
12/17/2019	Fully Ltrqated	909 0	Yes	No	NA	10 50	56 00	NA	NA	NA	5	12/17/2019	10 50%	2 47%	8 03%	-3 69974
12/19/2019	Fully Ltrqated	NA	No	No	7 55	10 20	52 00	12/2020	NA	NA	8	12/19/2019	10 20%	2 47%	7 73%	-3 7025
12/19/2019	Fully Ltrqated	46 0	No	No	7 81	10 25	52 00	12/2020	NA	NA	8	12/19/2019	10 25%	2 47%	7 78%	-3 7025
12/19/2019	Fully Ltrqated	25 0	No	No	7 68	10 30	52 00	12/2020	NA	NA	8	12/19/2019	10 30%	2 47%	7 83%	-3 7025
12/20/2019	Settled	52 8	No	No	4 93	9 45	33 71	12/2018	1,112 52	Year-end	9	12/20/2019	9 45%	2 46%	6 99%	-3 70387
12/20/2019	Settled	6 5	No	Yes	6 92	9 65	49 38	NA	NA	NA	14	12/20/2019	9 65%	2 46%	7 19%	-3 70387
12/24/2019	Settled	(5 0)	No	No	6 85	9 70	50 92	12/2018	1 818 53	Year-end	6	12/24/2019	9 70%	2 46%	7 24%	-3 70655
1/8/2020	Settled	127 0	No	Yes	7 23	10 02	51 00	12/2020	6 126 71	Average	10	1/8/2020	10 02%	2 43%	7 59%	-3 71898
1/16/2020	Settled	113 3	Yes	No	6 61	8 80	48 00	12/2020	21 659 54	Average	11	1/16/2020	8 80%	2 41%	6 39%	-3 72702
1/22/2020	Settled	12 0	No	No	7 11	9 50	48 32	09/2019	229 88	Year-end	8	1/22/2020	9 50%	2 39%	7 11%	-3 73308
1/23/2020	Settled	36 4	No	No	6 08	9 86	46 56	12/2020	1 131 20	Average	7	1/23/2020	9 86%	2 39%	7 47%	-3 73473
2/6/2020	Fully Ltrqated	(5 8)	No	No	NA	10 00	51 96	12/2019	NA	NA	22	2/6/2020	10 00%	2 34%	7 66%	-3 75518
2/11/2020	Fully Ltrqated	292 7	No	No	6 97	9 30	55 61	08/2019	8 136 51	Average	8	2/11/2020	9 30%	2 33%	6 97%	-3 75854
2/14/2020	Settled	55 9	No	No	6 51	8 40	42 50	12/2018	6 286 07	Year-end	10	2/14/2020	9 40%	2 32%	7 08%	-3 76369
2/19/2020	Fully Ltrqated	17 4	No	No	6 30	8 25	50 00	06/2018	939 45	Average	16	2/19/2020	8 25%	2 31%	5 94%	-3 76898
2/24/2020	Settled	5 0	No	Yes	7 20	9 75	52 00	12/2018	1 131 42	Year-end	11	2/24/2020	9 75%	2 29%	7 46%	-3 77509
2/27/2020	Settled	0 7	No	No	6 45	9 40	42 50	12/2018	2,403 99	Year-end	10	2/27/2020	9 40%	2 28%	7 12%	-3 78148
3/11/2020	Fully Ltrqated	77 1	Yes	No	5 61	9 70	37 55	12/2020	4,694 02	Year-end	10	3/11/2020	9 70%	2 23%	7 47%	-3 80502
3/25/2020	Settled	28 5	No	No	7 21	9 40	48 50	12/2018	NA	NA	11	3/25/2020	9 40%	2 17%	7 23%	-3 82949
4/17/2020	Settled	1 1	No	No	7 99	9 70	52 45	12/2018	72 21	Year-end	4	4/17/2020	9 70%	2 07%	7 63%	-3 87965
4/27/2020	Fully Ltrqated	24 1	No	No	6 41	9 25	48 23	03/2021	881 00	Average	7	4/27/2020	9 25%	2 02%	7 23%	-3 90004
5/8/2020	Fully Ltrqated	188 3	No	No	5 46	9 90	38 32	04/2021	17 885 89	Average	10	5/8/2020	9 90%	1 97%	7 93%	-3 92734
5/20/2020	Settled	31 0	No	No	7 19	9 45	54 77	03/2019	1 270 95	Year-end	10	5/20/2020	9 45%	1 94%	7 51%	-3 94344
6/29/2020	Fully Ltrqated	145 9	Yes	No	5 71	9 70	40 98	12/2020	10 195 19	Year-end	12	6/29/2020	9 70%	1 85%	7 85%	-3 99025
6/30/2020	Settled	4 2	Yes	Yes	7 60	9 10	52 00	12/2018	NA	Year-end	14	6/30/2020	9 10%	1 85%	7 25%	-3 99236
7/1/2020	Settled	1 0	No	No	6 77	9 25	46 00	03/2019	NA	NA	10	7/1/2020	9 25%	1 84%	7 41%	-3 99432
7/8/2020	Fully Ltrqated	59 6	No	No	7 39	9 40	48 50	12/2018	5 433 45	Year-end	12	7/8/2020	9 40%	1 82%	7 58%	-4 00359
7/14/2020	Fully Ltrqated	81 7	No	No	6 84	9 60	50 53	08/2019	844 57	Average	7	7/14/2020	9 6			

9/16/1983	Settled	21 0	No	No	NA	NA	NA	12/1983	1,774 80	Year-end	4
9/21/1983	Settled	(13 5)	No	No	NA	NA	NA	12/1983	NA	NA	3
9/22/1983	Settled	4 6	No	No	NA	NA	NA	NA	NA	NA	4
11/23/1983	Settled	74 5	No	No	11 35	NA	NA	NA	NA	NA	8
12/15/1983	Settled	4 0	No	No	NA	NA	NA	12/1982	NA	Year-end	5
1/30/1984	Settled	35 0	No	Yes	NA	NA	NA	05/1984	NA	NA	8
5/29/1984	Fully Ltrqated	58 5	No	No	10 96	NA	NA	12/1983	2,869 80	Average	6
6/22/1984	Settled	8 2	No	No	NA	NA	NA	09/1984	NA	Year-end	4
7/12/1984	Settled	29 9	Yes	No	NA	NA	NA	12/1983	NA	Average	8
11/16/1984	Settled	(10 0)	Yes	No	NA	NA	NA	NA	NA	NA	0
1/31/1985	Settled	2 2	No	No	NA	NA	NA	12/1983	NA	NA	6
3/5/1985	Fully Ltrqated	0 0	No	No	NA	NA	NA	06/1984	2,541 20	Average	10
3/5/1985	Fully Ltrqated	0 0	No	No	NA	NA	NA	06/1984	NA	Average	10
7/30/1985	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA	NA	2
10/2/1985	Settled	1 4	No	No	NA	NA	NA	12/1984	NA	Average	10
11/19/1985	Settled	383 0	Yes	Yes	NA	NA	NA	06/1984	NA	Average	1
12/12/1985	Fully Ltrqated	7 0	No	No	NA	NA	NA	NA	NA	NA	2
2/19/1986	Settled	(4 4)	No	No	11 70	NA	NA	06/1985	NA	Year-end	5
3/7/1986	Settled	68 2	No	Yes	14 79	NA	NA	03/1984	1,603 50	Year-end	12
3/25/1986	Settled	60 0	Yes	Yes	NA	NA	NA	06/1984	NA	Average	10
5/1/1986	Fully Ltrqated	0 0	No	No	NA	NA	NA	06/1985	NA	Average	11
6/2/1986	Settled	9 3	No	No	NA	NA	NA	06/1985	NA	Year-end	5
6/4/1986	Fully Ltrqated	0 0	No	No	NA	NA	NA	12/1984	NA	Average	8
7/8/1986	Settled	32 4	No	Yes	NA	NA	NA	06/1985	NA	NA	6
8/7/1986	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA	NA	5
9/12/1986	Fully Ltrqated	(1 0)	No	No	NA	NA	NA	12/1985	NA	Average	5
10/2/1986	Settled	(5 8)	No	No	10 08	NA	NA	NA	NA	NA	3
10/15/1986	Settled	(80 0)	No	No	NA	NA	NA	12/1985	NA	Year-end	12
11/25/1986	Settled	38 0	No	No	NA	NA	NA	NA	NA	NA	5
11/25/1986	Settled	14 0	No	No	NA	NA	NA	NA	NA	NA	5
18/1987	Settled	15 3	Yes	No	NA	NA	NA	NA	NA	NA	6
4/14/1987	Settled	NA	No	No	NA	NA	NA	12/1987	NA	NA	3
9/9/1987	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA	NA	14
12/30/1988	Settled	7 5	No	No	NA	NA	NA	12/1987	NA	NA	6
1/31/1989	Settled	324 8	Yes	No	NA	NA	NA	11/1988	NA	NA	10
1/31/1989	Settled	135 7	Yes	No	NA	NA	NA	11/1988	NA	NA	10
7/6/1989	Settled	9 5	Yes	No	NA	NA	NA	12/1986	NA	Average	36
9/26/1989	Settled	(11 0)	No	No	NA	NA	NA	12/1988	NA	NA	4
10/31/1989	Settled	NA	No	No	NA	NA	NA	NA	NA	NA	6
12/15/1989	Settled	39 0	No	No	NA	NA	NA	12/1988	NA	NA	7
12/18/1989	Settled	4 4	No	No	NA	NA	NA	12/1988	NA	NA	7
5/29/1990	Settled	13 8	No	No	NA	NA	NA	NA	NA	NA	3
8/6/1990	Fully Ltrqated	0 0	No	Yes	NA	NA	NA	NA	NA	NA	9
8/31/1990	Fully Ltrqated	5 7	No	No	NA	NA	NA	NA	NA	NA	8
9/17/1990	Fully Ltrqated	1 6	No	Yes	NA	NA	NA	12/1989	NA	Average	6
12/19/1990	Settled	120 0	No	No	NA	NA	NA	12/1989	NA	Year-end	7
3/22/1991	Settled	30 0	No	Yes	NA	NA	NA	09/1988	NA	Year-end	24
4/1/1991	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA	NA	4
7/1/1991	Settled	32 2	No	No	NA	NA	NA	06/1990	NA	Year-end	6
7/3/1991	Settled	(36 0)	No	No	NA	NA	NA	NA	NA	NA	5
9/6/1991	Settled	17 0	No	No	NA	NA	NA	12/1990	NA	Year-end	5
10/11/1991	Settled	71 0	No	No	7 87	NA	NA	06/1990	NA	Year-end	12
12/5/1991	Settled	66 5	No	Yes	8 38	NA	NA	12/1990	NA	Year-end	23
12/30/1991	Settled	5 5	No	No	NA	NA	NA	09/1991	NA	NA	4
6/30/1992	Settled	23 0	Yes	No	NA	NA	NA	NA	NA	NA	6
7/15/1992	Settled	3 3	No	No	9 93	NA	NA	12/1991	65 90	Date Certain	9
10/27/1992	Settled	28 3	Yes	No	NA	NA	NA	NA	NA	NA	4
12/15/1992	Settled	4 2	Yes	No	NA	NA	NA	12/1991	NA	Average	5
12/30/1992	Settled	8 1	No	No	NA	NA	NA	12/1991	NA	Year-end	6
3/26/1993	Settled	7 8	No	No	NA	NA	NA	NA	NA	NA	4
6/18/1993	Settled	4 9	No	No	NA	NA	NA	05/1992	NA	Year-end	10
8/28/1993	Settled	41 1	No	No	NA	NA	NA	05/1992	NA	Date Certain	11
10/5/1993	Settled	24 9	No	Yes	NA	NA	NA	12/1992	NA	Average	11
10/13/1993	Settled	27 0	No	No	NA	NA	NA	06/1993	NA	Average	4
12/23/1993	Fully Ltrqated	14 4	No	No	NA	NA	NA	12/1992	NA	Average	18
12/29/1993	Settled	(42 5)	No	No	NA	NA	NA	12/1993	NA	Year-end	3
5/27/1994	Settled	(38 3)	No	No	NA	NA	NA	NA	NA	NA	1
6/3/1994	Settled	2 2	No	No	NA	NA	NA	NA	NA	NA	6
7/14/1994	Settled	(6 3)	No	No	NA	NA	NA	NA	NA	NA	6
8/2/1994	Settled	7 4	No	No	NA	NA	NA	NA	NA	NA	8
9/6/1994	Settled	(4 0)	No	No	NA	NA	NA	09/1992	NA	Year-end	6
9/20/1994	Settled	19 6	No	No	NA	NA	NA	12/1993	NA	Average	5
10/6/1994	Settled	17 5	No	No	NA	NA	NA	09/1993	NA	Year-end	6
10/12/1994	Settled	0 0	No	No	NA	NA	NA	01/1994	NA	Year-end	3
10/26/1994	Settled	(15 0)	No	No	NA	NA	NA	NA	NA	NA	2
4/18/1995	Settled	13 9	No	Yes	NA	NA	NA	12/1993	NA	Year-end	7
6/30/1995	Settled	5 7	No	No	NA	NA	NA	09/1994	NA	Average	4
7/10/1995	Settled	20 3	No	No	NA	NA	NA	NA	NA	NA	9
7/21/1995	Settled	(30 0)	No	No	NA	NA	NA	NA	NA	NA	1
9/24/1995	Settled	60 0	Yes	No	NA	NA	NA	NA	NA	NA	10
8/30/1995	Settled	(62 0)	No	No	NA	NA	51 22	12/1993	NA	Year-end	13
8/30/1995	Settled	24 9	No	Yes	NA	NA	NA	06/1993	NA	NA	19
11/3/1995	Settled	1 4	No	No	NA	NA	NA	NA	NA	NA	7
11/0/1996	Settled	(76 0)	Yes	No	NA	NA	NA	12/1995	NA	NA	24
5/24/1996	Fully Ltrqated	0 0	No	Yes	NA	NA	NA	06/1994	NA	Average	20
7/3/1996	Settled	(20 0)	Yes	No	NA	NA	NA	NA	NA	NA	1
7/10/1996	Settled	26 8	No	No	NA	NA	NA	06/1997	NA	Average	10
7/18/1996	Settled	3 1	No	No	NA	NA	NA	09/1995	NA	Year-end	5
9/24/1996	Fully Ltrqated	(20 0)	No	No	NA	NA	NA	12/1994	NA	Average	16
11/12/1996	Fully Ltrqated	(16 5)	No	Yes	NA	NA	NA	12/1995	NA	Average	7
11/29/1996	Settled	(18 0)	Yes	No	NA	NA	NA	06/1995	NA	Year-end	12
12/27/1996	Settled	(5 0)	No	No	NA	NA	NA	12/1995	NA	Average	6
1/15/1997	Fully Ltrqated	(10 0)	No	No	NA	NA	NA	01/1995	NA	Year-end	17
1/15/1997	Fully Ltrqated	(65 0)	Yes	No	NA	NA	NA	01/1995	NA	Year-end	17
2/11/1997	Settled	(55 7)	Yes	No	NA	NA	NA	NA	NA	NA	7
6/27/1997	Settled	(23 7)	No	Yes	NA	NA	NA	NA	NA	Average	12
7/16/1997	Settled	13 6	No	No	NA	NA	NA	NA	NA	NA	10
9/24/1997	Fully Ltrqated	(59 0)	No	No	NA	NA	NA	12/1996	NA	Average	3
10/20/1997	Settled	(35 9)	No	No	NA	NA	NA	06/1996	NA	Year-end	15
11/20/1997	Settled	24 0	No	No	NA	NA	NA	06/1997	NA	Average	3
1/7/1998	Settled	(14 2)	No	No	NA	NA	NA	09/1996	NA	Year-end	4
9/10/1998	Fully Ltrqated	(36 6)	No	No	NA	NA	NA	12/1995	NA	Average	27
9/24/1998	Settled	(4 6)	No	No	NA	NA	NA	09/1996	NA	Year-end	19
11/5/1998	Settled	(43 4)	Yes	No	NA	NA	NA	12/1996	NA	Average	21
11/30/1998	Settled	19 0	No	No	NA	NA	NA	06/1998	NA	NA	5
11/30/1998	Settled	(6 0)	No	No	NA	NA	NA	12/1997	NA	Year-end	6
12/17/1998	Settled	(14 2)	Yes	No	NA	NA	NA	12/1999	NA	NA	11
12/18/1998	Settled	(286 0)	Yes	No	NA	NA	NA	NA	NA	NA	6
12/28/1998	Fully Ltrqated	(93 8)	Yes	No	NA	NA	NA	NA	NA	NA	6
2/19/1999	Settled	(6 0)	No	No	NA	NA	NA	12/1996	NA	Year-end	20
4/13/1999	Settled	(15 0)	No	No	NA	NA	NA	NA	NA	NA	2
6/29/1999	Settled	36 0	No	Yes	9 67	NA	NA	06/1998	NA	Year-end	7
8/17/1999	Settled	(2 5)	No	No	NA	NA	NA	NA	NA	NA	9
2/16/2000	Settled	(11 0)	No	No	NA	NA	NA	NA	NA	NA	6
3/22/2000	Settled	0 0	No	No	NA	NA	NA	12/1996	NA	Average	34
6/2/2000	Settled	0 0	No	No	NA	NA	NA	12/1999	NA	Average	12
8/6/2000	Settled	13 1	Yes	No	NA	NA	NA	NA	NA	NA	8
9/25/2000	Settled	13 6	No	No	8 71	NA	NA	12/1998	NA	Average	10
12/21/2001	Settled	0 0	No	No	NA	NA	NA	12/2000	NA	Average	6
1/31/2002	Settled	(16 7)	No	Yes	NA	NA	NA	NA	NA	NA	25
2/21/2002	Settled	(4 3)	No	No	NA	NA	NA	NA	NA	NA	8

2/27/2002	Settled	(205 0)	Yes	No	NA	NA	NA NA	NA NA	11
7/25/2002	Settled	(110 0)	No	No	NA	NA	NA NA	NA NA	12
9/23/2002	Settled	NA	No	No	NA	NA	NA NA	NA NA	20
11/14/2002	Settled	11 0	No	No	NA	NA	NA NA	NA NA	8
1/28/2003	Settled	(35 2)	Yes	No	NA	NA	NA NA	NA NA	3
5/15/2003	Settled	18 4	No	No	NA	NA	NA NA	NA NA	23
4/13/2004	Settled	14 5	No	No	NA	NA	NA NA	NA NA	9
4/13/2004	Settled	3 3	No	No	NA	NA	NA NA	NA NA	9
5/5/2004	Fully Litigated	59 0	No	No	NA	NA	NA 12/2004	NA Average	10
5/20/2004	Settled	7 4	Yes	No	NA	NA	NA 04/2005	NA Average	12
9/2/2004	Settled	13 5	Yes	No	NA	NA	NA NA	NA NA	8
9/30/2004	Fully Litigated	0 0	No	No	NA	NA	NA NA	NA NA	1
10/27/2004	Settled	15 0	No	No	8 39	NA	NA NA	NA NA	10
12/8/2004	Settled	(8 2)	No	No	NA	NA	NA 12/2004	NA NA	23
3/18/2005	Settled	(12 0)	No	No	NA	NA	NA 12/2003	NA NA	10
4/28/2005	Settled	0 0	No	No	NA	NA	NA NA	NA NA	2
5/2/2005	Settled	(6 9)	No	No	NA	NA	NA 12/2003	NA Year-end	18
5/18/2005	Fully Litigated	59 7	No	No	NA	NA	NA 12/2005	NA Average	12
7/22/2005	Settled	5 8	No	No	NA	NA	NA NA	NA NA	6
12/9/2005	Settled	2 2	No	No	NA	NA	NA NA	NA NA	7
12/30/2005	Settled	30 0	No	No	NA	NA	NA NA	NA NA	0
1/25/2006	Fully Litigated	229 7	No	No	NA	NA	NA 12/2006	NA NA	6
2/23/2006	Settled	22 4	No	No	NA	NA	NA NA	NA NA	9
2/23/2006	Settled	3 9	No	No	NA	NA	NA NA	NA NA	9
3/14/2006	Settled	41 0	No	No	NA	NA	NA NA	NA NA	5
3/24/2006	Settled	25 0	Yes	No	NA	NA	NA NA	NA NA	5
5/1/2006	Settled	18 1	No	No	8 10	NA	NA 12/2005	NA NA	6
8/31/2006	Settled	(79 8)	Yes	No	NA	NA	NA 12/2005	NA NA	5
9/5/2006	Settled	(57 9)	No	No	NA	NA	NA 12/2005	NA NA	4
11/30/2006	Settled	117 0	No	No	NA	NA	45 00 12/2006	NA NA	7
12/4/2006	Settled	29 0	No	No	NA	NA	NA NA	NA NA	10
12/14/2006	Settled	4 0	Yes	No	NA	NA	NA NA	NA NA	1
12/21/2006	Settled	49 0	No	No	NA	NA	NA NA	NA NA	6
12/28/2006	Settled	7 9	No	No	NA	NA	NA NA	NA NA	6
5/24/2007	Settled	13 7	No	No	NA	NA	NA 06/2006	NA NA	6
7/3/2007	Settled	5 5	No	No	NA	NA	NA 12/2005	NA Year-end	12
7/27/2007	Settled	23 0	No	Yes	NA	NA	NA 09/2005	NA NA	14
11/20/2007	Settled	28 0	No	No	NA	NA	NA NA	NA NA	8
12/6/2007	Settled	55 0	No	No	NA	NA	NA 12/2007	NA NA	8
2/28/2008	Settled	32 1	No	No	8 10	NA	NA NA	NA NA	8
6/30/2008	Settled	0 0	No	No	NA	NA	NA 12/2006	NA NA	10
7/1/2008	Settled	10 0	No	Yes	NA	NA	NA NA	NA NA	11
10/9/2008	Settled	20 4	No	No	8 08	NA	NA NA	NA NA	8
12/30/2008	Settled	0 0	No	No	NA	NA	NA 12/2009	NA NA	10
1/23/2009	Settled	48 0	No	No	NA	NA	53 41 12/2009	NA NA	10
1/21/2009	Settled	65 0	No	No	NA	NA	NA NA	NA NA	7
1/21/2009	Settled	65 0	No	No	NA	NA	NA NA	NA NA	7
2/5/2009	Settled	(8 9)	No	No	NA	NA	NA NA	NA NA	6
2/5/2009	Settled	(13 2)	No	No	NA	NA	NA NA	NA NA	6
3/11/2009	Settled	30 5	No	Yes	NA	NA	NA 03/2007	NA NA	17
4/16/2009	Settled	4 4	No	No	NA	NA	NA NA	NA NA	6
5/20/2009	Settled	18 0	No	No	NA	NA	NA NA	NA NA	10
5/27/2009	Settled	112 2	No	No	NA	NA	NA NA	NA NA	6
6/2/2009	Settled	57 4	No	Yes	NA	NA	NA 12/2007	NA NA	11
6/10/2009	Settled	95 0	No	No	NA	NA	NA 12/2007	NA Year-end	9
6/10/2009	Settled	15 0	No	No	NA	NA	NA 12/2007	NA Year-end	9
6/10/2009	Settled	48 0	No	No	NA	NA	NA 12/2007	NA Year-end	9
6/24/2009	Settled	59 0	No	No	NA	NA	NA 12/2007	NA Year-end	9
7/14/2009	Settled	14 2	No	Yes	NA	NA	NA NA	NA NA	6
7/24/2009	Settled	48 3	No	No	NA	NA	NA 09/2008	NA Year-end	4
12/10/2009	Settled	5 5	No	No	NA	NA	NA NA	339 27 Year-end	6
12/16/2009	Settled	13 5	No	No	8 08	NA	NA NA	NA NA	10
1/5/2010	Settled	10 9	No	No	8 32	NA	NA NA	NA NA	6
4/16/2010	Settled	25 0	No	No	NA	NA	NA 03/2009	NA NA	7
5/14/2010	Settled	35 5	Yes	No	8 33	NA	NA NA	1,724 57 NA	7
6/23/2010	Settled	2 8	No	No	NA	NA	NA NA	NA NA	7
6/25/2010	Settled	60 0	Yes	No	8 71	NA	NA 12/2008	1,289 61 NA	10
7/7/2010	Settled	22 0	No	Yes	8 26	NA	NA 06/2009	380 53 Average	9
7/30/2010	Settled	98 0	No	No	NA	NA	NA 10/2009	NA Year-end	6
7/30/2010	Settled	74 0	No	No	NA	NA	NA 10/2009	NA Year-end	6
7/30/2010	Settled	17 2	No	Yes	NA	NA	NA 06/2009	NA NA	7
8/18/2010	Settled	46 8	No	No	NA	NA	NA 06/2009	NA Year-end	9
9/21/2010	Settled	21 3	No	No	NA	NA	NA 12/2009	NA NA	6
12/16/2010	Settled	225 0	No	No	NA	NA	NA 12/2010	NA NA	8
12/16/2010	Settled	77 5	No	No	NA	NA	NA 12/2010	NA NA	8
2/24/2011	Settled	45 7	No	No	NA	NA	NA 03/2011	NA NA	7
3/25/2011	Settled	52 5	Yes	Yes	NA	NA	NA 12/2009	NA NA	10
5/15/2011	Settled	403 0	Yes	No	NA	NA	NA 12/2011	14,174 95 Average	16
6/1/2011	Settled	18 7	No	No	NA	NA	NA 06/2009	NA NA	8
7/8/2011	Settled	12 2	No	No	NA	NA	NA 12/2010	NA NA	6
8/2/2011	Settled	2 6	No	Yes	NA	NA	NA NA	NA NA	11
9/30/2011	Settled	2 8	No	No	NA	NA	NA 12/2010	NA NA	2
10/6/2011	Fully Litigated	0 0	No	No	NA	NA	NA 12/2012	NA NA	4
12/16/2011	Settled	20 0	No	No	NA	NA	NA NA	NA NA	7
12/21/2011	Fully Litigated	NA	No	No	NA	NA	NA NA	NA NA	3
12/28/2011	Settled	13 5	No	No	NA	NA	NA NA	NA NA	10
12/30/2011	Settled	34 0	No	No	7 86	NA	NA 12/2011	2,355 91 NA	7
1/5/2012	Fully Litigated	NA	No	No	NA	NA	NA NA	NA NA	10
1/10/2012	Settled	34 0	Yes	No	NA	NA	NA 12/2010	NA NA	7
2/22/2012	Settled	150 0	No	No	NA	NA	NA NA	NA NA	1
3/30/2012	Settled	4 5	No	No	7 74	NA	NA 12/2010	NA NA	9
4/18/2012	Settled	50 0	No	No	NA	NA	NA 03/2011	NA NA	7
5/18/2012	Settled	(15 0)	No	Yes	NA	NA	NA 09/2011	NA NA	3
11/29/2012	Fully Litigated	271 9	Yes	No	NA	NA	NA 12/2012	15 072 22 Average	24
2/27/2013	Settled	27 5	No	No	NA	NA	NA 03/2012	NA NA	7
3/19/2013	Settled	NA	No	No	NA	NA	NA NA	NA NA	7
4/18/2013	Settled	11 6	No	Yes	7 79	NA	NA 12/2011	351 74 Average	9
5/9/2013	Fully Litigated	115 2	Yes	No	NA	NA	NA 12/2012	3,574 12 Average	29
6/6/2013	Settled	50 8	Yes	Yes	NA	NA	NA 06/2012	NA NA	6
7/26/2013	Settled	0 0	No	No	NA	NA	NA 12/2014	NA NA	3
9/3/2013	Settled	15 0	No	No	NA	NA	NA 12/2012	NA NA	5
9/17/2013	Settled	8 8	No	Yes	7 93	NA	NA NA	NA NA	9
10/24/2013	Settled	2 0	No	No	NA	NA	NA NA	NA NA	4
11/22/2013	Fully Litigated	NA	No	No	NA	NA	NA NA	NA NA	4
11/25/2013	Settled	4 7	No	No	NA	NA	NA 12/2012	NA NA	7
2/28/2014	Settled	263 6	Yes	Yes	NA	NA	NA 12/2012	NA NA	9
4/23/2014	Settled	48 0	No	No	NA	NA	NA 04/2015	NA NA	8
7/17/2014	Settled	11 5	No	No	NA	NA	NA 12/2011	1,916 14 Year-end	7
8/14/2014	Fully Litigated	196 0	Yes	No	NA	NA	NA 12/2014	16,822 53 Average	21
9/18/2014	Settled	0 0	No	No	NA	NA	NA NA	NA NA	3
11/25/2014	Settled	7 0	No	No	NA	NA	NA 08/2013	NA NA	9
12/12/2014	Settled	22 0	No	No	NA	NA	NA 09/2014	NA NA	5
12/18/2014	Settled	37 0	No	Yes	NA	NA	NA 06/2013	NA NA	11
2/4/2015	Settled	124 3	No	No	NA	NA	NA 12/2013	NA NA	9
3/2/2015	Settled	6 9	No	Yes	7 76	NA	NA 09/2013	543 93 Average	11
4/9/2015	Settled	105 7	No	No	NA	NA	NA 04/2016	NA NA	8
4/9/2015	Settled	107 8	No	No	NA	NA	NA 04/2016	NA NA	8
4/9/2015	Settled	25 5	No	No	NA	NA	NA 04/2016	NA NA	8
4/9/2015	Settled	95 2	No	No	NA	NA	NA 04/2016	NA NA	8
4/14/2015	Settled	(4 8)	No	Yes	7 63	NA	NA 07/2013	1,908 68 Year-end	15
5/13/2015	Fully Litigated	NA	No	No	NA	NA	NA NA	NA NA	5

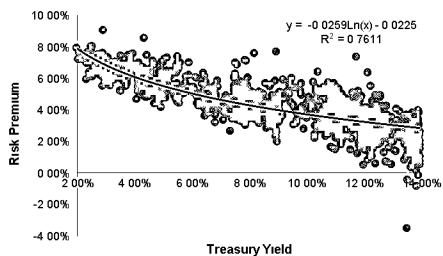
6/15/2015	Settled	15 2	No	Yes	7 22	NA	NA	12/2013	412 44	Average	11
6/22/2015	Settled	(23 0)	No	No	NA	NA	NA	09/2014	NA NA		6
6/24/2015	Settled	17 1	No	No	NA	NA	NA	04/2014	NA NA		9
6/24/2015	Fully Ltrqated	NA	No	No	NA	NA	NA	NA	NA NA		0
6/30/2015	Settled	125 0	No	No	NA	NA	NA	06/2016	NA NA		7
6/30/2015	Settled	0 0	No	No	NA	NA	NA	06/2016	NA NA		7
7/20/2015	NA	NA NA	NA	NA	NA	NA	NA	NA	NA NA		1
9/24/2015	Settled	185 3	No	No	NA	NA	NA	09/2014	NA NA		6
10/29/2015	Settled	40 7	No	Yes	7 24	NA	NA	NA	NA NA		10
11/5/2015	Fully Ltrqated	(450 4)	Yes	No	NA	NA	NA	12/2015	17,375 83	Average	24
11/19/2015	Settled	124 0	No	No	NA	NA	NA	12/2016	NA NA		7
11/23/2015	Fully Ltrqated	0 0	No	No	NA	NA	NA	12/2014	NA NA		7
12/15/2015	NA	NA	No	No	NA	NA	NA	NA	NA NA		2
12/17/2015	Settled	127 0	No	No	NA	NA	NA	12/2016	NA NA		8
2/2/2016	Settled	5 5	No	No	NA	NA	NA	12/2014	NA NA		7
3/25/2016	Settled	7 4	Yes	No	NA	NA	NA	12/2014	NA NA		9
6/23/2016	Settled	3 0	Yes	No	NA	NA	NA	12/2016	4,299 16	Average	19
8/10/2016	Settled	20 4	No	No	NA	NA	NA	06/2015	NA NA		9
8/10/2016	Settled	23 5	No	No	NA	NA	NA	NA	NA NA		9
8/18/2016	Settled	40 7	No	Yes	NA	NA	NA	03/2015	NA NA		12
9/28/2016	Settled	3 0	No	No	NA	NA	NA	NA	NA NA		7
10/26/2016	Fully Ltrqated	24 5	No	No	NA	NA	NA	12/2017	NA NA		6
12/6/2016	Settled	54 4	No	No	NA	NA	NA	12/2017	NA NA		4
12/15/2016	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA NA		10
12/16/2016	Settled	(6 0)	No	No	NA	NA	NA	NA	NA NA		1
12/23/2016	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA NA		30
1/10/2017	NA	NA	No	No	NA	NA	NA	NA	NA NA		3
1/11/2017	Settled	(6 5)	No	No	NA	NA	NA	NA	NA NA		1
1/19/2017	Settled	90 5	No	No	NA	NA	NA	12/2017	NA NA		8
1/19/2017	Settled	94 6	No	No	NA	NA	NA	12/2017	NA NA		8
1/19/2017	Settled	27 5	No	No	NA	NA	NA	12/2017	NA NA		8
1/19/2017	Settled	60 6	No	No	NA	NA	NA	12/2017	NA NA		8
1/26/2017	Settled	35 2	No	No	NA	NA	NA	09/2015	NA Year-end		11
2/24/2017	NA	NA	No	No	NA	NA	NA	NA	NA NA		2
3/8/2017	Settled	92 0	No	No	NA	NA	NA	03/2016	NA NA		8
4/19/2017	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA NA		5
5/11/2017	Settled	91 0	Yes	No	NA	NA	NA	12/2017	19,159 42	Average	20
6/6/2017	Settled	(3 6)	No	No	NA	NA	NA	06/2014	NA NA		6
6/8/2017	Settled	16 4	No	No	NA	NA	NA	09/2014	NA NA		7
8/4/2017	Fully Ltrqated	0 0	No	No	NA	NA	NA	NA	NA NA		31
8/10/2017	Settled	0 0	Yes	No	NA	NA	NA	12/2019	NA NA		4
8/10/2017	Settled	0 0	Yes	No	NA	NA	NA	12/2019	NA NA		4
9/29/2017	Settled	(3 0)	No	Yes	NA	NA	NA	NA	NA NA		17
10/25/2017	Settled	200 0	Yes	No	NA	NA	NA	NA	NA NA		1
12/13/2017	Settled	113 4	No	No	4 84	NA	31 62	12/2018	7,094 57	Average	5
2/9/2018	Settled	13 4	No	No	NA	NA	NA	09/2017	NA NA		7
4/26/2018	Fully Ltrqated	NA	No	No	NA	NA	NA	NA	NA NA		6
5/8/2018	Settled	1 8	No	No	NA	NA	NA	12/2016	NA NA		7
6/19/2018	Settled	(64 0)	No	No	NA	NA	NA	09/2017	NA NA		5
7/25/2018	NA	NA	No	No	NA	NA	NA	12/2018	NA NA		1
10/31/2018	Settled	(21 1)	No	No	NA	NA	NA	06/2017	NA NA		9
10/31/2018	Settled	(24 0)	No	No	NA	NA	NA	06/2017	NA NA		9
12/7/2018	Settled	0 0	No	Yes	NA	NA	NA	06/2017	NA NA		15
12/12/2018	Settled	189 7	No	No	5 26	NA	36 55	12/2019	7,546 59	Average	5
12/20/2018	Settled	92 7	No	No	NA	NA	NA	12/2019	NA NA		8
12/20/2018	Settled	24 9	No	No	NA	NA	NA	12/2019	NA NA		8
12/20/2018	Settled	53 2	No	Yes	NA	NA	NA	12/2017	NA NA		7
12/27/2018	Fully Ltrqated	31 9	No	No	NA	NA	NA	NA	NA NA		3
1/9/2019	Settled	(16 0)	No	No	NA	NA	NA	NA	NA NA		1
2/21/2019	Settled	0 0	No	No	NA	NA	NA	06/2018	NA Year-end		3
3/6/2019	Settled	5 3	No	No	5 27	NA	37 31	03/2020	617 46	Year-end	5
4/23/2019	NA	NA	No	No	NA	NA	NA	NA	NA NA		1
5/16/2019	Fully Ltrqated	(523 0)	Yes	No	7 43	NA	NA	12/2018	22,336 48	Average	32
6/18/2019	Settled	9 3	Yes	Yes	NA	NA	NA	12/2017	NA NA		8
7/30/2019	Settled	0 0	No	No	NA	NA	NA	NA	NA NA		7
9/19/2019	Settled	0 0	No	No	NA	NA	NA	09/2018	NA NA		8
9/26/2019	Fully Ltrqated	35 7	Yes	No	NA	NA	NA	12/2019	5,077 14	Average	24
12/13/2019	Settled	10 1	No	No	5 23	NA	36 49	12/2020	7 960 90	Average	5
12/19/2019	Fully Ltrqated	33 6	No	No	NA	NA	NA	NA	NA NA		3
2/28/2020	Settled	5 2	No	No	5 33	NA	37 92	03/2020	621 22	Average	5
3/17/2020	Settled	(16 7)	No	No	7 57	NA	53 00	12/2020	2,363 90	Year-end	3
3/18/2020	Settled	(32 0)	No	No	NA	NA	NA	12/2018	NA NA		8
4/6/2020	Settled	9 0	No	No	NA	NA	NA	12/2018	NA NA		8
4/7/2020	NA	NA	No	No	NA	NA	NA	NA	NA NA		5
9/23/2020	Fully Ltrqated	46 1	No	No	NA	NA	NA	NA	NA NA		3
9/24/2020	Settled	(5 3)	No	No	NA	NA	NA	NA	NA NA		1
10/21/2020	NA	NA	No	No	NA	NA	NA	NA	NA NA		NA
12/5/2020	Settled	534 0	Yes	No	NA	NA	NA	12/2020	22,218 12	Average	24
12/11/2020	Settled	1 0	No	No	5 04	NA	36 63	NA	8 373 66	Average	5
12/11/2020	NA	NA	No	Yes	NA	NA	NA	NA	NA NA		13
12/30/2020	Fully Ltrqated	29 9	No	No	NA	NA	NA	NA	NA NA		3
1/14/2021	Settled	(8 9)	No	No	NA	NA	NA	NA	NA NA		1
1/14/2021	Settled	(8 3)	No	No	NA	NA	NA	09/2020	NA NA		1
1/14/2021	Settled	391 3	No	No	NA	NA	NA	12/2021	NA Average		3
3/9/2021	Settled	6 7	No	No	5 31	NA	37 92	03/2020	670 55	Average	5

Avg Lag Mo 9
Avg Lag Days 199 865269

11/20/2006	Fully Ltrqated	21 3	No	No	9 80	9 80	45 16	09/2005	NA	Year-end	16
12/13/2007	Fully Ltrqated	27 6	No	No	7 58	9 90	44 28	09/2006	NA	Year-end	5
3/31/2008	Settled	83 1	No	No	7 81	12 12	48 88	03/2009	532 30	Average	8
5/30/2008	Fully Ltrqated	8 9	No	No	8 10	NA	NA	NA	NA NA		2
10/15/2008	Settled	11 7	No	No	7 64	10 10	41 29	12/2007	633 40	Average	4
1/14/2009	Settled	28 9	No	No	7 88	10 60	41 53	12/2008	NA	Year-end	8
5/29/2009	Fully Ltrqated	10 5	No	No	8 19	10 50	49 27	12/2009	NA NA		2
1/22/2010	Settled	9 8	No	No	NA	NA	NA	NA	NA NA		15
3/11/2010	Fully Ltrqated	71 0	No	Yes	7 81	12 30	47 71	03/2011	1,153 29	Average	11
3/11/2010	Fully Ltrqated	64 4	No	Yes	7 81	12 30	47 41	03/2011	418 70	Average	11
6/15/2010	Settled	30 8	No	No	NA	NA	NA	NA	NA NA		4
9/30/2010	Fully Ltrqated	47 3	No	No	8 63	11 00	53 52	06/2010	399 10	Year-end	4
12/21/2010	Settled	33 3	No	No	NA	NA	NA	NA	NA NA		4
12/30/2010	Fully Ltrqated	223 0	No	No	NA	NA	NA	12/2011	NA NA		3
3/22/2011	Fully Ltrqated	44 7	No	No	8 76	12 30	49 37	03/2012	1 405 73	Average	9
3/22/2011	Fully Ltrqated	13 8	No	No	8 76	12 30	49 37	03/2012	449 18	Average	9
9/30/2011	Fully Ltrqated	52 8	No	No	8 85	NA	54 67	06/2011	436 73	Year-end	4
11/30/2011	Fully Ltrqated	30 0	No	No	NA	NA	NA	12/2010	633 65	Average	8
12/28/2011	Fully Ltrqated	35 6	No	No	NA	NA	NA	12/2012	NA NA		1
1/3/2012	Settled	26 1	No	No	NA	11 40	NA	02/2013	NA NA		9
2/2/2012	Fully Ltrqated	34 1	No	No	8 77	11 40	53 25	03/2013	260 92	Average	9
3/16/2012	Fully Ltrqated	6 4	No	No	9 03	12 40	53 25	03/2013	42 84	Average	8
3/20/2012	Fully Ltrqated	(4 3)	No	No	8 48	11 40	53 25	03/2013	395 27	Average	9
3/21/2012	Fully Ltrqated	38 1	Yes	Yes	NA	NA	NA	12/2011	172 66	Average	43
3/23/2012	Fully Ltrqated	46 8	Yes	No	8 49	11 40	53 25	03/2013	1,308 25	Average	9
6/22/2012	Fully Ltrqated	NA	No	No	NA	NA	NA	NA	NA NA		7
6/29/2012	Fully Ltrqated	58 1	No	No	NA	NA	NA	12/2012	335 91	NA	3
9/20/2012	Settled	3 0	No	No	NA	NA	NA	12/2011	15 25	Average	6
9/26/2012	Fully Ltrqated	52 1	No	No	8 75	NA	54 28	06/2012	1,540 36	Year-end	3
12/20/2012	Fully Ltrqated	50 2	No	No	NA	NA	NA	12/2013	NA NA		1
12/20/2012	Fully Ltrqated	0 0	No	No	NA	11 40	NA	NA	NA NA		8

2/19/2013	Fully Ltrqated	4.2	No	No	8.36	11.40	52.81	03/2014	NA	Average	8
2/19/2013	Settled	48.9	No	No	8.36	11.40	52.81	03/2014	NA	NA	8
3/12/2013	Settled	1.7	No	No	8.36	11.40	52.81	03/2014	1,221.89	Average	8
3/22/2013	Settled	5.5	No	No	8.89	12.40	52.81	03/2014	NA	NA	8
8/2/2013	Fully Ltrqated	43.5	No	No	8.36	11.40	52.81	08/2014	351.04	Average	9
9/18/2013	Fully Ltrqated	67.2	No	No	8.56	NA	53.86	06/2013	2,106.05	Year-end	3
10/7/2013	Settled	113.4	No	No	7.28	10.00	45.00	NA	795.85	NA	10
11/25/2013	Settled	37.7	No	No	NA	NA	NA	12/2012	849.04	Average	8
12/17/2013	Settled	13.3	No	No	7.88	11.40	44.28	12/2014	159.08	Average	8
12/23/2013	Fully Ltrqated	58.9	No	No	NA	NA	NA	12/2014	NA	NA	1
2/28/2014	Fully Ltrqated	14.8	No	No	7.95	11.00	50.00	03/2015	NA	NA	9
3/14/2014	Fully Ltrqated	(9.0)	No	No	NA	11.00	50.00	03/2015	NA	NA	9
3/14/2014	Fully Ltrqated	3.3	No	No	NA	12.00	50.00	03/2015	100.37	Average	9
7/8/2014	Fully Ltrqated	41.1	No	No	7.95	11.00	50.00	08/2015	721.91	Average	8
9/24/2014	Fully Ltrqated	66.2	No	No	8.53	NA	53.52	06/2014	2,667.47	Year-end	3
9/25/2014	Fully Ltrqated	116.9	No	No	6.91	9.80	48.00	12/2014	839.42	Average	9
11/12/2014	Fully Ltrqated	4.7	No	No	NA	NA	NA	NA	NA	NA	4
11/25/2014	Fully Ltrqated	0.8	No	No	NA	NA	NA	06/2014	19.44	Year-end	2
12/18/2014	Fully Ltrqated	57.1	No	No	6.09	NA	NA	NA	225.93	NA	11
12/18/2014	Fully Ltrqated	26.6	No	No	NA	NA	NA	12/2015	NA	NA	1
2/18/2015	Settled	36.9	No	No	7.88	11.00	52.03	03/2016	703.58	Average	8
3/12/2015	Settled	(6.4)	No	No	8.40	12.00	52.03	03/2016	102.56	Average	8
3/12/2015	Settled	11.4	No	No	7.88	11.00	52.03	03/2016	373.08	Average	8
3/12/2015	Settled	5.8	No	No	7.88	11.00	52.03	03/2016	1,215.59	Average	8
4/21/2015	Settled	60.5	No	No	7.88	11.00	52.03	08/2016	939.68	Average	5
7/7/2015	Fully Ltrqated	0.0	No	No	NA	NA	NA	NA	NA	NA	29
9/23/2015	Fully Ltrqated	64.5	No	No	8.57	NA	52.98	08/2015	3,214.07	Year-end	3
12/3/2015	Settled	126.1	No	Yes	6.89	9.23	49.73	05/2016	476.45	Average	6
12/22/2015	Fully Ltrqated	19.1	No	No	NA	NA	NA	12/2016	NA	NA	1
12/23/2015	Settled	10.2	No	No	NA	NA	NA	NA	NA	NA	7
1/5/2016	Settled	15.1	No	No	7.95	10.50	50.27	12/2016	NA	NA	2
1/28/2016	NA	0.0	No	No	NA	NA	NA	NA	NA	NA	11
2/29/2016	Fully Ltrqated	21.0	No	No	7.90	11.60	49.99	03/2017	131.70	Average	9
2/29/2016	Fully Ltrqated	(9.3)	No	No	7.40	10.60	49.99	03/2017	355.70	Average	9
2/29/2016	Fully Ltrqated	6.6	No	No	7.40	10.60	49.99	03/2017	1,219.41	Average	9
2/29/2016	Fully Ltrqated	(16.8)	No	No	7.40	10.60	49.99	03/2017	655.75	Average	9
3/29/2016	Fully Ltrqated	40.4	No	No	6.90	9.60	49.99	03/2017	389.09	Average	9
6/30/2016	Fully Ltrqated	(25.7)	No	No	7.40	10.60	49.99	08/2017	825.00	Average	9
6/30/2016	Fully Ltrqated	5.4	No	No	6.90	9.60	49.99	08/2017	51.76	Average	9
6/30/2016	Settled	55.1	No	No	NA	NA	NA	NA	NA	NA	4
8/22/2016	Settled	21.3	No	No	NA	NA	NA	08/2017	NA	NA	8
10/6/2016	Fully Ltrqated	NA	No	No	NA	9.40	NA	NA	NA	NA	6
10/19/2016	Fully Ltrqated	64.4	NA	NA	8.24	NA	51.35	06/2016	3,798.22	Year-end	3
12/9/2016	Settled	25.0	No	No	NA	NA	NA	06/2016	NA	NA	3
12/20/2016	NA	NA	No	No	NA	NA	NA	NA	NA	NA	1
12/30/2016	Settled	3.3	No	No	7.30	10.00	47.22	12/2017	164.01	Average	9
1/25/2017	Settled	1.9	No	No	NA	NA	NA	04/2016	45.54	Year-end	6
2/27/2017	Fully Ltrqated	(2.4)	No	No	7.73	11.40	49.49	03/2018	139.67	Average	9
2/27/2017	Fully Ltrqated	41.4	No	No	6.74	9.40	49.49	03/2018	826.93	Average	9
2/27/2017	Fully Ltrqated	(2.2)	No	No	7.24	10.40	49.49	03/2018	354.98	Average	9
2/27/2017	Fully Ltrqated	(8.5)	No	No	7.24	10.40	49.49	03/2018	1,213.71	Average	9
2/27/2017	Fully Ltrqated	0.5	No	No	7.24	10.40	49.49	03/2018	649.07	Average	9
3/22/2017	Fully Ltrqated	12.5	No	No	NA	NA	NA	06/2016	17.97	Year-end	4
5/11/2017	Settled	4.7	No	No	NA	NA	NA	06/2018	16.30	Average	8
5/31/2017	Settled	13.3	No	No	NA	9.50	NA	NA	NA	NA	7
6/1/2017	Fully Ltrqated	(12.8)	No	No	6.74	9.40	49.49	08/2018	NA	NA	8
6/30/2017	Fully Ltrqated	(18.0)	No	No	7.24	10.40	49.49	08/2018	745.49	Average	9
6/30/2017	Fully Ltrqated	4.2	No	No	6.74	9.40	49.49	08/2018	77.75	Average	9
7/17/2017	Fully Ltrqated	0.0	No	No	NA	NA	NA	NA	NA	NA	8
9/1/2017	Fully Ltrqated	1.0	No	No	6.81	9.40	50.23	08/2018	82.90	Average	9
10/17/2017	Fully Ltrqated	9.6	No	No	NA	NA	NA	12/2016	62.69	NA	5
10/31/2017	Fully Ltrqated	14.6	No	No	NA	NA	NA	04/2017	NA	NA	4
12/20/2017	Fully Ltrqated	1.6	No	No	NA	NA	NA	04/2017	7.16	Year-end	4
2/6/2018	Settled	NA	No	No	6.62	8.58	50.45	12/2018	613.00	Average	7
2/9/2018	Fully Ltrqated	(6.0)	No	No	7.21	10.20	50.23	03/2019	348.72	Average	8
2/14/2018	Fully Ltrqated	(11.5)	No	No	7.21	10.20	50.23	03/2019	612.63	Average	8
2/20/2018	Fully Ltrqated	(24.6)	No	No	7.21	10.20	50.23	03/2019	1,168.91	Average	8
2/21/2018	Fully Ltrqated	0.2	No	No	6.71	9.20	50.23	03/2019	926.51	Average	8
2/27/2018	Fully Ltrqated	14.9	No	No	7.20	11.20	50.23	03/2019	145.74	Average	9
3/20/2018	Fully Ltrqated	(50.0)	No	No	NA	NA	NA	12/2018	NA	NA	4
4/2/2018	Fully Ltrqated	NA	No	No	NA	NA	NA	NA	NA	NA	9
5/10/2018	Fully Ltrqated	2.8	No	No	6.71	9.20	50.23	06/2019	NA	NA	7
5/16/2018	Fully Ltrqated	1.0	No	No	NA	NA	NA	06/2019	NA	NA	7
5/23/2018	Fully Ltrqated	1.9	No	No	NA	NA	NA	10/2017	31.61	Year-end	3
5/30/2018	Fully Ltrqated	12.6	No	No	NA	NA	NA	11/2017	250.43	Year-end	4
7/3/2018	Fully Ltrqated	(11.1)	No	No	7.21	10.20	50.23	08/2019	699.95	Average	9
7/3/2018	Fully Ltrqated	3.3	No	No	6.71	9.20	50.23	08/2019	70.43	Average	9
7/19/2018	Settled	200.5	Yes	No	NA	NA	NA	NA	NA	NA	3
8/31/2018	Settled	91.6	No	No	NA	NA	NA	12/2017	NA	NA	5
10/9/2018	Fully Ltrqated	14.5	No	No	NA	NA	NA	12/2017	213.31	NA	4
11/28/2018	Settled	14.8	No	No	NA	NA	NA	05/2018	319.93	Year-end	4
12/5/2018	Fully Ltrqated	3.9	No	No	NA	NA	NA	04/2018	59.20	Year-end	4
12/19/2018	Fully Ltrqated	47.3	No	No	6.86	9.20	51.37	01/2020	288.74	Average	9
12/2019	Settled	7.2	No	No	7.76	10.40	NA	02/2020	181.89	Average	9
12/2019	Settled	(100.9)	No	No	NA	NA	NA	06/2018	NA	NA	4
2/27/2019	Fully Ltrqated	(4.0)	No	No	6.87	9.20	51.37	03/2020	148.78	NA	9
2/27/2019	Fully Ltrqated	38.4	No	No	6.87	9.20	51.37	03/2020	962.35	Average	9
2/27/2019	Fully Ltrqated	(8.6)	No	No	7.38	10.20	51.37	03/2020	327.36	Average	9
2/27/2019	Fully Ltrqated	(3.5)	No	No	7.38	10.20	51.37	03/2020	1,134.87	Average	9
2/27/2019	Fully Ltrqated	(4.3)	No	No	7.38	10.20	51.37	03/2020	633.60	Average	9
4/2/2019	Settled	29.2	No	No	NA	10.50	NA	NA	NA	NA	8
4/15/2019	Fully Ltrqated	10.4	No	No	6.87	9.20	51.37	02/2020	102.06	Average	8
5/2/2019	Fully Ltrqated	(0.0)	No	No	NA	9.42	NA	06/2020	NA	NA	7
5/2/2019	Fully Ltrqated	17.9	No	No	6.87	9.20	51.37	06/2020	NA	NA	7
5/29/2019	Fully Ltrqated	4.1	No	No	NA	NA	NA	10/2018	93.57	Year-end	3
6/12/2019	Fully Ltrqated	16.7	No	No	NA	NA	NA	11/2018	375.16	Year-end	4
7/3/2019	Fully Ltrqated	3.1	No	No	7.39	10.20	51.37	08/2020	656.56	Average	9
7/3/2019	Fully Ltrqated	1.8	No	No	6.87	9.20	51.37	08/2020	68.66	Average	9
8/5/2019	Fully Ltrqated	104.3	No	No	6.81	9.20	51.17	10/2020	NA	NA	7
10/8/2019	Fully Ltrqated	23.5	No	No	NA	NA	NA	12/2018	393.50	Year-end	5
11/1/2019	Fully Ltrqated	(18.0)	No	No	6.83	9.20	51.17	01/2021	372.77	Average	7
11/27/2019	Fully Ltrqated	7.2	No	No	NA	NA	NA	04/2019	118.54	Year-end	3
12/18/2019	Fully Ltrqated	44.8	No	No	NA	NA	NA	06/2019	500.86	Year-end	3
12/20/2019	Settled	0.0	No	No	NA	NA	NA	06/2019	NA	NA	4
2/3/2020	Fully Ltrqated	(6.3)	No	No	6.84	9.20	51.17	03/2021	141.77	Average	8
2/3/2020	Fully Ltrqated	11.4	No	No	6.84	9.20	51.17	03/2021	891.19	Average	8
2/3/2020	Fully Ltrqated	(20.3)	No	No	7.35	10.20	51.17	03/2021	1,104.57	Average	8
2/3/2020	Fully Ltrqated	0.7	No	No	7.35	10.20	51.17	03/2021	612.24	Average	8
2/18/2020	Fully Ltrqated	(13.0)	No	No	7.35	10.20	51.17	03/2021	315.69	Average	8
2/25/2020	Fully Ltrqated	(6.3)	No	No	7.74	10.42	50.78	04/2021	174.43	Average	9
3/20/2020	Fully Ltrqated	18.0	No	No	6.84	9.20	51.17	05/2021	297.66	Average	8
4/13/2020	Fully Ltrqated	7.4	No	No	6.84	9.20	51.17	05/2021	66.35	Average	8
5/20/2020	Fully Ltrqated	7.4	No	No	NA	NA	NA	10/2019	152.32	Year-end	3
5/21/2020	Fully Ltrqated	6.0	No	No	NA	9.42	NA	06/2021	9.44	Year-end	7
6/23/2020	Settled	(20.1)	No	No	7.35	10.20	51.17	08/2021	691.16	Average	8
6/28/2020	Settled	50.1	No	No	NA	NA	NA	12/2019	NA	NA	3
7/1/2020	Fully Ltrqated	(5.2)	No	No	6.84	9.20	51.17	08/2021	62.80	Average	9
7/30/2020	Fully Ltrqated	10.6	No	No	6.84	9.20	51.17	08/2021	68.31	Average	7
9/4/2020	Fully Ltrqated	(19.4									

12/16/2020	Settled	(50.1)	No	No	NA	NA	NA	06/2020	NA	NA	3
1/27/2021	Fully Litigated	12.5	No	No	NA	NA	NA	07/2020	160.95	Year-end	4
2/24/2021	Fully Litigated	(7.8)	No	No	6.88	9.20	52.07	03/2022	118.75	Average	8
2/24/2021	Fully Litigated	16.5	No	No	6.88	9.20	52.07	03/2022	874.30	Average	8
2/24/2021	Fully Litigated	13.0	NA	NA	6.95	9.34	52.07	03/2022	304.98	Average	8
2/24/2021	Fully Litigated	(0.1)	No	No	7.40	10.20	52.07	03/2022	107.08	Average	8
2/24/2021	Fully Litigated	14.2	No	No	7.40	10.20	52.07	03/2022	599.41	Average	8
2/26/2021	Settled	28.2	No	No	6.88	9.20	52.07	03/2022	500.27	Average	9
3/31/2021	Fully Litigated	9.6	No	No	6.88	9.20	52.07	05/2022	288.33	Average	9
3/31/2021	Fully Litigated	2.9	No	No	6.88	9.20	52.07	05/2021	106.67	Average	9



SUMMARY OUTPUT

Regression Statistics	
Multiple R	0.8724375
R Square	0.7611472
Adjusted R Square	0.7610029
Standard Error	0.0083312
Observations	1658

ANOVA					
	df	SS	MS	F	Significance F
Regression	1	0.3662845	0.3662845	5277.1394	0
Residual	1656	0.1149424	6.941E-05		
Total	1657	0.481227			

	Coefficients	Standard Err	t Stat	P-value	Lower 95%	Upper 95%	Lower 95.0%	Upper 95.0%
Intercept	-0.02252	0.0009899	-22.7507	6.33E-100	-0.024462	-0.020579	-0.024462	-0.020579
LN (30-Yr Treasury	-0.02589	0.0003564	-72.64392	0	-0.026589	-0.025191	-0.026589	-0.025191

Source Bloomberg Professional Service

USGG30YR Index	PX_LAST	Yield %	Lagged Yield	Start Date	1/1/1979	End Date	3/31/2021
3/31/2021	2 4106	2 41%	1 68%	1/2/1979	8 99%		
3/30/2021	2 3687	2 37%	1 67%	1/3/1979	8 98%		
3/29/2021	2 405	2 41%	1 67%	1/4/1979	8 96%		
3/26/2021	2 3781	2 38%	1 66%	1/5/1979	8 96%		
3/25/2021	2 3568	2 36%	1 66%	1/8/1979	8 96%		
3/24/2021	2 3095	2 31%	1 65%	1/9/1979	8 97%		
3/23/2021	2 3264	2 33%	1 65%	1/10/1979	8 97%		
3/22/2021	2 3984	2 40%	1 64%	1/11/1979	8 97%		
3/19/2021	2 4333	2 43%	1 64%	1/12/1979	8 97%		
3/18/2021	2 4483	2 45%	1 63%	1/15/1979	8 97%		
3/17/2021	2 418	2 42%	1 63%	1/16/1979	8 97%		
3/16/2021	2 3785	2 38%	1 62%	1/17/1979	8 97%		
3/15/2021	2 3573	2 36%	1 62%	1/18/1979	8 98%		
3/12/2021	2 3776	2 38%	1 62%	1/19/1979	8 98%		
3/11/2021	2 2945	2 29%	1 61%	1/22/1979	8 97%		
3/10/2021	2 2381	2 24%	1 61%	1/23/1979	8 97%		
3/9/2021	2 2335	2 23%	1 61%	1/24/1979	8 97%		
3/8/2021	2 3159	2 32%	1 60%	1/25/1979	8 96%		
3/5/2021	2 2974	2 30%	1 60%	1/26/1979	8 95%		
3/4/2021	2 3205	2 32%	1 59%	1/29/1979	8 95%		
3/3/2021	2 2759	2 28%	1 59%	1/30/1979	8 94%		
3/2/2021	2 1913	2 19%	1 59%	1/31/1979	8 94%		
3/1/2021	2 1906	2 19%	1 58%	2/1/1979	8 93%		
2/26/2021	2 1513	2 15%	1 58%	2/2/1979	8 93%		
2/25/2021	2 2734	2 27%	1 57%	2/5/1979	8 93%		
2/24/2021	2 2325	2 23%	1 57%	2/6/1979	8 93%		
2/23/2021	2 18	2 18%	1 57%	2/7/1979	8 93%		
2/22/2021	2 1733	2 17%	1 56%	2/8/1979	8 93%		
2/19/2021	2 1335	2 13%	1 56%	2/9/1979	8 94%		
2/18/2021	2 0817	2 08%	1 55%	2/13/1979	8 94%		
2/17/2021	2 0371	2 04%	1 55%	2/14/1979	8 94%		
2/16/2021	2 0918	2 09%	1 55%	2/15/1979	8 94%		
2/15/2021	2 0086	2 01%	1 54%	2/16/1979	8 94%		
2/12/2021	2 0086	2 01%	1 54%	2/20/1979	8 95%		
2/11/2021	1 95	1 95%	1 54%	2/21/1979	8 95%		
2/10/2021	1 9074	1 91%	1 53%	2/22/1979	8 95%		
2/9/2021	1 9478	1 95%	1 53%	2/23/1979	8 96%		
2/8/2021	1 9529	1 95%	1 53%	2/26/1979	8 96%		
2/5/2021	1 9711	1 97%	1 53%	2/27/1979	8 96%		
2/4/2021	1 9383	1 94%	1 52%	2/28/1979	8 97%		
2/3/2021	1 9252	1 93%	1 52%	3/1/1979	8 97%		
2/2/2021	1 8694	1 87%	1 51%	3/2/1979	8 97%		
2/1/2021	1 8538	1 85%	1 51%	3/5/1979	8 97%		
1/29/2021	1 8291	1 83%	1 51%	3/6/1979	8 98%		
1/28/2021	1 8046	1 80%	1 51%	3/7/1979	8 98%		
1/27/2021	1 774	1 77%	1 50%	3/8/1979	8 98%		
1/26/2021	1 7906	1 79%	1 50%	3/9/1979	8 98%		
1/25/2021	1 792	1 79%	1 50%	3/12/1979	8 98%		
1/22/2021	1 8466	1 85%	1 49%	3/13/1979	8 98%		
1/21/2021	1 8692	1 87%	1 49%	3/14/1979	8 98%		
1/20/2021	1 8296	1 83%	1 49%	3/15/1979	8 98%		
1/19/2021	1 8338	1 83%	1 48%	3/16/1979	8 98%		
1/18/2021	1 8331	1 83%	1 48%	3/19/1979	8 98%		
1/15/2021	1 8331	1 83%	1 48%	3/20/1979	8 99%		
1/14/2021	1 8719	1 87%	1 48%	3/21/1979	8 99%		
1/13/2021	1 8155	1 82%	1 47%	3/22/1979	8 99%		
1/12/2021	1 8719	1 87%	1 47%	3/23/1979	8 99%		
1/11/2021	1 8832	1 88%	1 47%	3/26/1979	8 99%		
1/8/2021	1 8733	1 87%	1 47%	3/27/1979	8 99%		
1/7/2021	1 8527	1 85%	1 46%	3/28/1979	8 99%		
1/6/2021	1 814	1 81%	1 46%	3/29/1979	8 99%		
1/5/2021	1 7081	1 71%	1 46%	3/30/1979	8 99%		
1/4/2021	1 6556	1 66%	1 45%	4/2/1979	8 99%		
1/1/2021	1 6449	1 64%	1 45%	4/3/1979	8 99%		
12/31/2020	1 6449	1 64%	1 45%	4/4/1979	8 99%		
12/30/2020	1 6556	1 66%	1 45%	4/5/1979	8 99%		
12/29/2020	1 675	1 68%	1 45%	4/6/1979	8 99%		
12/28/2020	1 6589	1 66%	1 45%	4/9/1979	8 99%		
12/25/2020	1 6602	1 66%	1 45%	4/10/1979	8 99%		
12/24/2020	1 6602	1 66%	1 44%	4/11/1979	8 99%		
12/23/2020	1 681	1 68%	1 44%	4/12/1979	8 99%		
12/22/2020	1 6482	1 65%	1 44%	4/16/1979	9 00%		
12/21/2020	1 673	1 67%	1 44%	4/17/1979	9 00%		

USGG30YR Index	#NAME?
Dates	PX_LAST
1/2/1979	8 99
1/3/1979	8 96
1/4/1979	8 94
1/5/1979	8 95
1/8/1979	8 98
1/9/1979	8 99
1/10/1979	8 99
1/11/1979	8 98
1/12/1979	8 97
1/15/1979	8 97
1/16/1979	8 98
1/17/1979	8 99
1/18/1979	8 99
1/19/1979	8 97
1/22/1979	8 94
1/23/1979	8 93
1/24/1979	8 91
1/25/1979	8 84
1/26/1979	8 82
1/29/1979	8 85
1/30/1979	8 85
1/31/1979	8 85
2/1/1979	8 85
2/2/1979	8 84
2/5/1979	8 88
2/6/1979	8 92
2/7/1979	9
2/8/1979	9
2/9/1979	9 02
2/13/1979	9
2/14/1979	9
2/15/1979	9 01
2/16/1979	9 01
2/20/1979	9 02
2/21/1979	9 04
2/22/1979	9 08
2/23/1979	9 1
2/26/1979	9 08
2/27/1979	9 08
2/28/1979	9 08
3/1/1979	9 09
3/2/1979	9 09
3/5/1979	9 02
3/6/1979	9 06
3/7/1979	9 02
3/8/1979	9 01
3/9/1979	9 04
3/12/1979	9 02
3/13/1979	9 02
3/14/1979	9 04
3/15/1979	9 05
3/16/1979	9 03
3/19/1979	9 03
3/20/1979	9 04
3/21/1979	9 03
3/22/1979	9 03
3/23/1979	9 02
3/26/1979	9 03
3/27/1979	9 01
3/28/1979	8 99
3/29/1979	8 99
3/30/1979	9 02
4/2/1979	9 02
4/3/1979	9 01
4/4/1979	8 99
4/5/1979	8 99
4/6/1979	9 02
4/9/1979	9 02
4/10/1979	9 01
4/11/1979	9
4/12/1979	8 99
4/16/1979	9 01
4/17/1979	9 04

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
12/18/2020	1 6918	1 69%	1 44%	4/18/1979	9 00%	4/10/1979	9 07
12/17/2020	1 6803	1 68%	1 44%	4/19/1979	9 00%	4/11/1979	9 08
12/16/2020	1 6555	1 66%	1 44%	4/20/1979	9 00%	4/12/1979	9 09
12/15/2020	1 6502	1 65%	1 44%	4/23/1979	9 00%	4/16/1979	9 09
12/14/2020	1 629	1 63%	1 44%	4/24/1979	9 00%	4/17/1979	9 07
12/11/2020	1 627	1 63%	1 44%	4/25/1979	9 01%	4/18/1979	9 06
12/10/2020	1 627	1 63%	1 43%	4/26/1979	9 01%	4/19/1979	9 06
12/9/2020	1 6843	1 68%	1 43%	4/27/1979	9 01%	4/20/1979	9 11
12/8/2020	1 6622	1 66%	1 43%	4/30/1979	9 01%	4/23/1979	9 13
12/7/2020	1 6796	1 68%	1 43%	5/1/1979	9 01%	4/24/1979	9 14
12/4/2020	1 7344	1 73%	1 43%	5/2/1979	9 02%	4/25/1979	9 13
12/3/2020	1 6529	1 65%	1 43%	5/3/1979	9 02%	4/26/1979	9 18
12/2/2020	1 6856	1 69%	1 43%	5/4/1979	9 02%	4/27/1979	9 19
12/1/2020	1 6682	1 67%	1 43%	5/7/1979	9 03%	4/30/1979	9 22
11/30/2020	1 5673	1 57%	1 43%	5/8/1979	9 03%	5/1/1979	9 21
11/27/2020	1 5699	1 57%	1 43%	5/9/1979	9 03%	5/2/1979	9 22
11/26/2020	1 6237	1 62%	1 44%	5/10/1979	9 03%	5/3/1979	9 27
11/25/2020	1 6237	1 62%	1 44%	5/11/1979	9 04%	5/4/1979	9 29
11/24/2020	1 6052	1 61%	1 44%	5/14/1979	9 04%	5/7/1979	9 28
11/23/2020	1 5531	1 55%	1 44%	5/15/1979	9 04%	5/8/1979	9 28
11/20/2020	1 5196	1 52%	1 44%	5/16/1979	9 04%	5/9/1979	9 26
11/19/2020	1 5453	1 55%	1 45%	5/17/1979	9 04%	5/10/1979	9 27
11/18/2020	1 6	1 60%	1 45%	5/18/1979	9 05%	5/11/1979	9 26
11/17/2020	1 6059	1 61%	1 45%	5/21/1979	9 05%	5/14/1979	9 22
11/16/2020	1 6628	1 66%	1 45%	5/22/1979	9 05%	5/15/1979	9 24
11/13/2020	1 6469	1 65%	1 46%	5/23/1979	9 05%	5/16/1979	9 22
11/12/2020	1 6385	1 64%	1 46%	5/24/1979	9 05%	5/17/1979	9 2
11/11/2020	1 7415	1 74%	1 46%	5/25/1979	9 05%	5/18/1979	9 18
11/10/2020	1 7415	1 74%	1 46%	5/29/1979	9 05%	5/21/1979	9 2
11/9/2020	1 7089	1 71%	1 46%	5/31/1979	9 05%	5/22/1979	9 16
11/6/2020	1 6	1 60%	1 46%	6/1/1979	9 05%	5/23/1979	9 09
11/5/2020	1 5236	1 52%	1 47%	6/4/1979	9 05%	5/24/1979	9 07
11/4/2020	1 541	1 54%	1 47%	6/5/1979	9 05%	5/25/1979	9 03
11/3/2020	1 68	1 68%	1 47%	6/6/1979	9 05%	5/29/1979	9 03
11/2/2020	1 6163	1 62%	1 47%	6/7/1979	9 05%	5/31/1979	9 08
10/30/2020	1 6598	1 66%	1 48%	6/8/1979	9 05%	6/1/1979	9 07
10/29/2020	1 6019	1 60%	1 48%	6/11/1979	9 05%	6/4/1979	9 07
10/28/2020	1 5537	1 55%	1 48%	6/12/1979	9 04%	6/5/1979	9 04
10/27/2020	1 553	1 55%	1 48%	6/13/1979	9 04%	6/6/1979	9
10/26/2020	1 5909	1 59%	1 49%	6/14/1979	9 04%	6/7/1979	8 9
10/23/2020	1 641	1 64%	1 49%	6/15/1979	9 04%	6/8/1979	8 91
10/22/2020	1 6756	1 68%	1 49%	6/18/1979	9 04%	6/11/1979	8 94
10/21/2020	1 6354	1 64%	1 50%	6/19/1979	9 04%	6/12/1979	8 84
10/20/2020	1 5915	1 59%	1 50%	6/20/1979	9 04%	6/13/1979	8 87
10/19/2020	1 5597	1 56%	1 50%	6/21/1979	9 04%	6/14/1979	8 89
10/16/2020	1 5287	1 53%	1 51%	6/22/1979	9 04%	6/15/1979	8 94
10/15/2020	1 5134	1 51%	1 51%	6/25/1979	9 03%	6/18/1979	8 93
10/14/2020	1 5054	1 51%	1 51%	6/26/1979	9 03%	6/19/1979	8 94
10/13/2020	1 5107	1 51%	1 52%	6/27/1979	9 03%	6/20/1979	8 92
10/12/2020	1 5717	1 57%	1 52%	6/28/1979	9 03%	6/21/1979	8 92
10/9/2020	1 5717	1 57%	1 53%	6/29/1979	9 03%	6/22/1979	8 95
10/8/2020	1 5866	1 59%	1 53%	7/2/1979	9 03%	6/25/1979	8 92
10/7/2020	1 5859	1 59%	1 53%	7/3/1979	9 02%	6/26/1979	8 84
10/6/2020	1 5366	1 54%	1 54%	7/5/1979	9 02%	6/27/1979	8 83
10/5/2020	1 5892	1 59%	1 54%	7/6/1979	9 02%	6/28/1979	8 84
10/2/2020	1 4868	1 49%	1 55%	7/9/1979	9 02%	6/29/1979	8 83
10/1/2020	1 4552	1 46%	1 55%	7/10/1979	9 02%	7/2/1979	8 8
9/30/2020	1 4552	1 46%	1 55%	7/11/1979	9 02%	7/3/1979	8 81
9/29/2020	1 4149	1 41%	1 56%	7/12/1979	9 02%	7/5/1979	8 82
9/28/2020	1 4149	1 41%	1 56%	7/13/1979	9 02%	7/6/1979	8 83
9/25/2020	1 4007	1 40%	1 57%	7/16/1979	9 02%	7/9/1979	8 86
9/24/2020	1 4077	1 41%	1 57%	7/17/1979	9 02%	7/10/1979	8 89
9/23/2020	1 4168	1 42%	1 58%	7/18/1979	9 02%	7/11/1979	8 93
9/22/2020	1 4233	1 42%	1 58%	7/19/1979	9 02%	7/12/1979	8 91
9/21/2020	1 4148	1 41%	1 59%	7/20/1979	9 02%	7/13/1979	8 91
9/18/2020	1 4532	1 45%	1 59%	7/23/1979	9 01%	7/16/1979	8 95
9/17/2020	1 4388	1 44%	1 60%	7/24/1979	9 01%	7/17/1979	8 97
9/16/2020	1 459	1 46%	1 60%	7/25/1979	9 01%	7/18/1979	8 99
9/15/2020	1 431	1 43%	1 60%	7/26/1979	9 01%	7/19/1979	8 99
9/14/2020	1 4116	1 41%	1 61%	7/27/1979	9 01%	7/20/1979	8 95
9/11/2020	1 4116	1 41%	1 61%	7/30/1979	9 01%	7/23/1979	8 99
9/10/2020	1 4187	1 42%	1 62%	7/31/1979	9 01%	7/24/1979	9 01
9/9/2020	1 457	1 46%	1 62%	8/1/1979	9 01%	7/25/1979	8 97
9/8/2020	1 4213	1 42%	1 62%	8/2/1979	9 01%	7/26/1979	8 98
9/7/2020	1 4714	1 47%	1 63%	8/3/1979	9 01%	7/27/1979	9 01

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
9/4/2020	1 4714	1 47%	1 63%	8/6/1979	9 01%	7/30/1979	9 01
9/3/2020	1 3616	1 36%	1 64%	8/7/1979	9 01%	7/31/1979	8 99
9/2/2020	1 3788	1 38%	1 64%	8/8/1979	9 01%	8/1/1979	8 97
9/1/2020	1 42	1 42%	1 64%	8/9/1979	9 01%	8/2/1979	8 92
8/31/2020	1 4747	1 47%	1 65%	8/10/1979	9 01%	8/3/1979	8 94
8/28/2020	1 501	1 50%	1 65%	8/13/1979	9 01%	8/6/1979	8 92
8/27/2020	1 5096	1 51%	1 66%	8/14/1979	9 01%	8/7/1979	8 9
8/26/2020	1 4135	1 41%	1 66%	8/15/1979	9 01%	8/8/1979	8 91
8/25/2020	1 3935	1 39%	1 66%	8/16/1979	9 01%	8/9/1979	8 95
8/24/2020	1 3559	1 36%	1 67%	8/17/1979	9 01%	8/10/1979	8 97
8/21/2020	1 3407	1 34%	1 67%	8/20/1979	9 01%	8/13/1979	8 97
8/20/2020	1 3833	1 38%	1 68%	8/21/1979	9 01%	8/14/1979	8 95
8/19/2020	1 4238	1 42%	1 68%	8/22/1979	9 01%	8/15/1979	8 96
8/18/2020	1 3955	1 40%	1 69%	8/23/1979	9 01%	8/16/1979	8 95
8/17/2020	1 4341	1 43%	1 69%	8/24/1979	9 01%	8/17/1979	8 95
8/14/2020	1 4471	1 45%	1 70%	8/27/1979	9 01%	8/20/1979	8 96
8/13/2020	1 4277	1 43%	1 70%	8/28/1979	9 01%	8/21/1979	8 99
8/12/2020	1 3738	1 37%	1 71%	8/29/1979	9 01%	8/22/1979	8 99
8/11/2020	1 329	1 33%	1 71%	8/30/1979	9 01%	8/23/1979	9
8/10/2020	1 2538	1 25%	1 72%	8/31/1979	9 01%	8/24/1979	9 05
8/7/2020	1 2336	1 23%	1 72%	9/4/1979	9 01%	8/27/1979	9 03
8/6/2020	1 1981	1 20%	1 73%	9/5/1979	9 01%	8/28/1979	9 03
8/5/2020	1 2217	1 22%	1 73%	9/6/1979	9 01%	8/29/1979	9 02
8/4/2020	1 1857	1 19%	1 74%	9/7/1979	9 01%	8/30/1979	9 07
8/3/2020	1 2318	1 23%	1 74%	9/10/1979	9 01%	8/31/1979	9 09
7/31/2020	1 1925	1 19%	1 75%	9/11/1979	9 01%	9/4/1979	9 14
7/30/2020	1 2068	1 21%	1 75%	9/12/1979	9 02%	9/5/1979	9 15
7/29/2020	1 2362	1 24%	1 76%	9/13/1979	9 02%	9/6/1979	9 16
7/28/2020	1 2168	1 22%	1 76%	9/14/1979	9 02%	9/7/1979	9 18
7/27/2020	1 2601	1 26%	1 77%	9/17/1979	9 02%	9/10/1979	9 19
7/24/2020	1 2293	1 23%	1 77%	9/18/1979	9 02%	9/11/1979	9 13
7/23/2020	1 2311	1 23%	1 78%	9/19/1979	9 02%	9/12/1979	9 15
7/22/2020	1 293	1 29%	1 78%	9/20/1979	9 02%	9/13/1979	9 17
7/21/2020	1 309	1 31%	1 79%	9/21/1979	9 02%	9/14/1979	9 13
7/20/2020	1 3116	1 31%	1 79%	9/24/1979	9 02%	9/17/1979	9 19
7/17/2020	1 3289	1 33%	1 80%	9/25/1979	9 02%	9/18/1979	9 19
7/16/2020	1 3083	1 31%	1 80%	9/26/1979	9 02%	9/19/1979	9 16
7/15/2020	1 3321	1 33%	1 81%	9/27/1979	9 02%	9/20/1979	9 13
7/14/2020	1 3109	1 31%	1 81%	9/28/1979	9 03%	9/21/1979	9 11
7/13/2020	1 3077	1 31%	1 81%	10/1/1979	9 03%	9/24/1979	9 17
7/10/2020	1 3359	1 34%	1 82%	10/2/1979	9 03%	9/25/1979	9 16
7/9/2020	1 3134	1 31%	1 82%	10/3/1979	9 03%	9/26/1979	9 2
7/8/2020	1 3996	1 40%	1 82%	10/4/1979	9 03%	9/27/1979	9 25
7/7/2020	1 3748	1 37%	1 83%	10/5/1979	9 03%	9/28/1979	9 25
7/6/2020	1 4392	1 44%	1 83%	10/9/1979	9 04%	10/1/1979	9 32
7/3/2020	1 4272	1 43%	1 84%	10/10/1979	9 04%	10/2/1979	9 28
7/2/2020	1 4272	1 43%	1 84%	10/11/1979	9 04%	10/3/1979	9 3
7/1/2020	1 4232	1 42%	1 84%	10/12/1979	9 05%	10/4/1979	9 34
6/30/2020	1 4107	1 41%	1 85%	10/15/1979	9 05%	10/5/1979	9 36
6/29/2020	1 3734	1 37%	1 85%	10/16/1979	9 05%	10/9/1979	9 61
6/26/2020	1 3701	1 37%	1 85%	10/17/1979	9 06%	10/10/1979	9 69
6/25/2020	1 4344	1 43%	1 86%	10/18/1979	9 06%	10/11/1979	9 77
6/24/2020	1 4291	1 43%	1 86%	10/19/1979	9 07%	10/12/1979	9 76
6/23/2020	1 4917	1 49%	1 86%	10/22/1979	9 08%	10/15/1979	9 84
6/22/2020	1 4642	1 46%	1 87%	10/23/1979	9 08%	10/16/1979	9 82
6/19/2020	1 4582	1 46%	1 87%	10/24/1979	9 09%	10/17/1979	9 75
6/18/2020	1 4816	1 48%	1 88%	10/25/1979	9 09%	10/18/1979	9 91
6/17/2020	1 5295	1 53%	1 88%	10/26/1979	9 10%	10/19/1979	10 07
6/16/2020	1 5431	1 54%	1 89%	10/29/1979	9 11%	10/22/1979	10 29
6/15/2020	1 4608	1 46%	1 89%	10/30/1979	9 11%	10/23/1979	10 33
6/12/2020	1 4568	1 46%	1 89%	10/31/1979	9 12%	10/24/1979	10 2
6/11/2020	1 4019	1 40%	1 90%	11/1/1979	9 13%	10/25/1979	10 31
6/10/2020	1 5063	1 51%	1 90%	11/2/1979	9 13%	10/26/1979	10 12
6/9/2020	1 5758	1 58%	1 90%	11/5/1979	9 14%	10/29/1979	10 22
6/8/2020	1 6417	1 64%	1 90%	11/7/1979	9 15%	10/30/1979	10 17
6/5/2020	1 6656	1 67%	1 91%	11/8/1979	9 16%	10/31/1979	10 19
6/4/2020	1 6318	1 63%	1 91%	11/9/1979	9 16%	11/1/1979	10 3
6/3/2020	1 5305	1 53%	1 91%	11/13/1979	9 17%	11/2/1979	10 44
6/2/2020	1 4873	1 49%	1 91%	11/14/1979	9 18%	11/5/1979	10 42
6/1/2020	1 4506	1 45%	1 91%	11/15/1979	9 19%	11/7/1979	10 53
5/29/2020	1 4064	1 41%	1 92%	11/16/1979	9 19%	11/8/1979	10 51
5/28/2020	1 4519	1 45%	1 92%	11/19/1979	9 20%	11/9/1979	10 34
5/27/2020	1 4399	1 44%	1 92%	11/20/1979	9 21%	11/13/1979	10 32
5/26/2020	1 4446	1 44%	1 92%	11/21/1979	9 22%	11/14/1979	10 4
5/25/2020	1 3705	1 37%	1 93%	11/23/1979	9 22%	11/15/1979	10 3

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
5/22/2020	1 3705	1 37%	1 93%	11/26/1979	9 23%	11/16/1979	10 41
5/21/2020	1 386	1 39%	1 93%	11/27/1979	9 23%	11/19/1979	10 42
5/20/2020	1 3978	1 40%	1 94%	11/28/1979	9 24%	11/20/1979	10 39
5/19/2020	1 4089	1 41%	1 94%	11/29/1979	9 25%	11/21/1979	10 36
5/18/2020	1 4365	1 44%	1 94%	11/30/1979	9 25%	11/23/1979	10 21
5/15/2020	1 3266	1 33%	1 95%	12/3/1979	9 26%	11/26/1979	10 1
5/14/2020	1 2909	1 29%	1 95%	12/4/1979	9 26%	11/27/1979	10 02
5/13/2020	1 3451	1 35%	1 96%	12/5/1979	9 27%	11/28/1979	10 09
5/12/2020	1 3698	1 37%	1 96%	12/6/1979	9 27%	11/29/1979	10 06
5/11/2020	1 416	1 42%	1 97%	12/7/1979	9 28%	11/30/1979	10 09
5/8/2020	1 3828	1 38%	1 97%	12/10/1979	9 28%	12/3/1979	10 11
5/7/2020	1 329	1 33%	1 97%	12/11/1979	9 29%	12/4/1979	10 04
5/6/2020	1 3937	1 39%	1 98%	12/12/1979	9 29%	12/5/1979	10 01
5/5/2020	1 332	1 33%	1 98%	12/13/1979	9 30%	12/6/1979	9 93
5/4/2020	1 2765	1 28%	1 99%	12/14/1979	9 30%	12/7/1979	10 04
5/1/2020	1 2486	1 25%	2 00%	12/17/1979	9 31%	12/10/1979	10 03
4/30/2020	1 2848	1 28%	2 00%	12/18/1979	9 31%	12/11/1979	10 18
4/29/2020	1 2499	1 25%	2 01%	12/19/1979	9 32%	12/12/1979	10 27
4/28/2020	1 2042	1 20%	2 02%	12/20/1979	9 33%	12/13/1979	10 23
4/27/2020	1 2557	1 26%	2 02%	12/21/1979	9 33%	12/14/1979	10 17
4/24/2020	1 1696	1 17%	2 03%	12/24/1979	9 34%	12/17/1979	10 14
4/23/2020	1 1804	1 18%	2 04%	12/26/1979	9 34%	12/18/1979	10 11
4/22/2020	1 2146	1 21%	2 05%	12/27/1979	9 35%	12/19/1979	10 09
4/21/2020	1 1626	1 16%	2 05%	12/28/1979	9 35%	12/20/1979	10 13
4/20/2020	1 2164	1 22%	2 06%	12/31/1979	9 36%	12/21/1979	10 17
4/17/2020	1 2601	1 26%	2 07%	1/2/1980	9 37%	12/24/1979	10 17
4/16/2020	1 2234	1 22%	2 07%	1/3/1980	9 37%	12/26/1979	10 2
4/15/2020	1 2655	1 27%	2 08%	1/4/1980	9 38%	12/27/1979	10 19
4/14/2020	1 4017	1 40%	2 09%	1/7/1980	9 39%	12/28/1979	10 16
4/13/2020	1 4071	1 41%	2 09%	1/8/1980	9 39%	12/31/1979	10 11
4/10/2020	1 3435	1 34%	2 10%	1/9/1980	9 40%	1/2/1980	10 23
4/9/2020	1 3435	1 34%	2 10%	1/10/1980	9 40%	1/3/1980	10 31
4/8/2020	1 3765	1 38%	2 11%	1/11/1980	9 41%	1/4/1980	10 34
4/7/2020	1 2945	1 29%	2 12%	1/14/1980	9 42%	1/7/1980	10 35
4/6/2020	1 2785	1 28%	2 12%	1/15/1980	9 42%	1/8/1980	10 28
4/3/2020	1 2094	1 21%	2 13%	1/16/1980	9 43%	1/9/1980	10 29
4/2/2020	1 2394	1 24%	2 13%	1/17/1980	9 44%	1/10/1980	10 26
4/1/2020	1 2191	1 22%	2 14%	1/18/1980	9 45%	1/11/1980	10 38
3/31/2020	1 3214	1 32%	2 15%	1/21/1980	9 46%	1/14/1980	10 4
3/30/2020	1 3366	1 34%	2 15%	1/22/1980	9 46%	1/15/1980	10 4
3/27/2020	1 2635	1 26%	2 16%	1/23/1980	9 47%	1/16/1980	10 41
3/26/2020	1 431	1 43%	2 17%	1/24/1980	9 48%	1/17/1980	10 47
3/25/2020	1 4448	1 44%	2 17%	1/25/1980	9 49%	1/18/1980	10 61
3/24/2020	1 3954	1 40%	2 18%	1/28/1980	9 50%	1/21/1980	10 77
3/23/2020	1 3509	1 35%	2 18%	1/29/1980	9 51%	1/22/1980	10 69
3/20/2020	1 4169	1 42%	2 19%	1/30/1980	9 52%	1/23/1980	10 68
3/19/2020	1 7848	1 78%	2 20%	1/31/1980	9 53%	1/24/1980	10 87
3/18/2020	1 7875	1 79%	2 20%	2/1/1980	9 54%	1/25/1980	11
3/17/2020	1 6844	1 68%	2 20%	2/4/1980	9 55%	1/28/1980	11 03
3/16/2020	1 2841	1 28%	2 21%	2/5/1980	9 57%	1/29/1980	11 12
3/13/2020	1 5293	1 53%	2 21%	2/6/1980	9 58%	1/30/1980	11 11
3/12/2020	1 4399	1 44%	2 22%	2/7/1980	9 59%	1/31/1980	11 09
3/11/2020	1 3919	1 39%	2 23%	2/8/1980	9 61%	2/1/1980	11 23
3/10/2020	1 2799	1 28%	2 23%	2/11/1980	9 62%	2/4/1980	11 32
3/9/2020	0 9953	1 00%	2 24%	2/13/1980	9 64%	2/5/1980	11 64
3/6/2020	1 2874	1 29%	2 25%	2/14/1980	9 65%	2/6/1980	11 78
3/5/2020	1 5407	1 54%	2 25%	2/15/1980	9 66%	2/7/1980	11 7
3/4/2020	1 7014	1 70%	2 26%	2/19/1980	9 68%	2/8/1980	11 72
3/3/2020	1 6145	1 61%	2 26%	2/20/1980	9 70%	2/11/1980	11 94
3/2/2020	1 7213	1 72%	2 27%	2/21/1980	9 72%	2/13/1980	11 82
2/28/2020	1 6752	1 68%	2 27%	2/22/1980	9 73%	2/14/1980	11 9
2/27/2020	1 7577	1 76%	2 28%	2/25/1980	9 75%	2/15/1980	12 11
2/26/2020	1 8241	1 82%	2 28%	2/26/1980	9 77%	2/19/1980	12 61
2/25/2020	1 8254	1 83%	2 29%	2/27/1980	9 78%	2/20/1980	12 56
2/24/2020	1 8347	1 83%	2 29%	2/28/1980	9 80%	2/21/1980	12 77
2/21/2020	1 9147	1 91%	2 30%	2/29/1980	9 81%	2/22/1980	12 59
2/20/2020	1 9606	1 96%	2 30%	3/3/1980	9 83%	2/25/1980	12 69
2/19/2020	2 0139	2 01%	2 31%	3/4/1980	9 85%	2/26/1980	12 85
2/18/2020	2 0111	2 01%	2 31%	3/5/1980	9 86%	2/27/1980	12 76
2/17/2020	2 0391	2 04%	2 32%	3/6/1980	9 88%	2/28/1980	12 29
2/14/2020	2 0391	2 04%	2 32%	3/7/1980	9 90%	2/29/1980	12 25
2/13/2020	2 0706	2 07%	2 32%	3/10/1980	9 91%	3/3/1980	12 32
2/12/2020	2 089	2 09%	2 33%	3/11/1980	9 93%	3/4/1980	12 35
2/11/2020	2 0659	2 07%	2 33%	3/12/1980	9 94%	3/5/1980	12 4
2/10/2020	2 0389	2 04%	2 34%	3/13/1980	9 96%	3/6/1980	12 64

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
2/7/2020	2 0484	2 05%	2 34%	3/14/1980	9 97%	3/7/1980	12 5
2/6/2020	2 1089	2 11%	2 34%	3/17/1980	9 99%	3/10/1980	12 25
2/5/2020	2 1385	2 14%	2 35%	3/18/1980	10 00%	3/11/1980	12 12
2/4/2020	2 0769	2 08%	2 35%	3/19/1980	10 02%	3/12/1980	12 39
2/3/2020	2 0069	2 01%	2 36%	3/20/1980	10 03%	3/13/1980	12 19
1/31/2020	1 9996	2 00%	2 36%	3/21/1980	10 05%	3/14/1980	12 21
1/30/2020	2 0506	2 05%	2 37%	3/24/1980	10 07%	3/17/1980	12 2
1/29/2020	2 0392	2 04%	2 37%	3/25/1980	10 09%	3/18/1980	12
1/28/2020	2 1118	2 11%	2 37%	3/26/1980	10 11%	3/19/1980	11 97
1/27/2020	2 0567	2 06%	2 38%	3/27/1980	10 12%	3/20/1980	12 22
1/24/2020	2 1324	2 13%	2 38%	3/28/1980	10 14%	3/21/1980	12 28
1/23/2020	2 1782	2 18%	2 39%	3/31/1980	10 16%	3/24/1980	12 69
1/22/2020	2 2217	2 22%	2 39%	4/1/1980	10 18%	3/25/1980	12 67
1/21/2020	2 2358	2 24%	2 40%	4/2/1980	10 19%	3/26/1980	12 56
1/20/2020	2 2807	2 28%	2 40%	4/3/1980	10 21%	3/27/1980	12 5
1/17/2020	2 2807	2 28%	2 40%	4/7/1980	10 22%	3/28/1980	12 35
1/16/2020	2 2578	2 26%	2 41%	4/8/1980	10 24%	3/31/1980	12 31
1/15/2020	2 2359	2 24%	2 41%	4/9/1980	10 25%	4/1/1980	12 35
1/14/2020	2 27	2 27%	2 41%	4/10/1980	10 27%	4/2/1980	12 28
1/13/2020	2 3015	2 30%	2 42%	4/11/1980	10 28%	4/3/1980	12 27
1/10/2020	2 2786	2 28%	2 42%	4/14/1980	10 29%	4/7/1980	11 87
1/9/2020	2 3297	2 33%	2 42%	4/15/1980	10 31%	4/8/1980	11 85
1/8/2020	2 3625	2 36%	2 43%	4/16/1980	10 32%	4/9/1980	11 79
1/7/2020	2 3052	2 31%	2 43%	4/17/1980	10 33%	4/10/1980	11 74
1/6/2020	2 2858	2 29%	2 43%	4/18/1980	10 34%	4/11/1980	11 53
1/3/2020	2 2444	2 24%	2 43%	4/21/1980	10 35%	4/14/1980	11 5
1/2/2020	2 3312	2 33%	2 44%	4/22/1980	10 36%	4/15/1980	11 47
1/1/2020	2 3896	2 39%	2 44%	4/23/1980	10 37%	4/16/1980	10 91
12/31/2019	2 3896	2 39%	2 44%	4/24/1980	10 38%	4/17/1980	10 99
12/30/2019	2 3297	2 33%	2 44%	4/25/1980	10 39%	4/18/1980	10 98
12/27/2019	2 316	2 32%	2 45%	4/28/1980	10 40%	4/21/1980	10 96
12/26/2019	2 3218	2 32%	2 45%	4/29/1980	10 41%	4/22/1980	10 94
12/25/2019	2 329	2 33%	2 45%	4/30/1980	10 42%	4/23/1980	11 02
12/24/2019	2 329	2 33%	2 46%	5/1/1980	10 43%	4/24/1980	11 13
12/23/2019	2 3567	2 36%	2 46%	5/2/1980	10 44%	4/25/1980	11 18
12/20/2019	2 3421	2 34%	2 46%	5/5/1980	10 45%	4/28/1980	10 86
12/19/2019	2 3538	2 35%	2 47%	5/6/1980	10 45%	4/29/1980	10 89
12/18/2019	2 3472	2 35%	2 47%	5/7/1980	10 46%	4/30/1980	10 89
12/17/2019	2 306	2 31%	2 47%	5/8/1980	10 47%	5/1/1980	10 72
12/16/2019	2 2866	2 29%	2 48%	5/9/1980	10 47%	5/2/1980	10 47
12/13/2019	2 2524	2 25%	2 48%	5/12/1980	10 48%	5/5/1980	10 35
12/12/2019	2 3103	2 31%	2 48%	5/13/1980	10 49%	5/6/1980	10 23
12/11/2019	2 2263	2 23%	2 49%	5/14/1980	10 49%	5/7/1980	10 19
12/10/2019	2 2645	2 26%	2 49%	5/15/1980	10 50%	5/8/1980	10 34
12/9/2019	2 2546	2 25%	2 50%	5/16/1980	10 51%	5/9/1980	10 41
12/6/2019	2 2774	2 28%	2 50%	5/19/1980	10 52%	5/12/1980	10 44
12/5/2019	2 2596	2 26%	2 50%	5/20/1980	10 53%	5/13/1980	10 29
12/4/2019	2 2271	2 23%	2 51%	5/21/1980	10 53%	5/14/1980	10 26
12/3/2019	2 1636	2 16%	2 51%	5/22/1980	10 54%	5/15/1980	10 46
12/2/2019	2 266	2 27%	2 52%	5/23/1980	10 55%	5/16/1980	10 53
11/29/2019	2 2054	2 21%	2 52%	5/27/1980	10 55%	5/19/1980	10 68
11/28/2019	2 1901	2 19%	2 52%	5/28/1980	10 56%	5/20/1980	10 47
11/27/2019	2 1901	2 19%	2 53%	5/29/1980	10 56%	5/21/1980	10 31
11/26/2019	2 179	2 18%	2 53%	5/30/1980	10 57%	5/22/1980	10 34
11/25/2019	2 2013	2 20%	2 54%	6/2/1980	10 58%	5/23/1980	10 09
11/22/2019	2 2209	2 22%	2 54%	6/3/1980	10 59%	5/27/1980	10 1
11/21/2019	2 2315	2 23%	2 55%	6/4/1980	10 59%	5/28/1980	10 22
11/20/2019	2 209	2 21%	2 55%	6/5/1980	10 60%	5/29/1980	10 32
11/19/2019	2 2513	2 25%	2 55%	6/6/1980	10 60%	5/30/1980	10 37
11/18/2019	2 299	2 30%	2 56%	6/9/1980	10 61%	6/2/1980	10 45
11/15/2019	2 3047	2 30%	2 56%	6/10/1980	10 61%	6/3/1980	10 29
11/14/2019	2 2997	2 30%	2 56%	6/11/1980	10 61%	6/4/1980	10 18
11/13/2019	2 3648	2 36%	2 57%	6/12/1980	10 62%	6/5/1980	10 08
11/12/2019	2 4162	2 42%	2 57%	6/13/1980	10 62%	6/6/1980	9 87
11/11/2019	2 4243	2 42%	2 57%	6/16/1980	10 62%	6/9/1980	9 75
11/8/2019	2 4243	2 42%	2 58%	6/17/1980	10 62%	6/10/1980	9 88
11/7/2019	2 3974	2 40%	2 58%	6/18/1980	10 63%	6/11/1980	9 79
11/6/2019	2 3156	2 32%	2 58%	6/19/1980	10 63%	6/12/1980	9 6
11/5/2019	2 3384	2 34%	2 59%	6/20/1980	10 63%	6/13/1980	9 49
11/4/2019	2 263	2 26%	2 59%	6/23/1980	10 63%	6/16/1980	9 49
11/1/2019	2 1897	2 19%	2 59%	6/24/1980	10 64%	6/17/1980	9 52
10/31/2019	2 1791	2 18%	2 60%	6/25/1980	10 64%	6/18/1980	9 6
10/30/2019	2 2521	2 25%	2 60%	6/26/1980	10 64%	6/19/1980	9 57
10/29/2019	2 3347	2 33%	2 61%	6/27/1980	10 65%	6/20/1980	9 5
10/28/2019	2 3339	2 33%	2 61%	6/30/1980	10 65%	6/23/1980	9 66

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
10/25/2019	2 287	2 29%	2 61%	7/1/1980	10 66%	6/24/1980	9 7
10/24/2019	2 2622	2 26%	2 62%	7/2/1980	10 66%	6/25/1980	9 79
10/23/2019	2 2543	2 25%	2 62%	7/3/1980	10 67%	6/26/1980	9 91
10/22/2019	2 2521	2 25%	2 63%	7/7/1980	10 67%	6/27/1980	9 97
10/21/2019	2 2913	2 29%	2 63%	7/8/1980	10 68%	6/30/1980	9 99
10/18/2019	2 2492	2 25%	2 63%	7/9/1980	10 68%	7/1/1980	10 12
10/17/2019	2 2341	2 23%	2 64%	7/10/1980	10 69%	7/2/1980	10 12
10/16/2019	2 2248	2 22%	2 64%	7/11/1980	10 69%	7/3/1980	10
10/15/2019	2 2348	2 23%	2 65%	7/14/1980	10 70%	7/7/1980	10 22
10/14/2019	2 1941	2 19%	2 65%	7/15/1980	10 70%	7/8/1980	10 06
10/11/2019	2 1941	2 19%	2 65%	7/16/1980	10 71%	7/9/1980	10 14
10/10/2019	2 1615	2 16%	2 66%	7/17/1980	10 71%	7/10/1980	10 21
10/9/2019	2 0841	2 08%	2 66%	7/18/1980	10 72%	7/11/1980	10 3
10/8/2019	2 0293	2 03%	2 67%	7/21/1980	10 72%	7/14/1980	10 36
10/7/2019	2 0484	2 05%	2 67%	7/22/1980	10 73%	7/15/1980	10 19
10/4/2019	2 0151	2 02%	2 68%	7/23/1980	10 73%	7/16/1980	10 05
10/3/2019	2 0321	2 03%	2 68%	7/24/1980	10 73%	7/17/1980	10 15
10/2/2019	2 0876	2 09%	2 69%	7/25/1980	10 74%	7/18/1980	10 19
10/1/2019	2 0925	2 09%	2 69%	7/28/1980	10 74%	7/21/1980	10 11
9/30/2019	2 1105	2 11%	2 70%	7/29/1980	10 75%	7/22/1980	10 18
9/27/2019	2 1286	2 13%	2 70%	7/30/1980	10 75%	7/23/1980	10 15
9/26/2019	2 1419	2 14%	2 70%	7/31/1980	10 76%	7/24/1980	10 24
9/25/2019	2 1863	2 19%	2 71%	8/1/1980	10 76%	7/25/1980	10 33
9/24/2019	2 1036	2 10%	2 71%	8/4/1980	10 77%	7/28/1980	10 42
9/23/2019	2 1729	2 17%	2 72%	8/5/1980	10 77%	7/29/1980	10 4
9/20/2019	2 1616	2 16%	2 72%	8/6/1980	10 77%	7/30/1980	10 51
9/19/2019	2 2277	2 23%	2 73%	8/7/1980	10 78%	7/31/1980	10 8
9/18/2019	2 242	2 24%	2 73%	8/8/1980	10 78%	8/1/1980	10 76
9/17/2019	2 268	2 27%	2 74%	8/11/1980	10 78%	8/4/1980	10 68
9/16/2019	2 3183	2 32%	2 74%	8/12/1980	10 79%	8/5/1980	10 69
9/13/2019	2 3708	2 37%	2 75%	8/13/1980	10 79%	8/6/1980	10 73
9/12/2019	2 2557	2 26%	2 75%	8/14/1980	10 79%	8/7/1980	10 68
9/11/2019	2 2213	2 22%	2 75%	8/15/1980	10 80%	8/8/1980	10 9
9/10/2019	2 2163	2 22%	2 76%	8/18/1980	10 80%	8/11/1980	11 05
9/9/2019	2 1281	2 13%	2 76%	8/19/1980	10 81%	8/12/1980	11 01
9/6/2019	2 025	2 03%	2 77%	8/20/1980	10 81%	8/13/1980	10 93
9/5/2019	2 0495	2 05%	2 77%	8/21/1980	10 81%	8/14/1980	10 9
9/4/2019	1 9699	1 97%	2 78%	8/22/1980	10 82%	8/15/1980	10 83
9/3/2019	1 9526	1 95%	2 79%	8/25/1980	10 82%	8/18/1980	11 02
9/2/2019	1 9626	1 96%	2 79%	8/26/1980	10 82%	8/19/1980	11 16
8/30/2019	1 9626	1 96%	2 80%	8/27/1980	10 83%	8/20/1980	11 13
8/29/2019	1 964	1 96%	2 81%	8/28/1980	10 83%	8/21/1980	11 15
8/28/2019	1 9714	1 97%	2 81%	8/29/1980	10 84%	8/22/1980	11 01
8/27/2019	1 9501	1 95%	2 82%	9/2/1980	10 84%	8/25/1980	11 18
8/26/2019	2 0354	2 04%	2 83%	9/3/1980	10 85%	8/26/1980	11 18
8/23/2019	2 0252	2 03%	2 83%	9/4/1980	10 85%	8/27/1980	11 33
8/22/2019	2 1047	2 10%	2 84%	9/5/1980	10 85%	8/28/1980	11 43
8/21/2019	2 0723	2 07%	2 85%	9/8/1980	10 86%	8/29/1980	11 27
8/20/2019	2 0375	2 04%	2 85%	9/9/1980	10 86%	9/2/1980	11 08
8/19/2019	2 0874	2 09%	2 86%	9/10/1980	10 87%	9/3/1980	10 94
8/16/2019	2 0348	2 03%	2 87%	9/11/1980	10 87%	9/4/1980	11 02
8/15/2019	1 9729	1 97%	2 87%	9/12/1980	10 88%	9/5/1980	11 06
8/14/2019	2 018	2 02%	2 88%	9/15/1980	10 88%	9/8/1980	11 15
8/13/2019	2 1633	2 16%	2 89%	9/16/1980	10 89%	9/9/1980	11 05
8/12/2019	2 1325	2 13%	2 89%	9/17/1980	10 90%	9/10/1980	11 02
8/9/2019	2 2586	2 26%	2 90%	9/18/1980	10 90%	9/11/1980	11 15
8/8/2019	2 2243	2 22%	2 91%	9/19/1980	10 91%	9/12/1980	11 18
8/7/2019	2 2522	2 25%	2 91%	9/22/1980	10 92%	9/15/1980	11 38
8/6/2019	2 233	2 23%	2 92%	9/23/1980	10 92%	9/16/1980	11 33
8/5/2019	2 2543	2 25%	2 92%	9/24/1980	10 93%	9/17/1980	11 41
8/2/2019	2 382	2 38%	2 93%	9/25/1980	10 94%	9/18/1980	11 35
8/1/2019	2 442	2 44%	2 93%	9/26/1980	10 95%	9/19/1980	11 25
7/31/2019	2 5249	2 52%	2 94%	9/29/1980	10 96%	9/22/1980	11 6
7/30/2019	2 5798	2 58%	2 94%	9/30/1980	10 96%	9/23/1980	11 53
7/29/2019	2 5907	2 59%	2 95%	10/1/1980	10 97%	9/24/1980	11 53
7/26/2019	2 5922	2 59%	2 95%	10/2/1980	10 98%	9/25/1980	11 66
7/25/2019	2 6083	2 61%	2 95%	10/3/1980	10 99%	9/26/1980	11 81
7/24/2019	2 5726	2 57%	2 96%	10/6/1980	10 99%	9/29/1980	11 93
7/23/2019	2 6156	2 62%	2 96%	10/7/1980	11 00%	9/30/1980	11 7
7/22/2019	2 5712	2 57%	2 97%	10/8/1980	11 00%	10/1/1980	11 69
7/19/2019	2 5792	2 58%	2 97%	10/9/1980	11 01%	10/2/1980	11 66
7/18/2019	2 564	2 56%	2 97%	10/10/1980	11 01%	10/3/1980	11 33
7/17/2019	2 5568	2 56%	2 98%	10/14/1980	11 02%	10/6/1980	11 26
7/16/2019	2 6121	2 61%	2 98%	10/15/1980	11 02%	10/7/1980	11 3
7/15/2019	2 6106	2 61%	2 99%	10/16/1980	11 03%	10/8/1980	11 38

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
7/12/2019	2 6467	2 65%	2 99%	10/17/1980	11 03%	10/9/1980	11 21
7/11/2019	2 6593	2 66%	2 99%	10/20/1980	11 04%	10/10/1980	11 26
7/10/2019	2 5758	2 58%	3 00%	10/21/1980	11 05%	10/14/1980	11 16
7/9/2019	2 5404	2 54%	3 00%	10/22/1980	11 05%	10/15/1980	11 11
7/8/2019	2 529	2 53%	3 00%	10/23/1980	11 06%	10/16/1980	11 27
7/5/2019	2 5419	2 54%	3 01%	10/24/1980	11 07%	10/17/1980	11 44
7/4/2019	2 4666	2 47%	3 01%	10/27/1980	11 07%	10/20/1980	11 44
7/3/2019	2 4666	2 47%	3 02%	10/28/1980	11 08%	10/21/1980	11 53
7/2/2019	2 5013	2 50%	3 02%	10/29/1980	11 09%	10/22/1980	11 74
7/1/2019	2 5478	2 55%	3 02%	10/30/1980	11 10%	10/23/1980	11 68
6/28/2019	2 5291	2 53%	3 03%	10/31/1980	11 11%	10/24/1980	11 61
6/27/2019	2 5292	2 53%	3 03%	11/3/1980	11 12%	10/27/1980	11 96
6/26/2019	2 5695	2 57%	3 03%	11/5/1980	11 13%	10/28/1980	12 14
6/25/2019	2 5192	2 52%	3 04%	11/6/1980	11 14%	10/29/1980	12 21
6/24/2019	2 5443	2 54%	3 04%	11/7/1980	11 15%	10/30/1980	12 28
6/21/2019	2 5841	2 58%	3 04%	11/10/1980	11 15%	10/31/1980	12 23
6/20/2019	2 5401	2 54%	3 05%	11/12/1980	11 16%	11/3/1980	12 22
6/19/2019	2 5351	2 54%	3 05%	11/13/1980	11 17%	11/5/1980	12 36
6/18/2019	2 5488	2 55%	3 05%	11/14/1980	11 17%	11/6/1980	12 59
6/17/2019	2 5827	2 58%	3 05%	11/17/1980	11 18%	11/7/1980	12 59
6/14/2019	2 5856	2 59%	3 06%	11/18/1980	11 19%	11/10/1980	12 71
6/13/2019	2 6002	2 60%	3 06%	11/19/1980	11 19%	11/12/1980	12 26
6/12/2019	2 6156	2 62%	3 06%	11/20/1980	11 20%	11/13/1980	12 23
6/11/2019	2 6149	2 61%	3 06%	11/21/1980	11 20%	11/14/1980	12 45
6/10/2019	2 6288	2 63%	3 07%	11/24/1980	11 20%	11/17/1980	12 6
6/7/2019	2 572	2 57%	3 07%	11/25/1980	11 21%	11/18/1980	12 29
6/6/2019	2 6135	2 61%	3 07%	11/26/1980	11 21%	11/19/1980	12 19
6/5/2019	2 6465	2 65%	3 07%	11/28/1980	11 21%	11/20/1980	12 22
6/4/2019	2 6113	2 61%	3 07%	12/1/1980	11 21%	11/21/1980	12 37
6/3/2019	2 5311	2 53%	3 08%	12/2/1980	11 22%	11/24/1980	12 31
5/31/2019	2 5685	2 57%	3 08%	12/3/1980	11 22%	11/25/1980	12 3
5/30/2019	2 64	2 64%	3 08%	12/4/1980	11 22%	11/26/1980	12 27
5/29/2019	2 6926	2 69%	3 08%	12/5/1980	11 22%	11/28/1980	12 32
5/28/2019	2 7045	2 70%	3 08%	12/8/1980	11 22%	12/1/1980	12 512
5/27/2019	2 7512	2 75%	3 09%	12/9/1980	11 22%	12/2/1980	12 502
5/24/2019	2 7512	2 75%	3 09%	12/10/1980	11 22%	12/3/1980	12 412
5/23/2019	2 7535	2 75%	3 09%	12/11/1980	11 22%	12/4/1980	12 432
5/22/2019	2 8076	2 81%	3 09%	12/12/1980	11 22%	12/5/1980	12 332
5/21/2019	2 8439	2 84%	3 09%	12/15/1980	11 22%	12/8/1980	12 422
5/20/2019	2 8369	2 84%	3 09%	12/16/1980	11 22%	12/9/1980	12 682
5/17/2019	2 8253	2 83%	3 09%	12/17/1980	11 23%	12/10/1980	12 802
5/16/2019	2 8338	2 83%	3 09%	12/18/1980	11 23%	12/11/1980	13 172
5/15/2019	2 8199	2 82%	3 09%	12/19/1980	11 23%	12/12/1980	12 822
5/14/2019	2 8485	2 85%	3 10%	12/22/1980	11 22%	12/15/1980	12 852
5/13/2019	2 8362	2 84%	3 10%	12/23/1980	11 22%	12/16/1980	12 952
5/10/2019	2 8867	2 89%	3 10%	12/24/1980	11 22%	12/17/1980	12 742
5/9/2019	2 8612	2 86%	3 10%	12/26/1980	11 22%	12/18/1980	12 622
5/8/2019	2 8937	2 89%	3 10%	12/29/1980	11 21%	12/19/1980	12 222
5/7/2019	2 8643	2 86%	3 10%	12/30/1980	11 21%	12/22/1980	11 752
5/6/2019	2 8883	2 89%	3 10%	12/31/1980	11 21%	12/23/1980	11 932
5/3/2019	2 9186	2 92%	3 10%	1/2/1981	11 21%	12/24/1980	11 952
5/2/2019	2 9296	2 93%	3 11%	1/5/1981	11 21%	12/26/1980	11 842
5/1/2019	2 9038	2 90%	3 11%	1/6/1981	11 21%	12/29/1980	11 842
4/30/2019	2 9288	2 93%	3 11%	1/7/1981	11 21%	12/30/1980	11 962
4/29/2019	2 9547	2 95%	3 11%	1/8/1981	11 20%	12/31/1980	11 982
4/26/2019	2 9233	2 92%	3 11%	1/9/1981	11 20%	1/2/1981	12 012
4/25/2019	2 9421	2 94%	3 11%	1/12/1981	11 20%	1/5/1981	11 672
4/24/2019	2 9343	2 93%	3 11%	1/13/1981	11 20%	1/6/1981	11 672
4/23/2019	2 98	2 98%	3 11%	1/14/1981	11 19%	1/7/1981	11 892
4/22/2019	2 9919	2 99%	3 11%	1/15/1981	11 19%	1/8/1981	11 912
4/19/2019	2 961	2 96%	3 11%	1/16/1981	11 19%	1/9/1981	12 132
4/18/2019	2 961	2 96%	3 11%	1/19/1981	11 19%	1/12/1981	12 082
4/17/2019	2 9943	2 99%	3 11%	1/20/1981	11 19%	1/13/1981	12 082
4/16/2019	2 9919	2 99%	3 11%	1/21/1981	11 19%	1/14/1981	12 072
4/15/2019	2 9682	2 97%	3 11%	1/22/1981	11 19%	1/15/1981	12 252
4/12/2019	2 9769	2 98%	3 11%	1/23/1981	11 20%	1/16/1981	12 132
4/11/2019	2 9265	2 93%	3 11%	1/26/1981	11 20%	1/19/1981	12 252
4/10/2019	2 8923	2 89%	3 11%	1/27/1981	11 20%	1/20/1981	12 112
4/9/2019	2 9141	2 91%	3 11%	1/28/1981	11 21%	1/21/1981	12 332
4/8/2019	2 9273	2 93%	3 11%	1/29/1981	11 21%	1/22/1981	12 462
4/5/2019	2 9032	2 90%	3 11%	1/30/1981	11 21%	1/23/1981	12 382
4/4/2019	2 9196	2 92%	3 11%	2/2/1981	11 22%	1/26/1981	12 282
4/3/2019	2 9336	2 93%	3 11%	2/3/1981	11 23%	1/27/1981	12 312
4/2/2019	2 8769	2 88%	3 11%	2/4/1981	11 24%	1/28/1981	12 332
4/1/2019	2 8901	2 89%	3 11%	2/5/1981	11 25%	1/29/1981	12 382

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
3/29/2019	2 8143	2 81%	3 11%	2/6/1981	11 26%	1/30/1981	12 282
3/28/2019	2 8226	2 82%	3 11%	2/9/1981	11 27%	2/2/1981	12 452
3/27/2019	2 8105	2 81%	3 11%	2/10/1981	11 27%	2/3/1981	12 612
3/26/2019	2 8731	2 87%	3 12%	2/11/1981	11 28%	2/4/1981	12 492
3/25/2019	2 8616	2 86%	3 12%	2/13/1981	11 30%	2/5/1981	12 702
3/22/2019	2 8739	2 87%	3 12%	2/17/1981	11 31%	2/6/1981	12 732
3/21/2019	2 9667	2 97%	3 12%	2/18/1981	11 32%	2/9/1981	12 812
3/20/2019	2 9714	2 97%	3 12%	2/19/1981	11 33%	2/10/1981	12 922
3/19/2019	3 0222	3 02%	3 12%	2/20/1981	11 34%	2/11/1981	13 012
3/18/2019	3 0174	3 02%	3 12%	2/23/1981	11 35%	2/13/1981	13 202
3/15/2019	3 0111	3 01%	3 12%	2/24/1981	11 36%	2/17/1981	12 932
3/14/2019	3 0455	3 05%	3 12%	2/25/1981	11 37%	2/18/1981	12 882
3/13/2019	3 0159	3 02%	3 12%	2/26/1981	11 39%	2/19/1981	12 712
3/12/2019	2 9912	2 99%	3 12%	2/27/1981	11 40%	2/20/1981	12 542
3/11/2019	3 027	3 03%	3 12%	3/2/1981	11 41%	2/23/1981	12 812
3/8/2019	3 0119	3 01%	3 12%	3/3/1981	11 43%	2/24/1981	12 812
3/7/2019	3 0262	3 03%	3 12%	3/4/1981	11 44%	2/25/1981	12 892
3/6/2019	3 0705	3 07%	3 12%	3/5/1981	11 46%	2/26/1981	12 982
3/5/2019	3 081	3 08%	3 12%	3/6/1981	11 47%	2/27/1981	12 972
3/4/2019	3 0891	3 09%	3 12%	3/9/1981	11 48%	3/2/1981	13 192
3/1/2019	3 1226	3 12%	3 12%	3/10/1981	11 49%	3/3/1981	13 002
2/28/2019	3 0802	3 08%	3 12%	3/11/1981	11 50%	3/4/1981	13 032
2/27/2019	3 0648	3 06%	3 12%	3/12/1981	11 51%	3/5/1981	13 002
2/26/2019	3 0055	3 01%	3 12%	3/13/1981	11 52%	3/6/1981	12 732
2/25/2019	3 0271	3 03%	3 12%	3/16/1981	11 53%	3/9/1981	12 642
2/22/2019	3 0159	3 02%	3 12%	3/17/1981	11 54%	3/10/1981	12 692
2/21/2019	3 0495	3 05%	3 12%	3/18/1981	11 55%	3/11/1981	12 742
2/20/2019	2 9952	3 00%	3 12%	3/19/1981	11 56%	3/12/1981	12 592
2/19/2019	2 9778	2 98%	3 13%	3/20/1981	11 57%	3/13/1981	12 422
2/18/2019	2 9936	2 99%	3 13%	3/23/1981	11 58%	3/16/1981	12 412
2/15/2019	2 9936	2 99%	3 13%	3/24/1981	11 60%	3/17/1981	12 252
2/14/2019	2 9976	3 00%	3 13%	3/25/1981	11 61%	3/18/1981	12 162
2/13/2019	3 0311	3 03%	3 13%	3/26/1981	11 63%	3/19/1981	12 282
2/12/2019	3 0247	3 02%	3 13%	3/27/1981	11 64%	3/20/1981	12 342
2/11/2019	2 9921	2 99%	3 13%	3/30/1981	11 66%	3/23/1981	12 712
2/8/2019	2 9802	2 98%	3 13%	3/31/1981	11 67%	3/24/1981	12 842
2/7/2019	2 9947	2 99%	3 13%	4/1/1981	11 69%	3/25/1981	12 772
2/6/2019	3 0329	3 03%	3 13%	4/2/1981	11 70%	3/26/1981	12 922
2/5/2019	3 0314	3 03%	3 13%	4/3/1981	11 72%	3/27/1981	12 932
2/4/2019	3 0545	3 05%	3 13%	4/6/1981	11 74%	3/30/1981	12 802
2/1/2019	3 0253	3 03%	3 13%	4/7/1981	11 76%	3/31/1981	12 652
1/31/2019	2 9956	3 00%	3 13%	4/8/1981	11 78%	4/1/1981	12 652
1/30/2019	3 0315	3 03%	3 13%	4/9/1981	11 79%	4/2/1981	12 802
1/29/2019	3 04	3 04%	3 14%	4/10/1981	11 81%	4/3/1981	12 942
1/28/2019	3 0662	3 07%	3 14%	4/13/1981	11 83%	4/6/1981	13 282
1/25/2019	3 0662	3 07%	3 14%	4/14/1981	11 85%	4/7/1981	12 992
1/24/2019	3 0339	3 03%	3 14%	4/15/1981	11 86%	4/8/1981	13 152
1/23/2019	3 0617	3 06%	3 14%	4/16/1981	11 88%	4/9/1981	13 022
1/22/2019	3 0594	3 06%	3 14%	4/20/1981	11 90%	4/10/1981	13 152
1/21/2019	3 0974	3 10%	3 14%	4/21/1981	11 91%	4/13/1981	13 232
1/18/2019	3 0974	3 10%	3 14%	4/22/1981	11 93%	4/14/1981	13 132
1/17/2019	3 0741	3 07%	3 14%	4/23/1981	11 94%	4/15/1981	13 292
1/16/2019	3 0711	3 07%	3 14%	4/24/1981	11 96%	4/16/1981	13 322
1/15/2019	3 0734	3 07%	3 14%	4/27/1981	11 98%	4/20/1981	13 172
1/14/2019	3 0526	3 05%	3 14%	4/28/1981	11 99%	4/21/1981	13 202
1/11/2019	3 0334	3 03%	3 14%	4/29/1981	12 01%	4/22/1981	13 252
1/10/2019	3 0627	3 06%	3 14%	4/30/1981	12 02%	4/23/1981	13 282
1/9/2019	3 0029	3 00%	3 14%	5/1/1981	12 04%	4/24/1981	13 352
1/8/2019	3 0068	3 01%	3 14%	5/4/1981	12 06%	4/27/1981	13 382
1/7/2019	2 9878	2 99%	3 14%	5/5/1981	12 08%	4/28/1981	13 392
1/4/2019	2 981	2 98%	3 14%	5/6/1981	12 10%	4/29/1981	13 502
1/3/2019	2 9025	2 90%	3 14%	5/7/1981	12 12%	4/30/1981	13 652
1/2/2019	2 9518	2 95%	3 14%	5/8/1981	12 14%	5/1/1981	13 592
1/1/2019	3 0145	3 01%	3 14%	5/11/1981	12 16%	5/4/1981	13 982
12/31/2018	3 0145	3 01%	3 14%	5/12/1981	12 17%	5/5/1981	14 112
12/28/2018	3 0222	3 02%	3 14%	5/13/1981	12 19%	5/6/1981	13 972
12/27/2018	3 056	3 06%	3 14%	5/14/1981	12 21%	5/7/1981	13 842
12/26/2018	3 0645	3 06%	3 14%	5/15/1981	12 23%	5/8/1981	13 762
12/25/2018	2 9934	2 99%	3 14%	5/18/1981	12 24%	5/11/1981	13 892
12/24/2018	2 9934	2 99%	3 14%	5/19/1981	12 26%	5/12/1981	13 952
12/21/2018	3 0308	3 03%	3 14%	5/20/1981	12 27%	5/13/1981	13 952
12/20/2018	3 0484	3 05%	3 14%	5/21/1981	12 28%	5/14/1981	13 662
12/19/2018	2 9807	2 98%	3 14%	5/22/1981	12 30%	5/15/1981	13 582
12/18/2018	3 0677	3 07%	3 14%	5/26/1981	12 31%	5/18/1981	13 312
12/17/2018	3 1128	3 11%	3 14%	5/27/1981	12 32%	5/19/1981	13 472

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
12/14/2018	3 1433	3 14%	3 14%	5/28/1981	12 33%	5/20/1981	13 452
12/13/2018	3 1694	3 17%	3 14%	5/29/1981	12 34%	5/21/1981	13 532
12/12/2018	3 1497	3 15%	3 14%	6/1/1981	12 35%	5/22/1981	13 362
12/11/2018	3 1261	3 13%	3 14%	6/2/1981	12 37%	5/26/1981	13 222
12/10/2018	3 1293	3 13%	3 14%	6/3/1981	12 38%	5/27/1981	13 272
12/7/2018	3 1403	3 14%	3 14%	6/4/1981	12 39%	5/28/1981	13 102
12/6/2018	3 1624	3 16%	3 14%	6/5/1981	12 40%	5/29/1981	13 062
12/5/2018	3 1727	3 17%	3 14%	6/8/1981	12 41%	6/1/1981	13 062
12/4/2018	3 1727	3 17%	3 14%	6/9/1981	12 42%	6/2/1981	13 132
12/3/2018	3 2535	3 25%	3 14%	6/10/1981	12 42%	6/3/1981	13 082
11/30/2018	3 29	3 29%	3 14%	6/11/1981	12 43%	6/4/1981	13 042
11/29/2018	3 3245	3 32%	3 14%	6/12/1981	12 44%	6/5/1981	13 112
11/28/2018	3 3459	3 35%	3 14%	6/15/1981	12 45%	6/8/1981	12 872
11/27/2018	3 3187	3 32%	3 14%	6/16/1981	12 46%	6/9/1981	12 892
11/26/2018	3 3113	3 31%	3 14%	6/17/1981	12 46%	6/10/1981	12 822
11/23/2018	3 3015	3 30%	3 13%	6/18/1981	12 47%	6/11/1981	12 842
11/22/2018	3 3163	3 32%	3 13%	6/19/1981	12 48%	6/12/1981	12 842
11/21/2018	3 3163	3 32%	3 13%	6/22/1981	12 49%	6/15/1981	12 612
11/20/2018	3 3147	3 31%	3 13%	6/23/1981	12 50%	6/16/1981	12 592
11/19/2018	3 3212	3 32%	3 13%	6/24/1981	12 51%	6/17/1981	12 732
11/16/2018	3 3163	3 32%	3 13%	6/25/1981	12 52%	6/18/1981	12 982
11/15/2018	3 3592	3 36%	3 13%	6/26/1981	12 53%	6/19/1981	12 902
11/14/2018	3 3667	3 37%	3 13%	6/29/1981	12 54%	6/22/1981	12 862
11/13/2018	3 3592	3 36%	3 13%	6/30/1981	12 55%	6/23/1981	12 992
11/12/2018	3 3842	3 38%	3 13%	7/1/1981	12 56%	6/24/1981	13 102
11/9/2018	3 3842	3 38%	3 12%	7/2/1981	12 57%	6/25/1981	13 142
11/8/2018	3 4337	3 43%	3 12%	7/6/1981	12 58%	6/26/1981	13 142
11/7/2018	3 4416	3 44%	3 12%	7/7/1981	12 59%	6/29/1981	13 112
11/6/2018	3 4433	3 44%	3 12%	7/8/1981	12 60%	6/30/1981	13 302
11/5/2018	3 4282	3 43%	3 12%	7/9/1981	12 61%	7/1/1981	13 472
11/2/2018	3 454	3 45%	3 11%	7/10/1981	12 62%	7/2/1981	13 352
11/1/2018	3 376	3 38%	3 11%	7/13/1981	12 63%	7/6/1981	13 192
10/31/2018	3 3909	3 39%	3 11%	7/14/1981	12 64%	7/7/1981	13 422
10/30/2018	3 3637	3 36%	3 11%	7/15/1981	12 65%	7/8/1981	13 432
10/29/2018	3 3306	3 33%	3 10%	7/16/1981	12 66%	7/9/1981	13 472
10/26/2018	3 3098	3 31%	3 10%	7/17/1981	12 67%	7/10/1981	13 252
10/25/2018	3 3427	3 34%	3 10%	7/20/1981	12 68%	7/13/1981	13 332
10/24/2018	3 3305	3 33%	3 10%	7/21/1981	12 69%	7/14/1981	13 492
10/23/2018	3 3679	3 37%	3 10%	7/22/1981	12 70%	7/15/1981	13 352
10/22/2018	3 3881	3 39%	3 09%	7/23/1981	12 71%	7/16/1981	13 442
10/19/2018	3 3758	3 38%	3 09%	7/24/1981	12 72%	7/17/1981	13 402
10/18/2018	3 3634	3 36%	3 09%	7/27/1981	12 74%	7/20/1981	13 872
10/17/2018	3 3722	3 37%	3 08%	7/28/1981	12 75%	7/21/1981	13 842
10/16/2018	3 3338	3 33%	3 08%	7/29/1981	12 76%	7/22/1981	13 872
10/15/2018	3 3364	3 34%	3 08%	7/30/1981	12 77%	7/23/1981	13 802
10/12/2018	3 3347	3 33%	3 08%	7/31/1981	12 79%	7/24/1981	13 652
10/11/2018	3 3233	3 32%	3 08%	8/3/1981	12 80%	7/27/1981	13 702
10/10/2018	3 3476	3 35%	3 07%	8/4/1981	12 82%	7/28/1981	13 802
10/9/2018	3 3685	3 37%	3 07%	8/5/1981	12 83%	7/29/1981	13 922
10/8/2018	3 4036	3 40%	3 07%	8/6/1981	12 85%	7/30/1981	13 952
10/5/2018	3 4036	3 40%	3 06%	8/7/1981	12 86%	7/31/1981	13 962
10/4/2018	3 3475	3 35%	3 06%	8/10/1981	12 87%	8/3/1981	14 272
10/3/2018	3 3353	3 34%	3 06%	8/11/1981	12 88%	8/4/1981	14 172
10/2/2018	3 2175	3 22%	3 05%	8/12/1981	12 89%	8/5/1981	14 152
10/1/2018	3 2343	3 23%	3 05%	8/13/1981	12 90%	8/6/1981	14 042
9/28/2018	3 2057	3 21%	3 05%	8/14/1981	12 91%	8/7/1981	14 072
9/27/2018	3 1831	3 18%	3 05%	8/17/1981	12 92%	8/10/1981	13 882
9/26/2018	3 1814	3 18%	3 05%	8/18/1981	12 93%	8/11/1981	13 632
9/25/2018	3 2258	3 23%	3 04%	8/19/1981	12 94%	8/12/1981	13 822
9/24/2018	3 2258	3 23%	3 04%	8/20/1981	12 95%	8/13/1981	13 882
9/21/2018	3 1998	3 20%	3 04%	8/21/1981	12 96%	8/14/1981	13 952
9/20/2018	3 1956	3 20%	3 04%	8/24/1981	12 97%	8/17/1981	13 902
9/19/2018	3 2098	3 21%	3 04%	8/25/1981	12 98%	8/18/1981	13 952
9/18/2018	3 2014	3 20%	3 03%	8/26/1981	12 99%	8/19/1981	13 952
9/17/2018	3 1284	3 13%	3 03%	8/27/1981	13 00%	8/20/1981	14 082
9/14/2018	3 1309	3 13%	3 03%	8/28/1981	13 01%	8/21/1981	14 142
9/13/2018	3 1071	3 11%	3 03%	8/31/1981	13 02%	8/24/1981	14 572
9/12/2018	3 1038	3 10%	3 03%	9/1/1981	13 03%	8/25/1981	14 612
9/11/2018	3 1185	3 12%	3 02%	9/2/1981	13 05%	8/26/1981	14 602
9/10/2018	3 081	3 08%	3 02%	9/3/1981	13 06%	8/27/1981	14 592
9/7/2018	3 1014	3 10%	3 02%	9/4/1981	13 07%	8/28/1981	14 492
9/6/2018	3 0527	3 05%	3 02%	9/8/1981	13 09%	8/31/1981	14 782
9/5/2018	3 0753	3 08%	3 02%	9/9/1981	13 10%	9/1/1981	14 702
9/4/2018	3 0616	3 06%	3 02%	9/10/1981	13 11%	9/2/1981	14 702
9/3/2018	3 0191	3 02%	3 02%	9/11/1981	13 12%	9/3/1981	14 822

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
8/31/2018	3 0191	3 02%	3 01%	9/14/1981	13 13%	9/4/1981	14 842
8/30/2018	3 0031	3 00%	3 01%	9/15/1981	13 14%	9/8/1981	14 992
8/29/2018	3 0207	3 02%	3 01%	9/16/1981	13 15%	9/9/1981	14 732
8/28/2018	3 0303	3 03%	3 01%	9/17/1981	13 16%	9/10/1981	14 682
8/27/2018	2 9936	2 99%	3 01%	9/18/1981	13 17%	9/11/1981	14 492
8/24/2018	2 9589	2 96%	3 01%	9/21/1981	13 18%	9/14/1981	14 512
8/23/2018	2 9802	2 98%	3 01%	9/22/1981	13 19%	9/15/1981	14 442
8/22/2018	2 9841	2 98%	3 01%	9/23/1981	13 20%	9/16/1981	14 422
8/21/2018	2 9928	2 99%	3 00%	9/24/1981	13 21%	9/17/1981	14 262
8/20/2018	2 9849	2 98%	3 00%	9/25/1981	13 22%	9/18/1981	14 222
8/17/2018	3 0199	3 02%	3 00%	9/28/1981	13 23%	9/21/1981	14 092
8/16/2018	3 0255	3 03%	3 00%	9/29/1981	13 24%	9/22/1981	14 332
8/15/2018	3 0319	3 03%	3 00%	9/30/1981	13 25%	9/23/1981	14 612
8/14/2018	3 0672	3 07%	3 00%	10/1/1981	13 26%	9/24/1981	14 692
8/13/2018	3 0471	3 05%	3 00%	10/2/1981	13 28%	9/25/1981	15 082
8/10/2018	3 0303	3 03%	3 00%	10/5/1981	13 29%	9/28/1981	15 012
8/9/2018	3 0717	3 07%	3 00%	10/6/1981	13 30%	9/29/1981	15 202
8/8/2018	3 1103	3 11%	2 99%	10/7/1981	13 31%	9/30/1981	15 192
8/7/2018	3 1176	3 12%	2 99%	10/8/1981	13 32%	10/1/1981	15 142
8/6/2018	3 0894	3 09%	2 99%	10/9/1981	13 34%	10/2/1981	14 802
8/3/2018	3 0886	3 09%	2 99%	10/13/1981	13 35%	10/5/1981	14 622
8/2/2018	3 1184	3 12%	2 99%	10/14/1981	13 36%	10/6/1981	14 602
8/1/2018	3 1321	3 13%	2 99%	10/15/1981	13 37%	10/7/1981	14 542
7/31/2018	3 0822	3 08%	2 99%	10/16/1981	13 39%	10/8/1981	14 442
7/30/2018	3 1047	3 10%	2 99%	10/19/1981	13 40%	10/9/1981	14 262
7/27/2018	3 0822	3 08%	2 99%	10/20/1981	13 41%	10/13/1981	14 362
7/26/2018	3 0998	3 10%	2 99%	10/21/1981	13 43%	10/14/1981	14 482
7/25/2018	3 1031	3 10%	2 98%	10/22/1981	13 45%	10/15/1981	14 392
7/24/2018	3 0758	3 08%	2 98%	10/23/1981	13 46%	10/16/1981	14 552
7/23/2018	3 091	3 09%	2 98%	10/26/1981	13 48%	10/19/1981	14 522
7/20/2018	3 0258	3 03%	2 98%	10/27/1981	13 49%	10/20/1981	14 662
7/19/2018	2 9585	2 96%	2 98%	10/28/1981	13 51%	10/21/1981	14 942
7/18/2018	2 9857	2 99%	2 98%	10/29/1981	13 52%	10/22/1981	14 912
7/17/2018	2 9694	2 97%	2 98%	10/30/1981	13 53%	10/23/1981	14 812
7/16/2018	2 9616	2 96%	2 98%	11/2/1981	13 54%	10/26/1981	15 212
7/13/2018	2 9315	2 93%	2 98%	11/4/1981	13 55%	10/27/1981	15 092
7/12/2018	2 9462	2 95%	2 98%	11/5/1981	13 56%	10/28/1981	15 032
7/11/2018	2 9524	2 95%	2 98%	11/6/1981	13 57%	10/29/1981	14 662
7/10/2018	2 9555	2 96%	2 98%	11/9/1981	13 57%	10/30/1981	14 362
7/9/2018	2 964	2 96%	2 98%	11/10/1981	13 58%	11/2/1981	14 412
7/6/2018	2 9293	2 93%	2 98%	11/12/1981	13 58%	11/4/1981	13 962
7/5/2018	2 9447	2 94%	2 98%	11/13/1981	13 59%	11/5/1981	14 062
7/4/2018	2 9586	2 96%	2 97%	11/16/1981	13 59%	11/6/1981	13 852
7/3/2018	2 9586	2 96%	2 97%	11/17/1981	13 60%	11/9/1981	13 562
7/2/2018	2 9929	2 99%	2 97%	11/18/1981	13 60%	11/10/1981	13 552
6/29/2018	2 989	2 99%	2 97%	11/19/1981	13 60%	11/12/1981	13 212
6/28/2018	2 9657	2 97%	2 97%	11/20/1981	13 61%	11/13/1981	13 262
6/27/2018	2 9673	2 97%	2 97%	11/23/1981	13 61%	11/16/1981	13 112
6/26/2018	3 0251	3 03%	2 97%	11/24/1981	13 61%	11/17/1981	13 252
6/25/2018	3 0244	3 02%	2 97%	11/25/1981	13 61%	11/18/1981	13 052
6/22/2018	3 0394	3 04%	2 97%	11/27/1981	13 61%	11/19/1981	13 092
6/21/2018	3 0441	3 04%	2 97%	11/30/1981	13 61%	11/20/1981	13 082
6/20/2018	3 0775	3 08%	2 97%	12/1/1981	13 61%	11/23/1981	13 382
6/19/2018	3 0323	3 03%	2 96%	12/2/1981	13 61%	11/24/1981	13 032
6/18/2018	3 0489	3 05%	2 96%	12/3/1981	13 61%	11/25/1981	12 832
6/15/2018	3 0465	3 05%	2 96%	12/4/1981	13 61%	11/27/1981	12 762
6/14/2018	3 0545	3 05%	2 96%	12/7/1981	13 62%	11/30/1981	12 912
6/13/2018	3 0863	3 09%	2 96%	12/8/1981	13 62%	12/1/1981	13 062
6/12/2018	3 0935	3 09%	2 96%	12/9/1981	13 62%	12/2/1981	13 212
6/11/2018	3 0936	3 09%	2 95%	12/10/1981	13 63%	12/3/1981	13 162
6/8/2018	3 0896	3 09%	2 95%	12/11/1981	13 63%	12/4/1981	12 892
6/7/2018	3 068	3 07%	2 95%	12/14/1981	13 63%	12/7/1981	13 262
6/6/2018	3 1217	3 12%	2 95%	12/15/1981	13 63%	12/8/1981	13 242
6/5/2018	3 084	3 08%	2 95%	12/16/1981	13 63%	12/9/1981	13 392
6/4/2018	3 0848	3 08%	2 94%	12/17/1981	13 64%	12/10/1981	13 582
6/1/2018	3 0506	3 05%	2 94%	12/18/1981	13 64%	12/11/1981	13 552
5/31/2018	3 0253	3 03%	2 94%	12/21/1981	13 64%	12/14/1981	13 342
5/30/2018	3 0269	3 03%	2 94%	12/22/1981	13 64%	12/15/1981	13 302
5/29/2018	2 9745	2 97%	2 94%	12/23/1981	13 65%	12/16/1981	13 322
5/28/2018	3 092	3 09%	2 94%	12/24/1981	13 66%	12/17/1981	13 482
5/25/2018	3 092	3 09%	2 94%	12/28/1981	13 66%	12/18/1981	13 302
5/24/2018	3 125	3 13%	2 93%	12/29/1981	13 67%	12/21/1981	13 552
5/23/2018	3 1517	3 15%	2 93%	12/30/1981	13 67%	12/22/1981	13 652
5/22/2018	3 2048	3 20%	2 93%	12/31/1981	13 68%	12/23/1981	13 852
5/21/2018	3 2015	3 20%	2 93%	1/5/1982	13 69%	12/24/1981	13 762

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
5/18/2018	3 1974	3 20%	2 93%	1/6/1982	13 70%	12/28/1981	13 722
5/17/2018	3 2462	3 25%	2 93%	1/7/1982	13 71%	12/29/1981	13 882
5/16/2018	3 2172	3 22%	2 92%	1/8/1982	13 72%	12/30/1981	13 862
5/15/2018	3 2007	3 20%	2 92%	1/11/1982	13 73%	12/31/1981	13 652
5/14/2018	3 1347	3 13%	2 92%	1/12/1982	13 74%	1/5/1982	14 142
5/11/2018	3 1041	3 10%	2 92%	1/13/1982	13 74%	1/6/1982	14 282
5/10/2018	3 1082	3 11%	2 92%	1/14/1982	13 75%	1/7/1982	14 322
5/9/2018	3 1618	3 16%	2 91%	1/15/1982	13 76%	1/8/1982	14 132
5/8/2018	3 1295	3 13%	2 91%	1/18/1982	13 77%	1/11/1982	14 432
5/7/2018	3 1229	3 12%	2 91%	1/19/1982	13 78%	1/12/1982	14 272
5/4/2018	3 1221	3 12%	2 91%	1/20/1982	13 78%	1/13/1982	14 472
5/3/2018	3 1213	3 12%	2 91%	1/21/1982	13 79%	1/14/1982	14 312
5/2/2018	3 146	3 15%	2 91%	1/22/1982	13 80%	1/15/1982	14 412
5/1/2018	3 1287	3 13%	2 91%	1/25/1982	13 80%	1/18/1982	14 272
4/30/2018	3 1237	3 12%	2 91%	1/26/1982	13 81%	1/19/1982	14 362
4/27/2018	3 1245	3 12%	2 90%	1/27/1982	13 81%	1/20/1982	14 322
4/26/2018	3 1642	3 16%	2 90%	1/28/1982	13 82%	1/21/1982	14 212
4/25/2018	3 2068	3 21%	2 90%	1/29/1982	13 82%	1/22/1982	14 242
4/24/2018	3 1825	3 18%	2 90%	2/1/1982	13 83%	1/25/1982	14 202
4/23/2018	3 1443	3 14%	2 90%	2/2/1982	13 83%	1/26/1982	14 192
4/20/2018	3 1451	3 15%	2 90%	2/3/1982	13 84%	1/27/1982	14 172
4/19/2018	3 0983	3 10%	2 89%	2/4/1982	13 84%	1/28/1982	13 982
4/18/2018	3 0601	3 06%	2 89%	2/5/1982	13 85%	1/29/1982	13 912
4/17/2018	3 0198	3 02%	2 89%	2/8/1982	13 86%	2/1/1982	14 332
4/16/2018	3 0246	3 02%	2 89%	2/9/1982	13 87%	2/2/1982	14 262
4/13/2018	3 027	3 03%	2 89%	2/10/1982	13 87%	2/3/1982	14 412
4/12/2018	3 0431	3 04%	2 89%	2/11/1982	13 88%	2/4/1982	14 542
4/11/2018	2 9951	3 00%	2 89%	2/16/1982	13 88%	2/5/1982	14 432
4/10/2018	3 0214	3 02%	2 89%	2/17/1982	13 89%	2/8/1982	14 742
4/9/2018	3 0118	3 01%	2 89%	2/18/1982	13 89%	2/9/1982	14 802
4/6/2018	3 0182	3 02%	2 89%	2/19/1982	13 89%	2/10/1982	14 642
4/5/2018	3 073	3 07%	2 89%	2/22/1982	13 89%	2/11/1982	14 542
4/4/2018	3 0359	3 04%	2 89%	2/23/1982	13 89%	2/16/1982	14 332
4/3/2018	3 011	3 01%	2 89%	2/24/1982	13 89%	2/17/1982	14 302
4/2/2018	2 9619	2 96%	2 88%	2/25/1982	13 89%	2/18/1982	14 062
3/30/2018	2 9737	2 97%	2 88%	2/26/1982	13 89%	2/19/1982	14 022
3/29/2018	2 9737	2 97%	2 88%	3/1/1982	13 89%	2/22/1982	13 652
3/28/2018	3 0214	3 02%	2 88%	3/2/1982	13 89%	2/23/1982	13 732
3/27/2018	3 0286	3 03%	2 88%	3/3/1982	13 88%	2/24/1982	13 622
3/26/2018	3 0859	3 09%	2 88%	3/4/1982	13 88%	2/25/1982	13 722
3/23/2018	3 0608	3 06%	2 88%	3/5/1982	13 88%	2/26/1982	13 832
3/22/2018	3 0624	3 06%	2 87%	3/8/1982	13 88%	3/1/1982	13 632
3/21/2018	3 1186	3 12%	2 87%	3/9/1982	13 88%	3/2/1982	13 442
3/20/2018	3 1301	3 13%	2 87%	3/10/1982	13 88%	3/3/1982	13 392
3/19/2018	3 0859	3 09%	2 87%	3/11/1982	13 88%	3/4/1982	13 352
3/16/2018	3 077	3 08%	2 87%	3/12/1982	13 88%	3/5/1982	13 352
3/15/2018	3 0584	3 06%	2 87%	3/15/1982	13 88%	3/8/1982	13 492
3/14/2018	3 0568	3 06%	2 87%	3/16/1982	13 88%	3/9/1982	13 432
3/13/2018	3 0981	3 10%	2 87%	3/17/1982	13 88%	3/10/1982	13 502
3/12/2018	3 1292	3 13%	2 86%	3/18/1982	13 89%	3/11/1982	13 652
3/9/2018	3 158	3 16%	2 86%	3/19/1982	13 89%	3/12/1982	13 652
3/8/2018	3 1218	3 12%	2 86%	3/22/1982	13 89%	3/15/1982	13 562
3/7/2018	3 1498	3 15%	2 86%	3/23/1982	13 89%	3/16/1982	13 572
3/6/2018	3 1531	3 15%	2 86%	3/24/1982	13 89%	3/17/1982	13 522
3/5/2018	3 1531	3 15%	2 86%	3/25/1982	13 90%	3/18/1982	13 512
3/2/2018	3 1398	3 14%	2 86%	3/26/1982	13 90%	3/19/1982	13 562
3/1/2018	3 0834	3 08%	2 85%	3/29/1982	13 90%	3/22/1982	13 372
2/28/2018	3 1242	3 12%	2 85%	3/30/1982	13 91%	3/23/1982	13 362
2/27/2018	3 1588	3 16%	2 85%	3/31/1982	13 91%	3/24/1982	13 512
2/26/2018	3 153	3 15%	2 85%	4/1/1982	13 92%	3/25/1982	13 492
2/23/2018	3 1555	3 16%	2 85%	4/2/1982	13 92%	3/26/1982	13 652
2/22/2018	3 2062	3 21%	2 85%	4/5/1982	13 93%	3/29/1982	13 792
2/21/2018	3 2204	3 22%	2 85%	4/6/1982	13 93%	3/30/1982	13 812
2/20/2018	3 153	3 15%	2 85%	4/7/1982	13 94%	3/31/1982	13 682
2/19/2018	3 1316	3 13%	2 84%	4/8/1982	13 94%	4/1/1982	13 602
2/16/2018	3 1316	3 13%	2 84%	4/12/1982	13 94%	4/2/1982	13 612
2/15/2018	3 1637	3 16%	2 84%	4/13/1982	13 94%	4/5/1982	13 722
2/14/2018	3 162	3 16%	2 84%	4/14/1982	13 95%	4/6/1982	13 732
2/13/2018	3 1111	3 11%	2 84%	4/15/1982	13 95%	4/7/1982	13 712
2/12/2018	3 1439	3 14%	2 84%	4/16/1982	13 95%	4/8/1982	13 482
2/9/2018	3 1596	3 16%	2 84%	4/19/1982	13 95%	4/12/1982	13 302
2/8/2018	3 1293	3 13%	2 84%	4/20/1982	13 95%	4/13/1982	13 322
2/7/2018	3 1139	3 11%	2 84%	4/21/1982	13 95%	4/14/1982	13 422
2/6/2018	3 0659	3 07%	2 84%	4/22/1982	13 95%	4/15/1982	13 322
2/5/2018	3 006	3 01%	2 84%	4/23/1982	13 94%	4/16/1982	13 182

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
2/2/2018	3 0868	3 09%	2 84%	4/26/1982	13 94%	4/19/1982	13 132
2/1/2018	3 0241	3 02%	2 84%	4/27/1982	13 94%	4/20/1982	13 212
1/31/2018	2 9348	2 93%	2 84%	4/28/1982	13 94%	4/21/1982	13 222
1/30/2018	2 9706	2 97%	2 84%	4/29/1982	13 94%	4/22/1982	13 192
1/29/2018	2 9421	2 94%	2 84%	4/30/1982	13 94%	4/23/1982	13 182
1/26/2018	2 9114	2 91%	2 84%	5/3/1982	13 94%	4/26/1982	13 162
1/25/2018	2 8809	2 88%	2 84%	5/4/1982	13 94%	4/27/1982	13 192
1/24/2018	2 9283	2 93%	2 84%	5/5/1982	13 94%	4/28/1982	13 272
1/23/2018	2 8945	2 89%	2 84%	5/6/1982	13 94%	4/29/1982	13 382
1/22/2018	2 913	2 91%	2 84%	5/7/1982	13 94%	4/30/1982	13 392
1/19/2018	2 9331	2 93%	2 84%	5/10/1982	13 94%	5/3/1982	13 452
1/18/2018	2 9033	2 90%	2 84%	5/11/1982	13 93%	5/4/1982	13 372
1/17/2018	2 857	2 86%	2 84%	5/12/1982	13 93%	5/5/1982	13 342
1/16/2018	2 8254	2 83%	2 84%	5/13/1982	13 93%	5/6/1982	13 132
1/15/2018	2 8491	2 85%	2 84%	5/14/1982	13 92%	5/7/1982	13 082
1/12/2018	2 8491	2 85%	2 84%	5/17/1982	13 92%	5/10/1982	13 132
1/11/2018	2 8673	2 87%	2 84%	5/18/1982	13 92%	5/11/1982	13 082
1/10/2018	2 8984	2 90%	2 84%	5/19/1982	13 92%	5/12/1982	13 232
1/9/2018	2 8952	2 90%	2 84%	5/20/1982	13 91%	5/13/1982	13 252
1/8/2018	2 8113	2 81%	2 84%	5/21/1982	13 91%	5/14/1982	13 172
1/5/2018	2 8105	2 81%	2 84%	5/24/1982	13 90%	5/17/1982	13 292
1/4/2018	2 7863	2 79%	2 84%	5/25/1982	13 90%	5/18/1982	13 262
1/3/2018	2 7855	2 79%	2 84%	5/26/1982	13 89%	5/19/1982	13 302
1/2/2018	2 8136	2 81%	2 84%	5/27/1982	13 89%	5/20/1982	13 172
1/1/2018	2 7399	2 74%	2 84%	5/28/1982	13 89%	5/21/1982	13 172
12/29/2017	2 7399	2 74%	2 85%	6/1/1982	13 89%	5/24/1982	13 192
12/28/2017	2 7561	2 76%	2 85%	6/2/1982	13 89%	5/25/1982	13 502
12/27/2017	2 7461	2 75%	2 85%	6/3/1982	13 89%	5/26/1982	13 292
12/26/2017	2 8246	2 82%	2 85%	6/4/1982	13 88%	5/27/1982	13 362
12/25/2017	2 8309	2 83%	2 85%	6/7/1982	13 88%	5/28/1982	13 392
12/22/2017	2 8309	2 83%	2 85%	6/8/1982	13 88%	6/1/1982	13 662
12/21/2017	2 8419	2 84%	2 85%	6/9/1982	13 88%	6/2/1982	13 602
12/20/2017	2 8767	2 88%	2 85%	6/10/1982	13 88%	6/3/1982	13 662
12/19/2017	2 8198	2 82%	2 86%	6/11/1982	13 88%	6/4/1982	13 762
12/18/2017	2 7407	2 74%	2 86%	6/14/1982	13 88%	6/7/1982	13 662
12/15/2017	2 6873	2 69%	2 86%	6/15/1982	13 87%	6/8/1982	13 712
12/14/2017	2 7063	2 71%	2 86%	6/16/1982	13 87%	6/9/1982	13 712
12/13/2017	2 7269	2 73%	2 86%	6/17/1982	13 87%	6/10/1982	13 722
12/12/2017	2 7762	2 78%	2 87%	6/18/1982	13 86%	6/11/1982	13 612
12/11/2017	2 7762	2 78%	2 87%	6/21/1982	13 86%	6/14/1982	13 892
12/8/2017	2 7685	2 77%	2 87%	6/22/1982	13 86%	6/15/1982	13 872
12/7/2017	2 7607	2 76%	2 87%	6/23/1982	13 86%	6/16/1982	13 912
12/6/2017	2 73	2 73%	2 87%	6/24/1982	13 86%	6/17/1982	14 102
12/5/2017	2 7315	2 73%	2 88%	6/25/1982	13 85%	6/18/1982	14 192
12/4/2017	2 7638	2 76%	2 88%	6/28/1982	13 85%	6/21/1982	14 152
12/1/2017	2 7615	2 76%	2 88%	6/29/1982	13 85%	6/22/1982	14 212
11/30/2017	2 8269	2 83%	2 88%	6/30/1982	13 84%	6/23/1982	14 262
11/29/2017	2 8245	2 82%	2 88%	7/1/1982	13 84%	6/24/1982	14 202
11/28/2017	2 7577	2 76%	2 88%	7/2/1982	13 83%	6/25/1982	14 242
11/27/2017	2 7677	2 77%	2 88%	7/6/1982	13 83%	6/28/1982	14 192
11/24/2017	2 7638	2 76%	2 88%	7/7/1982	13 83%	6/29/1982	14 112
11/23/2017	2 7392	2 74%	2 89%	7/8/1982	13 83%	6/30/1982	13 912
11/22/2017	2 7392	2 74%	2 89%	7/9/1982	13 82%	7/1/1982	13 902
11/21/2017	2 7577	2 76%	2 89%	7/12/1982	13 82%	7/2/1982	14 032
11/20/2017	2 7801	2 78%	2 89%	7/13/1982	13 82%	7/6/1982	14 002
11/17/2017	2 7778	2 78%	2 89%	7/14/1982	13 81%	7/7/1982	13 902
11/16/2017	2 8268	2 83%	2 89%	7/15/1982	13 81%	7/8/1982	13 702
11/15/2017	2 7646	2 76%	2 89%	7/16/1982	13 80%	7/9/1982	13 572
11/14/2017	2 83	2 83%	2 89%	7/19/1982	13 79%	7/12/1982	13 462
11/13/2017	2 871	2 87%	2 90%	7/20/1982	13 78%	7/13/1982	13 612
11/10/2017	2 8797	2 88%	2 90%	7/21/1982	13 77%	7/14/1982	13 682
11/9/2017	2 8161	2 82%	2 90%	7/22/1982	13 76%	7/15/1982	13 572
11/8/2017	2 7918	2 79%	2 90%	7/23/1982	13 75%	7/16/1982	13 352
11/7/2017	2 777	2 78%	2 90%	7/26/1982	13 75%	7/19/1982	13 342
11/6/2017	2 7941	2 79%	2 90%	7/27/1982	13 74%	7/20/1982	13 242
11/3/2017	2 8129	2 81%	2 90%	7/28/1982	13 74%	7/21/1982	13 302
11/2/2017	2 8255	2 83%	2 90%	7/29/1982	13 73%	7/22/1982	13 202
11/1/2017	2 8579	2 86%	2 90%	7/30/1982	13 73%	7/23/1982	13 252
10/31/2017	2 8794	2 88%	2 91%	8/2/1982	13 72%	7/26/1982	13 482
10/30/2017	2 8802	2 88%	2 91%	8/3/1982	13 72%	7/27/1982	13 462
10/27/2017	2 9179	2 92%	2 91%	8/4/1982	13 71%	7/28/1982	13 602
10/26/2017	2 9714	2 97%	2 91%	8/5/1982	13 70%	7/29/1982	13 512
10/25/2017	2 9404	2 94%	2 91%	8/6/1982	13 70%	7/30/1982	13 422
10/24/2017	2 9331	2 93%	2 91%	8/9/1982	13 69%	8/2/1982	13 172
10/23/2017	2 8833	2 88%	2 91%	8/10/1982	13 69%	8/3/1982	13 272

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
10/20/2017	2 8969	2 90%	2 91%	8/11/1982	13 68%	8/4/1982	13 272
10/19/2017	2 8365	2 84%	2 91%	8/12/1982	13 67%	8/5/1982	13 292
10/18/2017	2 8562	2 86%	2 91%	8/13/1982	13 66%	8/6/1982	13 412
10/17/2017	2 8019	2 80%	2 91%	8/16/1982	13 65%	8/9/1982	13 312
10/16/2017	2 8231	2 82%	2 91%	8/17/1982	13 63%	8/10/1982	13 272
10/13/2017	2 805	2 81%	2 91%	8/18/1982	13 62%	8/11/1982	13 262
10/12/2017	2 8467	2 85%	2 91%	8/19/1982	13 61%	8/12/1982	13 152
10/11/2017	2 8824	2 88%	2 91%	8/20/1982	13 60%	8/13/1982	12 982
10/10/2017	2 8952	2 90%	2 92%	8/23/1982	13 59%	8/16/1982	12 802
10/9/2017	2 8936	2 89%	2 92%	8/24/1982	13 58%	8/17/1982	12 422
10/6/2017	2 8936	2 89%	2 92%	8/25/1982	13 57%	8/18/1982	12 592
10/5/2017	2 8904	2 89%	2 92%	8/26/1982	13 56%	8/19/1982	12 312
10/4/2017	2 8657	2 87%	2 92%	8/27/1982	13 56%	8/20/1982	12 142
10/3/2017	2 8641	2 86%	2 92%	8/30/1982	13 55%	8/23/1982	12 292
10/2/2017	2 8736	2 87%	2 92%	8/31/1982	13 55%	8/24/1982	12 162
9/29/2017	2 8601	2 86%	2 92%	9/1/1982	13 54%	8/25/1982	12 212
9/28/2017	2 8712	2 87%	2 92%	9/2/1982	13 54%	8/26/1982	12 312
9/27/2017	2 8625	2 86%	2 92%	9/3/1982	13 53%	8/27/1982	12 542
9/26/2017	2 7739	2 77%	2 93%	9/7/1982	13 53%	8/30/1982	12 542
9/25/2017	2 7615	2 76%	2 93%	9/8/1982	13 52%	8/31/1982	12 502
9/22/2017	2 7801	2 78%	2 93%	9/9/1982	13 52%	9/1/1982	12 412
9/21/2017	2 805	2 81%	2 93%	9/10/1982	13 52%	9/2/1982	12 302
9/20/2017	2 8081	2 81%	2 93%	9/13/1982	13 51%	9/3/1982	12 162
9/19/2017	2 8167	2 82%	2 93%	9/14/1982	13 51%	9/7/1982	12 192
9/18/2017	2 7987	2 80%	2 94%	9/15/1982	13 51%	9/8/1982	12 172
9/15/2017	2 77	2 77%	2 94%	9/16/1982	13 50%	9/9/1982	12 212
9/14/2017	2 7669	2 77%	2 94%	9/17/1982	13 50%	9/10/1982	12 412
9/13/2017	2 7863	2 79%	2 94%	9/20/1982	13 49%	9/13/1982	12 262
9/12/2017	2 7715	2 77%	2 94%	9/21/1982	13 48%	9/14/1982	12 242
9/11/2017	2 743	2 74%	2 94%	9/22/1982	13 48%	9/15/1982	12 252
9/8/2017	2 6692	2 67%	2 95%	9/23/1982	13 47%	9/16/1982	12 182
9/7/2017	2 6572	2 66%	2 95%	9/24/1982	13 47%	9/17/1982	12 122
9/6/2017	2 7224	2 72%	2 95%	9/27/1982	13 46%	9/20/1982	12 042
9/5/2017	2 6806	2 68%	2 95%	9/28/1982	13 45%	9/21/1982	11 822
9/4/2017	2 777	2 78%	2 95%	9/29/1982	13 44%	9/22/1982	11 832
9/1/2017	2 777	2 78%	2 96%	9/30/1982	13 43%	9/23/1982	11 752
8/31/2017	2 7262	2 73%	2 96%	10/1/1982	13 42%	9/24/1982	11 882
8/30/2017	2 7377	2 74%	2 96%	10/4/1982	13 42%	9/27/1982	11 822
8/29/2017	2 7384	2 74%	2 96%	10/5/1982	13 41%	9/28/1982	11 762
8/28/2017	2 7554	2 76%	2 96%	10/6/1982	13 40%	9/29/1982	11 792
8/25/2017	2 7469	2 75%	2 96%	10/7/1982	13 39%	9/30/1982	11 792
8/24/2017	2 7692	2 77%	2 96%	10/8/1982	13 38%	10/1/1982	11 652
8/23/2017	2 7461	2 75%	2 96%	10/12/1982	13 36%	10/4/1982	11 832
8/22/2017	2 7847	2 78%	2 97%	10/13/1982	13 35%	10/5/1982	11 812
8/21/2017	2 7631	2 76%	2 97%	10/14/1982	13 33%	10/6/1982	11 692
8/18/2017	2 7762	2 78%	2 97%	10/15/1982	13 32%	10/7/1982	11 292
8/17/2017	2 7739	2 77%	2 97%	10/18/1982	13 30%	10/8/1982	11 192
8/16/2017	2 8073	2 81%	2 97%	10/19/1982	13 29%	10/12/1982	10 852
8/15/2017	2 8488	2 85%	2 97%	10/20/1982	13 27%	10/13/1982	10 752
8/14/2017	2 8073	2 81%	2 97%	10/21/1982	13 25%	10/14/1982	10 862
8/11/2017	2 7855	2 79%	2 97%	10/22/1982	13 24%	10/15/1982	11 032
8/10/2017	2 7729	2 77%	2 97%	10/25/1982	13 22%	10/18/1982	10 902
8/9/2017	2 8222	2 82%	2 97%	10/26/1982	13 21%	10/19/1982	10 872
8/8/2017	2 8428	2 84%	2 97%	10/27/1982	13 19%	10/20/1982	10 912
8/7/2017	2 8336	2 83%	2 96%	10/28/1982	13 18%	10/21/1982	10 922
8/4/2017	2 842	2 84%	2 96%	10/29/1982	13 16%	10/22/1982	11 032
8/3/2017	2 7972	2 80%	2 96%	11/1/1982	13 14%	10/25/1982	11 252
8/2/2017	2 8559	2 86%	2 96%	11/3/1982	13 12%	10/26/1982	11 172
8/1/2017	2 8567	2 86%	2 96%	11/4/1982	13 10%	10/27/1982	11 232
7/31/2017	2 8999	2 90%	2 96%	11/5/1982	13 09%	10/28/1982	11 122
7/28/2017	2 8953	2 90%	2 96%	11/8/1982	13 07%	10/29/1982	11 012
7/27/2017	2 9194	2 92%	2 95%	11/9/1982	13 05%	11/1/1982	10 842
7/26/2017	2 8914	2 89%	2 95%	11/10/1982	13 03%	11/3/1982	10 722
7/25/2017	2 9171	2 92%	2 95%	11/12/1982	13 01%	11/4/1982	10 662
7/24/2017	2 8345	2 83%	2 95%	11/15/1982	12 99%	11/5/1982	10 592
7/21/2017	2 8087	2 81%	2 95%	11/16/1982	12 97%	11/8/1982	10 612
7/20/2017	2 8254	2 83%	2 94%	11/17/1982	12 96%	11/9/1982	10 442
7/19/2017	2 8514	2 85%	2 94%	11/18/1982	12 94%	11/10/1982	10 372
7/18/2017	2 8461	2 85%	2 94%	11/19/1982	12 92%	11/12/1982	10 432
7/17/2017	2 9039	2 90%	2 94%	11/22/1982	12 90%	11/15/1982	10 522
7/14/2017	2 9195	2 92%	2 94%	11/23/1982	12 88%	11/16/1982	10 602
7/13/2017	2 9172	2 92%	2 94%	11/24/1982	12 86%	11/17/1982	10 542
7/12/2017	2 8838	2 88%	2 93%	11/26/1982	12 84%	11/18/1982	10 332
7/11/2017	2 9234	2 92%	2 93%	11/29/1982	12 82%	11/19/1982	10 352
7/10/2017	2 9265	2 93%	2 93%	11/30/1982	12 80%	11/22/1982	10 432

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
7/7/2017	2 9289	2 93%	2 93%	12/1/1982	12 78%	11/23/1982	10 462
7/6/2017	2 9016	2 90%	2 92%	12/2/1982	12 76%	11/24/1982	10 522
7/5/2017	2 8469	2 85%	2 92%	12/3/1982	12 74%	11/26/1982	10 472
7/4/2017	2 8669	2 87%	2 92%	12/6/1982	12 72%	11/29/1982	10 722
7/3/2017	2 8669	2 87%	2 91%	12/7/1982	12 70%	11/30/1982	10 702
6/30/2017	2 8348	2 83%	2 91%	12/8/1982	12 69%	12/1/1982	10 692
6/29/2017	2 8135	2 81%	2 91%	12/9/1982	12 67%	12/2/1982	10 632
6/28/2017	2 781	2 78%	2 91%	12/10/1982	12 66%	12/3/1982	10 442
6/27/2017	2 7518	2 75%	2 90%	12/13/1982	12 64%	12/6/1982	10 412
6/26/2017	2 697	2 70%	2 90%	12/14/1982	12 62%	12/7/1982	10 452
6/23/2017	2 7155	2 72%	2 90%	12/15/1982	12 61%	12/8/1982	10 542
6/22/2017	2 7163	2 72%	2 90%	12/16/1982	12 59%	12/9/1982	10 522
6/21/2017	2 7274	2 73%	2 90%	12/17/1982	12 58%	12/10/1982	10 632
6/20/2017	2 7385	2 74%	2 90%	12/20/1982	12 57%	12/13/1982	10 572
6/19/2017	2 7849	2 78%	2 90%	12/21/1982	12 55%	12/14/1982	10 482
6/16/2017	2 7752	2 78%	2 89%	12/22/1982	12 54%	12/15/1982	10 552
6/15/2017	2 7872	2 79%	2 89%	12/23/1982	12 52%	12/16/1982	10 662
6/14/2017	2 7692	2 77%	2 89%	12/27/1982	12 51%	12/17/1982	10 692
6/13/2017	2 8648	2 86%	2 89%	12/28/1982	12 49%	12/20/1982	10 772
6/12/2017	2 8694	2 87%	2 88%	12/29/1982	12 48%	12/21/1982	10 532
6/9/2017	2 8556	2 86%	2 88%	12/30/1982	12 46%	12/22/1982	10 552
6/8/2017	2 851	2 85%	2 88%	12/31/1982	12 44%	12/23/1982	10 502
6/7/2017	2 8366	2 84%	2 88%	1/3/1983	12 43%	12/27/1982	10 442
6/6/2017	2 8115	2 81%	2 87%	1/4/1983	12 41%	12/28/1982	10 432
6/5/2017	2 8366	2 84%	2 87%	1/5/1983	12 40%	12/29/1982	10 492
6/2/2017	2 81	2 81%	2 87%	1/6/1983	12 38%	12/30/1982	10 462
6/1/2017	2 8626	2 86%	2 86%	1/7/1983	12 37%	12/31/1982	10 432
5/31/2017	2 8634	2 86%	2 86%	1/10/1983	12 35%	1/3/1983	10 392
5/30/2017	2 8772	2 88%	2 86%	1/11/1983	12 34%	1/4/1983	10 452
5/29/2017	2 912	2 91%	2 85%	1/12/1983	12 32%	1/5/1983	10 472
5/26/2017	2 912	2 91%	2 85%	1/13/1983	12 31%	1/6/1983	10 502
5/25/2017	2 9206	2 92%	2 85%	1/14/1983	12 29%	1/7/1983	10 502
5/24/2017	2 9245	2 92%	2 84%	1/17/1983	12 27%	1/10/1983	10 512
5/23/2017	2 9432	2 94%	2 84%	1/18/1983	12 26%	1/11/1983	10 482
5/22/2017	2 9136	2 91%	2 84%	1/19/1983	12 24%	1/12/1983	10 462
5/19/2017	2 8966	2 90%	2 83%	1/20/1983	12 23%	1/13/1983	10 452
5/18/2017	2 9005	2 90%	2 83%	1/21/1983	12 21%	1/14/1983	10 502
5/17/2017	2 916	2 92%	2 83%	1/24/1983	12 20%	1/17/1983	10 502
5/16/2017	2 9921	2 99%	2 82%	1/25/1983	12 19%	1/18/1983	10 562
5/15/2017	3 0064	3 01%	2 82%	1/26/1983	12 17%	1/19/1983	10 672
5/12/2017	2 9889	2 99%	2 82%	1/27/1983	12 16%	1/20/1983	10 662
5/11/2017	3 0255	3 03%	2 81%	1/28/1983	12 15%	1/21/1983	10 782
5/10/2017	3 0407	3 04%	2 81%	1/31/1983	12 14%	1/24/1983	10 882
5/9/2017	3 0271	3 03%	2 81%	2/1/1983	12 13%	1/25/1983	10 822
5/8/2017	3 0222	3 02%	2 80%	2/2/1983	12 11%	1/26/1983	10 922
5/5/2017	2 9832	2 98%	2 80%	2/3/1983	12 10%	1/27/1983	10 852
5/4/2017	2 9983	3 00%	2 80%	2/4/1983	12 09%	1/28/1983	10 902
5/3/2017	2 9681	2 97%	2 79%	2/7/1983	12 08%	1/31/1983	10 992
5/2/2017	2 9689	2 97%	2 79%	2/8/1983	12 07%	2/1/1983	10 952
5/1/2017	3 0023	3 00%	2 78%	2/9/1983	12 06%	2/2/1983	10 942
4/28/2017	2 9508	2 95%	2 78%	2/10/1983	12 05%	2/3/1983	11 062
4/27/2017	2 9642	2 96%	2 78%	2/11/1983	12 04%	2/4/1983	11 122
4/26/2017	2 9602	2 96%	2 77%	2/14/1983	12 03%	2/7/1983	11 102
4/25/2017	2 9879	2 99%	2 77%	2/15/1983	12 02%	2/8/1983	11 122
4/24/2017	2 9288	2 93%	2 77%	2/16/1983	12 00%	2/9/1983	11 142
4/21/2017	2 9015	2 90%	2 76%	2/17/1983	11 99%	2/10/1983	10 962
4/20/2017	2 8822	2 88%	2 76%	2/18/1983	11 98%	2/11/1983	10 942
4/19/2017	2 8729	2 87%	2 76%	2/22/1983	11 96%	2/14/1983	10 952
4/18/2017	2 8354	2 84%	2 75%	2/23/1983	11 95%	2/15/1983	10 992
4/17/2017	2 9094	2 91%	2 75%	2/24/1983	11 94%	2/16/1983	10 952
4/14/2017	2 8923	2 89%	2 75%	2/25/1983	11 93%	2/17/1983	10 862
4/13/2017	2 8923	2 89%	2 74%	2/28/1983	11 91%	2/18/1983	10 782
4/12/2017	2 8861	2 89%	2 74%	3/1/1983	11 90%	2/22/1983	10 632
4/11/2017	2 9289	2 93%	2 74%	3/2/1983	11 89%	2/23/1983	10 622
4/10/2017	2 9903	2 99%	2 73%	3/3/1983	11 87%	2/24/1983	10 612
4/7/2017	3 0078	3 01%	2 73%	3/4/1983	11 86%	2/25/1983	10 502
4/6/2017	2 9864	2 99%	2 72%	3/7/1983	11 84%	2/28/1983	10 512
4/5/2017	2 9856	2 99%	2 72%	3/8/1983	11 83%	3/1/1983	10 452
4/4/2017	2 9999	3 00%	2 72%	3/9/1983	11 82%	3/2/1983	10 482
4/3/2017	2 9532	2 95%	2 71%	3/10/1983	11 81%	3/3/1983	10 442
3/31/2017	3 0095	3 01%	2 71%	3/11/1983	11 79%	3/4/1983	10 462
3/30/2017	3 0343	3 03%	2 71%	3/14/1983	11 78%	3/7/1983	10 592
3/29/2017	2 9856	2 99%	2 70%	3/15/1983	11 76%	3/8/1983	10 652
3/28/2017	3 0246	3 02%	2 70%	3/16/1983	11 75%	3/9/1983	10 642
3/27/2017	2 9848	2 98%	2 70%	3/17/1983	11 74%	3/10/1983	10 672

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
3/24/2017	3 0134	3 01%	2 70%	3/18/1983	11 72%	3/11/1983	10 752
3/23/2017	3 0294	3 03%	2 69%	3/21/1983	11 71%	3/14/1983	10 662
3/22/2017	3 0174	3 02%	2 69%	3/22/1983	11 69%	3/15/1983	10 622
3/21/2017	3 0343	3 03%	2 69%	3/23/1983	11 68%	3/16/1983	10 682
3/20/2017	3 0077	3 08%	2 68%	3/24/1983	11 66%	3/17/1983	10 682
3/17/2017	3 1096	3 11%	2 68%	3/25/1983	11 65%	3/18/1983	10 712
3/16/2017	3 1506	3 15%	2 68%	3/28/1983	11 63%	3/21/1983	10 712
3/15/2017	3 1071	3 11%	2 67%	3/29/1983	11 62%	3/22/1983	10 712
3/14/2017	3 1747	3 17%	2 67%	3/30/1983	11 60%	3/23/1983	10 642
3/13/2017	3 2122	3 21%	2 67%	3/31/1983	11 58%	3/24/1983	10 612
3/10/2017	3 1647	3 16%	2 66%	4/4/1983	11 57%	3/25/1983	10 702
3/9/2017	3 1888	3 19%	2 66%	4/5/1983	11 55%	3/28/1983	10 712
3/8/2017	3 1489	3 15%	2 66%	4/6/1983	11 53%	3/29/1983	10 662
3/7/2017	3 121	3 12%	2 65%	4/7/1983	11 51%	3/30/1983	10 652
3/6/2017	3 1046	3 10%	2 65%	4/8/1983	11 49%	3/31/1983	10 692
3/3/2017	3 0713	3 07%	2 65%	4/11/1983	11 48%	4/4/1983	10 672
3/2/2017	3 0729	3 07%	2 65%	4/12/1983	11 46%	4/5/1983	10 552
3/1/2017	3 0608	3 06%	2 64%	4/13/1983	11 44%	4/6/1983	10 542
2/28/2017	2 9952	3 00%	2 64%	4/14/1983	11 42%	4/7/1983	10 562
2/27/2017	2 9833	2 98%	2 64%	4/15/1983	11 40%	4/8/1983	10 582
2/24/2017	2 951	2 95%	2 64%	4/18/1983	11 38%	4/11/1983	10 462
2/23/2017	3 0127	3 01%	2 64%	4/19/1983	11 36%	4/12/1983	10 462
2/22/2017	3 0327	3 03%	2 64%	4/20/1983	11 35%	4/13/1983	10 442
2/21/2017	3 0407	3 04%	2 63%	4/21/1983	11 33%	4/14/1983	10 372
2/20/2017	3 0231	3 02%	2 63%	4/22/1983	11 31%	4/15/1983	10 402
2/17/2017	3 0231	3 02%	2 63%	4/25/1983	11 30%	4/18/1983	10 352
2/16/2017	3 0487	3 05%	2 63%	4/26/1983	11 28%	4/19/1983	10 462
2/15/2017	3 0777	3 08%	2 62%	4/27/1983	11 27%	4/20/1983	10 482
2/14/2017	3 0584	3 06%	2 62%	4/28/1983	11 25%	4/21/1983	10 532
2/13/2017	3 0319	3 03%	2 62%	4/29/1983	11 23%	4/22/1983	10 522
2/10/2017	3 0056	3 01%	2 62%	5/2/1983	11 22%	4/25/1983	10 482
2/9/2017	3 0041	3 00%	2 62%	5/3/1983	11 20%	4/26/1983	10 472
2/8/2017	2 9485	2 95%	2 61%	5/4/1983	11 19%	4/27/1983	10 432
2/7/2017	3 0179	3 02%	2 61%	5/5/1983	11 17%	4/28/1983	10 412
2/6/2017	3 0473	3 05%	2 61%	5/6/1983	11 16%	4/29/1983	10 382
2/3/2017	3 0902	3 09%	2 61%	5/9/1983	11 14%	5/2/1983	10 392
2/2/2017	3 0877	3 09%	2 61%	5/10/1983	11 13%	5/3/1983	10 382
2/1/2017	3 0753	3 08%	2 60%	5/11/1983	11 11%	5/4/1983	10 272
1/31/2017	3 0612	3 06%	2 60%	5/12/1983	11 10%	5/5/1983	10 302
1/30/2017	3 0785	3 08%	2 60%	5/13/1983	11 08%	5/6/1983	10 282
1/27/2017	3 0588	3 06%	2 60%	5/16/1983	11 06%	5/9/1983	10 372
1/26/2017	3 0851	3 09%	2 60%	5/17/1983	11 05%	5/10/1983	10 302
1/25/2017	3 0967	3 10%	2 60%	5/18/1983	11 04%	5/11/1983	10 332
1/24/2017	3 0489	3 05%	2 59%	5/19/1983	11 02%	5/12/1983	10 402
1/23/2017	2 9862	2 99%	2 59%	5/20/1983	11 01%	5/13/1983	10 372
1/20/2017	3 0488	3 05%	2 59%	5/23/1983	11 00%	5/16/1983	10 542
1/19/2017	3 0463	3 05%	2 59%	5/24/1983	10 99%	5/17/1983	10 582
1/18/2017	3 0129	3 01%	2 58%	5/25/1983	10 97%	5/18/1983	10 602
1/17/2017	2 9317	2 93%	2 58%	5/26/1983	10 96%	5/19/1983	10 672
1/16/2017	2 9886	2 99%	2 58%	5/27/1983	10 95%	5/20/1983	10 692
1/13/2017	2 9886	2 99%	2 58%	5/31/1983	10 94%	5/23/1983	10 712
1/12/2017	2 9604	2 96%	2 58%	6/1/1983	10 93%	5/24/1983	10 692
1/11/2017	2 9556	2 96%	2 57%	6/2/1983	10 92%	5/25/1983	10 712
1/10/2017	2 9676	2 97%	2 57%	6/3/1983	10 91%	5/26/1983	10 762
1/9/2017	2 958	2 96%	2 57%	6/6/1983	10 90%	5/27/1983	10 782
1/6/2017	3 0088	3 01%	2 57%	6/7/1983	10 89%	5/31/1983	10 955
1/5/2017	2 9444	2 94%	2 57%	6/8/1983	10 89%	6/1/1983	10 873
1/4/2017	3 0397	3 04%	2 56%	6/9/1983	10 88%	6/2/1983	10 91
1/3/2017	3 0462	3 05%	2 56%	6/10/1983	10 87%	6/3/1983	10 94
1/2/2017	3 0651	3 07%	2 56%	6/13/1983	10 87%	6/6/1983	10 88
12/30/2016	3 0651	3 07%	2 56%	6/14/1983	10 86%	6/7/1983	10 932
12/29/2016	3 079	3 08%	2 56%	6/15/1983	10 85%	6/8/1983	10 962
12/28/2016	3 0931	3 09%	2 55%	6/16/1983	10 84%	6/9/1983	10 94
12/27/2016	3 133	3 13%	2 55%	6/17/1983	10 83%	6/10/1983	10 851
12/26/2016	3 1138	3 11%	2 55%	6/20/1983	10 82%	6/13/1983	10 806
12/23/2016	3 1138	3 11%	2 55%	6/21/1983	10 82%	6/14/1983	10 85
12/22/2016	3 1271	3 13%	2 55%	6/22/1983	10 81%	6/15/1983	10 748
12/21/2016	3 1079	3 11%	2 54%	6/23/1983	10 80%	6/16/1983	10 726
12/20/2016	3 1396	3 14%	2 54%	6/24/1983	10 80%	6/17/1983	10 762
12/19/2016	3 1204	3 12%	2 54%	6/27/1983	10 79%	6/20/1983	10 835
12/16/2016	3 1741	3 17%	2 54%	6/28/1983	10 79%	6/21/1983	10 828
12/15/2016	3 1622	3 16%	2 54%	6/29/1983	10 78%	6/22/1983	10 917
12/14/2016	3 1799	3 18%	2 53%	6/30/1983	10 77%	6/23/1983	10 947
12/13/2016	3 1312	3 13%	2 53%	7/1/1983	10 77%	6/24/1983	10 999
12/12/2016	3 1538	3 15%	2 53%	7/5/1983	10 76%	6/27/1983	11 152

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
12/9/2016	3 1529	3 15%	2 53%	7/6/1983	10 76%	6/28/1983	11 083
12/8/2016	3 1053	3 11%	2 52%	7/7/1983	10 76%	6/29/1983	11 052
12/7/2016	3 0224	3 02%	2 52%	7/8/1983	10 75%	6/30/1983	10 976
12/6/2016	3 0788	3 08%	2 52%	7/11/1983	10 75%	7/1/1983	11 113
12/5/2016	3 064	3 06%	2 52%	7/12/1983	10 75%	7/5/1983	11 245
12/2/2016	3 0615	3 06%	2 52%	7/13/1983	10 75%	7/6/1983	11 167
12/1/2016	3 1085	3 11%	2 51%	7/14/1983	10 74%	7/7/1983	11 308
11/30/2016	3 0337	3 03%	2 51%	7/15/1983	10 74%	7/8/1983	11 268
11/29/2016	2 9459	2 95%	2 51%	7/18/1983	10 74%	7/11/1983	11 292
11/28/2016	2 9755	2 98%	2 51%	7/19/1983	10 74%	7/12/1983	11 42
11/25/2016	3 0045	3 00%	2 51%	7/20/1983	10 73%	7/13/1983	11 388
11/24/2016	3 0207	3 02%	2 50%	7/21/1983	10 73%	7/14/1983	11 364
11/23/2016	3 0207	3 02%	2 50%	7/22/1983	10 73%	7/15/1983	11 412
11/22/2016	2 9996	3 00%	2 50%	7/25/1983	10 73%	7/18/1983	11 324
11/21/2016	2 9924	2 99%	2 50%	7/26/1983	10 73%	7/19/1983	11 284
11/18/2016	3 0296	3 03%	2 50%	7/27/1983	10 73%	7/20/1983	11 292
11/17/2016	3 0117	3 01%	2 49%	7/28/1983	10 74%	7/21/1983	11 332
11/16/2016	2 9221	2 92%	2 49%	7/29/1983	10 74%	7/22/1983	11 599
11/15/2016	2 9555	2 96%	2 49%	8/1/1983	10 75%	7/25/1983	11 411
11/14/2016	3 0117	3 01%	2 49%	8/2/1983	10 75%	7/26/1983	11 509
11/11/2016	2 935	2 94%	2 48%	8/4/1983	10 76%	7/27/1983	11 525
11/10/2016	2 9549	2 95%	2 48%	8/5/1983	10 76%	7/28/1983	11 674
11/9/2016	2 8456	2 85%	2 48%	8/8/1983	10 77%	7/29/1983	11 823
11/8/2016	2 6156	2 62%	2 48%	8/9/1983	10 77%	8/1/1983	11 818
11/7/2016	2 6021	2 60%	2 48%	8/10/1983	10 78%	8/2/1983	11 767
11/4/2016	2 561	2 56%	2 48%	8/11/1983	10 78%	8/4/1983	11 94
11/3/2016	2 6004	2 60%	2 48%	8/12/1983	10 78%	8/5/1983	11 966
11/2/2016	2 5672	2 57%	2 48%	8/15/1983	10 78%	8/8/1983	12 019
11/1/2016	2 5774	2 58%	2 48%	8/16/1983	10 79%	8/9/1983	11 975
10/31/2016	2 5798	2 58%	2 49%	8/17/1983	10 79%	8/10/1983	11 975
10/28/2016	2 6154	2 62%	2 49%	8/18/1983	10 79%	8/11/1983	11 836
10/27/2016	2 6138	2 61%	2 49%	8/19/1983	10 80%	8/12/1983	11 566
10/26/2016	2 5412	2 54%	2 49%	8/22/1983	10 80%	8/15/1983	11 744
10/25/2016	2 4985	2 50%	2 49%	8/23/1983	10 81%	8/16/1983	11 722
10/24/2016	2 5171	2 52%	2 49%	8/24/1983	10 81%	8/17/1983	11 56
10/21/2016	2 4846	2 48%	2 49%	8/25/1983	10 82%	8/18/1983	11 662
10/20/2016	2 5039	2 50%	2 49%	8/26/1983	10 82%	8/19/1983	11 596
10/19/2016	2 5069	2 51%	2 50%	8/29/1983	10 83%	8/22/1983	11 538
10/18/2016	2 5054	2 51%	2 50%	8/30/1983	10 84%	8/23/1983	11 531
10/17/2016	2 5216	2 52%	2 50%	8/31/1983	10 85%	8/24/1983	11 516
10/14/2016	2 5583	2 56%	2 50%	9/1/1983	10 85%	8/25/1983	11 61
10/13/2016	2 4768	2 48%	2 50%	9/6/1983	10 86%	8/26/1983	11 698
10/12/2016	2 4991	2 50%	2 51%	9/7/1983	10 87%	8/29/1983	11 78
10/11/2016	2 5014	2 50%	2 51%	9/8/1983	10 87%	8/30/1983	11 901
10/10/2016	2 4508	2 45%	2 51%	9/9/1983	10 88%	8/31/1983	11 931
10/7/2016	2 4508	2 45%	2 51%	9/12/1983	10 88%	9/1/1983	11 954
10/6/2016	2 4538	2 45%	2 52%	9/13/1983	10 89%	9/6/1983	11 824
10/5/2016	2 4234	2 42%	2 52%	9/14/1983	10 89%	9/7/1983	11 697
10/4/2016	2 4098	2 41%	2 52%	9/15/1983	10 90%	9/8/1983	11 705
10/3/2016	2 3397	2 34%	2 52%	9/16/1983	10 90%	9/9/1983	11 479
9/30/2016	2 3154	2 32%	2 53%	9/19/1983	10 91%	9/12/1983	11 558
9/29/2016	2 2767	2 28%	2 53%	9/20/1983	10 91%	9/13/1983	11 628
9/28/2016	2 2913	2 29%	2 53%	9/21/1983	10 92%	9/14/1983	11 734
9/27/2016	2 2774	2 28%	2 54%	9/22/1983	10 93%	9/15/1983	11 734
9/26/2016	2 3205	2 32%	2 54%	9/23/1983	10 93%	9/16/1983	11 727
9/23/2016	2 3471	2 35%	2 54%	9/26/1983	10 93%	9/19/1983	11 613
9/22/2016	2 3353	2 34%	2 55%	9/27/1983	10 94%	9/20/1983	11 538
9/21/2016	2 3738	2 37%	2 55%	9/28/1983	10 94%	9/21/1983	11 628
9/20/2016	2 4316	2 43%	2 55%	9/29/1983	10 95%	9/22/1983	11 486
9/19/2016	2 4551	2 46%	2 56%	9/30/1983	10 95%	9/23/1983	11 391
9/16/2016	2 4452	2 45%	2 56%	10/3/1983	10 96%	9/26/1983	11 412
9/15/2016	2 4627	2 46%	2 56%	10/4/1983	10 96%	9/27/1983	11 405
9/14/2016	2 4497	2 45%	2 56%	10/5/1983	10 96%	9/28/1983	11 463
9/13/2016	2 4634	2 46%	2 57%	10/6/1983	10 97%	9/29/1983	11 434
9/12/2016	2 3909	2 39%	2 57%	10/7/1983	10 97%	9/30/1983	11 405
9/9/2016	2 3946	2 39%	2 57%	10/11/1983	10 98%	10/3/1983	11 434
9/8/2016	2 3036	2 30%	2 57%	10/12/1983	10 98%	10/4/1983	11 397
9/7/2016	2 2349	2 23%	2 58%	10/13/1983	10 99%	10/5/1983	11 346
9/6/2016	2 2241	2 22%	2 58%	10/14/1983	10 99%	10/6/1983	11 303
9/5/2016	2 2782	2 28%	2 59%	10/17/1983	11 00%	10/7/1983	11 397
9/2/2016	2 2782	2 28%	2 59%	10/18/1983	11 00%	10/11/1983	11 581
9/1/2016	2 2299	2 23%	2 59%	10/19/1983	11 01%	10/12/1983	11 596
8/31/2016	2 232	2 23%	2 60%	10/20/1983	11 01%	10/13/1983	11 656
8/30/2016	2 2292	2 23%	2 60%	10/21/1983	11 02%	10/14/1983	11 499
8/29/2016	2 2142	2 21%	2 60%	10/24/1983	11 03%	10/17/1983	11 492

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
8/26/2016	2 2869	2 29%	2 61%	10/25/1983	11 03%	10/18/1983	11 536
8/25/2016	2 263	2 26%	2 61%	10/26/1983	11 04%	10/19/1983	11 499
8/24/2016	2 2471	2 25%	2 61%	10/27/1983	11 04%	10/20/1983	11 484
8/23/2016	2 2292	2 23%	2 62%	10/28/1983	11 05%	10/21/1983	11 611
8/22/2016	2 2371	2 24%	2 62%	10/31/1983	11 06%	10/24/1983	11 679
8/19/2016	2 2869	2 29%	2 63%	11/1/1983	11 06%	10/25/1983	11 717
8/18/2016	2 2601	2 26%	2 63%	11/2/1983	11 07%	10/26/1983	11 755
8/17/2016	2 2594	2 26%	2 63%	11/3/1983	11 08%	10/27/1983	11 694
8/16/2016	2 2978	2 30%	2 64%	11/4/1983	11 08%	10/28/1983	11 717
8/15/2016	2 2825	2 28%	2 64%	11/7/1983	11 09%	10/31/1983	11 793
8/12/2016	2 2306	2 23%	2 65%	11/9/1983	11 09%	11/1/1983	11 755
8/11/2016	2 2722	2 27%	2 65%	11/10/1983	11 10%	11/2/1983	11 747
8/10/2016	2 2274	2 23%	2 66%	11/14/1983	11 10%	11/3/1983	11 824
8/9/2016	2 2617	2 26%	2 66%	11/15/1983	11 11%	11/4/1983	11 91
8/8/2016	2 309	2 31%	2 66%	11/16/1983	11 11%	11/7/1983	11 871
8/5/2016	2 314	2 31%	2 67%	11/17/1983	11 12%	11/9/1983	11 863
8/4/2016	2 254	2 25%	2 67%	11/18/1983	11 12%	11/10/1983	11 671
8/3/2016	2 2963	2 30%	2 67%	11/21/1983	11 12%	11/14/1983	11 701
8/2/2016	2 3069	2 31%	2 68%	11/22/1983	11 13%	11/15/1983	11 716
8/1/2016	2 2695	2 27%	2 68%	11/23/1983	11 13%	11/16/1983	11 724
7/29/2016	2 1827	2 18%	2 68%	11/25/1983	11 13%	11/17/1983	11 77
7/28/2016	2 2318	2 23%	2 69%	11/28/1983	11 13%	11/18/1983	11 724
7/27/2016	2 211	2 21%	2 69%	11/29/1983	11 14%	11/21/1983	11 678
7/26/2016	2 283	2 28%	2 69%	11/30/1983	11 14%	11/22/1983	11 625
7/25/2016	2 2872	2 29%	2 69%	12/1/1983	11 14%	11/23/1983	11 633
7/22/2016	2 283	2 28%	2 70%	12/2/1983	11 15%	11/25/1983	11 61
7/21/2016	2 2908	2 29%	2 70%	12/5/1983	11 15%	11/28/1983	11 663
7/20/2016	2 2979	2 30%	2 70%	12/6/1983	11 16%	11/29/1983	11 61
7/19/2016	2 2669	2 27%	2 71%	12/7/1983	11 16%	11/30/1983	11 64
7/18/2016	2 2944	2 29%	2 71%	12/8/1983	11 16%	12/1/1983	11 656
7/15/2016	2 2655	2 27%	2 71%	12/9/1983	11 17%	12/2/1983	11 801
7/14/2016	2 2523	2 25%	2 72%	12/12/1983	11 18%	12/5/1983	11 77
7/13/2016	2 1721	2 17%	2 72%	12/13/1983	11 18%	12/6/1983	11 793
7/12/2016	2 2237	2 22%	2 72%	12/14/1983	11 19%	12/7/1983	11 816
7/11/2016	2 1394	2 14%	2 73%	12/15/1983	11 20%	12/8/1983	11 91
7/8/2016	2 0983	2 10%	2 73%	12/16/1983	11 21%	12/9/1983	11 887
7/7/2016	2 1348	2 13%	2 73%	12/19/1983	11 21%	12/12/1983	11 926
7/6/2016	2 1375	2 14%	2 74%	12/20/1983	11 22%	12/13/1983	11 981
7/5/2016	2 1545	2 15%	2 74%	12/21/1983	11 23%	12/14/1983	12 024
7/4/2016	2 2253	2 23%	2 74%	12/22/1983	11 23%	12/15/1983	11 981
7/1/2016	2 2253	2 23%	2 75%	12/23/1983	11 24%	12/16/1983	11 957
6/30/2016	2 2847	2 28%	2 75%	12/27/1983	11 25%	12/19/1983	11 903
6/29/2016	2 3187	2 32%	2 75%	12/28/1983	11 25%	12/20/1983	11 966
6/28/2016	2 2749	2 27%	2 76%	12/29/1983	11 26%	12/21/1983	11 887
6/27/2016	2 2644	2 26%	2 76%	12/30/1983	11 26%	12/22/1983	11 832
6/24/2016	2 4101	2 41%	2 76%	1/3/1984	11 27%	12/23/1983	11 84
6/23/2016	2 5547	2 55%	2 77%	1/4/1984	11 28%	12/27/1983	11 779
6/22/2016	2 4999	2 50%	2 77%	1/5/1984	11 28%	12/28/1983	11 817
6/21/2016	2 5119	2 51%	2 77%	1/6/1984	11 29%	12/29/1983	11 833
6/20/2016	2 4955	2 50%	2 77%	1/9/1984	11 29%	12/30/1983	11 872
6/17/2016	2 4196	2 42%	2 78%	1/10/1984	11 30%	1/3/1984	11 911
6/16/2016	2 3963	2 40%	2 78%	1/11/1984	11 30%	1/4/1984	11 833
6/15/2016	2 4065	2 41%	2 78%	1/12/1984	11 31%	1/5/1984	11 833
6/14/2016	2 4233	2 42%	2 79%	1/13/1984	11 32%	1/6/1984	11 849
6/13/2016	2 4262	2 43%	2 79%	1/16/1984	11 32%	1/9/1984	11 802
6/10/2016	2 4511	2 45%	2 79%	1/17/1984	11 32%	1/10/1984	11 779
6/9/2016	2 4873	2 49%	2 79%	1/18/1984	11 33%	1/11/1984	11 795
6/8/2016	2 5082	2 51%	2 80%	1/19/1984	11 33%	1/12/1984	11 803
6/7/2016	2 5419	2 54%	2 80%	1/20/1984	11 34%	1/13/1984	11 635
6/6/2016	2 557	2 56%	2 80%	1/23/1984	11 34%	1/16/1984	11 59
6/3/2016	2 5097	2 51%	2 80%	1/24/1984	11 35%	1/17/1984	11 627
6/2/2016	2 5805	2 58%	2 80%	1/25/1984	11 36%	1/18/1984	11 673
6/1/2016	2 6164	2 62%	2 81%	1/26/1984	11 36%	1/19/1984	11 643
5/31/2016	2 6479	2 65%	2 81%	1/27/1984	11 37%	1/20/1984	11 681
5/30/2016	2 6464	2 65%	2 81%	1/30/1984	11 37%	1/23/1984	11 666
5/27/2016	2 6464	2 65%	2 81%	1/31/1984	11 38%	1/24/1984	11 681
5/26/2016	2 6409	2 64%	2 81%	2/1/1984	11 39%	1/25/1984	11 704
5/25/2016	2 6634	2 66%	2 81%	2/2/1984	11 39%	1/26/1984	11 689
5/24/2016	2 644	2 64%	2 81%	2/3/1984	11 40%	1/27/1984	11 673
5/23/2016	2 6232	2 62%	2 81%	2/6/1984	11 41%	1/30/1984	11 719
5/20/2016	2 6286	2 63%	2 81%	2/7/1984	11 41%	1/31/1984	11 75
5/19/2016	2 6417	2 64%	2 81%	2/8/1984	11 42%	2/1/1984	11 712
5/18/2016	2 6595	2 66%	2 81%	2/9/1984	11 43%	2/2/1984	11 697
5/17/2016	2 5994	2 60%	2 82%	2/10/1984	11 43%	2/3/1984	11 72
5/16/2016	2 5956	2 60%	2 82%	2/14/1984	11 44%	2/6/1984	11 766

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
5/13/2016	2 5486	2 55%	2 82%	2/15/1984	11 45%	2/7/1984	11 782
5/12/2016	2 5983	2 60%	2 82%	2/16/1984	11 46%	2/8/1984	11 813
5/11/2016	2 5807	2 58%	2 82%	2/17/1984	11 46%	2/9/1984	11 836
5/10/2016	2 6122	2 61%	2 82%	2/21/1984	11 47%	2/10/1984	11 914
5/9/2016	2 6083	2 61%	2 82%	2/22/1984	11 48%	2/14/1984	11 931
5/6/2016	2 6276	2 63%	2 83%	2/23/1984	11 49%	2/15/1984	11 915
5/5/2016	2 6029	2 60%	2 83%	2/24/1984	11 50%	2/16/1984	11 946
5/4/2016	2 6322	2 63%	2 83%	2/27/1984	11 51%	2/17/1984	12 01
5/3/2016	2 6578	2 66%	2 83%	2/28/1984	11 52%	2/21/1984	12 017
5/2/2016	2 7245	2 72%	2 83%	2/29/1984	11 53%	2/22/1984	12 071
4/29/2016	2 6781	2 68%	2 83%	3/1/1984	11 54%	2/23/1984	12 134
4/28/2016	2 6796	2 68%	2 83%	3/2/1984	11 54%	2/24/1984	12 095
4/27/2016	2 7008	2 70%	2 84%	3/5/1984	11 55%	2/27/1984	12 165
4/26/2016	2 7539	2 75%	2 84%	3/6/1984	11 56%	2/28/1984	12 189
4/25/2016	2 7332	2 73%	2 84%	3/7/1984	11 57%	2/29/1984	12 173
4/22/2016	2 707	2 71%	2 84%	3/8/1984	11 58%	3/1/1984	12 102
4/21/2016	2 6842	2 68%	2 84%	3/9/1984	11 59%	3/2/1984	12 063
4/20/2016	2 6538	2 65%	2 84%	3/12/1984	11 60%	3/5/1984	12 173
4/19/2016	2 5936	2 59%	2 85%	3/13/1984	11 61%	3/6/1984	12 204
4/18/2016	2 5799	2 58%	2 85%	3/14/1984	11 61%	3/7/1984	12 309
4/15/2016	2 5593	2 56%	2 85%	3/15/1984	11 62%	3/8/1984	12 366
4/14/2016	2 6005	2 60%	2 86%	3/16/1984	11 63%	3/9/1984	12 341
4/13/2016	2 5837	2 58%	2 86%	3/19/1984	11 64%	3/12/1984	12 317
4/12/2016	2 5989	2 60%	2 86%	3/20/1984	11 65%	3/13/1984	12 39
4/11/2016	2 5616	2 56%	2 86%	3/21/1984	11 66%	3/14/1984	12 398
4/8/2016	2 5525	2 55%	2 86%	3/22/1984	11 66%	3/15/1984	12 276
4/7/2016	2 5149	2 51%	2 87%	3/23/1984	11 67%	3/16/1984	12 431
4/6/2016	2 5844	2 58%	2 87%	3/26/1984	11 68%	3/19/1984	12 539
4/5/2016	2 5442	2 54%	2 87%	3/27/1984	11 69%	3/20/1984	12 53
4/4/2016	2 5966	2 60%	2 88%	3/28/1984	11 70%	3/21/1984	12 555
4/1/2016	2 5997	2 60%	2 88%	3/29/1984	11 70%	3/22/1984	12 497
3/31/2016	2 6119	2 61%	2 88%	3/30/1984	11 71%	3/23/1984	12 497
3/30/2016	2 6528	2 65%	2 89%	4/2/1984	11 72%	3/26/1984	12 455
3/29/2016	2 5996	2 60%	2 89%	4/3/1984	11 73%	3/27/1984	12 48
3/28/2016	2 6567	2 66%	2 89%	4/4/1984	11 74%	3/28/1984	12 397
3/25/2016	2 673	2 67%	2 89%	4/5/1984	11 75%	3/29/1984	12 504
3/24/2016	2 673	2 67%	2 90%	4/6/1984	11 76%	3/30/1984	12 479
3/23/2016	2 6582	2 66%	2 90%	4/9/1984	11 76%	4/2/1984	12 55
3/22/2016	2 7224	2 72%	2 90%	4/10/1984	11 77%	4/3/1984	12 63
3/21/2016	2 7169	2 72%	2 90%	4/11/1984	11 78%	4/4/1984	12 639
3/18/2016	2 6753	2 68%	2 90%	4/12/1984	11 79%	4/5/1984	12 596
3/17/2016	2 6854	2 69%	2 91%	4/13/1984	11 80%	4/6/1984	12 512
3/16/2016	2 7105	2 71%	2 91%	4/16/1984	11 80%	4/9/1984	12 479
3/15/2016	2 731	2 73%	2 91%	4/17/1984	11 81%	4/10/1984	12 52
3/14/2016	2 7318	2 73%	2 91%	4/18/1984	11 82%	4/11/1984	12 487
3/11/2016	2 7532	2 75%	2 91%	4/19/1984	11 83%	4/12/1984	12 38
3/10/2016	2 6947	2 69%	2 92%	4/23/1984	11 84%	4/13/1984	12 588
3/9/2016	2 662	2 66%	2 92%	4/24/1984	11 85%	4/16/1984	12 613
3/8/2016	2 6348	2 63%	2 92%	4/25/1984	11 85%	4/17/1984	12 596
3/7/2016	2 7057	2 71%	2 92%	4/26/1984	11 86%	4/18/1984	12 732
3/4/2016	2 6947	2 69%	2 92%	4/27/1984	11 87%	4/19/1984	12 767
3/3/2016	2 658	2 66%	2 93%	4/30/1984	11 88%	4/23/1984	12 81
3/2/2016	2 6845	2 68%	2 93%	5/1/1984	11 88%	4/24/1984	12 767
3/1/2016	2 6978	2 70%	2 93%	5/2/1984	11 89%	4/25/1984	12 693
2/29/2016	2 6156	2 62%	2 93%	5/3/1984	11 90%	4/26/1984	12 728
2/26/2016	2 6363	2 64%	2 93%	5/4/1984	11 91%	4/27/1984	12 78
2/25/2016	2 5941	2 59%	2 93%	5/7/1984	11 92%	4/30/1984	12 836
2/24/2016	2 6056	2 61%	2 93%	5/8/1984	11 93%	5/1/1984	12 876
2/23/2016	2 5789	2 58%	2 94%	5/9/1984	11 94%	5/2/1984	12 889
2/22/2016	2 604	2 60%	2 94%	5/10/1984	11 95%	5/3/1984	12 906
2/19/2016	2 6048	2 60%	2 94%	5/11/1984	11 96%	5/4/1984	13 067
2/18/2016	2 6086	2 61%	2 94%	5/14/1984	11 97%	5/7/1984	13 167
2/17/2016	2 6875	2 69%	2 94%	5/15/1984	11 98%	5/8/1984	13 085
2/16/2016	2 6393	2 64%	2 95%	5/16/1984	11 99%	5/9/1984	13 223
2/15/2016	2 604	2 60%	2 95%	5/17/1984	12 00%	5/10/1984	13 406
2/12/2016	2 604	2 60%	2 95%	5/18/1984	12 01%	5/11/1984	13 432
2/11/2016	2 4977	2 50%	2 95%	5/21/1984	12 01%	5/14/1984	13 625
2/10/2016	2 4872	2 49%	2 95%	5/22/1984	12 02%	5/15/1984	13 467
2/9/2016	2 5493	2 55%	2 96%	5/23/1984	12 03%	5/16/1984	13 44
2/8/2016	2 5764	2 58%	2 96%	5/24/1984	12 04%	5/17/1984	13 616
2/5/2016	2 6683	2 67%	2 96%	5/25/1984	12 05%	5/18/1984	13 458
2/4/2016	2 6757	2 68%	2 96%	5/29/1984	12 06%	5/21/1984	13 466
2/3/2016	2 7126	2 71%	2 96%	5/30/1984	12 07%	5/22/1984	13 474
2/2/2016	2 656	2 66%	2 96%	5/31/1984	12 08%	5/23/1984	13 597
2/1/2016	2 7618	2 76%	2 96%	6/1/1984	12 09%	5/24/1984	13 722

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
1/29/2016	2 7438	2 74%	2 96%	6/4/1984	12 09%	5/25/1984	13 695
1/28/2016	2 7851	2 79%	2 96%	6/5/1984	12 10%	5/29/1984	13 831
1/27/2016	2 801	2 80%	2 96%	6/6/1984	12 11%	5/30/1984	13 904
1/26/2016	2 7844	2 78%	2 96%	6/7/1984	12 12%	5/31/1984	13 735
1/25/2016	2 7844	2 78%	2 96%	6/8/1984	12 13%	6/1/1984	13 534
1/22/2016	2 8238	2 82%	2 96%	6/11/1984	12 14%	6/4/1984	13 275
1/21/2016	2 8109	2 81%	2 96%	6/12/1984	12 15%	6/5/1984	13 343
1/20/2016	2 753	2 75%	2 96%	6/13/1984	12 16%	6/6/1984	13 455
1/19/2016	2 8262	2 83%	2 96%	6/14/1984	12 17%	6/7/1984	13 403
1/18/2016	2 814	2 81%	2 95%	6/15/1984	12 17%	6/8/1984	13 342
1/15/2016	2 814	2 81%	2 95%	6/18/1984	12 18%	6/11/1984	13 428
1/14/2016	2 8869	2 89%	2 95%	6/19/1984	12 19%	6/12/1984	13 376
1/13/2016	2 8822	2 88%	2 95%	6/20/1984	12 20%	6/13/1984	13 299
1/12/2016	2 8815	2 88%	2 95%	6/21/1984	12 20%	6/14/1984	13 205
1/11/2016	2 9682	2 97%	2 95%	6/22/1984	12 21%	6/15/1984	13 124
1/8/2016	2 9094	2 91%	2 94%	6/25/1984	12 22%	6/18/1984	13 136
1/7/2016	2 9258	2 93%	2 94%	6/26/1984	12 23%	6/19/1984	13 273
1/6/2016	2 9375	2 94%	2 94%	6/27/1984	12 24%	6/20/1984	13 479
1/5/2016	2 9951	3 00%	2 94%	6/28/1984	12 25%	6/21/1984	13 532
1/4/2016	2 9872	2 99%	2 94%	6/29/1984	12 26%	6/22/1984	13 453
1/1/2016	3 0158	3 02%	2 93%	7/2/1984	12 27%	6/25/1984	13 567
12/31/2015	3 0158	3 02%	2 93%	7/3/1984	12 28%	6/26/1984	13 54
12/30/2015	3 0335	3 03%	2 93%	7/5/1984	12 29%	6/27/1984	13 549
12/29/2015	3 0359	3 04%	2 93%	7/6/1984	12 30%	6/28/1984	13 602
12/28/2015	2 943	2 94%	2 92%	7/9/1984	12 30%	6/29/1984	13 638
12/25/2015	2 9603	2 96%	2 92%	7/10/1984	12 31%	7/2/1984	13 619
12/24/2015	2 9603	2 96%	2 92%	7/11/1984	12 32%	7/3/1984	13 452
12/23/2015	2 988	2 99%	2 92%	7/12/1984	12 33%	7/5/1984	13 531
12/22/2015	2 9556	2 96%	2 91%	7/13/1984	12 34%	7/6/1984	13 461
12/21/2015	2 9103	2 91%	2 91%	7/16/1984	12 35%	7/9/1984	13 177
12/18/2015	2 922	2 92%	2 91%	7/17/1984	12 35%	7/10/1984	13 28
12/17/2015	2 9275	2 93%	2 91%	7/18/1984	12 36%	7/11/1984	13 28
12/16/2015	3 0039	3 00%	2 91%	7/19/1984	12 37%	7/12/1984	13 16
12/15/2015	2 9856	2 99%	2 91%	7/20/1984	12 38%	7/13/1984	13 041
12/14/2015	2 9517	2 95%	2 90%	7/23/1984	12 39%	7/16/1984	13 134
12/11/2015	2 8709	2 87%	2 90%	7/24/1984	12 40%	7/17/1984	13 126
12/10/2015	2 9675	2 97%	2 90%	7/25/1984	12 41%	7/18/1984	13 066
12/9/2015	2 9738	2 97%	2 90%	7/26/1984	12 41%	7/19/1984	13 092
12/8/2015	2 9549	2 95%	2 90%	7/27/1984	12 42%	7/20/1984	13 168
12/7/2015	2 9612	2 96%	2 90%	7/30/1984	12 43%	7/23/1984	13 142
12/4/2015	3 0095	3 01%	2 90%	7/31/1984	12 43%	7/24/1984	13 117
12/3/2015	3 0543	3 05%	2 90%	8/1/1984	12 44%	7/25/1984	12 916
12/2/2015	2 9081	2 91%	2 89%	8/2/1984	12 44%	7/26/1984	12 736
12/1/2015	2 9019	2 90%	2 89%	8/3/1984	12 45%	7/27/1984	12 809
11/30/2015	2 9723	2 97%	2 89%	8/6/1984	12 45%	7/30/1984	12 883
11/27/2015	2 9968	3 00%	2 89%	8/7/1984	12 46%	7/31/1984	12 768
11/26/2015	2 9944	2 99%	2 89%	8/8/1984	12 46%	8/1/1984	12 736
11/25/2015	2 9944	2 99%	2 89%	8/9/1984	12 47%	8/2/1984	12 545
11/24/2015	3 0024	3 00%	2 89%	8/10/1984	12 47%	8/3/1984	12 474
11/23/2015	2 992	2 99%	2 88%	8/13/1984	12 48%	8/6/1984	12 632
11/20/2015	3 0199	3 02%	2 88%	8/14/1984	12 48%	8/7/1984	12 576
11/19/2015	3 0103	3 01%	2 88%	8/15/1984	12 48%	8/8/1984	12 592
11/18/2015	3 0423	3 04%	2 88%	8/16/1984	12 49%	8/9/1984	12 332
11/17/2015	3 0543	3 05%	2 88%	8/17/1984	12 49%	8/10/1984	12 486
11/16/2015	3 0616	3 06%	2 87%	8/20/1984	12 49%	8/13/1984	12 526
11/13/2015	3 0519	3 05%	2 87%	8/21/1984	12 50%	8/14/1984	12 461
11/12/2015	3 0894	3 09%	2 87%	8/22/1984	12 50%	8/15/1984	12 632
11/11/2015	3 1152	3 12%	2 87%	8/23/1984	12 50%	8/16/1984	12 477
11/10/2015	3 1152	3 12%	2 86%	8/24/1984	12 51%	8/17/1984	12 436
11/9/2015	3 1077	3 11%	2 86%	8/27/1984	12 51%	8/20/1984	12 387
11/6/2015	3 0853	3 09%	2 86%	8/28/1984	12 51%	8/21/1984	12 299
11/5/2015	3	3 00%	2 85%	8/29/1984	12 52%	8/22/1984	12 428
11/4/2015	2 9903	2 99%	2 85%	8/30/1984	12 52%	8/23/1984	12 427
11/3/2015	2 9919	2 99%	2 84%	8/31/1984	12 53%	8/24/1984	12 444
11/2/2015	2 9437	2 94%	2 84%	9/4/1984	12 53%	8/27/1984	12 565
10/30/2015	2 9222	2 92%	2 84%	9/5/1984	12 53%	8/28/1984	12 533
10/29/2015	2 9589	2 96%	2 84%	9/6/1984	12 54%	8/29/1984	12 573
10/28/2015	2 8788	2 88%	2 83%	9/7/1984	12 54%	8/30/1984	12 573
10/27/2015	2 8592	2 86%	2 83%	9/10/1984	12 55%	8/31/1984	12 508
10/26/2015	2 8686	2 87%	2 83%	9/11/1984	12 55%	9/4/1984	12 588
10/23/2015	2 9008	2 90%	2 83%	9/12/1984	12 55%	9/5/1984	12 592
10/22/2015	2 8608	2 86%	2 82%	9/13/1984	12 55%	9/6/1984	12 467
10/21/2015	2 8647	2 86%	2 82%	9/14/1984	12 56%	9/7/1984	12 426
10/20/2015	2 9166	2 92%	2 82%	9/17/1984	12 56%	9/10/1984	12 329
10/19/2015	2 8796	2 88%	2 82%	9/18/1984	12 56%	9/11/1984	12 321

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
10/16/2015	2 8812	2 88%	2 81%	9/19/1984	12 56%	9/12/1984	12 249
10/15/2015	2 8624	2 86%	2 81%	9/20/1984	12 56%	9/13/1984	12 084
10/14/2015	2 8344	2 83%	2 81%	9/21/1984	12 57%	9/14/1984	12 162
10/13/2015	2 8843	2 88%	2 81%	9/24/1984	12 57%	9/17/1984	12 154
10/12/2015	2 9174	2 92%	2 81%	9/25/1984	12 57%	9/18/1984	12 138
10/9/2015	2 9174	2 92%	2 81%	9/26/1984	12 57%	9/19/1984	12 049
10/8/2015	2 9397	2 94%	2 80%	9/27/1984	12 57%	9/20/1984	12 107
10/7/2015	2 8945	2 89%	2 80%	9/28/1984	12 57%	9/21/1984	12 224
10/6/2015	2 8686	2 87%	2 80%	10/1/1984	12 58%	9/24/1984	12 303
10/5/2015	2 8969	2 90%	2 80%	10/2/1984	12 58%	9/25/1984	12 303
10/2/2015	2 8274	2 83%	2 80%	10/3/1984	12 58%	9/26/1984	12 216
10/1/2015	2 8499	2 85%	2 80%	10/4/1984	12 58%	9/27/1984	12 106
9/30/2015	2 8538	2 85%	2 80%	10/5/1984	12 58%	9/28/1984	12 247
9/29/2015	2 853	2 85%	2 80%	10/9/1984	12 58%	10/1/1984	12 343
9/28/2015	2 8757	2 88%	2 80%	10/10/1984	12 59%	10/2/1984	12 303
9/25/2015	2 9556	2 96%	2 80%	10/11/1984	12 59%	10/3/1984	12 383
9/24/2015	2 9166	2 92%	2 80%	10/12/1984	12 59%	10/4/1984	12 271
9/23/2015	2 9452	2 95%	2 80%	10/15/1984	12 59%	10/5/1984	12 184
9/22/2015	2 9428	2 94%	2 80%	10/16/1984	12 59%	10/9/1984	12 121
9/21/2015	3 0216	3 02%	2 80%	10/17/1984	12 59%	10/10/1984	12 16
9/18/2015	2 9356	2 94%	2 80%	10/18/1984	12 59%	10/11/1984	12 144
9/17/2015	3 0054	3 01%	2 79%	10/19/1984	12 59%	10/12/1984	12 113
9/16/2015	3 0822	3 08%	2 79%	10/22/1984	12 59%	10/15/1984	12 121
9/15/2015	3 0674	3 07%	2 79%	10/23/1984	12 59%	10/16/1984	12 121
9/14/2015	2 9555	2 96%	2 79%	10/24/1984	12 59%	10/17/1984	12 02
9/11/2015	2 9524	2 95%	2 79%	10/25/1984	12 59%	10/18/1984	11 793
9/10/2015	2 9852	2 99%	2 79%	10/26/1984	12 59%	10/19/1984	11 711
9/9/2015	2 9611	2 96%	2 79%	10/29/1984	12 59%	10/22/1984	11 638
9/8/2015	2 9555	2 96%	2 79%	10/30/1984	12 59%	10/23/1984	11 58
9/7/2015	2 8836	2 88%	2 79%	10/31/1984	12 59%	10/24/1984	11 572
9/4/2015	2 8836	2 88%	2 79%	11/1/1984	12 59%	10/25/1984	11 711
9/3/2015	2 9348	2 93%	2 79%	11/2/1984	12 59%	10/26/1984	11 733
9/2/2015	2 9539	2 95%	2 79%	11/5/1984	12 58%	10/29/1984	11 696
9/1/2015	2 915	2 92%	2 79%	11/7/1984	12 58%	10/30/1984	11 565
8/31/2015	2 9619	2 96%	2 79%	11/8/1984	12 58%	10/31/1984	11 558
8/28/2015	2 9119	2 91%	2 79%	11/9/1984	12 58%	11/1/1984	11 465
8/27/2015	2 9237	2 92%	2 79%	11/13/1984	12 58%	11/2/1984	11 5
8/26/2015	2 9316	2 93%	2 79%	11/14/1984	12 59%	11/5/1984	11 45
8/25/2015	2 7992	2 80%	2 79%	11/15/1984	12 59%	11/7/1984	11 644
8/24/2015	2 7293	2 73%	2 79%	11/16/1984	12 58%	11/8/1984	11 752
8/21/2015	2 7233	2 72%	2 80%	11/19/1984	12 58%	11/9/1984	11 644
8/20/2015	2 7429	2 74%	2 80%	11/20/1984	12 58%	11/13/1984	11 725
8/19/2015	2 8153	2 82%	2 80%	11/21/1984	12 58%	11/14/1984	11 813
8/18/2015	2 8555	2 86%	2 80%	11/23/1984	12 58%	11/15/1984	11 678
8/17/2015	2 8176	2 82%	2 80%	11/26/1984	12 58%	11/16/1984	11 659
8/14/2015	2 8416	2 84%	2 80%	11/27/1984	12 57%	11/19/1984	11 575
8/13/2015	2 855	2 86%	2 80%	11/28/1984	12 57%	11/20/1984	11 537
8/12/2015	2 8397	2 84%	2 80%	11/29/1984	12 57%	11/21/1984	11 417
8/11/2015	2 8092	2 81%	2 81%	11/30/1984	12 57%	11/23/1984	11 298
8/10/2015	2 896	2 90%	2 81%	12/3/1984	12 57%	11/26/1984	11 313
8/7/2015	2 8191	2 82%	2 81%	12/4/1984	12 56%	11/27/1984	11 305
8/6/2015	2 8914	2 89%	2 81%	12/5/1984	12 56%	11/28/1984	11 364
8/5/2015	2 9437	2 94%	2 81%	12/6/1984	12 56%	11/29/1984	11 498
8/4/2015	2 8968	2 90%	2 81%	12/7/1984	12 56%	11/30/1984	11 528
8/3/2015	2 852	2 85%	2 81%	12/10/1984	12 55%	12/3/1984	11 52
7/31/2015	2 9061	2 91%	2 81%	12/11/1984	12 55%	12/4/1984	11 505
7/30/2015	2 9429	2 94%	2 81%	12/12/1984	12 55%	12/5/1984	11 543
7/29/2015	2 9975	3 00%	2 81%	12/13/1984	12 55%	12/6/1984	11 573
7/28/2015	2 965	2 97%	2 81%	12/14/1984	12 54%	12/7/1984	11 672
7/27/2015	2 9327	2 93%	2 81%	12/17/1984	12 54%	12/10/1984	11 611
7/24/2015	2 9618	2 96%	2 81%	12/18/1984	12 54%	12/11/1984	11 572
7/23/2015	2 9673	2 97%	2 81%	12/19/1984	12 53%	12/12/1984	11 512
7/22/2015	3 0367	3 04%	2 81%	12/20/1984	12 53%	12/13/1984	11 61
7/21/2015	3 0617	3 06%	2 81%	12/21/1984	12 52%	12/14/1984	11 587
7/20/2015	3 0942	3 09%	2 81%	12/24/1984	12 52%	12/17/1984	11 459
7/17/2015	3 0828	3 08%	2 81%	12/26/1984	12 51%	12/18/1984	11 355
7/16/2015	3 1089	3 11%	2 81%	12/27/1984	12 51%	12/19/1984	11 384
7/15/2015	3 1385	3 14%	2 81%	12/28/1984	12 50%	12/20/1984	11 355
7/14/2015	3 1958	3 20%	2 81%	12/31/1984	12 50%	12/21/1984	11 362
7/13/2015	3 2362	3 24%	2 81%	1/2/1985	12 50%	12/24/1984	11 34
7/10/2015	3 1899	3 19%	2 81%	1/3/1985	12 49%	12/26/1984	11 451
7/9/2015	3 1203	3 12%	2 81%	1/4/1985	12 49%	12/27/1984	11 458
7/8/2015	2 9745	2 97%	2 81%	1/7/1985	12 48%	12/28/1984	11 481
7/7/2015	3 0399	3 04%	2 81%	1/8/1985	12 48%	12/31/1984	11 526
7/6/2015	3 0827	3 08%	2 81%	1/9/1985	12 47%	1/2/1985	11 725

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
7/3/2015	3 1865	3 19%	2 81%	1/10/1985	12 47%	1/3/1985	11 601
7/2/2015	3 1865	3 19%	2 81%	1/11/1985	12 46%	1/4/1985	11 624
7/1/2015	3 2015	3 20%	2 81%	1/14/1985	12 46%	1/7/1985	11 514
6/30/2015	3 1236	3 12%	2 81%	1/15/1985	12 46%	1/8/1985	11 45
6/29/2015	3 0998	3 10%	2 81%	1/17/1985	12 45%	1/9/1985	11 495
6/26/2015	3 2402	3 24%	2 81%	1/18/1985	12 45%	1/10/1985	11 533
6/25/2015	3 1756	3 18%	2 81%	1/22/1985	12 44%	1/11/1985	11 624
6/24/2015	3 1458	3 15%	2 81%	1/23/1985	12 43%	1/14/1985	11 631
6/23/2015	3 1964	3 20%	2 81%	1/24/1985	12 43%	1/15/1985	11 555
6/22/2015	3 1606	3 16%	2 81%	1/25/1985	12 42%	1/17/1985	11 495
6/19/2015	3 0471	3 05%	2 82%	1/28/1985	12 41%	1/18/1985	11 51
6/18/2015	3 1292	3 13%	2 82%	1/29/1985	12 40%	1/22/1985	11 353
6/17/2015	3 0932	3 09%	2 82%	1/30/1985	12 40%	1/23/1985	11 309
6/16/2015	3 0407	3 04%	2 82%	1/31/1985	12 39%	1/24/1985	11 157
6/15/2015	3 0851	3 09%	2 82%	2/1/1985	12 39%	1/25/1985	11 167
6/12/2015	3 103	3 10%	2 82%	2/4/1985	12 38%	1/28/1985	11 178
6/11/2015	3 0957	3 10%	2 82%	2/5/1985	12 37%	1/29/1985	11 064
6/10/2015	3 2156	3 22%	2 82%	2/6/1985	12 37%	1/30/1985	11 121
6/9/2015	3 1663	3 17%	2 82%	2/7/1985	12 36%	1/31/1985	11 207
6/8/2015	3 1144	3 11%	2 82%	2/8/1985	12 35%	2/1/1985	11 316
6/5/2015	3 1136	3 11%	2 82%	2/11/1985	12 34%	2/4/1985	11 301
6/4/2015	3 0407	3 04%	2 82%	2/13/1985	12 34%	2/5/1985	11 265
6/3/2015	3 1022	3 10%	2 82%	2/14/1985	12 33%	2/6/1985	11 316
6/2/2015	3 0143	3 01%	2 82%	2/15/1985	12 32%	2/7/1985	11 311
6/1/2015	2 9338	2 93%	2 82%	2/19/1985	12 31%	2/8/1985	11 256
5/29/2015	2 8818	2 88%	2 82%	2/20/1985	12 31%	2/11/1985	11 325
5/28/2015	2 8873	2 89%	2 83%	2/28/1985	12 30%	2/13/1985	11 281
5/27/2015	2 8673	2 87%	2 83%	3/5/1985	12 30%	2/14/1985	11 208
5/26/2015	2 8981	2 90%	2 83%	3/6/1985	12 29%	2/15/1985	11 325
5/25/2015	2 9841	2 98%	2 83%	3/7/1985	12 29%	2/19/1985	11 377
5/22/2015	2 9841	2 98%	2 83%	3/8/1985	12 28%	2/20/1985	11 535
5/21/2015	2 9881	2 99%	2 83%	3/11/1985	12 27%	2/28/1985	11 875
5/20/2015	3 0471	3 05%	2 83%	3/12/1985	12 26%	3/5/1985	11 807
5/19/2015	3 0753	3 08%	2 83%	3/13/1985	12 26%	3/6/1985	11 911
5/18/2015	3 0295	3 03%	2 83%	3/14/1985	12 25%	3/7/1985	11 887
5/15/2015	2 9292	2 93%	2 84%	3/18/1985	12 24%	3/8/1985	11 696
5/14/2015	3 0497	3 05%	2 84%	3/19/1985	12 23%	3/11/1985	11 727
5/13/2015	3 087	3 09%	2 84%	3/20/1985	12 22%	3/12/1985	11 688
5/12/2015	3 0127	3 01%	2 84%	3/21/1985	12 21%	3/13/1985	11 822
5/11/2015	3 041	3 04%	2 84%	3/22/1985	12 21%	3/14/1985	11 87
5/8/2015	2 9006	2 90%	2 84%	3/25/1985	12 20%	3/18/1985	11 934
5/7/2015	2 9105	2 91%	2 84%	3/26/1985	12 19%	3/19/1985	11 87
5/6/2015	2 9929	2 99%	2 85%	3/27/1985	12 18%	3/20/1985	11 806
5/5/2015	2 9122	2 91%	2 85%	3/28/1985	12 17%	3/21/1985	11 711
5/4/2015	2 8765	2 88%	2 85%	3/29/1985	12 16%	3/22/1985	11 813
5/1/2015	2 8273	2 83%	2 85%	4/1/1985	12 15%	3/25/1985	11 75
4/30/2015	2 7404	2 74%	2 85%	4/2/1985	12 14%	3/26/1985	11 75
4/29/2015	2 7523	2 75%	2 86%	4/3/1985	12 13%	3/27/1985	11 805
4/28/2015	2 7031	2 70%	2 86%	4/4/1985	12 12%	3/28/1985	11 687
4/27/2015	2 6121	2 61%	2 86%	4/8/1985	12 11%	3/29/1985	11 64
4/24/2015	2 6098	2 61%	2 86%	4/9/1985	12 10%	4/1/1985	11 636
4/23/2015	2 653	2 65%	2 87%	4/10/1985	12 09%	4/2/1985	11 671
4/22/2015	2 6616	2 66%	2 87%	4/11/1985	12 08%	4/3/1985	11 691
4/21/2015	2 5806	2 58%	2 87%	4/12/1985	12 07%	4/4/1985	11 648
4/20/2015	2 5624	2 56%	2 88%	4/15/1985	12 06%	4/8/1985	11 726
4/17/2015	2 5194	2 52%	2 88%	4/16/1985	12 05%	4/9/1985	11 589
4/16/2015	2 5753	2 58%	2 89%	4/17/1985	12 04%	4/10/1985	11 54
4/15/2015	2 5397	2 54%	2 89%	4/18/1985	12 03%	4/11/1985	11 392
4/14/2015	2 5427	2 54%	2 89%	4/19/1985	12 02%	4/12/1985	11 388
4/13/2015	2 573	2 57%	2 90%	4/22/1985	12 01%	4/15/1985	11 351
4/10/2015	2 5791	2 58%	2 90%	4/23/1985	12 00%	4/16/1985	11 274
4/9/2015	2 5981	2 60%	2 91%	4/24/1985	11 99%	4/17/1985	11 321
4/8/2015	2 5291	2 53%	2 91%	4/25/1985	11 98%	4/18/1985	11 226
4/7/2015	2 5179	2 52%	2 92%	4/26/1985	11 97%	4/19/1985	11 248
4/6/2015	2 5532	2 55%	2 92%	4/29/1985	11 96%	4/22/1985	11 211
4/3/2015	2 4858	2 49%	2 92%	4/30/1985	11 95%	4/23/1985	11 307
4/2/2015	2 5321	2 53%	2 93%	5/1/1985	11 94%	4/24/1985	11 377
4/1/2015	2 4651	2 47%	2 93%	5/2/1985	11 93%	4/25/1985	11 441
3/31/2015	2 5359	2 54%	2 94%	5/3/1985	11 92%	4/26/1985	11 403
3/30/2015	2 5479	2 55%	2 94%	5/6/1985	11 90%	4/29/1985	11 516
3/27/2015	2 5404	2 54%	2 95%	5/7/1985	11 89%	4/30/1985	11 463
3/26/2015	2 5798	2 58%	2 95%	5/8/1985	11 88%	5/1/1985	11 38
3/25/2015	2 5074	2 51%	2 95%	5/9/1985	11 87%	5/2/1985	11 336
3/24/2015	2 4643	2 46%	2 96%	5/10/1985	11 86%	5/3/1985	11 299
3/23/2015	2 5141	2 51%	2 96%	5/13/1985	11 85%	5/6/1985	11 262

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
3/20/2015	2 5059	2 51%	2 97%	5/14/1985	11 84%	5/7/1985	11 27
3/19/2015	2 5291	2 53%	2 97%	5/15/1985	11 83%	5/8/1985	11 365
3/18/2015	2 5104	2 51%	2 98%	5/16/1985	11 82%	5/9/1985	11 336
3/17/2015	2 6026	2 60%	2 98%	5/17/1985	11 81%	5/10/1985	11 197
3/16/2015	2 6449	2 64%	2 99%	5/20/1985	11 80%	5/13/1985	11 168
3/13/2015	2 6987	2 70%	2 99%	5/21/1985	11 78%	5/14/1985	11 025
3/12/2015	2 6995	2 70%	2 99%	5/22/1985	11 77%	5/15/1985	11 075
3/11/2015	2 6853	2 69%	3 00%	5/23/1985	11 76%	5/16/1985	11 011
3/10/2015	2 7231	2 72%	3 00%	5/24/1985	11 75%	5/17/1985	10 906
3/9/2015	2 798	2 80%	3 01%	5/28/1985	11 74%	5/20/1985	10 796
3/6/2015	2 8409	2 84%	3 01%	5/29/1985	11 73%	5/21/1985	10 851
3/5/2015	2 7285	2 73%	3 01%	5/30/1985	11 72%	5/22/1985	10 927
3/4/2015	2 7198	2 72%	3 01%	5/31/1985	11 71%	5/23/1985	10 899
3/3/2015	2 7143	2 71%	3 02%	6/3/1985	11 69%	5/24/1985	10 83
3/2/2015	2 6814	2 68%	3 02%	6/4/1985	11 68%	5/28/1985	10 708
2/27/2015	2 5903	2 59%	3 02%	6/5/1985	11 67%	5/29/1985	10 675
2/26/2015	2 6294	2 63%	3 03%	6/6/1985	11 66%	5/30/1985	10 695
2/25/2015	2 5698	2 57%	3 03%	6/7/1985	11 65%	5/31/1985	10 556
2/24/2015	2 5918	2 59%	3 04%	6/10/1985	11 64%	6/3/1985	10 381
2/23/2015	2 6572	2 66%	3 04%	6/12/1985	11 63%	6/4/1985	10 318
2/20/2015	2 7142	2 71%	3 04%	6/13/1985	11 61%	6/5/1985	10 268
2/19/2015	2 7339	2 73%	3 05%	6/14/1985	11 60%	6/6/1985	10 306
2/18/2015	2 7102	2 71%	3 05%	6/17/1985	11 59%	6/7/1985	10 523
2/17/2015	2 7268	2 73%	3 05%	6/18/1985	11 58%	6/10/1985	10 433
2/16/2015	2 6478	2 65%	3 06%	6/19/1985	11 57%	6/12/1985	10 458
2/13/2015	2 6478	2 65%	3 06%	6/20/1985	11 56%	6/13/1985	10 458
2/12/2015	2 5755	2 58%	3 06%	6/21/1985	11 55%	6/14/1985	10 343
2/11/2015	2 5863	2 59%	3 07%	6/24/1985	11 54%	6/17/1985	10 255
2/10/2015	2 5763	2 58%	3 07%	6/25/1985	11 53%	6/18/1985	10 237
2/9/2015	2 5528	2 55%	3 08%	6/26/1985	11 53%	6/19/1985	10 369
2/6/2015	2 5287	2 53%	3 08%	6/27/1985	11 52%	6/20/1985	10 491
2/5/2015	2 4318	2 43%	3 09%	6/28/1985	11 51%	6/21/1985	10 563
2/4/2015	2 3481	2 35%	3 09%	7/1/1985	11 50%	6/24/1985	10 609
2/3/2015	2 3792	2 38%	3 10%	7/2/1985	11 48%	6/25/1985	10 695
2/2/2015	2 2503	2 25%	3 10%	7/3/1985	11 47%	6/26/1985	10 622
1/30/2015	2 2222	2 22%	3 11%	7/5/1985	11 46%	6/27/1985	10 55
1/29/2015	2 3148	2 31%	3 11%	7/8/1985	11 45%	6/28/1985	10 439
1/28/2015	2 2908	2 29%	3 12%	7/9/1985	11 44%	7/1/1985	10 427
1/27/2015	2 3999	2 40%	3 13%	7/10/1985	11 43%	7/2/1985	10 427
1/26/2015	2 3972	2 40%	3 13%	7/11/1985	11 42%	7/3/1985	10 427
1/23/2015	2 3735	2 37%	3 14%	7/12/1985	11 41%	7/5/1985	10 275
1/22/2015	2 4385	2 44%	3 14%	7/15/1985	11 40%	7/8/1985	10 281
1/21/2015	2 4614	2 46%	3 15%	7/16/1985	11 39%	7/9/1985	10 281
1/20/2015	2 3777	2 38%	3 15%	7/17/1985	11 38%	7/10/1985	10 338
1/19/2015	2 4531	2 45%	3 16%	7/18/1985	11 37%	7/11/1985	10 44
1/16/2015	2 4531	2 45%	3 16%	7/19/1985	11 36%	7/12/1985	10 44
1/15/2015	2 3677	2 37%	3 17%	7/22/1985	11 35%	7/15/1985	10 453
1/14/2015	2 4685	2 47%	3 17%	7/23/1985	11 34%	7/16/1985	10 344
1/13/2015	2 4992	2 50%	3 18%	7/24/1985	11 34%	7/17/1985	10 294
1/12/2015	2 4965	2 50%	3 19%	7/25/1985	11 33%	7/18/1985	10 498
1/9/2015	2 5281	2 53%	3 19%	7/26/1985	11 32%	7/19/1985	10 492
1/8/2015	2 5993	2 60%	3 20%	7/29/1985	11 32%	7/22/1985	10 577
1/7/2015	2 5289	2 53%	3 20%	7/30/1985	11 31%	7/23/1985	10 571
1/6/2015	2 5023	2 50%	3 21%	7/31/1985	11 30%	7/24/1985	10 604
1/5/2015	2 5987	2 60%	3 21%	8/1/1985	11 29%	7/25/1985	10 61
1/2/2015	2 688	2 69%	3 22%	8/2/1985	11 29%	7/26/1985	10 737
1/1/2015	2 7518	2 75%	3 22%	8/5/1985	11 28%	7/29/1985	10 764
12/31/2014	2 7518	2 75%	3 23%	8/6/1985	11 27%	7/30/1985	10 765
12/30/2014	2 7563	2 76%	3 23%	8/7/1985	11 26%	7/31/1985	10 657
12/29/2014	2 7728	2 77%	3 23%	8/8/1985	11 25%	8/1/1985	10 637
12/26/2014	2 8165	2 82%	3 24%	8/9/1985	11 24%	8/2/1985	10 772
12/25/2014	2 8341	2 83%	3 24%	8/12/1985	11 24%	8/5/1985	10 718
12/24/2014	2 8341	2 83%	3 24%	8/13/1985	11 23%	8/6/1985	10 718
12/23/2014	2 8517	2 85%	3 25%	8/14/1985	11 22%	8/7/1985	10 698
12/22/2014	2 743	2 74%	3 25%	8/15/1985	11 21%	8/8/1985	10 662
12/19/2014	2 7542	2 75%	3 26%	8/16/1985	11 21%	8/9/1985	10 599
12/18/2014	2 8182	2 82%	3 26%	8/19/1985	11 20%	8/12/1985	10 641
12/17/2014	2 7275	2 73%	3 27%	8/20/1985	11 19%	8/13/1985	10 683
12/16/2014	2 6906	2 69%	3 27%	8/21/1985	11 18%	8/14/1985	10 599
12/15/2014	2 7468	2 75%	3 28%	8/22/1985	11 17%	8/15/1985	10 676
12/12/2014	2 7372	2 74%	3 28%	8/23/1985	11 17%	8/16/1985	10 517
12/11/2014	2 8069	2 81%	3 28%	8/26/1985	11 16%	8/19/1985	10 503
12/10/2014	2 832	2 83%	3 29%	8/27/1985	11 16%	8/20/1985	10 462
12/9/2014	2 8702	2 87%	3 29%	8/28/1985	11 15%	8/21/1985	10 411
12/8/2014	2 9042	2 90%	3 30%	8/29/1985	11 14%	8/22/1985	10 408

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
12/5/2014	2 9667	2 97%	3 30%	8/30/1985	11 14%	8/23/1985	10 435
12/4/2014	2 9361	2 94%	3 30%	9/3/1985	11 13%	8/26/1985	10 435
12/3/2014	2 9849	2 98%	3 31%	9/4/1985	11 12%	8/27/1985	10 367
12/2/2014	3 0127	3 01%	3 31%	9/5/1985	11 12%	8/28/1985	10 361
12/1/2014	2 9628	2 96%	3 31%	9/6/1985	11 12%	8/29/1985	10 361
11/28/2014	2 8888	2 89%	3 32%	9/9/1985	11 11%	8/30/1985	10 468
11/27/2014	2 9542	2 95%	3 32%	9/10/1985	11 11%	9/3/1985	10 441
11/26/2014	2 9542	2 95%	3 32%	9/11/1985	11 10%	9/4/1985	10 394
11/25/2014	2 9605	2 96%	3 33%	9/12/1985	11 10%	9/5/1985	10 474
11/24/2014	3 0199	3 02%	3 33%	9/13/1985	11 09%	9/6/1985	10 702
11/21/2014	3 0175	3 02%	3 34%	9/16/1985	11 09%	9/9/1985	10 702
11/20/2014	3 0543	3 05%	3 34%	9/17/1985	11 08%	9/10/1985	10 695
11/19/2014	3 0769	3 08%	3 34%	9/18/1985	11 08%	9/11/1985	10 709
11/18/2014	3 0383	3 04%	3 35%	9/19/1985	11 07%	9/12/1985	10 751
11/17/2014	3 0624	3 06%	3 35%	9/20/1985	11 07%	9/13/1985	10 583
11/14/2014	3 0487	3 05%	3 35%	9/23/1985	11 06%	9/16/1985	10 569
11/13/2014	3 0709	3 07%	3 36%	9/24/1985	11 06%	9/17/1985	10 604
11/12/2014	3 1046	3 10%	3 36%	9/25/1985	11 05%	9/18/1985	10 681
11/11/2014	3 0926	3 09%	3 36%	9/26/1985	11 05%	9/19/1985	10 611
11/10/2014	3 0926	3 09%	3 36%	9/27/1985	11 04%	9/20/1985	10 576
11/7/2014	3 028	3 03%	3 37%	9/30/1985	11 04%	9/23/1985	10 624
11/6/2014	3 103	3 10%	3 37%	10/1/1985	11 04%	9/24/1985	10 569
11/5/2014	3 059	3 06%	3 37%	10/2/1985	11 03%	9/25/1985	10 514
11/4/2014	3 0478	3 05%	3 37%	10/3/1985	11 03%	9/26/1985	10 494
11/3/2014	3 0638	3 06%	3 38%	10/4/1985	11 02%	9/27/1985	10 548
10/31/2014	3 0662	3 07%	3 38%	10/7/1985	11 02%	9/30/1985	10 555
10/30/2014	3 0463	3 05%	3 38%	10/8/1985	11 01%	10/1/1985	10 534
10/29/2014	3 0495	3 05%	3 39%	10/9/1985	11 01%	10/2/1985	10 555
10/28/2014	3 0678	3 07%	3 39%	10/10/1985	11 00%	10/3/1985	10 582
10/27/2014	3 0368	3 04%	3 39%	10/11/1985	11 00%	10/4/1985	10 624
10/24/2014	3 0423	3 04%	3 40%	10/15/1985	10 99%	10/7/1985	10 652
10/23/2014	3 0431	3 04%	3 40%	10/16/1985	10 99%	10/8/1985	10 603
10/22/2014	2 9904	2 99%	3 40%	10/17/1985	10 98%	10/9/1985	10 61
10/21/2014	2 9904	2 99%	3 41%	10/18/1985	10 98%	10/10/1985	10 589
10/20/2014	2 9655	2 97%	3 41%	10/21/1985	10 97%	10/11/1985	10 596
10/17/2014	2 9678	2 97%	3 42%	10/22/1985	10 97%	10/15/1985	10 534
10/16/2014	2 9353	2 94%	3 42%	10/23/1985	10 96%	10/16/1985	10 527
10/15/2014	2 9176	2 92%	3 42%	10/24/1985	10 96%	10/17/1985	10 445
10/14/2014	2 9531	2 95%	3 43%	10/25/1985	10 95%	10/18/1985	10 439
10/13/2014	3 0124	3 01%	3 43%	10/28/1985	10 95%	10/21/1985	10 425
10/10/2014	3 0124	3 01%	3 44%	10/29/1985	10 94%	10/22/1985	10 371
10/9/2014	3 0496	3 05%	3 44%	10/30/1985	10 93%	10/23/1985	10 371
10/8/2014	3 0599	3 06%	3 45%	10/31/1985	10 93%	10/24/1985	10 391
10/7/2014	3 0464	3 05%	3 45%	11/1/1985	10 92%	10/25/1985	10 445
10/6/2014	3 1273	3 13%	3 46%	11/4/1985	10 91%	10/28/1985	10 513
10/3/2014	3 1233	3 12%	3 46%	11/5/1985	10 91%	10/29/1985	10 325
10/2/2014	3 1427	3 14%	3 46%	11/6/1985	10 90%	10/30/1985	10 265
10/1/2014	3 0919	3 09%	3 47%	11/7/1985	10 89%	10/31/1985	10 246
9/30/2014	3 1967	3 20%	3 47%	11/8/1985	10 89%	11/1/1985	10 226
9/29/2014	3 1647	3 16%	3 48%	11/12/1985	10 88%	11/4/1985	10 207
9/26/2014	3 214	3 21%	3 48%	11/13/1985	10 87%	11/5/1985	10 161
9/25/2014	3 2115	3 21%	3 48%	11/14/1985	10 86%	11/6/1985	10 181
9/24/2014	3 279	3 28%	3 49%	11/15/1985	10 86%	11/7/1985	10 168
9/23/2014	3 2463	3 25%	3 49%	11/18/1985	10 85%	11/8/1985	10 129
9/22/2014	3 2891	3 29%	3 49%	11/19/1985	10 84%	11/12/1985	10 027
9/19/2014	3 284	3 28%	3 50%	11/20/1985	10 83%	11/13/1985	10 059
9/18/2014	3 3476	3 35%	3 50%	11/21/1985	10 83%	11/14/1985	10 161
9/17/2014	3 369	3 37%	3 50%	11/22/1985	10 82%	11/15/1985	10 135
9/16/2014	3 3604	3 36%	3 50%	11/25/1985	10 82%	11/18/1985	10 008
9/15/2014	3 3433	3 34%	3 51%	11/26/1985	10 81%	11/19/1985	9 977
9/12/2014	3 3441	3 34%	3 51%	11/27/1985	10 80%	11/20/1985	9 915
9/11/2014	3 2772	3 28%	3 51%	11/29/1985	10 80%	11/21/1985	9 921
9/10/2014	3 2722	3 27%	3 51%	12/2/1985	10 79%	11/22/1985	9 996
9/9/2014	3 2338	3 23%	3 52%	12/3/1985	10 78%	11/25/1985	9 962
9/8/2014	3 2247	3 22%	3 52%	12/4/1985	10 78%	11/26/1985	9 949
9/5/2014	3 2263	3 23%	3 52%	12/5/1985	10 77%	11/27/1985	9 896
9/4/2014	3 209	3 21%	3 53%	12/6/1985	10 76%	11/29/1985	9 837
9/3/2014	3 1419	3 14%	3 53%	12/9/1985	10 75%	12/2/1985	9 935
9/2/2014	3 1753	3 18%	3 53%	12/10/1985	10 75%	12/3/1985	9 882
9/1/2014	3 0792	3 08%	3 54%	12/11/1985	10 74%	12/4/1985	9 863
8/29/2014	3 0792	3 08%	3 54%	12/12/1985	10 73%	12/5/1985	9 876
8/28/2014	3 0744	3 07%	3 54%	12/13/1985	10 72%	12/6/1985	9 856
8/27/2014	3 1024	3 10%	3 55%	12/16/1985	10 71%	12/9/1985	9 714
8/26/2014	3 1623	3 16%	3 55%	12/17/1985	10 70%	12/10/1985	9 664
8/25/2014	3 1314	3 13%	3 56%	12/18/1985	10 69%	12/11/1985	9 527

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
8/22/2014	3 1566	3 16%	3 56%	12/19/1985	10 68%	12/12/1985	9 539
8/21/2014	3 1884	3 19%	3 56%	12/20/1985	10 66%	12/13/1985	9 52
8/20/2014	3 2205	3 22%	3 56%	12/23/1985	10 65%	12/16/1985	9 447
8/19/2014	3 2131	3 21%	3 57%	12/24/1985	10 64%	12/17/1985	9 339
8/18/2014	3 1983	3 20%	3 57%	12/26/1985	10 63%	12/18/1985	9 392
8/15/2014	3 1323	3 13%	3 57%	12/27/1985	10 61%	12/19/1985	9 392
8/14/2014	3 1917	3 19%	3 58%	12/30/1985	10 60%	12/20/1985	9 326
8/13/2014	3 2432	3 24%	3 58%	12/31/1985	10 59%	12/23/1985	9 338
8/12/2014	3 2765	3 28%	3 58%	1/2/1986	10 58%	12/24/1985	9 32
8/11/2014	3 2432	3 24%	3 59%	1/3/1986	10 56%	12/26/1985	9 291
8/8/2014	3 2303	3 23%	3 59%	1/6/1986	10 55%	12/27/1985	9 267
8/7/2014	3 2239	3 22%	3 59%	1/7/1986	10 54%	12/30/1985	9 261
8/6/2014	3 27	3 27%	3 59%	1/8/1986	10 52%	12/31/1985	9 267
8/5/2014	3 2831	3 28%	3 60%	1/9/1986	10 51%	1/2/1986	9 273
8/4/2014	3 288	3 29%	3 60%	1/10/1986	10 50%	1/3/1986	9 278
8/1/2014	3 2807	3 28%	3 60%	1/13/1986	10 49%	1/6/1986	9 302
7/31/2014	3 3167	3 32%	3 60%	1/14/1986	10 48%	1/7/1986	9 161
7/30/2014	3 3126	3 31%	3 60%	1/15/1986	10 47%	1/8/1986	9 32
7/29/2014	3 2248	3 22%	3 60%	1/16/1986	10 46%	1/9/1986	9 44
7/28/2014	3 2547	3 25%	3 61%	1/17/1986	10 44%	1/10/1986	9 569
7/25/2014	3 2385	3 24%	3 61%	1/21/1986	10 43%	1/13/1986	9 606
7/24/2014	3 2954	3 30%	3 61%	1/22/1986	10 42%	1/14/1986	9 556
7/23/2014	3 2636	3 26%	3 61%	1/23/1986	10 41%	1/15/1986	9 403
7/22/2014	3 2498	3 25%	3 61%	1/24/1986	10 40%	1/16/1986	9 355
7/21/2014	3 2563	3 26%	3 62%	1/27/1986	10 39%	1/17/1986	9 421
7/18/2014	3 2881	3 29%	3 62%	1/28/1986	10 38%	1/21/1986	9 415
7/17/2014	3 2661	3 27%	3 62%	1/29/1986	10 37%	1/22/1986	9 427
7/16/2014	3 3374	3 34%	3 62%	1/30/1986	10 36%	1/23/1986	9 409
7/15/2014	3 3673	3 37%	3 62%	1/31/1986	10 35%	1/24/1986	9 415
7/14/2014	3 3715	3 37%	3 63%	2/3/1986	10 34%	1/27/1986	9 355
7/11/2014	3 3366	3 34%	3 63%	2/4/1986	10 33%	1/28/1986	9 284
7/10/2014	3 3698	3 37%	3 63%	2/5/1986	10 32%	1/29/1986	9 337
7/9/2014	3 374	3 37%	3 63%	2/6/1986	10 31%	1/30/1986	9 343
7/8/2014	3 3723	3 37%	3 63%	2/7/1986	10 30%	1/31/1986	9 319
7/7/2014	3 4362	3 44%	3 63%	2/10/1986	10 29%	2/3/1986	9 242
7/4/2014	3 4694	3 47%	3 64%	2/11/1986	10 27%	2/4/1986	9 236
7/3/2014	3 4694	3 47%	3 64%	2/12/1986	10 26%	2/5/1986	9 278
7/2/2014	3 4609	3 46%	3 64%	2/13/1986	10 25%	2/6/1986	9 265
7/1/2014	3 3983	3 40%	3 64%	2/14/1986	10 24%	2/7/1986	9 292
6/30/2014	3 3599	3 36%	3 64%	2/18/1986	10 22%	2/10/1986	9 203
6/27/2014	3 3665	3 37%	3 64%	2/19/1986	10 21%	2/11/1986	9 16
6/26/2014	3 3557	3 36%	3 64%	2/20/1986	10 20%	2/12/1986	9 129
6/25/2014	3 3815	3 38%	3 65%	2/21/1986	10 19%	2/13/1986	9 045
6/24/2014	3 3991	3 40%	3 65%	2/24/1986	10 17%	2/14/1986	8 939
6/23/2014	3 4549	3 45%	3 65%	2/25/1986	10 16%	2/18/1986	8 892
6/20/2014	3 4337	3 43%	3 65%	2/26/1986	10 15%	2/19/1986	8 909
6/19/2014	3 466	3 47%	3 65%	2/27/1986	10 13%	2/20/1986	8 857
6/18/2014	3 4008	3 40%	3 66%	2/28/1986	10 12%	2/21/1986	8 698
6/17/2014	3 4421	3 44%	3 66%	3/3/1986	10 10%	2/24/1986	8 625
6/16/2014	3 3958	3 40%	3 66%	3/4/1986	10 09%	2/25/1986	8 614
6/13/2014	3 4134	3 41%	3 66%	3/5/1986	10 07%	2/26/1986	8 456
6/12/2014	3 4101	3 41%	3 67%	3/6/1986	10 06%	2/27/1986	8 297
6/11/2014	3 4659	3 47%	3 67%	3/7/1986	10 04%	2/28/1986	8 281
6/10/2014	3 4779	3 48%	3 67%	3/10/1986	10 03%	3/3/1986	8 094
6/9/2014	3 4388	3 44%	3 67%	3/11/1986	10 01%	3/4/1986	8 052
6/6/2014	3 432	3 43%	3 67%	3/12/1986	10 00%	3/5/1986	8 24
6/5/2014	3 4362	3 44%	3 67%	3/13/1986	9 98%	3/6/1986	8 193
6/4/2014	3 4396	3 44%	3 68%	3/14/1986	9 97%	3/7/1986	8 145
6/3/2014	3 4379	3 44%	3 68%	3/17/1986	9 96%	3/10/1986	8 002
6/2/2014	3 3691	3 37%	3 68%	3/18/1986	9 94%	3/11/1986	7 894
5/30/2014	3 3277	3 33%	3 68%	3/19/1986	9 93%	3/12/1986	7 943
5/29/2014	3 3228	3 32%	3 68%	3/20/1986	9 92%	3/13/1986	7 913
5/28/2014	3 2942	3 29%	3 68%	3/21/1986	9 90%	3/14/1986	7 952
5/27/2014	3 3608	3 36%	3 69%	3/24/1986	9 89%	3/17/1986	7 979
5/26/2014	3 3933	3 39%	3 69%	3/25/1986	9 88%	3/18/1986	7 952
5/23/2014	3 3933	3 39%	3 69%	3/26/1986	9 87%	3/19/1986	7 991
5/22/2014	3 4261	3 43%	3 70%	3/27/1986	9 85%	3/20/1986	7 952
5/21/2014	3 4118	3 41%	3 70%	3/31/1986	9 84%	3/21/1986	7 969
5/20/2014	3 3833	3 38%	3 70%	4/1/1986	9 82%	3/24/1986	7 932
5/19/2014	3 3858	3 39%	3 70%	4/2/1986	9 81%	3/25/1986	7 888
5/16/2014	3 346	3 35%	3 70%	4/3/1986	9 79%	3/26/1986	7 783
5/15/2014	3 3245	3 32%	3 70%	4/4/1986	9 78%	3/27/1986	7 592
5/14/2014	3 3767	3 38%	3 71%	4/7/1986	9 77%	3/31/1986	7 44
5/13/2014	3 4464	3 45%	3 71%	4/8/1986	9 75%	4/1/1986	7 456
5/12/2014	3 4967	3 50%	3 71%	4/9/1986	9 73%	4/2/1986	7 38

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
5/9/2014	3 4634	3 46%	3 71%	4/10/1986	9 72%	4/3/1986	7 474
5/8/2014	3 4344	3 43%	3 71%	4/11/1986	9 70%	4/4/1986	7 55
5/7/2014	3 4025	3 40%	3 71%	4/14/1986	9 68%	4/7/1986	7 577
5/6/2014	3 383	3 38%	3 71%	4/15/1986	9 67%	4/8/1986	7 36
5/5/2014	3 4074	3 41%	3 72%	4/16/1986	9 65%	4/9/1986	7 321
5/2/2014	3 3668	3 37%	3 72%	4/17/1986	9 63%	4/10/1986	7 308
5/1/2014	3 4132	3 41%	3 72%	4/18/1986	9 62%	4/11/1986	7 362
4/30/2014	3 4593	3 46%	3 72%	4/21/1986	9 60%	4/14/1986	7 288
4/29/2014	3 4867	3 49%	3 72%	4/22/1986	9 59%	4/15/1986	7 318
4/28/2014	3 4859	3 49%	3 72%	4/23/1986	9 57%	4/16/1986	7 109
4/25/2014	3 4428	3 44%	3 72%	4/24/1986	9 56%	4/17/1986	7 128
4/24/2014	3 4527	3 45%	3 72%	4/25/1986	9 54%	4/18/1986	7 153
4/23/2014	3 4784	3 48%	3 72%	4/28/1986	9 53%	4/21/1986	7 147
4/22/2014	3 4942	3 49%	3 72%	4/29/1986	9 51%	4/22/1986	7 331
4/21/2014	3 5219	3 52%	3 72%	4/30/1986	9 50%	4/23/1986	7 439
4/18/2014	3 5219	3 52%	3 72%	5/1/1986	9 48%	4/24/1986	7 613
4/17/2014	3 5219	3 52%	3 72%	5/2/1986	9 47%	4/25/1986	7 567
4/16/2014	3 4437	3 44%	3 73%	5/5/1986	9 46%	4/28/1986	7 495
4/15/2014	3 4611	3 46%	3 73%	5/6/1986	9 44%	4/29/1986	7 414
4/14/2014	3 4876	3 49%	3 73%	5/7/1986	9 43%	4/30/1986	7 45
4/11/2014	3 4827	3 48%	3 73%	5/8/1986	9 41%	5/1/1986	7 549
4/10/2014	3 5194	3 52%	3 73%	5/9/1986	9 39%	5/2/1986	7 618
4/9/2014	3 5726	3 57%	3 73%	5/12/1986	9 38%	5/5/1986	7 445
4/8/2014	3 5379	3 54%	3 73%	5/13/1986	9 36%	5/6/1986	7 492
4/7/2014	3 5574	3 56%	3 73%	5/14/1986	9 35%	5/7/1986	7 508
4/4/2014	3 5837	3 58%	3 73%	5/15/1986	9 33%	5/8/1986	7 403
4/3/2014	3 6291	3 63%	3 73%	5/16/1986	9 31%	5/9/1986	7 351
4/2/2014	3 6473	3 65%	3 73%	5/19/1986	9 30%	5/12/1986	7 435
4/1/2014	3 6059	3 61%	3 73%	5/20/1986	9 28%	5/13/1986	7 398
3/31/2014	3 5583	3 56%	3 73%	5/21/1986	9 27%	5/14/1986	7 456
3/28/2014	3 5473	3 55%	3 73%	5/22/1986	9 25%	5/15/1986	7 554
3/27/2014	3 5271	3 53%	3 73%	5/23/1986	9 24%	5/16/1986	7 614
3/26/2014	3 5422	3 54%	3 73%	5/27/1986	9 22%	5/19/1986	7 703
3/25/2014	3 5914	3 59%	3 73%	5/28/1986	9 20%	5/20/1986	7 543
3/24/2014	3 5617	3 56%	3 73%	5/29/1986	9 19%	5/21/1986	7 581
3/21/2014	3 6068	3 61%	3 73%	5/30/1986	9 17%	5/22/1986	7 502
3/20/2014	3 6629	3 66%	3 72%	6/2/1986	9 16%	5/23/1986	7 435
3/19/2014	3 6568	3 66%	3 72%	6/3/1986	9 15%	5/27/1986	7 387
3/18/2014	3 6137	3 61%	3 72%	6/4/1986	9 13%	5/28/1986	7 467
3/17/2014	3 6283	3 63%	3 72%	6/5/1986	9 12%	5/29/1986	7 692
3/14/2014	3 5992	3 60%	3 72%	6/6/1986	9 10%	5/30/1986	7 748
3/13/2014	3 5906	3 59%	3 72%	6/9/1986	9 09%	6/2/1986	7 915
3/12/2014	3 6733	3 67%	3 72%	6/10/1986	9 08%	6/3/1986	7 805
3/11/2014	3 7092	3 71%	3 71%	6/11/1986	9 06%	6/4/1986	7 886
3/10/2014	3 7215	3 72%	3 71%	6/12/1986	9 05%	6/5/1986	7 886
3/7/2014	3 7206	3 72%	3 71%	6/13/1986	9 03%	6/6/1986	7 666
3/6/2014	3 6899	3 69%	3 71%	6/16/1986	9 02%	6/9/1986	7 765
3/5/2014	3 6473	3 65%	3 70%	6/17/1986	9 00%	6/10/1986	7 742
3/4/2014	3 6473	3 65%	3 70%	6/18/1986	8 99%	6/11/1986	7 719
3/3/2014	3 5542	3 55%	3 70%	6/19/1986	8 98%	6/12/1986	7 647
2/28/2014	3 5822	3 58%	3 70%	6/20/1986	8 96%	6/13/1986	7 464
2/27/2014	3 5916	3 59%	3 70%	6/23/1986	8 95%	6/16/1986	7 445
2/26/2014	3 6249	3 62%	3 70%	6/24/1986	8 93%	6/17/1986	7 408
2/25/2014	3 6586	3 66%	3 69%	6/25/1986	8 91%	6/18/1986	7 44
2/24/2014	3 6986	3 70%	3 69%	6/26/1986	8 90%	6/19/1986	7 526
2/21/2014	3 6934	3 69%	3 69%	6/27/1986	8 88%	6/20/1986	7 434
2/20/2014	3 7232	3 72%	3 69%	6/30/1986	8 86%	6/23/1986	7 456
2/19/2014	3 7127	3 71%	3 68%	7/1/1986	8 84%	6/24/1986	7 345
2/18/2014	3 6777	3 68%	3 68%	7/2/1986	8 83%	6/25/1986	7 355
2/17/2014	3 6969	3 70%	3 68%	7/3/1986	8 81%	6/26/1986	7 339
2/14/2014	3 6969	3 70%	3 67%	7/7/1986	8 79%	6/27/1986	7 277
2/13/2014	3 6829	3 68%	3 67%	7/8/1986	8 77%	6/30/1986	7 23
2/12/2014	3 7201	3 72%	3 67%	7/9/1986	8 76%	7/1/1986	7 195
2/11/2014	3 688	3 69%	3 66%	7/10/1986	8 74%	7/2/1986	7 215
2/10/2014	3 6503	3 65%	3 66%	7/11/1986	8 72%	7/3/1986	7 164
2/7/2014	3 6726	3 67%	3 66%	7/14/1986	8 71%	7/7/1986	7 159
2/6/2014	3 6683	3 67%	3 65%	7/15/1986	8 69%	7/8/1986	7 22
2/5/2014	3 6477	3 65%	3 65%	7/16/1986	8 67%	7/9/1986	7 136
2/4/2014	3 601	3 60%	3 65%	7/17/1986	8 65%	7/10/1986	7 126
2/3/2014	3 5307	3 53%	3 64%	7/18/1986	8 64%	7/11/1986	7 182
1/31/2014	3 5985	3 60%	3 64%	7/21/1986	8 62%	7/14/1986	7 136
1/30/2014	3 6341	3 63%	3 64%	7/22/1986	8 60%	7/15/1986	7 114
1/29/2014	3 6163	3 62%	3 63%	7/23/1986	8 59%	7/16/1986	7 174
1/28/2014	3 6735	3 67%	3 63%	7/24/1986	8 57%	7/17/1986	7 177
1/27/2014	3 6649	3 66%	3 62%	7/25/1986	8 56%	7/18/1986	7 184

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
1/24/2014	3 6325	3 63%	3 62%	7/28/1986	8 54%	7/21/1986	7 174
1/23/2014	3 6821	3 68%	3 62%	7/29/1986	8 52%	7/22/1986	7 269
1/22/2014	3 7594	3 76%	3 61%	7/30/1986	8 51%	7/23/1986	7 339
1/21/2014	3 748	3 75%	3 61%	7/31/1986	8 49%	7/24/1986	7 386
1/20/2014	3 748	3 75%	3 60%	8/1/1986	8 48%	7/25/1986	7 407
1/17/2014	3 748	3 75%	3 60%	8/4/1986	8 46%	7/28/1986	7 566
1/16/2014	3 7726	3 77%	3 60%	8/5/1986	8 45%	7/29/1986	7 474
1/15/2014	3 823	3 82%	3 59%	8/6/1986	8 43%	7/30/1986	7 466
1/14/2014	3 8017	3 80%	3 59%	8/7/1986	8 42%	7/31/1986	7 418
1/13/2014	3 7726	3 77%	3 58%	8/8/1986	8 40%	8/1/1986	7 445
1/10/2014	3 7999	3 80%	3 58%	8/11/1986	8 39%	8/4/1986	7 45
1/9/2014	3 8795	3 88%	3 57%	8/12/1986	8 37%	8/5/1986	7 509
1/8/2014	3 8921	3 89%	3 57%	8/13/1986	8 36%	8/6/1986	7 575
1/7/2014	3 8849	3 88%	3 56%	8/14/1986	8 34%	8/7/1986	7 526
1/6/2014	3 9003	3 90%	3 56%	8/15/1986	8 33%	8/8/1986	7 415
1/3/2014	3 9248	3 92%	3 56%	8/18/1986	8 31%	8/11/1986	7 339
1/2/2014	3 9221	3 92%	3 55%	8/19/1986	8 29%	8/12/1986	7 344
1/1/2014	3 9679	3 97%	3 55%	8/20/1986	8 28%	8/13/1986	7 266
12/31/2013	3 9679	3 97%	3 54%	8/21/1986	8 26%	8/14/1986	7 282
12/30/2013	3 9012	3 90%	3 54%	8/22/1986	8 25%	8/15/1986	7 287
12/27/2013	3 9367	3 94%	3 54%	8/25/1986	8 23%	8/18/1986	7 264
12/26/2013	3 9239	3 92%	3 53%	8/26/1986	8 22%	8/19/1986	7 169
12/25/2013	3 893	3 89%	3 53%	8/28/1986	8 21%	8/20/1986	7 159
12/24/2013	3 893	3 89%	3 52%	8/29/1986	8 19%	8/21/1986	7 194
12/23/2013	3 8489	3 85%	3 52%	9/2/1986	8 18%	8/22/1986	7 274
12/20/2013	3 823	3 82%	3 52%	9/3/1986	8 16%	8/25/1986	7 225
12/19/2013	3 9093	3 91%	3 51%	9/4/1986	8 15%	8/26/1986	7 197
12/18/2013	3 9065	3 91%	3 51%	9/5/1986	8 14%	8/28/1986	7 246
12/17/2013	3 8659	3 87%	3 51%	9/8/1986	8 13%	8/29/1986	7 197
12/16/2013	3 8938	3 89%	3 50%	9/9/1986	8 11%	9/2/1986	7 323
12/13/2013	3 8731	3 87%	3 50%	9/10/1986	8 10%	9/3/1986	7 379
12/12/2013	3 8938	3 89%	3 50%	9/11/1986	8 09%	9/4/1986	7 418
12/11/2013	3 8857	3 89%	3 49%	9/12/1986	8 08%	9/5/1986	7 531
12/10/2013	3 8381	3 84%	3 49%	9/15/1986	8 07%	9/8/1986	7 603
12/9/2013	3 8713	3 87%	3 49%	9/16/1986	8 06%	9/9/1986	7 466
12/6/2013	3 8893	3 89%	3 48%	9/17/1986	8 04%	9/10/1986	7 545
12/5/2013	3 9138	3 91%	3 48%	9/18/1986	8 03%	9/11/1986	7 72
12/4/2013	3 9011	3 90%	3 47%	9/19/1986	8 02%	9/12/1986	7 675
12/3/2013	3 8444	3 84%	3 47%	9/22/1986	8 01%	9/15/1986	7 639
12/2/2013	3 856	3 86%	3 47%	9/23/1986	8 00%	9/16/1986	7 658
11/29/2013	3 8106	3 81%	3 46%	9/24/1986	7 99%	9/17/1986	7 639
11/28/2013	3 815	3 82%	3 46%	9/25/1986	7 98%	9/18/1986	7 737
11/27/2013	3 815	3 82%	3 46%	9/26/1986	7 97%	9/19/1986	7 817
11/26/2013	3 7982	3 80%	3 45%	9/29/1986	7 96%	9/22/1986	7 777
11/25/2013	3 8186	3 82%	3 45%	9/30/1986	7 95%	9/23/1986	7 709
11/22/2013	3 8292	3 83%	3 45%	10/1/1986	7 94%	9/24/1986	7 631
11/21/2013	3 8875	3 89%	3 44%	10/2/1986	7 93%	9/25/1986	7 661
11/20/2013	3 911	3 91%	3 44%	10/3/1986	7 92%	9/26/1986	7 631
11/19/2013	3 8	3 80%	3 44%	10/6/1986	7 91%	9/29/1986	7 692
11/18/2013	3 7552	3 76%	3 43%	10/7/1986	7 90%	9/30/1986	7 592
11/15/2013	3 7947	3 79%	3 43%	10/8/1986	7 90%	10/1/1986	7 6
11/14/2013	3 7867	3 79%	3 43%	10/9/1986	7 89%	10/2/1986	7 625
11/13/2013	3 8191	3 82%	3 42%	10/10/1986	7 88%	10/3/1986	7 524
11/12/2013	3 8573	3 86%	3 42%	10/14/1986	7 87%	10/6/1986	7 526
11/11/2013	3 8454	3 85%	3 42%	10/15/1986	7 86%	10/7/1986	7 537
11/8/2013	3 8454	3 85%	3 41%	10/16/1986	7 86%	10/8/1986	7 614
11/7/2013	3 7084	3 71%	3 41%	10/17/1986	7 85%	10/9/1986	7 609
11/6/2013	3 7732	3 77%	3 41%	10/20/1986	7 84%	10/10/1986	7 659
11/5/2013	3 7714	3 77%	3 40%	10/21/1986	7 83%	10/14/1986	7 789
11/4/2013	3 6926	3 69%	3 40%	10/22/1986	7 83%	10/15/1986	7 752
11/1/2013	3 6961	3 70%	3 40%	10/23/1986	7 82%	10/16/1986	7 798
10/31/2013	3 6386	3 64%	3 40%	10/24/1986	7 81%	10/17/1986	7 832
10/30/2013	3 6412	3 64%	3 39%	10/27/1986	7 80%	10/20/1986	7 902
10/29/2013	3 6127	3 61%	3 39%	10/28/1986	7 79%	10/21/1986	7 821
10/28/2013	3 6179	3 62%	3 39%	10/29/1986	7 78%	10/22/1986	7 767
10/25/2013	3 5999	3 60%	3 39%	10/30/1986	7 77%	10/23/1986	7 718
10/24/2013	3 611	3 61%	3 38%	10/31/1986	7 77%	10/24/1986	7 764
10/23/2013	3 5947	3 59%	3 38%	11/3/1986	7 76%	10/27/1986	7 718
10/22/2013	3 6085	3 61%	3 38%	11/4/1986	7 75%	10/28/1986	7 784
10/21/2013	3 6698	3 67%	3 37%	11/5/1986	7 74%	10/29/1986	7 676
10/18/2013	3 6412	3 64%	3 37%	11/6/1986	7 73%	10/30/1986	7 598
10/17/2013	3 6585	3 66%	3 37%	11/7/1986	7 72%	10/31/1986	7 607
10/16/2013	3 7207	3 72%	3 36%	11/10/1986	7 71%	11/3/1986	7 568
10/15/2013	3 7891	3 79%	3 36%	11/12/1986	7 70%	11/4/1986	7 574
10/14/2013	3 7472	3 75%	3 36%	11/13/1986	7 69%	11/5/1986	7 588

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
10/11/2013	3 7472	3 75%	3 35%	11/14/1986	7 68%	11/6/1986	7 544
10/10/2013	3 7339	3 73%	3 35%	11/17/1986	7 68%	11/7/1986	7 662
10/9/2013	3 7374	3 74%	3 35%	11/18/1986	7 67%	11/10/1986	7 614
10/8/2013	3 6899	3 69%	3 34%	11/19/1986	7 66%	11/12/1986	7 587
10/7/2013	3 6917	3 69%	3 34%	11/20/1986	7 65%	11/13/1986	7 584
10/4/2013	3 7198	3 72%	3 34%	11/21/1986	7 64%	11/14/1986	7 52
10/3/2013	3 7074	3 71%	3 33%	11/24/1986	7 63%	11/17/1986	7 476
10/2/2013	3 7013	3 70%	3 33%	11/25/1986	7 62%	11/18/1986	7 512
10/1/2013	3 7171	3 72%	3 33%	11/26/1986	7 61%	11/19/1986	7 426
9/30/2013	3 6847	3 68%	3 32%	11/28/1986	7 60%	11/20/1986	7 483
9/27/2013	3 6864	3 69%	3 32%	12/1/1986	7 59%	11/21/1986	7 434
9/26/2013	3 6951	3 70%	3 31%	12/2/1986	7 58%	11/24/1986	7 382
9/25/2013	3 6698	3 67%	3 31%	12/3/1986	7 58%	11/25/1986	7 441
9/24/2013	3 6698	3 67%	3 31%	12/4/1986	7 57%	11/26/1986	7 41
9/23/2013	3 725	3 73%	3 30%	12/5/1986	7 56%	11/28/1986	7 403
9/20/2013	3 7613	3 76%	3 30%	12/8/1986	7 55%	12/1/1986	7 4
9/19/2013	3 8024	3 80%	3 30%	12/9/1986	7 55%	12/2/1986	7 348
9/18/2013	3 7471	3 75%	3 29%	12/10/1986	7 54%	12/3/1986	7 318
9/17/2013	3 8322	3 83%	3 29%	12/11/1986	7 53%	12/4/1986	7 26
9/16/2013	3 8667	3 87%	3 28%	12/12/1986	7 53%	12/5/1986	7 361
9/13/2013	3 8349	3 83%	3 28%	12/15/1986	7 52%	12/8/1986	7 318
9/12/2013	3 8521	3 85%	3 27%	12/16/1986	7 52%	12/9/1986	7 335
9/11/2013	3 8539	3 85%	3 27%	12/17/1986	7 52%	12/10/1986	7 313
9/10/2013	3 8941	3 89%	3 26%	12/18/1986	7 51%	12/11/1986	7 356
9/9/2013	3 853	3 85%	3 26%	12/19/1986	7 51%	12/12/1986	7 392
9/6/2013	3 8657	3 87%	3 25%	12/22/1986	7 50%	12/15/1986	7 402
9/5/2013	3 8849	3 88%	3 24%	12/23/1986	7 50%	12/16/1986	7 381
9/4/2013	3 797	3 80%	3 24%	12/24/1986	7 50%	12/17/1986	7 376
9/3/2013	3 7943	3 79%	3 23%	12/26/1986	7 49%	12/18/1986	7 371
9/2/2013	3 6995	3 70%	3 23%	12/29/1986	7 49%	12/19/1986	7 363
8/30/2013	3 6995	3 70%	3 22%	12/30/1986	7 49%	12/22/1986	7 348
8/29/2013	3 7144	3 71%	3 22%	12/31/1986	7 49%	12/23/1986	7 343
8/28/2013	3 7356	3 74%	3 22%	1/2/1987	7 48%	12/24/1986	7 335
8/27/2013	3 6916	3 69%	3 21%	1/5/1987	7 48%	12/26/1986	7 333
8/26/2013	3 7648	3 76%	3 21%	1/6/1987	7 48%	12/29/1986	7 428
8/23/2013	3 7916	3 79%	3 20%	1/7/1987	7 47%	12/30/1986	7 443
8/22/2013	3 8702	3 87%	3 20%	1/8/1987	7 47%	12/31/1986	7 485
8/21/2013	3 9197	3 92%	3 19%	1/9/1987	7 47%	1/2/1987	7 397
8/20/2013	3 8529	3 85%	3 18%	1/12/1987	7 46%	1/5/1987	7 335
8/19/2013	3 8995	3 90%	3 18%	1/13/1987	7 46%	1/6/1987	7 35
8/16/2013	3 8483	3 85%	3 17%	1/14/1987	7 46%	1/7/1987	7 289
8/15/2013	3 8086	3 81%	3 17%	1/15/1987	7 46%	1/8/1987	7 322
8/14/2013	3 7523	3 75%	3 16%	1/16/1987	7 46%	1/9/1987	7 279
8/13/2013	3 7594	3 76%	3 16%	1/20/1987	7 46%	1/12/1987	7 335
8/12/2013	3 6838	3 68%	3 15%	1/21/1987	7 46%	1/13/1987	7 365
8/9/2013	3 6345	3 63%	3 15%	1/22/1987	7 46%	1/14/1987	7 399
8/8/2013	3 6729	3 67%	3 14%	1/23/1987	7 46%	1/15/1987	7 381
8/7/2013	3 6854	3 69%	3 14%	1/26/1987	7 46%	1/16/1987	7 33
8/6/2013	3 728	3 73%	3 14%	1/27/1987	7 46%	1/20/1987	7 314
8/5/2013	3 726	3 73%	3 13%	1/28/1987	7 46%	1/21/1987	7 322
8/2/2013	3 6843	3 68%	3 13%	1/29/1987	7 46%	1/22/1987	7 34
8/1/2013	3 7542	3 75%	3 12%	1/30/1987	7 46%	1/23/1987	7 44
7/31/2013	3 6353	3 64%	3 12%	2/2/1987	7 46%	1/26/1987	7 472
7/30/2013	3 6821	3 68%	3 12%	2/3/1987	7 46%	1/27/1987	7 477
7/29/2013	3 6744	3 67%	3 11%	2/4/1987	7 47%	1/28/1987	7 459
7/26/2013	3 6209	3 62%	3 11%	2/5/1987	7 47%	1/29/1987	7 443
7/25/2013	3 6407	3 64%	3 11%	2/6/1987	7 47%	1/30/1987	7 474
7/24/2013	3 6464	3 65%	3 10%	2/9/1987	7 47%	2/2/1987	7 501
7/23/2013	3 5773	3 58%	3 10%	2/10/1987	7 47%	2/3/1987	7 516
7/22/2013	3 5501	3 55%	3 10%	2/11/1987	7 47%	2/4/1987	7 508
7/19/2013	3 5604	3 56%	3 09%	2/12/1987	7 47%	2/5/1987	7 417
7/18/2013	3 6262	3 63%	3 09%	2/13/1987	7 47%	2/6/1987	7 459
7/17/2013	3 5752	3 58%	3 09%	2/17/1987	7 47%	2/9/1987	7 516
7/16/2013	3 5855	3 59%	3 08%	2/18/1987	7 47%	2/10/1987	7 602
7/15/2013	3 593	3 59%	3 08%	2/19/1987	7 47%	2/11/1987	7 604
7/12/2013	3 625	3 63%	3 08%	2/20/1987	7 47%	2/12/1987	7 556
7/11/2013	3 6297	3 63%	3 07%	2/23/1987	7 47%	2/13/1987	7 58
7/10/2013	3 6496	3 65%	3 07%	2/24/1987	7 47%	2/17/1987	7 596
7/9/2013	3 6477	3 65%	3 06%	2/25/1987	7 47%	2/18/1987	7 58
7/8/2013	3 6334	3 63%	3 06%	2/26/1987	7 47%	2/19/1987	7 538
7/5/2013	3 713	3 71%	3 06%	2/27/1987	7 47%	2/20/1987	7 554
7/4/2013	3 4931	3 49%	3 05%	3/2/1987	7 47%	2/23/1987	7 522
7/3/2013	3 4931	3 49%	3 05%	3/3/1987	7 47%	2/24/1987	7 49
7/2/2013	3 4729	3 47%	3 05%	3/4/1987	7 47%	2/25/1987	7 519
7/1/2013	3 4775	3 48%	3 04%	3/5/1987	7 47%	2/26/1987	7 49

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
6/28/2013	3 4994	3 50%	3 04%	3/6/1987	7 47%	2/27/1987	7 459
6/27/2013	3 5344	3 53%	3 04%	3/9/1987	7 47%	3/2/1987	7 453
6/26/2013	3 5791	3 58%	3 03%	3/10/1987	7 47%	3/3/1987	7 482
6/25/2013	3 6224	3 62%	3 03%	3/11/1987	7 47%	3/4/1987	7 425
6/24/2013	3 5473	3 55%	3 03%	3/12/1987	7 47%	3/5/1987	7 443
6/21/2013	3 5818	3 58%	3 02%	3/13/1987	7 47%	3/6/1987	7 514
6/20/2013	3 5129	3 51%	3 02%	3/16/1987	7 47%	3/9/1987	7 506
6/19/2013	3 4119	3 41%	3 02%	3/17/1987	7 47%	3/10/1987	7 522
6/18/2013	3 3415	3 34%	3 02%	3/18/1987	7 47%	3/11/1987	7 519
6/17/2013	3 3512	3 35%	3 01%	3/19/1987	7 47%	3/12/1987	7 517
6/14/2013	3 3046	3 30%	3 01%	3/20/1987	7 47%	3/13/1987	7 49
6/13/2013	3 3168	3 32%	3 01%	3/23/1987	7 47%	3/16/1987	7 517
6/12/2013	3 3697	3 37%	3 01%	3/24/1987	7 46%	3/17/1987	7 495
6/11/2013	3 3141	3 31%	3 00%	3/25/1987	7 46%	3/18/1987	7 503
6/10/2013	3 3697	3 37%	3 00%	3/26/1987	7 46%	3/19/1987	7 509
6/7/2013	3 3343	3 33%	3 00%	3/27/1987	7 46%	3/20/1987	7 517
6/6/2013	3 2446	3 24%	2 99%	3/30/1987	7 46%	3/23/1987	7 551
6/5/2013	3 2463	3 25%	2 99%	3/31/1987	7 46%	3/24/1987	7 559
6/4/2013	3 3114	3 31%	2 99%	4/1/1987	7 46%	3/25/1987	7 567
6/3/2013	3 2661	3 27%	2 99%	4/2/1987	7 47%	3/26/1987	7 549
5/31/2013	3 2791	3 28%	2 98%	4/3/1987	7 47%	3/27/1987	7 651
5/30/2013	3 2712	3 27%	2 98%	4/6/1987	7 47%	3/30/1987	7 836
5/29/2013	3 266	3 27%	2 98%	4/7/1987	7 47%	3/31/1987	7 913
5/28/2013	3 3217	3 32%	2 98%	4/8/1987	7 48%	4/1/1987	7 859
5/27/2013	3 1721	3 17%	2 97%	4/9/1987	7 48%	4/2/1987	7 936
5/24/2013	3 1721	3 17%	2 97%	4/10/1987	7 48%	4/3/1987	7 851
5/23/2013	3 1906	3 19%	2 97%	4/13/1987	7 49%	4/6/1987	7 834
5/22/2013	3 2195	3 22%	2 97%	4/14/1987	7 49%	4/7/1987	7 936
5/21/2013	3 1309	3 13%	2 97%	4/15/1987	7 50%	4/8/1987	7 885
5/20/2013	3 1762	3 18%	2 97%	4/16/1987	7 50%	4/9/1987	8 07
5/17/2013	3 1669	3 17%	2 97%	4/20/1987	7 51%	4/10/1987	8 177
5/16/2013	3 0976	3 10%	2 96%	4/21/1987	7 51%	4/13/1987	8 358
5/15/2013	3 1559	3 16%	2 96%	4/22/1987	7 52%	4/14/1987	8 383
5/14/2013	3 1905	3 19%	2 96%	4/23/1987	7 53%	4/15/1987	8 281
5/13/2013	3 1308	3 13%	2 96%	4/24/1987	7 53%	4/16/1987	8 196
5/10/2013	3 0943	3 09%	2 96%	4/27/1987	7 54%	4/20/1987	8 386
5/9/2013	2 9926	2 99%	2 95%	4/28/1987	7 55%	4/21/1987	8 318
5/8/2013	2 9871	2 99%	2 95%	4/29/1987	7 56%	4/22/1987	8 494
5/7/2013	2 995	3 00%	2 95%	4/30/1987	7 56%	4/23/1987	8 506
5/6/2013	2 9762	2 98%	2 95%	5/1/1987	7 57%	4/24/1987	8 682
5/3/2013	2 9537	2 95%	2 94%	5/4/1987	7 58%	4/27/1987	8 607
5/2/2013	2 8211	2 82%	2 94%	5/5/1987	7 58%	4/28/1987	8 478
5/1/2013	2 8278	2 83%	2 94%	5/6/1987	7 59%	4/29/1987	8 686
4/30/2013	2 8762	2 88%	2 94%	5/7/1987	7 60%	4/30/1987	8 437
4/29/2013	2 8785	2 88%	2 94%	5/8/1987	7 61%	5/1/1987	8 578
4/26/2013	2 8611	2 86%	2 94%	5/11/1987	7 61%	5/4/1987	8 689
4/25/2013	2 9045	2 90%	2 93%	5/12/1987	7 62%	5/5/1987	8 65
4/24/2013	2 8953	2 90%	2 93%	5/13/1987	7 63%	5/6/1987	8 729
4/23/2013	2 903	2 90%	2 93%	5/14/1987	7 63%	5/7/1987	8 693
4/22/2013	2 8778	2 88%	2 93%	5/15/1987	7 64%	5/8/1987	8 586
4/19/2013	2 8847	2 88%	2 93%	5/18/1987	7 65%	5/11/1987	8 776
4/18/2013	2 8597	2 86%	2 93%	5/19/1987	7 66%	5/12/1987	8 696
4/17/2013	2 8779	2 88%	2 92%	5/20/1987	7 66%	5/13/1987	8 699
4/16/2013	2 9092	2 91%	2 92%	5/21/1987	7 67%	5/14/1987	8 731
4/15/2013	2 859	2 86%	2 92%	5/22/1987	7 68%	5/15/1987	8 908
4/12/2013	2 9177	2 92%	2 92%	5/26/1987	7 69%	5/18/1987	8 886
4/11/2013	2 9952	3 00%	2 92%	5/27/1987	7 69%	5/19/1987	9 074
4/10/2013	3 003	3 00%	2 92%	5/28/1987	7 70%	5/20/1987	9 062
4/9/2013	2 9377	2 94%	2 92%	5/29/1987	7 70%	5/21/1987	9 043
4/8/2013	2 9147	2 91%	2 91%	6/1/1987	7 71%	5/22/1987	8 904
4/5/2013	2 875	2 88%	2 91%	6/2/1987	7 72%	5/26/1987	8 657
4/4/2013	2 9874	2 99%	2 91%	6/3/1987	7 73%	5/27/1987	8 73
4/3/2013	3 052	3 05%	2 91%	6/4/1987	7 73%	5/28/1987	8 71
4/2/2013	3 0999	3 10%	2 91%	6/5/1987	7 74%	5/29/1987	8 636
4/1/2013	3 0743	3 07%	2 91%	6/8/1987	7 75%	6/1/1987	8 605
3/29/2013	3 1023	3 10%	2 91%	6/9/1987	7 75%	6/2/1987	8 925
3/28/2013	3 1023	3 10%	2 90%	6/10/1987	7 76%	6/3/1987	8 76
3/27/2013	3 0879	3 09%	2 90%	6/11/1987	7 77%	6/4/1987	8 727
3/26/2013	3 1427	3 14%	2 90%	6/12/1987	7 78%	6/5/1987	8 645
3/25/2013	3 1484	3 15%	2 90%	6/15/1987	7 78%	6/8/1987	8 692
3/22/2013	3 1476	3 15%	2 90%	6/16/1987	7 79%	6/9/1987	8 73
3/21/2013	3 1322	3 13%	2 89%	6/17/1987	7 79%	6/10/1987	8 73
3/20/2013	3 1983	3 20%	2 89%	6/18/1987	7 80%	6/11/1987	8 671
3/19/2013	3 1281	3 13%	2 89%	6/19/1987	7 81%	6/12/1987	8 487
3/18/2013	3 1843	3 18%	2 89%	6/22/1987	7 81%	6/15/1987	8 439

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
3/15/2013	3 2115	3 21%	2 89%	6/23/1987	7 82%	6/16/1987	8 448
3/14/2013	3 2388	3 24%	2 88%	6/24/1987	7 82%	6/17/1987	8 386
3/13/2013	3 2181	3 22%	2 88%	6/25/1987	7 83%	6/18/1987	8 481
3/12/2013	3 2131	3 21%	2 88%	6/26/1987	7 83%	6/19/1987	8 476
3/11/2013	3 2596	3 26%	2 88%	6/29/1987	7 84%	6/22/1987	8 4
3/8/2013	3 2438	3 24%	2 87%	6/30/1987	7 84%	6/23/1987	8 411
3/7/2013	3 2032	3 20%	2 87%	7/1/1987	7 84%	6/24/1987	8 445
3/6/2013	3 1517	3 15%	2 87%	7/2/1987	7 85%	6/25/1987	8 419
3/5/2013	3 1064	3 11%	2 86%	7/6/1987	7 85%	6/26/1987	8 484
3/4/2013	3 0864	3 09%	2 86%	7/7/1987	7 85%	6/29/1987	8 473
3/1/2013	3 0506	3 05%	2 86%	7/8/1987	7 86%	6/30/1987	8 492
2/28/2013	3 0856	3 09%	2 86%	7/9/1987	7 86%	7/1/1987	8 478
2/27/2013	3 0992	3 10%	2 86%	7/10/1987	7 87%	7/2/1987	8 43
2/26/2013	3 0784	3 08%	2 86%	7/13/1987	7 87%	7/6/1987	8 425
2/25/2013	3 0617	3 06%	2 85%	7/14/1987	7 87%	7/7/1987	8 377
2/22/2013	3 1525	3 15%	2 85%	7/15/1987	7 88%	7/8/1987	8 447
2/21/2013	3 1671	3 17%	2 85%	7/16/1987	7 88%	7/9/1987	8 512
2/20/2013	3 1991	3 20%	2 85%	7/17/1987	7 89%	7/10/1987	8 458
2/19/2013	3 2098	3 21%	2 85%	7/20/1987	7 89%	7/13/1987	8 535
2/18/2013	3 1753	3 18%	2 85%	7/21/1987	7 90%	7/14/1987	8 5
2/15/2013	3 1753	3 18%	2 85%	7/22/1987	7 90%	7/15/1987	8 603
2/14/2013	3 1765	3 18%	2 84%	7/23/1987	7 91%	7/16/1987	8 586
2/13/2013	3 2338	3 23%	2 84%	7/24/1987	7 92%	7/17/1987	8 554
2/12/2013	3 1886	3 19%	2 84%	7/27/1987	7 92%	7/20/1987	8 618
2/11/2013	3 1704	3 17%	2 84%	7/28/1987	7 93%	7/21/1987	8 714
2/8/2013	3 1635	3 16%	2 84%	7/29/1987	7 94%	7/22/1987	8 785
2/7/2013	3 1703	3 17%	2 84%	7/30/1987	7 94%	7/23/1987	8 776
2/6/2013	3 1694	3 17%	2 84%	7/31/1987	7 95%	7/24/1987	8 83
2/5/2013	3 2083	3 21%	2 84%	8/3/1987	7 95%	7/27/1987	8 815
2/4/2013	3 1599	3 16%	2 84%	8/4/1987	7 96%	7/28/1987	8 86
2/1/2013	3 2178	3 22%	2 84%	8/5/1987	7 97%	7/29/1987	8 809
1/31/2013	3 1719	3 17%	2 84%	8/6/1987	7 97%	7/30/1987	8 833
1/30/2013	3 1822	3 18%	2 84%	8/7/1987	7 98%	7/31/1987	8 896
1/29/2013	3 1839	3 18%	2 84%	8/10/1987	7 98%	8/3/1987	9 013
1/28/2013	3 141	3 14%	2 84%	8/11/1987	7 99%	8/4/1987	9 02
1/25/2013	3 1333	3 13%	2 84%	8/12/1987	7 99%	8/5/1987	8 936
1/24/2013	3 0431	3 04%	2 84%	8/13/1987	8 00%	8/6/1987	8 936
1/23/2013	3 0182	3 02%	2 84%	8/14/1987	8 00%	8/7/1987	8 9
1/22/2013	3 0281	3 03%	2 84%	8/17/1987	8 01%	8/10/1987	8 936
1/21/2013	3 0289	3 03%	2 84%	8/18/1987	8 02%	8/11/1987	8 955
1/18/2013	3 0289	3 03%	2 84%	8/19/1987	8 02%	8/12/1987	8 942
1/17/2013	3 0722	3 07%	2 84%	8/20/1987	8 03%	8/13/1987	8 77
1/16/2013	3 0131	3 01%	2 84%	8/21/1987	8 04%	8/14/1987	8 74
1/15/2013	3 0255	3 03%	2 84%	8/24/1987	8 04%	8/17/1987	8 793
1/14/2013	3 0313	3 03%	2 84%	8/25/1987	8 05%	8/18/1987	8 924
1/11/2013	3 0479	3 05%	2 84%	8/26/1987	8 06%	8/19/1987	9 003
1/10/2013	3 0796	3 08%	2 84%	8/27/1987	8 07%	8/20/1987	8 924
1/9/2013	3 0604	3 06%	2 84%	8/28/1987	8 07%	8/21/1987	8 964
1/8/2013	3 0679	3 07%	2 85%	8/31/1987	8 08%	8/24/1987	8 979
1/7/2013	3 1006	3 10%	2 85%	9/1/1987	8 09%	8/25/1987	8 93
1/4/2013	3 0972	3 10%	2 85%	9/2/1987	8 10%	8/26/1987	8 973
1/3/2013	3 1251	3 13%	2 85%	9/3/1987	8 11%	8/27/1987	9 121
1/2/2013	3 0419	3 04%	2 85%	9/4/1987	8 12%	8/28/1987	9 177
1/1/2013	2 9499	2 95%	2 85%	9/8/1987	8 13%	8/31/1987	9 152
12/31/2012	2 9499	2 95%	2 85%	9/9/1987	8 14%	9/1/1987	9 266
12/28/2012	2 8672	2 87%	2 86%	9/10/1987	8 15%	9/2/1987	9 436
12/27/2012	2 9095	2 91%	2 86%	9/11/1987	8 16%	9/3/1987	9 436
12/26/2012	2 9224	2 92%	2 86%	9/14/1987	8 17%	9/4/1987	9 459
12/25/2012	2 9385	2 94%	2 86%	9/15/1987	8 18%	9/8/1987	9 641
12/24/2012	2 9385	2 94%	2 86%	9/16/1987	8 20%	9/9/1987	9 624
12/21/2012	2 9312	2 93%	2 87%	9/17/1987	8 21%	9/10/1987	9 556
12/20/2012	2 9807	2 98%	2 87%	9/18/1987	8 22%	9/11/1987	9 495
12/19/2012	2 9865	2 99%	2 87%	9/21/1987	8 23%	9/14/1987	9 499
12/18/2012	2 9979	3 00%	2 87%	9/22/1987	8 24%	9/15/1987	9 672
12/17/2012	2 9457	2 95%	2 88%	9/23/1987	8 25%	9/16/1987	9 672
12/14/2012	2 864	2 86%	2 88%	9/24/1987	8 26%	9/17/1987	9 542
12/13/2012	2 9054	2 91%	2 88%	9/25/1987	8 28%	9/18/1987	9 556
12/12/2012	2 8894	2 89%	2 88%	9/28/1987	8 29%	9/21/1987	9 613
12/11/2012	2 841	2 84%	2 88%	9/29/1987	8 30%	9/22/1987	9 518
12/10/2012	2 7979	2 80%	2 88%	9/30/1987	8 31%	9/23/1987	9 542
12/7/2012	2 8104	2 81%	2 88%	10/1/1987	8 32%	9/24/1987	9 685
12/6/2012	2 7739	2 77%	2 89%	10/2/1987	8 33%	9/25/1987	9 664
12/5/2012	2 777	2 78%	2 89%	10/5/1987	8 35%	9/28/1987	9 664
12/4/2012	2 777	2 78%	2 89%	10/6/1987	8 36%	9/29/1987	9 804
12/3/2012	2 7987	2 80%	2 89%	10/7/1987	8 37%	9/30/1987	9 744

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
11/30/2012	2 8089	2 81%	2 89%	10/8/1987	8 38%	10/1/1987	9 772
11/29/2012	2 7956	2 80%	2 89%	10/9/1987	8 40%	10/2/1987	9 692
11/28/2012	2 7979	2 80%	2 90%	10/13/1987	8 41%	10/5/1987	9 793
11/27/2012	2 7847	2 78%	2 90%	10/14/1987	8 42%	10/6/1987	9 765
11/26/2012	2 8018	2 80%	2 90%	10/15/1987	8 44%	10/7/1987	9 797
11/23/2012	2 8284	2 83%	2 90%	10/16/1987	8 45%	10/8/1987	9 857
11/22/2012	2 8198	2 82%	2 90%	10/19/1987	8 46%	10/9/1987	9 932
11/21/2012	2 8198	2 82%	2 90%	10/20/1987	8 47%	10/13/1987	9 889
11/20/2012	2 8206	2 82%	2 91%	10/21/1987	8 48%	10/14/1987	10 16
11/19/2012	2 7631	2 76%	2 91%	10/22/1987	8 49%	10/15/1987	10 22
11/16/2012	2 7324	2 73%	2 91%	10/23/1987	8 50%	10/16/1987	10 179
11/15/2012	2 7308	2 73%	2 91%	10/26/1987	8 51%	10/19/1987	9 811
11/14/2012	2 727	2 73%	2 91%	10/27/1987	8 52%	10/20/1987	9 481
11/13/2012	2 7247	2 72%	2 92%	10/28/1987	8 53%	10/21/1987	9 448
11/12/2012	2 7408	2 74%	2 92%	10/29/1987	8 54%	10/22/1987	9 088
11/9/2012	2 7408	2 74%	2 92%	10/30/1987	8 54%	10/23/1987	9 094
11/8/2012	2 7507	2 75%	2 92%	11/2/1987	8 55%	10/26/1987	8 892
11/7/2012	2 8279	2 83%	2 92%	11/3/1987	8 56%	10/27/1987	9 063
11/6/2012	2 9203	2 92%	2 92%	11/4/1987	8 57%	10/28/1987	9 138
11/5/2012	2 8762	2 88%	2 92%	11/5/1987	8 58%	10/29/1987	9 008
11/2/2012	2 9066	2 91%	2 92%	11/6/1987	8 58%	10/30/1987	9 032
11/1/2012	2 901	2 90%	2 92%	11/9/1987	8 59%	11/2/1987	9 119
10/31/2012	2 8579	2 86%	2 93%	11/10/1987	8 60%	11/3/1987	9 026
10/30/2012	2 8826	2 88%	2 93%	11/12/1987	8 61%	11/4/1987	8 941
10/29/2012	2 8826	2 88%	2 93%	11/13/1987	8 61%	11/5/1987	8 779
10/26/2012	2 9042	2 90%	2 93%	11/16/1987	8 62%	11/6/1987	8 838
10/25/2012	2 9771	2 98%	2 93%	11/17/1987	8 63%	11/9/1987	8 826
10/24/2012	2 9494	2 95%	2 93%	11/18/1987	8 63%	11/10/1987	8 874
10/23/2012	2 9025	2 90%	2 93%	11/19/1987	8 64%	11/12/1987	8 862
10/22/2012	2 9705	2 97%	2 93%	11/20/1987	8 65%	11/13/1987	8 938
10/19/2012	2 9339	2 93%	2 93%	11/23/1987	8 66%	11/16/1987	8 898
10/18/2012	3 0189	3 02%	2 93%	11/24/1987	8 66%	11/17/1987	8 928
10/17/2012	3 0032	3 00%	2 93%	11/25/1987	8 67%	11/18/1987	8 931
10/16/2012	2 9153	2 92%	2 93%	11/27/1987	8 68%	11/19/1987	8 922
10/15/2012	2 8451	2 85%	2 93%	11/30/1987	8 69%	11/20/1987	8 844
10/12/2012	2 8317	2 83%	2 93%	12/1/1987	8 69%	11/23/1987	8 892
10/11/2012	2 8506	2 85%	2 93%	12/2/1987	8 70%	11/24/1987	9 002
10/10/2012	2 8784	2 88%	2 93%	12/3/1987	8 71%	11/25/1987	9 063
10/9/2012	2 9257	2 93%	2 93%	12/4/1987	8 72%	11/27/1987	9 157
10/8/2012	2 9712	2 97%	2 94%	12/7/1987	8 73%	11/30/1987	9 101
10/5/2012	2 9712	2 97%	2 94%	12/8/1987	8 73%	12/1/1987	9 132
10/4/2012	2 8896	2 89%	2 93%	12/9/1987	8 74%	12/2/1987	9 129
10/3/2012	2 8183	2 82%	2 93%	12/10/1987	8 75%	12/3/1987	9 045
10/2/2012	2 816	2 82%	2 94%	12/11/1987	8 76%	12/4/1987	9 12
10/1/2012	2 8199	2 82%	2 94%	12/14/1987	8 77%	12/7/1987	9 214
9/28/2012	2 823	2 82%	2 94%	12/15/1987	8 78%	12/8/1987	9 221
9/27/2012	2 8387	2 84%	2 94%	12/16/1987	8 79%	12/9/1987	9 202
9/26/2012	2 7785	2 78%	2 94%	12/17/1987	8 80%	12/10/1987	9 383
9/25/2012	2 845	2 85%	2 94%	12/18/1987	8 80%	12/11/1987	9 455
9/24/2012	2 8959	2 90%	2 94%	12/21/1987	8 81%	12/14/1987	9 376
9/21/2012	2 9434	2 94%	2 94%	12/22/1987	8 82%	12/15/1987	9 202
9/20/2012	2 9441	2 94%	2 94%	12/23/1987	8 83%	12/16/1987	9 132
9/19/2012	2 9604	2 96%	2 94%	12/24/1987	8 83%	12/17/1987	9 142
9/18/2012	3 0053	3 01%	2 94%	12/28/1987	8 84%	12/18/1987	8 917
9/17/2012	3 0359	3 04%	2 94%	12/29/1987	8 85%	12/21/1987	9 008
9/14/2012	3 0884	3 09%	2 94%	12/30/1987	8 86%	12/22/1987	9 045
9/13/2012	2 9311	2 93%	2 94%	12/31/1987	8 86%	12/23/1987	8 905
9/12/2012	2 9215	2 92%	2 94%	1/4/1988	8 87%	12/24/1987	8 911
9/11/2012	2 8529	2 85%	2 94%	1/5/1988	8 88%	12/28/1987	8 99
9/10/2012	2 8057	2 81%	2 94%	1/6/1988	8 88%	12/29/1987	8 917
9/7/2012	2 8245	2 82%	2 94%	1/7/1988	8 89%	12/30/1987	8 887
9/6/2012	2 7987	2 80%	2 94%	1/8/1988	8 90%	12/31/1987	8 978
9/5/2012	2 7071	2 71%	2 94%	1/11/1988	8 91%	1/4/1988	8 923
9/4/2012	2 6821	2 68%	2 95%	1/12/1988	8 91%	1/5/1988	8 851
9/3/2012	2 6723	2 67%	2 95%	1/13/1988	8 92%	1/6/1988	8 996
8/31/2012	2 6723	2 67%	2 95%	1/14/1988	8 93%	1/7/1988	8 947
8/30/2012	2 7446	2 74%	2 95%	1/15/1988	8 93%	1/8/1988	9 089
8/29/2012	2 7646	2 76%	2 95%	1/19/1988	8 94%	1/11/1988	9 089
8/28/2012	2 7469	2 75%	2 95%	1/20/1988	8 94%	1/12/1988	9 102
8/27/2012	2 76	2 76%	2 95%	1/21/1988	8 94%	1/13/1988	9 033
8/24/2012	2 8011	2 80%	2 95%	1/22/1988	8 95%	1/14/1988	9 021
8/23/2012	2 7917	2 79%	2 95%	1/25/1988	8 95%	1/15/1988	8 762
8/22/2012	2 8042	2 80%	2 96%	1/26/1988	8 96%	1/19/1988	8 798
8/21/2012	2 8997	2 90%	2 96%	1/27/1988	8 96%	1/20/1988	8 774
8/20/2012	2 9189	2 92%	2 96%	1/28/1988	8 96%	1/21/1988	8 698

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
8/17/2012	2 9309	2 93%	2 96%	1/29/1988	8 96%	1/22/1988	8 652
8/16/2012	2 9527	2 95%	2 96%	2/1/1988	8 96%	1/25/1988	8 617
8/15/2012	2 9196	2 92%	2 96%	2/2/1988	8 96%	1/26/1988	8 704
8/14/2012	2 8355	2 84%	2 96%	2/3/1988	8 96%	1/27/1988	8 532
8/13/2012	2 7523	2 75%	2 96%	2/4/1988	8 96%	1/28/1988	8 493
8/10/2012	2 7508	2 75%	2 96%	2/5/1988	8 96%	1/29/1988	8 415
8/9/2012	2 7549	2 75%	2 96%	2/8/1988	8 96%	2/1/1988	8 426
8/8/2012	2 7505	2 75%	2 97%	2/9/1988	8 96%	2/2/1988	8 322
8/7/2012	2 7207	2 72%	2 97%	2/10/1988	8 96%	2/3/1988	8 387
8/6/2012	2 6537	2 65%	2 97%	2/11/1988	8 96%	2/4/1988	8 437
8/3/2012	2 6435	2 64%	2 97%	2/12/1988	8 96%	2/5/1988	8 286
8/2/2012	2 5537	2 55%	2 97%	2/16/1988	8 96%	2/8/1988	8 363
8/1/2012	2 5973	2 60%	2 98%	2/17/1988	8 96%	2/9/1988	8 333
7/31/2012	2 5467	2 55%	2 98%	2/18/1988	8 96%	2/10/1988	8 289
7/30/2012	2 5809	2 58%	2 99%	2/19/1988	8 95%	2/11/1988	8 344
7/27/2012	2 6277	2 63%	2 99%	2/22/1988	8 95%	2/12/1988	8 421
7/26/2012	2 5031	2 50%	2 99%	2/23/1988	8 95%	2/16/1988	8 462
7/25/2012	2 453	2 45%	3 00%	2/24/1988	8 95%	2/17/1988	8 479
7/24/2012	2 4537	2 45%	3 00%	2/25/1988	8 95%	2/18/1988	8 448
7/23/2012	2 499	2 50%	3 00%	2/26/1988	8 95%	2/19/1988	8 446
7/20/2012	2 5448	2 54%	3 01%	2/29/1988	8 94%	2/22/1988	8 418
7/19/2012	2 6128	2 61%	3 01%	3/1/1988	8 94%	2/23/1988	8 349
7/18/2012	2 597	2 60%	3 01%	3/2/1988	8 94%	2/24/1988	8 373
7/17/2012	2 6035	2 60%	3 02%	3/3/1988	8 94%	2/25/1988	8 42
7/16/2012	2 5577	2 56%	3 02%	3/4/1988	8 94%	2/26/1988	8 354
7/13/2012	2 5727	2 57%	3 02%	3/7/1988	8 93%	2/29/1988	8 338
7/12/2012	2 5614	2 56%	3 02%	3/8/1988	8 93%	3/1/1988	8 343
7/11/2012	2 613	2 61%	3 03%	3/9/1988	8 93%	3/2/1988	8 31
7/10/2012	2 6022	2 60%	3 03%	3/10/1988	8 93%	3/3/1988	8 31
7/9/2012	2 6209	2 62%	3 03%	3/11/1988	8 92%	3/4/1988	8 47
7/6/2012	2 6616	2 66%	3 03%	3/14/1988	8 92%	3/7/1988	8 512
7/5/2012	2 716	2 72%	3 03%	3/15/1988	8 92%	3/8/1988	8 52
7/4/2012	2 7428	2 74%	3 03%	3/16/1988	8 92%	3/9/1988	8 515
7/3/2012	2 7428	2 74%	3 03%	3/17/1988	8 92%	3/10/1988	8 56
7/2/2012	2 6962	2 70%	3 03%	3/18/1988	8 92%	3/11/1988	8 503
6/29/2012	2 7533	2 75%	3 04%	3/21/1988	8 92%	3/14/1988	8 509
6/28/2012	2 6757	2 68%	3 04%	3/22/1988	8 92%	3/15/1988	8 514
6/27/2012	2 6918	2 69%	3 04%	3/23/1988	8 92%	3/16/1988	8 611
6/26/2012	2 7	2 70%	3 04%	3/24/1988	8 92%	3/17/1988	8 537
6/25/2012	2 6765	2 68%	3 04%	3/25/1988	8 92%	3/18/1988	8 671
6/22/2012	2 7616	2 76%	3 04%	3/28/1988	8 92%	3/21/1988	8 697
6/21/2012	2 6868	2 69%	3 05%	3/29/1988	8 92%	3/22/1988	8 703
6/20/2012	2 7356	2 74%	3 05%	3/30/1988	8 92%	3/23/1988	8 738
6/19/2012	2 7333	2 73%	3 05%	3/31/1988	8 92%	3/24/1988	8 727
6/18/2012	2 6606	2 66%	3 05%	4/4/1988	8 93%	3/25/1988	8 668
6/15/2012	2 684	2 68%	3 06%	4/5/1988	8 93%	3/28/1988	8 833
6/14/2012	2 7409	2 74%	3 06%	4/6/1988	8 93%	3/29/1988	8 75
6/13/2012	2 7083	2 71%	3 06%	4/7/1988	8 93%	3/30/1988	8 762
6/12/2012	2 7693	2 77%	3 07%	4/8/1988	8 93%	3/31/1988	8 756
6/11/2012	2 7083	2 71%	3 07%	4/11/1988	8 94%	4/4/1988	8 857
6/8/2012	2 7454	2 75%	3 07%	4/12/1988	8 94%	4/5/1988	8 845
6/7/2012	2 7402	2 74%	3 07%	4/13/1988	8 94%	4/6/1988	8 761
6/6/2012	2 738	2 74%	3 08%	4/14/1988	8 94%	4/7/1988	8 779
6/5/2012	2 642	2 64%	3 08%	4/15/1988	8 94%	4/8/1988	8 679
6/4/2012	2 5652	2 57%	3 09%	4/18/1988	8 95%	4/11/1988	8 773
6/1/2012	2 5194	2 52%	3 09%	4/19/1988	8 95%	4/12/1988	8 75
5/31/2012	2 6421	2 64%	3 10%	4/20/1988	8 95%	4/13/1988	8 732
5/30/2012	2 7137	2 71%	3 10%	4/21/1988	8 95%	4/14/1988	8 874
5/29/2012	2 8473	2 85%	3 11%	4/22/1988	8 96%	4/15/1988	8 941
5/28/2012	2 8412	2 84%	3 11%	4/25/1988	8 96%	4/18/1988	9 014
5/25/2012	2 8412	2 84%	3 11%	4/26/1988	8 96%	4/19/1988	9 033
5/24/2012	2 8719	2 87%	3 12%	4/27/1988	8 97%	4/20/1988	9 008
5/23/2012	2 8155	2 82%	3 12%	4/28/1988	8 97%	4/21/1988	9 027
5/22/2012	2 8665	2 87%	3 12%	4/29/1988	8 97%	4/22/1988	8 993
5/21/2012	2 8094	2 81%	3 12%	5/2/1988	8 97%	4/25/1988	8 996
5/18/2012	2 8064	2 81%	3 13%	5/3/1988	8 98%	4/26/1988	9 002
5/17/2012	2 7869	2 79%	3 13%	5/4/1988	8 98%	4/27/1988	9 014
5/16/2012	2 8989	2 90%	3 14%	5/5/1988	8 98%	4/28/1988	9 095
5/15/2012	2 9168	2 92%	3 14%	5/6/1988	8 98%	4/29/1988	9 095
5/14/2012	2 9199	2 92%	3 15%	5/9/1988	8 99%	5/2/1988	9 12
5/11/2012	3 0103	3 01%	3 15%	5/10/1988	8 99%	5/3/1988	9 089
5/10/2012	3 0407	3 04%	3 15%	5/11/1988	8 99%	5/4/1988	9 108
5/9/2012	3 0249	3 02%	3 16%	5/12/1988	8 99%	5/5/1988	9 089
5/8/2012	3 0336	3 03%	3 16%	5/13/1988	8 99%	5/6/1988	9 152
5/7/2012	3 0598	3 06%	3 16%	5/16/1988	8 99%	5/9/1988	9 158

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
5/4/2012	3 0709	3 07%	3 17%	5/17/1988	9 00%	5/10/1988	9 183
5/3/2012	3 1184	3 12%	3 17%	5/18/1988	9 00%	5/11/1988	9 202
5/2/2012	3 1159	3 12%	3 18%	5/19/1988	9 00%	5/12/1988	9 215
5/1/2012	3 146	3 15%	3 18%	5/20/1988	9 00%	5/13/1988	9 096
4/30/2012	3 1111	3 11%	3 19%	5/23/1988	9 00%	5/16/1988	9 12
4/27/2012	3 1224	3 12%	3 20%	5/24/1988	9 00%	5/17/1988	9 213
4/26/2012	3 1176	3 12%	3 20%	5/25/1988	9 01%	5/18/1988	9 3
4/25/2012	3 1476	3 15%	3 21%	5/26/1988	9 01%	5/19/1988	9 275
4/24/2012	3 1281	3 13%	3 21%	5/27/1988	9 01%	5/20/1988	9 338
4/23/2012	3 0846	3 08%	3 22%	5/31/1988	9 01%	5/23/1988	9 351
4/20/2012	3 124	3 12%	3 22%	6/2/1988	9 01%	5/24/1988	9 332
4/19/2012	3 1208	3 12%	3 23%	6/3/1988	9 02%	5/25/1988	9 294
4/18/2012	3 1265	3 13%	3 24%	6/6/1988	9 02%	5/26/1988	9 325
4/17/2012	3 1411	3 14%	3 24%	6/7/1988	9 02%	5/27/1988	9 322
4/16/2012	3 1305	3 13%	3 25%	6/8/1988	9 02%	5/31/1988	9 237
4/13/2012	3 1273	3 13%	3 25%	6/9/1988	9 02%	6/2/1988	9 077
4/12/2012	3 2116	3 21%	3 26%	6/10/1988	9 02%	6/3/1988	9 15
4/11/2012	3 1959	3 20%	3 26%	6/13/1988	9 02%	6/6/1988	9 046
4/10/2012	3 1281	3 13%	3 27%	6/14/1988	9 02%	6/7/1988	9 052
4/9/2012	3 1959	3 20%	3 28%	6/15/1988	9 02%	6/8/1988	9 113
4/6/2012	3 2157	3 22%	3 28%	6/16/1988	9 02%	6/9/1988	9 016
4/5/2012	3 3265	3 33%	3 29%	6/17/1988	9 02%	6/10/1988	9 046
4/4/2012	3 3572	3 36%	3 29%	6/20/1988	9 02%	6/13/1988	9 034
4/3/2012	3 4404	3 44%	3 30%	6/21/1988	9 02%	6/14/1988	9 016
4/2/2012	3 3281	3 33%	3 30%	6/22/1988	9 01%	6/15/1988	8 809
3/30/2012	3 3358	3 34%	3 31%	6/23/1988	9 01%	6/16/1988	8 827
3/29/2012	3 2731	3 27%	3 31%	6/24/1988	9 01%	6/17/1988	8 98
3/28/2012	3 3102	3 31%	3 32%	6/27/1988	9 00%	6/20/1988	9 094
3/27/2012	3 2975	3 30%	3 32%	6/28/1988	9 00%	6/21/1988	9 088
3/26/2012	3 3391	3 34%	3 33%	6/29/1988	9 00%	6/22/1988	9 088
3/23/2012	3 3051	3 31%	3 33%	6/30/1988	8 99%	6/23/1988	8 914
3/22/2012	3 3596	3 36%	3 33%	7/1/1988	8 99%	6/24/1988	8 908
3/21/2012	3 3837	3 38%	3 34%	7/5/1988	8 99%	6/27/1988	8 85
3/20/2012	3 4454	3 45%	3 34%	7/6/1988	8 98%	6/28/1988	8 956
3/19/2012	3 4779	3 48%	3 35%	7/7/1988	8 98%	6/29/1988	8 856
3/16/2012	3 4061	3 41%	3 35%	7/8/1988	8 98%	6/30/1988	8 914
3/15/2012	3 4148	3 41%	3 35%	7/11/1988	8 98%	7/1/1988	8 832
3/14/2012	3 4009	3 40%	3 36%	7/12/1988	8 97%	7/5/1988	8 867
3/13/2012	3 2663	3 27%	3 36%	7/13/1988	8 97%	7/6/1988	8 982
3/12/2012	3 1712	3 17%	3 37%	7/14/1988	8 97%	7/7/1988	8 997
3/9/2012	3 1778	3 18%	3 37%	7/15/1988	8 97%	7/8/1988	9 091
3/8/2012	3 1745	3 17%	3 38%	7/18/1988	8 96%	7/11/1988	9 051
3/7/2012	3 1233	3 12%	3 38%	7/19/1988	8 96%	7/12/1988	9 124
3/6/2012	3 0736	3 07%	3 39%	7/20/1988	8 96%	7/13/1988	9 174
3/5/2012	3 15	3 15%	3 39%	7/21/1988	8 96%	7/14/1988	9 167
3/2/2012	3 1024	3 10%	3 40%	7/22/1988	8 95%	7/15/1988	9 14
3/1/2012	3 1476	3 15%	3 41%	7/25/1988	8 95%	7/18/1988	9 229
2/29/2012	3 0848	3 08%	3 41%	7/26/1988	8 95%	7/19/1988	9 198
2/28/2012	3 0729	3 07%	3 42%	7/27/1988	8 94%	7/20/1988	9 226
2/27/2012	3 0475	3 05%	3 42%	7/28/1988	8 94%	7/21/1988	9 254
2/24/2012	3 0992	3 10%	3 43%	7/29/1988	8 94%	7/22/1988	9 195
2/23/2012	3 1387	3 14%	3 43%	8/1/1988	8 93%	7/25/1988	9 155
2/22/2012	3 1476	3 15%	3 44%	8/2/1988	8 93%	7/26/1988	9 18
2/21/2012	3 209	3 21%	3 45%	8/3/1988	8 92%	7/27/1988	9 242
2/20/2012	3 1476	3 15%	3 45%	8/4/1988	8 92%	7/28/1988	9 254
2/17/2012	3 1476	3 15%	3 46%	8/5/1988	8 91%	7/29/1988	9 207
2/16/2012	3 1387	3 14%	3 46%	8/8/1988	8 91%	8/1/1988	9 161
2/15/2012	3 0897	3 09%	3 47%	8/9/1988	8 91%	8/2/1988	9 063
2/14/2012	3 0873	3 09%	3 47%	8/10/1988	8 91%	8/3/1988	9 075
2/13/2012	3 1202	3 12%	3 48%	8/11/1988	8 91%	8/4/1988	9 039
2/10/2012	3 1404	3 14%	3 49%	8/12/1988	8 92%	8/5/1988	9 124
2/9/2012	3 1803	3 18%	3 49%	8/15/1988	8 92%	8/8/1988	9 1
2/8/2012	3 1509	3 15%	3 50%	8/16/1988	8 92%	8/9/1988	9 192
2/7/2012	3 1435	3 14%	3 50%	8/17/1988	8 92%	8/10/1988	9 362
2/6/2012	3 0966	3 10%	3 51%	8/18/1988	8 92%	8/11/1988	9 381
2/3/2012	3 1192	3 12%	3 52%	8/19/1988	8 92%	8/12/1988	9 42
2/2/2012	3 0028	3 00%	3 52%	8/22/1988	8 93%	8/15/1988	9 433
2/1/2012	2 9919	2 99%	3 53%	8/23/1988	8 93%	8/16/1988	9 4
1/31/2012	2 9375	2 94%	3 54%	8/24/1988	8 93%	8/17/1988	9 413
1/30/2012	2 9989	3 00%	3 54%	8/25/1988	8 94%	8/18/1988	9 4
1/27/2012	3 0574	3 06%	3 55%	8/26/1988	8 94%	8/19/1988	9 394
1/26/2012	3 0902	3 09%	3 56%	8/29/1988	8 94%	8/22/1988	9 446
1/25/2012	3 1484	3 15%	3 57%	8/30/1988	8 94%	8/23/1988	9 375
1/24/2012	3 1492	3 15%	3 57%	8/31/1988	8 94%	8/24/1988	9 4
1/23/2012	3 1297	3 13%	3 58%	9/1/1988	8 95%	8/25/1988	9 446

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
1/20/2012	3 0998	3 10%	3 59%	9/2/1988	8 95%	8/26/1988	9 426
1/19/2012	3 0416	3 04%	3 59%	9/6/1988	8 95%	8/29/1988	9 336
1/18/2012	2 9562	2 96%	3 60%	9/7/1988	8 95%	8/30/1988	9 324
1/17/2012	2 8985	2 90%	3 61%	9/8/1988	8 95%	8/31/1988	9 298
1/16/2012	2 91	2 91%	3 62%	9/9/1988	8 95%	9/1/1988	9 298
1/13/2012	2 91	2 91%	3 62%	9/12/1988	8 95%	9/2/1988	9 045
1/12/2012	2 971	2 97%	3 63%	9/13/1988	8 95%	9/6/1988	9 051
1/11/2012	2 9632	2 96%	3 64%	9/14/1988	8 95%	9/7/1988	9 057
1/10/2012	3 0242	3 02%	3 65%	9/15/1988	8 95%	9/8/1988	9 027
1/9/2012	3 0266	3 03%	3 66%	9/16/1988	8 95%	9/9/1988	8 979
1/6/2012	3 0156	3 02%	3 66%	9/19/1988	8 95%	9/12/1988	9 033
1/5/2012	3 0607	3 06%	3 67%	9/20/1988	8 95%	9/13/1988	8 997
1/4/2012	3 0274	3 03%	3 68%	9/21/1988	8 95%	9/14/1988	8 967
1/3/2012	2 9812	2 98%	3 69%	9/22/1988	8 95%	9/15/1988	8 991
1/2/2012	2 8941	2 89%	3 69%	9/23/1988	8 94%	9/16/1988	9 003
12/30/2011	2 8941	2 89%	3 70%	9/26/1988	8 94%	9/19/1988	9 063
12/29/2011	2 9025	2 90%	3 71%	9/27/1988	8 94%	9/20/1988	9 033
12/28/2011	2 9202	2 92%	3 72%	9/28/1988	8 94%	9/21/1988	9 009
12/27/2011	3 0314	3 03%	3 73%	9/29/1988	8 94%	9/22/1988	9 039
12/26/2011	3 0568	3 06%	3 73%	9/30/1988	8 94%	9/23/1988	9 045
12/23/2011	3 0568	3 06%	3 74%	10/3/1988	8 94%	9/26/1988	9 076
12/22/2011	2 9805	2 98%	3 75%	10/4/1988	8 94%	9/27/1988	9 125
12/21/2011	3 0008	3 00%	3 75%	10/5/1988	8 94%	9/28/1988	9 1
12/20/2011	2 9264	2 93%	3 76%	10/6/1988	8 94%	9/29/1988	9 051
12/19/2011	2 7861	2 79%	3 77%	10/7/1988	8 94%	9/30/1988	9 051
12/16/2011	2 8511	2 85%	3 78%	10/11/1988	8 94%	10/3/1988	8 952
12/15/2011	2 9173	2 92%	3 79%	10/12/1988	8 94%	10/4/1988	8 955
12/14/2011	2 9028	2 90%	3 79%	10/13/1988	8 93%	10/5/1988	8 95
12/13/2011	3 0111	3 01%	3 80%	10/14/1988	8 93%	10/6/1988	8 944
12/12/2011	3 0505	3 05%	3 81%	10/17/1988	8 93%	10/7/1988	8 797
12/9/2011	3 1072	3 11%	3 82%	10/18/1988	8 93%	10/11/1988	8 849
12/8/2011	2 997	3 00%	3 83%	10/19/1988	8 93%	10/12/1988	8 902
12/7/2011	3 0617	3 06%	3 83%	10/20/1988	8 93%	10/13/1988	8 92
12/6/2011	3 0984	3 10%	3 84%	10/21/1988	8 93%	10/14/1988	8 897
12/5/2011	3 0277	3 03%	3 85%	10/24/1988	8 93%	10/17/1988	8 867
12/2/2011	3 0237	3 02%	3 86%	10/25/1988	8 93%	10/18/1988	8 855
12/1/2011	3 0912	3 09%	3 86%	10/26/1988	8 93%	10/19/1988	8 891
11/30/2011	3 0554	3 06%	3 87%	10/27/1988	8 93%	10/20/1988	8 838
11/29/2011	2 9567	2 96%	3 88%	10/28/1988	8 93%	10/21/1988	8 879
11/28/2011	2 929	2 93%	3 89%	10/31/1988	8 93%	10/24/1988	8 92
11/25/2011	2 9191	2 92%	3 89%	11/1/1988	8 93%	10/25/1988	8 926
11/24/2011	2 8343	2 83%	3 90%	11/2/1988	8 93%	10/26/1988	8 909
11/23/2011	2 8343	2 83%	3 91%	11/3/1988	8 93%	10/27/1988	8 827
11/22/2011	2 8803	2 88%	3 92%	11/4/1988	8 93%	10/28/1988	8 798
11/21/2011	2 9437	2 94%	3 93%	11/7/1988	8 93%	10/31/1988	8 74
11/18/2011	2 9941	2 99%	3 94%	11/8/1988	8 93%	11/1/1988	8 775
11/17/2011	2 9809	2 98%	3 95%	11/9/1988	8 93%	11/2/1988	8 786
11/16/2011	3 0302	3 03%	3 96%	11/10/1988	8 93%	11/3/1988	8 734
11/15/2011	3 0841	3 08%	3 97%	11/14/1988	8 94%	11/4/1988	8 909
11/14/2011	3 1057	3 11%	3 97%	11/15/1988	8 94%	11/7/1988	8 957
11/11/2011	3 13	3 13%	3 98%	11/16/1988	8 94%	11/8/1988	8 933
11/10/2011	3 1063	3 11%	3 99%	11/17/1988	8 95%	11/9/1988	8 993
11/9/2011	3 028	3 03%	4 00%	11/18/1988	8 95%	11/10/1988	8 981
11/8/2011	3 1372	3 14%	4 01%	11/21/1988	8 96%	11/14/1988	8 999
11/7/2011	3 0997	3 10%	4 01%	11/22/1988	8 96%	11/15/1988	9 011
11/4/2011	3 0916	3 09%	4 02%	11/23/1988	8 96%	11/16/1988	9 108
11/3/2011	3 1216	3 12%	4 03%	11/25/1988	8 97%	11/17/1988	9 176
11/2/2011	3 0129	3 01%	4 04%	11/28/1988	8 97%	11/18/1988	9 108
11/1/2011	2 9998	3 00%	4 04%	11/29/1988	8 98%	11/21/1988	9 105
10/31/2011	3 1307	3 13%	4 05%	11/30/1988	8 98%	11/22/1988	9 105
10/28/2011	3 3754	3 38%	4 06%	12/1/1988	8 98%	11/23/1988	9 102
10/27/2011	3 4561	3 46%	4 06%	12/2/1988	8 98%	11/25/1988	9 173
10/26/2011	3 2205	3 22%	4 07%	12/5/1988	8 99%	11/28/1988	9 145
10/25/2011	3 1301	3 13%	4 08%	12/6/1988	8 99%	11/29/1988	9 123
10/24/2011	3 2707	3 27%	4 08%	12/7/1988	8 99%	11/30/1988	9 068
10/21/2011	3 2638	3 26%	4 09%	12/8/1988	9 00%	12/1/1988	9 025
10/20/2011	3 216	3 22%	4 10%	12/9/1988	9 00%	12/2/1988	9 163
10/19/2011	3 1756	3 18%	4 10%	12/12/1988	9 00%	12/5/1988	9 123
10/18/2011	3 1718	3 17%	4 11%	12/13/1988	9 01%	12/6/1988	8 934
10/17/2011	3 1304	3 13%	4 12%	12/14/1988	9 01%	12/7/1988	8 97
10/14/2011	3 2315	3 23%	4 12%	12/15/1988	9 01%	12/8/1988	8 97
10/13/2011	3 1508	3 15%	4 13%	12/16/1988	9 02%	12/9/1988	8 946
10/12/2011	3 1964	3 20%	4 14%	12/19/1988	9 02%	12/12/1988	8 946
10/11/2011	3 0999	3 10%	4 14%	12/20/1988	9 02%	12/13/1988	8 97
10/10/2011	3 0167	3 02%	4 15%	12/21/1988	9 02%	12/14/1988	9 043

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
10/7/2011	3 0167	3 02%	4 16%	12/22/1988	9 03%	12/15/1988	9 049
10/6/2011	2 9496	2 95%	4 16%	12/23/1988	9 03%	12/16/1988	9 049
10/5/2011	2 8519	2 85%	4 17%	12/27/1988	9 03%	12/19/1988	9 036
10/4/2011	2 8039	2 80%	4 18%	12/28/1988	9 03%	12/20/1988	8 946
10/3/2011	2 7246	2 72%	4 19%	12/29/1988	9 04%	12/21/1988	8 94
9/30/2011	2 9134	2 91%	4 20%	12/30/1988	9 04%	12/22/1988	8 934
9/29/2011	3 0537	3 05%	4 20%	1/3/1989	9 04%	12/23/1988	8 898
9/28/2011	3 07	3 07%	4 21%	1/4/1989	9 04%	12/27/1988	8 964
9/27/2011	3 0693	3 07%	4 22%	1/5/1989	9 04%	12/28/1988	9
9/26/2011	2 9925	2 99%	4 23%	1/6/1989	9 05%	12/29/1988	9 006
9/23/2011	2 9002	2 90%	4 23%	1/9/1989	9 05%	12/30/1988	8 991
9/22/2011	2 7977	2 80%	4 24%	1/10/1989	9 05%	1/3/1989	9 079
9/21/2011	2 9942	2 99%	4 25%	1/11/1989	9 05%	1/4/1989	9 085
9/20/2011	3 2024	3 20%	4 26%	1/12/1989	9 05%	1/5/1989	9 091
9/19/2011	3 2184	3 22%	4 26%	1/13/1989	9 05%	1/6/1989	9 03
9/16/2011	3 313	3 31%	4 27%	1/17/1989	9 05%	1/9/1989	9 048
9/15/2011	3 3565	3 36%	4 28%	1/18/1989	9 05%	1/10/1989	9 042
9/14/2011	3 271	3 27%	4 28%	1/19/1989	9 05%	1/11/1989	9 048
9/13/2011	3 3273	3 33%	4 29%	1/20/1989	9 05%	1/12/1989	8 975
9/12/2011	3 2509	3 25%	4 29%	1/23/1989	9 05%	1/13/1989	8 879
9/9/2011	3 2463	3 25%	4 30%	1/24/1989	9 05%	1/17/1989	8 885
9/8/2011	3 3086	3 31%	4 30%	1/25/1989	9 06%	1/18/1989	8 82
9/7/2011	3 367	3 37%	4 31%	1/26/1989	9 06%	1/19/1989	8 85
9/6/2011	3 272	3 27%	4 31%	1/27/1989	9 06%	1/20/1989	8 882
9/5/2011	3 2969	3 30%	4 32%	1/30/1989	9 06%	1/23/1989	8 856
9/2/2011	3 2969	3 30%	4 32%	1/31/1989	9 06%	1/24/1989	8 785
9/1/2011	3 4945	3 49%	4 33%	2/1/1989	9 06%	1/25/1989	8 814
8/31/2011	3 6008	3 60%	4 33%	2/2/1989	9 06%	1/26/1989	8 803
8/30/2011	3 5225	3 52%	4 33%	2/3/1989	9 05%	1/27/1989	8 762
8/29/2011	3 5916	3 59%	4 34%	2/6/1989	9 05%	1/30/1989	8 811
8/26/2011	3 535	3 54%	4 34%	2/7/1989	9 05%	1/31/1989	8 82
8/25/2011	3 6009	3 60%	4 34%	2/8/1989	9 05%	2/1/1989	8 806
8/24/2011	3 6534	3 65%	4 35%	2/9/1989	9 05%	2/2/1989	8 808
8/23/2011	3 4931	3 49%	4 35%	2/10/1989	9 05%	2/3/1989	8 826
8/22/2011	3 4233	3 42%	4 35%	2/13/1989	9 05%	2/6/1989	8 85
8/19/2011	3 3904	3 39%	4 36%	2/14/1989	9 05%	2/7/1989	8 791
8/18/2011	3 4193	3 42%	4 36%	2/15/1989	9 05%	2/8/1989	8 832
8/17/2011	3 5633	3 56%	4 37%	2/16/1989	9 05%	2/9/1989	8 987
8/16/2011	3 6671	3 67%	4 37%	2/17/1989	9 05%	2/10/1989	9 034
8/15/2011	3 771	3 77%	4 37%	2/21/1989	9 05%	2/13/1989	9 065
8/12/2011	3 7257	3 73%	4 38%	2/22/1989	9 05%	2/14/1989	9 109
8/11/2011	3 769	3 77%	4 38%	2/23/1989	9 05%	2/15/1989	9 078
8/10/2011	3 5146	3 51%	4 38%	2/24/1989	9 05%	2/16/1989	9 053
8/9/2011	3 6181	3 62%	4 38%	2/27/1989	9 05%	2/17/1989	9 043
8/8/2011	3 653	3 65%	4 38%	2/28/1989	9 05%	2/21/1989	9 053
8/5/2011	3 8458	3 85%	4 39%	3/1/1989	9 05%	2/22/1989	9 115
8/4/2011	3 6707	3 67%	4 39%	3/2/1989	9 05%	2/23/1989	9 14
8/3/2011	3 902	3 90%	4 39%	3/3/1989	9 05%	2/24/1989	9 184
8/2/2011	3 9088	3 91%	4 39%	3/6/1989	9 05%	2/27/1989	9 155
8/1/2011	4 0795	4 08%	4 39%	3/7/1989	9 05%	2/28/1989	9 114
7/29/2011	4 1184	4 12%	4 39%	3/8/1989	9 05%	3/1/1989	9 184
7/28/2011	4 2556	4 26%	4 39%	3/9/1989	9 05%	3/2/1989	9 114
7/27/2011	4 2851	4 29%	4 39%	3/10/1989	9 05%	3/3/1989	9 121
7/26/2011	4 2823	4 28%	4 38%	3/13/1989	9 05%	3/6/1989	9 071
7/25/2011	4 3194	4 32%	4 38%	3/14/1989	9 04%	3/7/1989	9 083
7/22/2011	4 2575	4 26%	4 38%	3/15/1989	9 04%	3/8/1989	9 046
7/21/2011	4 312	4 31%	4 38%	3/16/1989	9 04%	3/9/1989	9 058
7/20/2011	4 252	4 25%	4 38%	3/17/1989	9 04%	3/10/1989	9 152
7/19/2011	4 1902	4 19%	4 38%	3/20/1989	9 04%	3/13/1989	9 158
7/18/2011	4 3083	4 31%	4 37%	3/21/1989	9 04%	3/14/1989	9 114
7/15/2011	4 2465	4 25%	4 37%	3/22/1989	9 04%	3/15/1989	9 117
7/14/2011	4 2539	4 25%	4 37%	3/23/1989	9 05%	3/16/1989	9 114
7/13/2011	4 1722	4 17%	4 37%	3/27/1989	9 05%	3/17/1989	9 288
7/12/2011	4 1677	4 17%	4 36%	3/28/1989	9 05%	3/20/1989	9 327
7/11/2011	4 2083	4 21%	4 36%	3/29/1989	9 05%	3/21/1989	9 288
7/8/2011	4 2824	4 28%	4 36%	3/30/1989	9 05%	3/22/1989	9 234
7/7/2011	4 3662	4 37%	4 36%	3/31/1989	9 05%	3/23/1989	9 221
7/6/2011	4 3625	4 36%	4 35%	4/3/1989	9 05%	3/27/1989	9 224
7/5/2011	4 3728	4 37%	4 35%	4/4/1989	9 05%	3/28/1989	9 183
7/4/2011	4 3908	4 39%	4 35%	4/5/1989	9 05%	3/29/1989	9 117
7/1/2011	4 3908	4 39%	4 34%	4/6/1989	9 05%	3/30/1989	9 148
6/30/2011	4 371	4 37%	4 34%	4/7/1989	9 05%	3/31/1989	9 092
6/29/2011	4 3766	4 38%	4 34%	4/10/1989	9 05%	4/3/1989	9 07
6/28/2011	4 3242	4 32%	4 33%	4/11/1989	9 05%	4/4/1989	9 011
6/27/2011	4 2954	4 30%	4 33%	4/12/1989	9 05%	4/5/1989	9 023

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
6/24/2011	4 1832	4 18%	4 33%	4/13/1989	9 05%	4/6/1989	9 042
6/23/2011	4 168	4 17%	4 33%	4/14/1989	9 05%	4/7/1989	9 104
6/22/2011	4 2149	4 21%	4 32%	4/17/1989	9 05%	4/10/1989	9 107
6/21/2011	4 2185	4 22%	4 32%	4/18/1989	9 05%	4/11/1989	9 095
6/20/2011	4 1977	4 20%	4 32%	4/19/1989	9 06%	4/12/1989	9 104
6/17/2011	4 205	4 21%	4 32%	4/20/1989	9 06%	4/13/1989	9 151
6/16/2011	4 1753	4 18%	4 32%	4/21/1989	9 06%	4/14/1989	9 029
6/15/2011	4 1996	4 20%	4 32%	4/24/1989	9 06%	4/17/1989	9 054
6/14/2011	4 2964	4 30%	4 31%	4/25/1989	9 06%	4/18/1989	8 938
6/13/2011	4 2005	4 20%	4 31%	4/26/1989	9 06%	4/19/1989	8 947
6/10/2011	4 1816	4 18%	4 31%	4/27/1989	9 05%	4/20/1989	9 017
6/9/2011	4 215	4 22%	4 31%	4/28/1989	9 05%	4/21/1989	8 983
6/8/2011	4 1853	4 19%	4 30%	5/1/1989	9 05%	4/24/1989	8 983
6/7/2011	4 2579	4 26%	4 30%	5/2/1989	9 05%	4/25/1989	8 95
6/6/2011	4 2579	4 26%	4 30%	5/3/1989	9 05%	4/26/1989	8 959
6/3/2011	4 2224	4 22%	4 30%	5/4/1989	9 05%	4/27/1989	8 907
6/2/2011	4 2442	4 24%	4 29%	5/5/1989	9 05%	4/28/1989	8 928
6/1/2011	4 1415	4 14%	4 29%	5/8/1989	9 05%	5/1/1989	8 99
5/31/2011	4 2242	4 22%	4 29%	5/9/1989	9 05%	5/2/1989	8 944
5/30/2011	4 2424	4 24%	4 28%	5/10/1989	9 05%	5/3/1989	8 988
5/27/2011	4 2424	4 24%	4 28%	5/11/1989	9 05%	5/4/1989	8 993
5/26/2011	4 2225	4 22%	4 28%	5/12/1989	9 04%	5/5/1989	8 956
5/25/2011	4 2819	4 28%	4 27%	5/15/1989	9 04%	5/8/1989	8 988
5/24/2011	4 2498	4 25%	4 27%	5/16/1989	9 04%	5/9/1989	9 095
5/23/2011	4 2663	4 27%	4 27%	5/17/1989	9 04%	5/10/1989	9 103
5/20/2011	4 2976	4 30%	4 27%	5/18/1989	9 04%	5/11/1989	9 062
5/19/2011	4 3032	4 30%	4 26%	5/19/1989	9 03%	5/12/1989	8 836
5/18/2011	4 2949	4 29%	4 26%	5/22/1989	9 03%	5/15/1989	8 848
5/17/2011	4 2271	4 23%	4 26%	5/23/1989	9 03%	5/16/1989	8 818
5/16/2011	4 2719	4 27%	4 26%	5/24/1989	9 03%	5/17/1989	8 806
5/13/2011	4 3078	4 31%	4 26%	5/25/1989	9 03%	5/18/1989	8 769
5/12/2011	4 3469	4 35%	4 25%	5/26/1989	9 02%	5/19/1989	8 705
5/11/2011	4 3032	4 30%	4 25%	5/29/1989	9 02%	5/22/1989	8 6
5/10/2011	4 3506	4 35%	4 25%	5/30/1989	9 01%	5/23/1989	8 615
5/9/2011	4 3085	4 31%	4 25%	5/31/1989	9 01%	5/24/1989	8 625
5/6/2011	4 2855	4 29%	4 25%	6/1/1989	9 01%	5/25/1989	8 677
5/5/2011	4 2556	4 26%	4 25%	6/2/1989	9 00%	5/26/1989	8 617
5/4/2011	4 3211	4 32%	4 25%	6/5/1989	9 00%	5/29/1989	8 6
5/3/2011	4 3507	4 35%	4 24%	6/6/1989	8 99%	5/30/1989	8 628
5/2/2011	4 3786	4 38%	4 24%	6/7/1989	8 99%	5/31/1989	8 595
4/29/2011	4 3968	4 40%	4 24%	6/8/1989	8 98%	6/1/1989	8 598
4/28/2011	4 4141	4 41%	4 24%	6/9/1989	8 97%	6/2/1989	8 451
4/27/2011	4 4526	4 45%	4 24%	6/12/1989	8 97%	6/5/1989	8 435
4/26/2011	4 3905	4 39%	4 24%	6/13/1989	8 96%	6/6/1989	8 399
4/25/2011	4 4554	4 46%	4 23%	6/14/1989	8 96%	6/7/1989	8 319
4/22/2011	4 4646	4 46%	4 23%	6/15/1989	8 95%	6/8/1989	8 298
4/21/2011	4 4739	4 47%	4 23%	6/16/1989	8 94%	6/9/1989	8 135
4/20/2011	4 4656	4 47%	4 23%	6/19/1989	8 94%	6/12/1989	8 135
4/19/2011	4 4316	4 43%	4 22%	6/20/1989	8 93%	6/13/1989	8 217
4/18/2011	4 4564	4 46%	4 22%	6/21/1989	8 93%	6/14/1989	8 164
4/15/2011	4 4684	4 47%	4 22%	6/22/1989	8 93%	6/15/1989	8 292
4/14/2011	4 5485	4 55%	4 22%	6/23/1989	8 92%	6/16/1989	8 301
4/13/2011	4 5429	4 54%	4 21%	6/26/1989	8 92%	6/19/1989	8 345
4/12/2011	4 575	4 58%	4 21%	6/27/1989	8 91%	6/20/1989	8 282
4/11/2011	4 6542	4 65%	4 21%	6/28/1989	8 91%	6/21/1989	8 341
4/8/2011	4 6417	4 64%	4 20%	6/29/1989	8 91%	6/22/1989	8 326
4/7/2011	4 6159	4 62%	4 20%	6/30/1989	8 90%	6/23/1989	8 195
4/6/2011	4 5949	4 59%	4 20%	7/3/1989	8 90%	6/26/1989	8 152
4/5/2011	4 5038	4 50%	4 19%	7/5/1989	8 89%	6/27/1989	8 072
4/4/2011	4 476	4 48%	4 19%	7/6/1989	8 89%	6/28/1989	8 14
4/1/2011	4 4853	4 49%	4 19%	7/7/1989	8 88%	6/29/1989	8 097
3/31/2011	4 5076	4 51%	4 19%	7/10/1989	8 88%	6/30/1989	8 037
3/30/2011	4 502	4 50%	4 18%	7/11/1989	8 87%	7/3/1989	8 072
3/29/2011	4 5441	4 54%	4 18%	7/12/1989	8 87%	7/5/1989	8 13
3/28/2011	4 4946	4 49%	4 18%	7/13/1989	8 86%	7/6/1989	8 09
3/25/2011	4 5002	4 50%	4 18%	7/14/1989	8 86%	7/7/1989	8 039
3/24/2011	4 4826	4 48%	4 18%	7/17/1989	8 85%	7/10/1989	8 009
3/23/2011	4 4477	4 45%	4 17%	7/18/1989	8 85%	7/11/1989	8 017
3/22/2011	4 4367	4 44%	4 17%	7/19/1989	8 84%	7/12/1989	8 032
3/21/2011	4 4514	4 45%	4 17%	7/20/1989	8 84%	7/13/1989	8 054
3/18/2011	4 4166	4 42%	4 17%	7/21/1989	8 83%	7/14/1989	8 083
3/17/2011	4 4358	4 44%	4 17%	7/24/1989	8 83%	7/17/1989	8 124
3/16/2011	4 3553	4 36%	4 17%	7/25/1989	8 83%	7/18/1989	8 188
3/15/2011	4 4542	4 45%	4 17%	7/26/1989	8 82%	7/19/1989	8 138
3/14/2011	4 5349	4 53%	4 16%	7/27/1989	8 82%	7/20/1989	8 134

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
3/11/2011	4 548	4 55%	4 16%	7/28/1989	8 81%	7/21/1989	8 152
3/10/2011	4 4986	4 50%	4 16%	7/31/1989	8 81%	7/24/1989	8 128
3/9/2011	4 6067	4 61%	4 16%	8/1/1989	8 80%	7/25/1989	8 113
3/8/2011	4 6632	4 66%	4 16%	8/2/1989	8 80%	7/26/1989	8 104
3/7/2011	4 6219	4 62%	4 15%	8/3/1989	8 79%	7/27/1989	8 027
3/4/2011	4 5963	4 60%	4 15%	8/4/1989	8 79%	7/28/1989	7 99
3/3/2011	4 6191	4 62%	4 15%	8/7/1989	8 79%	7/31/1989	7 92
3/2/2011	4 5661	4 57%	4 15%	8/8/1989	8 78%	8/1/1989	7 846
3/1/2011	4 4794	4 48%	4 15%	8/9/1989	8 78%	8/2/1989	7 835
2/28/2011	4 5007	4 50%	4 14%	8/10/1989	8 77%	8/3/1989	7 9
2/25/2011	4 496	4 50%	4 14%	8/11/1989	8 77%	8/4/1989	8 079
2/24/2011	4 5417	4 54%	4 14%	8/14/1989	8 77%	8/7/1989	8 082
2/23/2011	4 5822	4 58%	4 14%	8/15/1989	8 76%	8/8/1989	8 084
2/22/2011	4 6031	4 60%	4 14%	8/16/1989	8 76%	8/9/1989	8 141
2/21/2011	4 6836	4 68%	4 13%	8/17/1989	8 76%	8/10/1989	8 057
2/18/2011	4 6836	4 68%	4 13%	8/18/1989	8 75%	8/11/1989	8 11
2/17/2011	4 6682	4 67%	4 13%	8/21/1989	8 75%	8/14/1989	8 241
2/16/2011	4 6798	4 68%	4 13%	8/22/1989	8 75%	8/15/1989	8 158
2/15/2011	4 6615	4 66%	4 13%	8/23/1989	8 74%	8/16/1989	8 113
2/14/2011	4 6711	4 67%	4 13%	8/24/1989	8 74%	8/17/1989	8 159
2/11/2011	4 6876	4 69%	4 13%	8/25/1989	8 74%	8/18/1989	8 158
2/10/2011	4 7642	4 76%	4 12%	8/28/1989	8 73%	8/21/1989	8 177
2/9/2011	4 711	4 71%	4 12%	8/29/1989	8 73%	8/22/1989	8 251
2/8/2011	4 7652	4 77%	4 12%	8/30/1989	8 72%	8/23/1989	8 17
2/7/2011	4 6965	4 70%	4 12%	8/31/1989	8 72%	8/24/1989	8 155
2/4/2011	4 7275	4 73%	4 12%	9/1/1989	8 71%	8/25/1989	8 19
2/3/2011	4 6645	4 66%	4 11%	9/4/1989	8 71%	8/28/1989	8 231
2/2/2011	4 6196	4 62%	4 11%	9/5/1989	8 70%	8/29/1989	8 205
2/1/2011	4 6165	4 62%	4 11%	9/6/1989	8 70%	8/30/1989	8 177
1/31/2011	4 5711	4 57%	4 11%	9/7/1989	8 69%	8/31/1989	8 204
1/28/2011	4 5282	4 53%	4 11%	9/8/1989	8 69%	9/1/1989	8 129
1/27/2011	4 5691	4 57%	4 11%	9/11/1989	8 68%	9/4/1989	8 139
1/26/2011	4 5861	4 59%	4 11%	9/12/1989	8 68%	9/5/1989	8 13
1/25/2011	4 4896	4 49%	4 11%	9/13/1989	8 67%	9/6/1989	8 101
1/24/2011	4 557	4 56%	4 12%	9/14/1989	8 67%	9/7/1989	8 116
1/21/2011	4 565	4 57%	4 12%	9/15/1989	8 66%	9/8/1989	8 082
1/20/2011	4 6093	4 61%	4 12%	9/18/1989	8 66%	9/11/1989	8 066
1/19/2011	4 5271	4 53%	4 12%	9/19/1989	8 65%	9/12/1989	8 1
1/18/2011	4 563	4 56%	4 12%	9/20/1989	8 65%	9/13/1989	8 147
1/17/2011	4 5281	4 53%	4 12%	9/21/1989	8 65%	9/14/1989	8 098
1/14/2011	4 5301	4 53%	4 12%	9/22/1989	8 64%	9/15/1989	8 076
1/13/2011	4 4984	4 50%	4 12%	9/25/1989	8 64%	9/18/1989	8 09
1/12/2011	4 531	4 53%	4 12%	9/26/1989	8 64%	9/19/1989	8 088
1/11/2011	4 4876	4 49%	4 12%	9/27/1989	8 63%	9/20/1989	8 165
1/10/2011	4 4611	4 46%	4 12%	9/28/1989	8 63%	9/21/1989	8 185
1/7/2011	4 4846	4 48%	4 13%	9/29/1989	8 62%	9/22/1989	8 192
1/6/2011	4 5112	4 51%	4 13%	10/2/1989	8 62%	9/25/1989	8 286
1/5/2011	4 5439	4 54%	4 13%	10/3/1989	8 62%	9/26/1989	8 286
1/4/2011	4 4106	4 41%	4 13%	10/4/1989	8 61%	9/27/1989	8 246
1/3/2011	4 3971	4 40%	4 13%	10/5/1989	8 61%	9/28/1989	8 246
12/31/2010	4 3341	4 33%	4 13%	10/6/1989	8 60%	9/29/1989	8 236
12/30/2010	4 4231	4 42%	4 14%	10/9/1989	8 60%	10/2/1989	8 216
12/29/2010	4 4309	4 43%	4 14%	10/10/1989	8 59%	10/3/1989	8 162
12/28/2010	4 5319	4 53%	4 14%	10/11/1989	8 59%	10/4/1989	8 163
12/27/2010	4 4019	4 40%	4 14%	10/12/1989	8 58%	10/5/1989	8 071
12/24/2010	4 4698	4 47%	4 14%	10/13/1989	8 58%	10/6/1989	8 009
12/23/2010	4 4698	4 47%	4 14%	10/16/1989	8 57%	10/9/1989	8
12/22/2010	4 4464	4 45%	4 14%	10/17/1989	8 57%	10/10/1989	8 011
12/21/2010	4 4183	4 42%	4 14%	10/18/1989	8 56%	10/11/1989	8 055
12/20/2010	4 4415	4 44%	4 14%	10/19/1989	8 56%	10/12/1989	8 046
12/17/2010	4 4367	4 44%	4 14%	10/20/1989	8 55%	10/13/1989	7 871
12/16/2010	4 5338	4 53%	4 14%	10/23/1989	8 54%	10/16/1989	7 974
12/15/2010	4 5947	4 59%	4 15%	10/24/1989	8 54%	10/17/1989	8 03
12/14/2010	4 5288	4 53%	4 15%	10/25/1989	8 53%	10/18/1989	8 039
12/13/2010	4 4076	4 41%	4 15%	10/26/1989	8 53%	10/19/1989	7 961
12/10/2010	4 4289	4 43%	4 15%	10/27/1989	8 52%	10/20/1989	7 98
12/9/2010	4 398	4 40%	4 15%	10/30/1989	8 52%	10/23/1989	7 936
12/8/2010	4 4561	4 46%	4 15%	10/31/1989	8 52%	10/24/1989	7 889
12/7/2010	4 3674	4 37%	4 15%	11/1/1989	8 51%	10/25/1989	7 887
12/6/2010	4 2397	4 24%	4 15%	11/2/1989	8 51%	10/26/1989	7 883
12/3/2010	4 3143	4 31%	4 15%	11/3/1989	8 50%	10/27/1989	7 942
12/2/2010	4 2545	4 25%	4 15%	11/6/1989	8 50%	10/30/1989	7 923
12/1/2010	4 2397	4 24%	4 16%	11/7/1989	8 49%	10/31/1989	7 906
11/30/2010	4 1104	4 11%	4 16%	11/8/1989	8 49%	11/1/1989	7 879
11/29/2010	4 1401	4 14%	4 16%	11/9/1989	8 48%	11/2/1989	7 874

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
11/26/2010	4 2093	4 21%	4 16%	11/10/1989	8 48%	11/3/1989	7 934
11/25/2010	4 275	4 28%	4 17%	11/13/1989	8 47%	11/6/1989	7 952
11/24/2010	4 2797	4 28%	4 17%	11/14/1989	8 47%	11/7/1989	7 872
11/23/2010	4 1901	4 19%	4 17%	11/15/1989	8 46%	11/8/1989	7 878
11/22/2010	4 2048	4 20%	4 17%	11/16/1989	8 46%	11/9/1989	7 895
11/19/2010	4 2444	4 24%	4 17%	11/17/1989	8 46%	11/10/1989	7 895
11/18/2010	4 2807	4 28%	4 18%	11/20/1989	8 45%	11/13/1989	7 884
11/17/2010	4 2853	4 29%	4 18%	11/21/1989	8 44%	11/14/1989	7 884
11/16/2010	4 2648	4 26%	4 18%	11/22/1989	8 44%	11/15/1989	7 858
11/15/2010	4 4153	4 42%	4 18%	11/23/1989	8 43%	11/16/1989	7 864
11/12/2010	4 2844	4 28%	4 18%	11/24/1989	8 43%	11/17/1989	7 929
11/11/2010	4 243	4 24%	4 18%	11/27/1989	8 42%	11/20/1989	7 917
11/10/2010	4 2311	4 23%	4 19%	11/28/1989	8 41%	11/21/1989	7 899
11/9/2010	4 2466	4 25%	4 19%	11/29/1989	8 41%	11/22/1989	7 871
11/8/2010	4 1201	4 12%	4 19%	11/30/1989	8 40%	11/23/1989	7 87
11/5/2010	4 1192	4 12%	4 19%	12/1/1989	8 40%	11/24/1989	7 872
11/4/2010	4 0713	4 07%	4 19%	12/4/1989	8 39%	11/27/1989	7 912
11/3/2010	4 0398	4 04%	4 20%	12/5/1989	8 38%	11/28/1989	7 908
11/2/2010	3 9266	3 93%	4 20%	12/6/1989	8 38%	11/29/1989	7 923
11/1/2010	4 0029	4 00%	4 20%	12/7/1989	8 37%	11/30/1989	7 89
10/29/2010	3 9828	3 98%	4 20%	12/8/1989	8 36%	12/1/1989	7 879
10/28/2010	4 049	4 05%	4 21%	12/11/1989	8 36%	12/4/1989	7 875
10/27/2010	4 0564	4 06%	4 21%	12/12/1989	8 35%	12/5/1989	7 882
10/26/2010	3 9946	3 99%	4 21%	12/13/1989	8 35%	12/6/1989	7 908
10/25/2010	3 9095	3 91%	4 21%	12/14/1989	8 34%	12/7/1989	7 919
10/22/2010	3 9293	3 93%	4 22%	12/15/1989	8 33%	12/8/1989	7 879
10/21/2010	3 9609	3 96%	4 22%	12/18/1989	8 33%	12/11/1989	7 891
10/20/2010	3 8899	3 89%	4 22%	12/19/1989	8 32%	12/12/1989	7 892
10/19/2010	3 9131	3 91%	4 23%	12/20/1989	8 31%	12/13/1989	7 882
10/18/2010	3 9537	3 95%	4 23%	12/21/1989	8 31%	12/14/1989	7 852
10/15/2010	3 9791	3 98%	4 24%	12/22/1989	8 30%	12/15/1989	7 851
10/14/2010	3 9149	3 91%	4 24%	12/26/1989	8 30%	12/18/1989	7 839
10/13/2010	3 8166	3 82%	4 24%	12/27/1989	8 29%	12/19/1989	7 842
10/12/2010	3 8192	3 82%	4 25%	12/28/1989	8 28%	12/20/1989	7 839
10/11/2010	3 7489	3 75%	4 25%	12/29/1989	8 28%	12/21/1989	7 852
10/8/2010	3 7489	3 75%	4 26%	1/2/1990	8 27%	12/22/1989	7 874
10/7/2010	3 7121	3 71%	4 26%	1/3/1990	8 26%	12/26/1989	7 986
10/6/2010	3 6747	3 67%	4 27%	1/4/1990	8 26%	12/27/1989	7 98
10/5/2010	3 7472	3 75%	4 27%	1/5/1990	8 25%	12/28/1989	7 961
10/4/2010	3 7061	3 71%	4 27%	1/8/1990	8 25%	12/29/1989	7 978
10/1/2010	3 7147	3 71%	4 28%	1/9/1990	8 24%	1/2/1990	7 99
9/30/2010	3 6849	3 68%	4 28%	1/10/1990	8 24%	1/3/1990	8 034
9/29/2010	3 6841	3 68%	4 29%	1/11/1990	8 23%	1/4/1990	8 035
9/28/2010	3 6579	3 66%	4 29%	1/12/1990	8 23%	1/5/1990	8 056
9/27/2010	3 7181	3 72%	4 30%	1/15/1990	8 22%	1/8/1990	8 094
9/24/2010	3 794	3 79%	4 30%	1/16/1990	8 22%	1/9/1990	8 094
9/23/2010	3 7301	3 73%	4 31%	1/17/1990	8 22%	1/10/1990	8 085
9/22/2010	3 7499	3 75%	4 31%	1/18/1990	8 21%	1/11/1990	8 115
9/21/2010	3 7845	3 78%	4 31%	1/19/1990	8 21%	1/12/1990	8 171
9/20/2010	3 8757	3 88%	4 32%	1/22/1990	8 20%	1/15/1990	8 185
9/17/2010	3 9033	3 90%	4 32%	1/23/1990	8 20%	1/16/1990	8 254
9/16/2010	3 9248	3 92%	4 32%	1/24/1990	8 20%	1/17/1990	8 248
9/15/2010	3 8713	3 87%	4 33%	1/25/1990	8 19%	1/18/1990	8 338
9/14/2010	3 7993	3 80%	4 33%	1/26/1990	8 19%	1/19/1990	8 27
9/13/2010	3 8483	3 85%	4 33%	1/29/1990	8 19%	1/22/1990	8 309
9/10/2010	3 8687	3 87%	4 34%	1/30/1990	8 19%	1/23/1990	8 391
9/9/2010	3 8387	3 84%	4 34%	1/31/1990	8 19%	1/24/1990	8 411
9/8/2010	3 7294	3 73%	4 34%	2/1/1990	8 18%	1/25/1990	8 457
9/7/2010	3 6616	3 66%	4 34%	2/2/1990	8 18%	1/26/1990	8 522
9/6/2010	3 7837	3 78%	4 35%	2/5/1990	8 18%	1/29/1990	8 578
9/3/2010	3 7811	3 78%	4 35%	2/6/1990	8 18%	1/30/1990	8 545
9/2/2010	3 7141	3 71%	4 35%	2/7/1990	8 17%	1/31/1990	8 452
9/1/2010	3 6457	3 65%	4 35%	2/8/1990	8 17%	2/1/1990	8 429
8/31/2010	3 5155	3 52%	4 36%	2/9/1990	8 17%	2/2/1990	8 51
8/30/2010	3 5809	3 58%	4 36%	2/12/1990	8 17%	2/5/1990	8 535
8/27/2010	3 6896	3 69%	4 36%	2/13/1990	8 16%	2/6/1990	8 588
8/26/2010	3 5115	3 51%	4 37%	2/14/1990	8 16%	2/7/1990	8 544
8/25/2010	3 5695	3 57%	4 37%	2/15/1990	8 16%	2/8/1990	8 483
8/24/2010	3 5605	3 56%	4 37%	2/16/1990	8 15%	2/9/1990	8 331
8/23/2010	3 6618	3 66%	4 38%	2/19/1990	8 15%	2/12/1990	8 43
8/20/2010	3 6601	3 66%	4 38%	2/20/1990	8 15%	2/13/1990	8 383
8/19/2010	3 6543	3 65%	4 38%	2/21/1990	8 15%	2/14/1990	8 413
8/18/2010	3 7331	3 73%	4 39%	2/22/1990	8 15%	2/15/1990	8 457
8/17/2010	3 7632	3 76%	4 39%	2/23/1990	8 15%	2/16/1990	8 46
8/16/2010	3 711	3 71%	4 39%	2/26/1990	8 15%	2/19/1990	8 521

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
8/13/2010	3 8538	3 85%	4 40%	2/27/1990	8 14%	2/20/1990	8 659
8/12/2010	3 9476	3 95%	4 40%	2/28/1990	8 14%	2/21/1990	8 641
8/11/2010	3 9188	3 92%	4 40%	3/1/1990	8 14%	2/22/1990	8 566
8/10/2010	4 0044	4 00%	4 41%	3/2/1990	8 14%	2/23/1990	8 557
8/9/2010	4 0165	4 02%	4 41%	3/5/1990	8 14%	2/26/1990	8 484
8/6/2010	3 994	3 99%	4 41%	3/6/1990	8 14%	2/27/1990	8 447
8/5/2010	4 0505	4 05%	4 41%	3/7/1990	8 14%	2/28/1990	8 542
8/4/2010	4 0795	4 08%	4 41%	3/8/1990	8 14%	3/1/1990	8 605
8/3/2010	4 0488	4 05%	4 41%	3/9/1990	8 14%	3/2/1990	8 548
8/2/2010	4 0619	4 06%	4 41%	3/12/1990	8 14%	3/5/1990	8 651
7/30/2010	3 9881	3 99%	4 41%	3/13/1990	8 14%	3/6/1990	8 571
7/29/2010	4 0778	4 08%	4 42%	3/14/1990	8 15%	3/7/1990	8 598
7/28/2010	4 0638	4 06%	4 42%	3/15/1990	8 15%	3/8/1990	8 552
7/27/2010	4 0787	4 08%	4 42%	3/16/1990	8 15%	3/9/1990	8 624
7/26/2010	4 0185	4 02%	4 42%	3/19/1990	8 15%	3/12/1990	8 615
7/23/2010	4 0142	4 01%	4 42%	3/20/1990	8 15%	3/13/1990	8 713
7/22/2010	3 9498	3 95%	4 42%	3/21/1990	8 15%	3/14/1990	8 605
7/21/2010	3 8889	3 89%	4 42%	3/22/1990	8 15%	3/15/1990	8 615
7/20/2010	3 9789	3 98%	4 42%	3/23/1990	8 15%	3/16/1990	8 54
7/19/2010	3 9772	3 98%	4 43%	3/26/1990	8 16%	3/19/1990	8 534
7/16/2010	3 9379	3 94%	4 43%	3/27/1990	8 16%	3/20/1990	8 457
7/15/2010	3 9859	3 99%	4 43%	3/28/1990	8 16%	3/21/1990	8 493
7/14/2010	4 0282	4 03%	4 43%	3/29/1990	8 16%	3/22/1990	8 486
7/13/2010	4 1063	4 11%	4 43%	3/30/1990	8 16%	3/23/1990	8 478
7/12/2010	4 0561	4 06%	4 43%	4/2/1990	8 16%	3/26/1990	8 463
7/9/2010	4 0361	4 04%	4 43%	4/3/1990	8 16%	3/27/1990	8 47
7/8/2010	4 0119	4 01%	4 43%	4/4/1990	8 17%	3/28/1990	8 463
7/7/2010	3 9569	3 96%	4 43%	4/5/1990	8 17%	3/29/1990	8 585
7/6/2010	3 89	3 89%	4 43%	4/6/1990	8 17%	3/30/1990	8 626
7/5/2010	3 9425	3 94%	4 43%	4/9/1990	8 17%	4/2/1990	8 631
7/2/2010	3 9425	3 94%	4 43%	4/10/1990	8 17%	4/3/1990	8 615
7/1/2010	3 8944	3 89%	4 43%	4/11/1990	8 18%	4/4/1990	8 509
6/30/2010	3 8885	3 89%	4 43%	4/12/1990	8 18%	4/5/1990	8 519
6/29/2010	3 9316	3 93%	4 43%	4/13/1990	8 18%	4/6/1990	8 521
6/28/2010	4 0009	4 00%	4 43%	4/16/1990	8 19%	4/9/1990	8 548
6/25/2010	4 0625	4 06%	4 44%	4/17/1990	8 19%	4/10/1990	8 589
6/24/2010	4 1039	4 10%	4 44%	4/18/1990	8 19%	4/11/1990	8 575
6/23/2010	4 06	4 06%	4 44%	4/19/1990	8 20%	4/12/1990	8 594
6/22/2010	4 1004	4 10%	4 44%	4/20/1990	8 20%	4/13/1990	8 576
6/21/2010	4 1626	4 16%	4 44%	4/23/1990	8 21%	4/16/1990	8 637
6/18/2010	4 1439	4 14%	4 44%	4/24/1990	8 21%	4/17/1990	8 717
6/17/2010	4 1217	4 12%	4 44%	4/25/1990	8 21%	4/18/1990	8 844
6/16/2010	4 1816	4 18%	4 44%	4/26/1990	8 22%	4/19/1990	8 847
6/15/2010	4 2195	4 22%	4 44%	4/27/1990	8 22%	4/20/1990	8 943
6/14/2010	4 1789	4 18%	4 44%	4/30/1990	8 23%	4/23/1990	8 961
6/11/2010	4 1493	4 15%	4 44%	5/1/1990	8 23%	4/24/1990	8 961
6/10/2010	4 2332	4 23%	4 44%	5/2/1990	8 24%	4/25/1990	8 983
6/9/2010	4 1103	4 11%	4 44%	5/3/1990	8 24%	4/26/1990	9 041
6/8/2010	4 1103	4 11%	4 44%	5/4/1990	8 24%	4/27/1990	9 021
6/7/2010	4 0813	4 08%	4 44%	5/7/1990	8 25%	4/30/1990	8 994
6/4/2010	4 1299	4 13%	4 44%	5/8/1990	8 25%	5/1/1990	9 034
6/3/2010	4 2698	4 27%	4 44%	5/9/1990	8 26%	5/2/1990	9 034
6/2/2010	4 2388	4 24%	4 44%	5/10/1990	8 26%	5/3/1990	8 973
6/1/2010	4 179	4 18%	4 44%	5/11/1990	8 27%	5/4/1990	8 816
5/31/2010	4 2043	4 20%	4 44%	5/14/1990	8 27%	5/7/1990	8 841
5/28/2010	4 2088	4 21%	4 44%	5/15/1990	8 27%	5/8/1990	8 825
5/27/2010	4 2553	4 26%	4 44%	5/16/1990	8 28%	5/9/1990	8 868
5/26/2010	4 0921	4 09%	4 44%	5/17/1990	8 28%	5/10/1990	8 847
5/25/2010	4 057	4 06%	4 44%	5/18/1990	8 28%	5/11/1990	8 641
5/24/2010	4 0842	4 08%	4 45%	5/21/1990	8 28%	5/14/1990	8 579
5/21/2010	4 0991	4 10%	4 45%	5/22/1990	8 29%	5/15/1990	8 616
5/20/2010	4 0878	4 09%	4 45%	5/23/1990	8 29%	5/16/1990	8 639
5/19/2010	4 2435	4 24%	4 45%	5/24/1990	8 29%	5/17/1990	8 655
5/18/2010	4 2289	4 23%	4 45%	5/25/1990	8 29%	5/18/1990	8 702
5/17/2010	4 359	4 36%	4 45%	5/28/1990	8 30%	5/21/1990	8 688
5/14/2010	4 3357	4 34%	4 45%	5/29/1990	8 30%	5/22/1990	8 613
5/13/2010	4 4271	4 43%	4 45%	5/30/1990	8 30%	5/23/1990	8 575
5/12/2010	4 4803	4 48%	4 45%	5/31/1990	8 30%	5/24/1990	8 611
5/11/2010	4 4197	4 42%	4 45%	6/1/1990	8 30%	5/25/1990	8 668
5/10/2010	4 4104	4 41%	4 46%	6/4/1990	8 30%	5/28/1990	8 679
5/7/2010	4 2749	4 27%	4 46%	6/5/1990	8 31%	5/29/1990	8 618
5/6/2010	4 2003	4 20%	4 46%	6/6/1990	8 31%	5/30/1990	8 594
5/5/2010	4 3847	4 38%	4 46%	6/7/1990	8 31%	5/31/1990	8 578
5/4/2010	4 4123	4 41%	4 46%	6/8/1990	8 31%	6/1/1990	8 419
5/3/2010	4 5266	4 53%	4 46%	6/11/1990	8 31%	6/4/1990	8 425

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
4/30/2010	4 5172	4 52%	4 46%	6/12/1990	8 31%	6/5/1990	8 449
4/29/2010	4 5888	4 59%	4 46%	6/13/1990	8 31%	6/6/1990	8 442
4/28/2010	4 6265	4 63%	4 46%	6/14/1990	8 31%	6/7/1990	8 426
4/27/2010	4 5763	4 58%	4 46%	6/15/1990	8 32%	6/8/1990	8 443
4/26/2010	4 6646	4 66%	4 46%	6/18/1990	8 32%	6/11/1990	8 447
4/23/2010	4 6597	4 66%	4 46%	6/19/1990	8 32%	6/12/1990	8 457
4/22/2010	4 6363	4 64%	4 45%	6/20/1990	8 32%	6/13/1990	8 383
4/21/2010	4 6159	4 62%	4 45%	6/21/1990	8 32%	6/14/1990	8 345
4/20/2010	4 6734	4 67%	4 45%	6/22/1990	8 33%	6/15/1990	8 424
4/19/2010	4 6941	4 69%	4 45%	6/25/1990	8 33%	6/18/1990	8 461
4/16/2010	4 6705	4 67%	4 45%	6/26/1990	8 33%	6/19/1990	8 48
4/15/2010	4 7149	4 71%	4 45%	6/27/1990	8 33%	6/20/1990	8 513
4/14/2010	4 7298	4 73%	4 45%	6/28/1990	8 33%	6/21/1990	8 492
4/13/2010	4 6813	4 68%	4 44%	6/29/1990	8 34%	6/22/1990	8 48
4/12/2010	4 6961	4 70%	4 44%	7/2/1990	8 34%	6/25/1990	8 565
4/9/2010	4 7397	4 74%	4 44%	7/3/1990	8 34%	6/26/1990	8 51
4/8/2010	4 7527	4 75%	4 44%	7/4/1990	8 34%	6/27/1990	8 48
4/7/2010	4 7377	4 74%	4 44%	7/5/1990	8 34%	6/28/1990	8 439
4/6/2010	4 8324	4 83%	4 43%	7/6/1990	8 34%	6/29/1990	8 4
4/5/2010	4 8395	4 84%	4 43%	7/9/1990	8 34%	7/2/1990	8 399
4/2/2010	4 806	4 81%	4 43%	7/10/1990	8 34%	7/3/1990	8 388
4/1/2010	4 7278	4 73%	4 43%	7/11/1990	8 34%	7/4/1990	8 383
3/31/2010	4 7129	4 71%	4 42%	7/12/1990	8 35%	7/5/1990	8 404
3/30/2010	4 7457	4 75%	4 42%	7/13/1990	8 35%	7/6/1990	8 505
3/29/2010	4 7677	4 77%	4 42%	7/16/1990	8 35%	7/9/1990	8 545
3/26/2010	4 7457	4 75%	4 42%	7/17/1990	8 35%	7/10/1990	8 555
3/25/2010	4 7577	4 76%	4 42%	7/18/1990	8 36%	7/11/1990	8 561
3/24/2010	4 7318	4 73%	4 41%	7/19/1990	8 36%	7/12/1990	8 497
3/23/2010	4 6054	4 61%	4 41%	7/20/1990	8 36%	7/13/1990	8 449
3/22/2010	4 5679	4 57%	4 41%	7/23/1990	8 36%	7/16/1990	8 456
3/19/2010	4 5794	4 58%	4 41%	7/24/1990	8 37%	7/17/1990	8 459
3/18/2010	4 591	4 59%	4 41%	7/25/1990	8 37%	7/18/1990	8 545
3/17/2010	4 566	4 57%	4 41%	7/26/1990	8 37%	7/19/1990	8 553
3/16/2010	4 5871	4 59%	4 41%	7/27/1990	8 37%	7/20/1990	8 538
3/15/2010	4 6267	4 63%	4 42%	7/30/1990	8 38%	7/23/1990	8 553
3/12/2010	4 6248	4 62%	4 42%	7/31/1990	8 38%	7/24/1990	8 585
3/11/2010	4 6667	4 67%	4 42%	8/1/1990	8 38%	7/25/1990	8 545
3/10/2010	4 6912	4 69%	4 42%	8/2/1990	8 38%	7/26/1990	8 538
3/9/2010	4 6755	4 68%	4 41%	8/3/1990	8 39%	7/27/1990	8 478
3/8/2010	4 6863	4 69%	4 41%	8/6/1990	8 39%	7/30/1990	8 405
3/5/2010	4 6423	4 64%	4 41%	8/7/1990	8 40%	7/31/1990	8 411
3/4/2010	4 5556	4 56%	4 41%	8/8/1990	8 40%	8/1/1990	8 353
3/3/2010	4 5853	4 59%	4 41%	8/9/1990	8 41%	8/2/1990	8 458
3/2/2010	4 5671	4 57%	4 41%	8/10/1990	8 41%	8/3/1990	8 555
3/1/2010	4 5576	4 56%	4 41%	8/13/1990	8 41%	8/6/1990	8 802
2/26/2010	4 5566	4 56%	4 41%	8/14/1990	8 42%	8/7/1990	8 842
2/25/2010	4 5748	4 57%	4 41%	8/15/1990	8 42%	8/8/1990	8 841
2/24/2010	4 6356	4 64%	4 41%	8/16/1990	8 43%	8/9/1990	8 756
2/23/2010	4 6298	4 63%	4 41%	8/17/1990	8 43%	8/10/1990	8 777
2/22/2010	4 7269	4 73%	4 40%	8/20/1990	8 44%	8/13/1990	8 807
2/19/2010	4 7031	4 70%	4 40%	8/21/1990	8 44%	8/14/1990	8 783
2/18/2010	4 7309	4 73%	4 40%	8/22/1990	8 45%	8/15/1990	8 759
2/17/2010	4 6972	4 70%	4 40%	8/23/1990	8 46%	8/16/1990	8 908
2/16/2010	4 6318	4 63%	4 39%	8/24/1990	8 46%	8/17/1990	8 943
2/15/2010	4 6493	4 65%	4 39%	8/27/1990	8 47%	8/20/1990	8 919
2/12/2010	4 6463	4 65%	4 39%	8/28/1990	8 47%	8/21/1990	8 937
2/11/2010	4 6646	4 66%	4 39%	8/29/1990	8 48%	8/22/1990	9 054
2/10/2010	4 6364	4 64%	4 38%	8/30/1990	8 48%	8/23/1990	9 128
2/9/2010	4 5835	4 58%	4 38%	8/31/1990	8 49%	8/24/1990	9 155
2/8/2010	4 4972	4 50%	4 38%	9/3/1990	8 50%	8/27/1990	9 006
2/5/2010	4 5186	4 52%	4 38%	9/4/1990	8 50%	8/28/1990	9 039
2/4/2010	4 5499	4 55%	4 37%	9/5/1990	8 51%	8/29/1990	8 926
2/3/2010	4 6383	4 64%	4 37%	9/6/1990	8 51%	8/30/1990	8 975
2/2/2010	4 5588	4 56%	4 37%	9/7/1990	8 52%	8/31/1990	8 984
2/1/2010	4 5617	4 56%	4 37%	9/10/1990	8 52%	9/3/1990	9 018
1/29/2010	4 4884	4 49%	4 36%	9/11/1990	8 53%	9/4/1990	9 018
1/28/2010	4 5489	4 55%	4 36%	9/12/1990	8 53%	9/5/1990	8 965
1/27/2010	4 5627	4 56%	4 36%	9/13/1990	8 54%	9/6/1990	8 948
1/26/2010	4 5528	4 55%	4 35%	9/14/1990	8 54%	9/7/1990	8 913
1/25/2010	4 5469	4 55%	4 35%	9/17/1990	8 55%	9/10/1990	8 964
1/22/2010	4 5312	4 53%	4 34%	9/18/1990	8 56%	9/11/1990	8 927
1/21/2010	4 4932	4 49%	4 34%	9/19/1990	8 56%	9/12/1990	8 947
1/20/2010	4 5342	4 53%	4 34%	9/20/1990	8 57%	9/13/1990	8 951
1/19/2010	4 5873	4 59%	4 33%	9/21/1990	8 57%	9/14/1990	9 022
1/18/2010	4 5814	4 58%	4 33%	9/24/1990	8 58%	9/17/1990	9 06

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
1/15/2010	4 5814	4 58%	4 32%	9/25/1990	8 59%	9/18/1990	9 058
1/14/2010	4 6271	4 63%	4 32%	9/26/1990	8 59%	9/19/1990	9 014
1/13/2010	4 712	4 71%	4 31%	9/27/1990	8 60%	9/20/1990	9 036
1/12/2010	4 6171	4 62%	4 31%	9/28/1990	8 60%	9/21/1990	9 123
1/11/2010	4 7314	4 73%	4 31%	10/1/1990	8 61%	9/24/1990	9 172
1/8/2010	4 715	4 72%	4 30%	10/2/1990	8 61%	9/25/1990	9 146
1/7/2010	4 6855	4 69%	4 30%	10/3/1990	8 62%	9/26/1990	9 126
1/6/2010	4 6875	4 69%	4 29%	10/4/1990	8 62%	9/27/1990	9 019
1/5/2010	4 6091	4 61%	4 28%	10/5/1990	8 63%	9/28/1990	8 949
1/4/2010	4 6431	4 64%	4 28%	10/8/1990	8 63%	10/1/1990	8 853
1/1/2010	4 6281	4 63%	4 27%	10/9/1990	8 64%	10/2/1990	8 825
12/31/2009	4 6411	4 64%	4 27%	10/10/1990	8 64%	10/3/1990	8 865
12/30/2009	4 6091	4 61%	4 26%	10/11/1990	8 65%	10/4/1990	8 79
12/29/2009	4 637	4 64%	4 26%	10/12/1990	8 65%	10/5/1990	8 789
12/28/2009	4 6894	4 69%	4 25%	10/15/1990	8 65%	10/8/1990	8 819
12/25/2009	4 6834	4 68%	4 25%	10/16/1990	8 66%	10/9/1990	8 963
12/24/2009	4 6833	4 68%	4 24%	10/17/1990	8 66%	10/10/1990	9 055
12/23/2009	4 607	4 61%	4 24%	10/18/1990	8 67%	10/11/1990	9 08
12/22/2009	4 61	4 61%	4 23%	10/19/1990	8 67%	10/12/1990	8 958
12/21/2009	4 5586	4 56%	4 23%	10/22/1990	8 67%	10/15/1990	8 937
12/18/2009	4 4575	4 46%	4 22%	10/23/1990	8 67%	10/16/1990	8 893
12/17/2009	4 4164	4 42%	4 22%	10/24/1990	8 68%	10/17/1990	8 885
12/16/2009	4 5243	4 52%	4 22%	10/25/1990	8 68%	10/18/1990	8 819
12/15/2009	4 5214	4 52%	4 21%	10/26/1990	8 68%	10/19/1990	8 753
12/14/2009	4 4816	4 48%	4 21%	10/29/1990	8 68%	10/22/1990	8 753
12/11/2009	4 5009	4 50%	4 20%	10/30/1990	8 68%	10/23/1990	8 799
12/10/2009	4 5058	4 51%	4 20%	10/31/1990	8 69%	10/24/1990	8 775
12/9/2009	4 4184	4 42%	4 20%	11/1/1990	8 69%	10/25/1990	8 753
12/8/2009	4 3739	4 37%	4 19%	11/2/1990	8 69%	10/26/1990	8 775
12/7/2009	4 3843	4 38%	4 19%	11/5/1990	8 69%	10/29/1990	8 838
12/4/2009	4 3947	4 39%	4 18%	11/6/1990	8 69%	10/30/1990	8 82
12/3/2009	4 3318	4 33%	4 18%	11/7/1990	8 69%	10/31/1990	8 759
12/2/2009	4 2515	4 25%	4 18%	11/8/1990	8 69%	11/1/1990	8 685
12/1/2009	4 2735	4 27%	4 17%	11/9/1990	8 69%	11/2/1990	8 689
11/30/2009	4 1917	4 19%	4 17%	11/12/1990	8 69%	11/5/1990	8 622
11/27/2009	4 1998	4 20%	4 17%	11/13/1990	8 69%	11/6/1990	8 635
11/26/2009	4 2352	4 24%	4 16%	11/14/1990	8 69%	11/7/1990	8 694
11/25/2009	4 2334	4 23%	4 16%	11/15/1990	8 69%	11/8/1990	8 71
11/24/2009	4 2462	4 25%	4 16%	11/16/1990	8 69%	11/9/1990	8 622
11/23/2009	4 2764	4 28%	4 15%	11/19/1990	8 69%	11/12/1990	8 549
11/20/2009	4 2948	4 29%	4 15%	11/20/1990	8 69%	11/13/1990	8 532
11/19/2009	4 2774	4 28%	4 15%	11/21/1990	8 69%	11/14/1990	8 515
11/18/2009	4 2976	4 30%	4 14%	11/22/1990	8 69%	11/15/1990	8 515
11/17/2009	4 2572	4 26%	4 14%	11/23/1990	8 69%	11/16/1990	8 45
11/16/2009	4 2737	4 27%	4 13%	11/26/1990	8 69%	11/19/1990	8 512
11/13/2009	4 3516	4 35%	4 13%	11/27/1990	8 69%	11/20/1990	8 461
11/12/2009	4 3909	4 39%	4 13%	11/28/1990	8 69%	11/21/1990	8 42
11/11/2009	4 4124	4 41%	4 12%	11/29/1990	8 69%	11/22/1990	8 425
11/10/2009	4 4124	4 41%	4 12%	11/30/1990	8 69%	11/23/1990	8 447
11/9/2009	4 3993	4 40%	4 12%	12/3/1990	8 69%	11/26/1990	8 429
11/6/2009	4 3974	4 40%	4 11%	12/4/1990	8 69%	11/27/1990	8 437
11/5/2009	4 3984	4 40%	4 11%	12/5/1990	8 69%	11/28/1990	8 443
11/4/2009	4 3993	4 40%	4 10%	12/6/1990	8 69%	11/29/1990	8 486
11/3/2009	4 3288	4 33%	4 10%	12/7/1990	8 68%	11/30/1990	8 486
11/2/2009	4 2604	4 26%	4 10%	12/10/1990	8 68%	12/3/1990	8 362
10/30/2009	4 2253	4 23%	4 09%	12/11/1990	8 68%	12/4/1990	8 321
10/29/2009	4 3353	4 34%	4 09%	12/12/1990	8 68%	12/5/1990	8 329
10/28/2009	4 2587	4 26%	4 08%	12/13/1990	8 67%	12/6/1990	8 333
10/27/2009	4 2759	4 28%	4 08%	12/14/1990	8 67%	12/7/1990	8 184
10/26/2009	4 3649	4 36%	4 07%	12/17/1990	8 67%	12/10/1990	8 131
10/23/2009	4 2923	4 29%	4 06%	12/18/1990	8 67%	12/11/1990	8 074
10/22/2009	4 2362	4 24%	4 06%	12/19/1990	8 66%	12/12/1990	8 062
10/21/2009	4 2075	4 21%	4 05%	12/20/1990	8 66%	12/13/1990	8 124
10/20/2009	4 1657	4 17%	4 04%	12/21/1990	8 66%	12/14/1990	8 188
10/19/2009	4 1995	4 20%	4 04%	12/24/1990	8 66%	12/17/1990	8 184
10/16/2009	4 2443	4 24%	4 03%	12/25/1990	8 66%	12/18/1990	8 086
10/15/2009	4 3024	4 30%	4 02%	12/26/1990	8 66%	12/19/1990	8 181
10/14/2009	4 2634	4 26%	4 02%	12/27/1990	8 66%	12/20/1990	8 232
10/13/2009	4 1996	4 20%	4 01%	12/28/1990	8 66%	12/21/1990	8 281
10/12/2009	4 2282	4 23%	4 01%	12/31/1990	8 66%	12/24/1990	8 361
10/9/2009	4 2229	4 22%	4 00%	1/3/1991	8 65%	12/25/1990	8 357
10/8/2009	4 088	4 09%	3 99%	1/4/1991	8 65%	12/26/1990	8 291
10/7/2009	4 0021	4 00%	3 99%	1/7/1991	8 65%	12/27/1990	8 244
10/6/2009	4 0664	4 07%	3 98%	1/8/1991	8 65%	12/28/1990	8 298
10/5/2009	4 0158	4 02%	3 97%	1/9/1991	8 65%	12/31/1990	8 249

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
10/2/2009	3 9962	4 00%	3 97%	1/10/1991	8 65%	1/3/1991	8 11
10/1/2009	3 9557	3 96%	3 96%	1/11/1991	8 65%	1/4/1991	8 207
9/30/2009	4 0501	4 05%	3 95%	1/14/1991	8 65%	1/7/1991	8 318
9/29/2009	4 0176	4 02%	3 95%	1/15/1991	8 65%	1/8/1991	8 373
9/28/2009	4 0322	4 03%	3 94%	1/16/1991	8 64%	1/9/1991	8 456
9/25/2009	4 09	4 09%	3 93%	1/17/1991	8 64%	1/10/1991	8 326
9/24/2009	4 1724	4 17%	3 92%	1/18/1991	8 64%	1/11/1991	8 358
9/23/2009	4 1973	4 20%	3 92%	1/21/1991	8 64%	1/14/1991	8 365
9/22/2009	4 1964	4 20%	3 91%	1/22/1991	8 64%	1/15/1991	8 394
9/21/2009	4 2348	4 23%	3 90%	1/23/1991	8 63%	1/16/1991	8 403
9/18/2009	4 2169	4 22%	3 89%	1/24/1991	8 63%	1/17/1991	8 196
9/17/2009	4 1655	4 17%	3 89%	1/25/1991	8 63%	1/18/1991	8 167
9/16/2009	4 2574	4 26%	3 88%	1/28/1991	8 62%	1/21/1991	8 206
9/15/2009	4 2656	4 27%	3 87%	1/29/1991	8 62%	1/22/1991	8 248
9/14/2009	4 2287	4 23%	3 87%	1/30/1991	8 62%	1/23/1991	8 199
9/11/2009	4 1797	4 18%	3 86%	1/31/1991	8 61%	1/24/1991	8 16
9/10/2009	4 1984	4 20%	3 86%	2/1/1991	8 61%	1/25/1991	8 227
9/9/2009	4 3285	4 33%	3 85%	2/4/1991	8 60%	1/28/1991	8 214
9/8/2009	4 3184	4 32%	3 85%	2/5/1991	8 60%	1/29/1991	8 203
9/7/2009	4 2693	4 27%	3 84%	2/6/1991	8 59%	1/30/1991	8 222
9/4/2009	4 2666	4 27%	3 83%	2/7/1991	8 59%	1/31/1991	8 195
9/3/2009	4 1604	4 16%	3 83%	2/8/1991	8 58%	2/1/1991	8 091
9/2/2009	4 1201	4 12%	3 82%	2/11/1991	8 58%	2/4/1991	8 046
9/1/2009	4 1923	4 19%	3 82%	2/12/1991	8 57%	2/5/1991	8 031
8/31/2009	4 1782	4 18%	3 82%	2/13/1991	8 57%	2/6/1991	8 007
8/28/2009	4 2004	4 20%	3 82%	2/14/1991	8 56%	2/7/1991	8 057
8/27/2009	4 2236	4 22%	3 81%	2/15/1991	8 56%	2/8/1991	7 958
8/26/2009	4 1951	4 20%	3 81%	2/18/1991	8 56%	2/11/1991	7 961
8/25/2009	4 2228	4 22%	3 81%	2/19/1991	8 55%	2/12/1991	7 958
8/24/2009	4 2659	4 27%	3 81%	2/20/1991	8 55%	2/13/1991	7 955
8/21/2009	4 3748	4 37%	3 80%	2/21/1991	8 55%	2/14/1991	7 989
8/20/2009	4 2426	4 24%	3 80%	2/22/1991	8 55%	2/15/1991	7 977
8/19/2009	4 2914	4 29%	3 80%	2/25/1991	8 54%	2/18/1991	7 954
8/18/2009	4 3527	4 35%	3 80%	2/26/1991	8 54%	2/19/1991	7 99
8/17/2009	4 3242	4 32%	3 80%	2/27/1991	8 54%	2/20/1991	8 04
8/14/2009	4 4206	4 42%	3 80%	2/28/1991	8 53%	2/21/1991	8 04
8/13/2009	4 4273	4 43%	3 80%	3/1/1991	8 53%	2/22/1991	8 061
8/12/2009	4 5373	4 54%	3 80%	3/4/1991	8 53%	2/25/1991	8 049
8/11/2009	4 436	4 44%	3 80%	3/5/1991	8 53%	2/26/1991	8 133
8/10/2009	4 5313	4 53%	3 80%	3/6/1991	8 53%	2/27/1991	8 143
8/7/2009	4 6045	4 60%	3 80%	3/7/1991	8 53%	2/28/1991	8 203
8/6/2009	4 5333	4 53%	3 79%	3/8/1991	8 52%	3/1/1991	8 288
8/5/2009	4 5492	4 55%	3 79%	3/11/1991	8 52%	3/4/1991	8 294
8/4/2009	4 4632	4 46%	3 79%	3/12/1991	8 52%	3/5/1991	8 242
8/3/2009	4 404	4 40%	3 79%	3/13/1991	8 52%	3/6/1991	8 279
7/31/2009	4 2983	4 30%	3 79%	3/14/1991	8 52%	3/7/1991	8 222
7/30/2009	4 4107	4 41%	3 79%	3/15/1991	8 52%	3/8/1991	8 31
7/29/2009	4 5074	4 51%	3 79%	3/18/1991	8 52%	3/11/1991	8 222
7/28/2009	4 5491	4 55%	3 79%	3/19/1991	8 52%	3/12/1991	8 267
7/27/2009	4 6256	4 63%	3 78%	3/20/1991	8 52%	3/13/1991	8 185
7/24/2009	4 5391	4 54%	3 78%	3/21/1991	8 52%	3/14/1991	8 201
7/23/2009	4 55	4 55%	3 78%	3/22/1991	8 52%	3/15/1991	8 288
7/22/2009	4 4465	4 45%	3 78%	3/25/1991	8 52%	3/18/1991	8 332
7/21/2009	4 3905	4 39%	3 78%	3/26/1991	8 52%	3/19/1991	8 403
7/20/2009	4 5142	4 51%	3 78%	3/27/1991	8 52%	3/20/1991	8 343
7/17/2009	4 535	4 54%	3 77%	3/28/1991	8 51%	3/21/1991	8 329
7/16/2009	4 4475	4 45%	3 77%	3/29/1991	8 51%	3/22/1991	8 308
7/15/2009	4 4886	4 49%	3 77%	4/1/1991	8 51%	3/25/1991	8 32
7/14/2009	4 3741	4 37%	3 77%	4/2/1991	8 51%	3/26/1991	8 305
7/13/2009	4 2321	4 23%	3 77%	4/3/1991	8 51%	3/27/1991	8 255
7/10/2009	4 1989	4 20%	3 77%	4/4/1991	8 51%	3/28/1991	8 236
7/9/2009	4 3002	4 30%	3 77%	4/5/1991	8 51%	3/29/1991	8 246
7/8/2009	4 1935	4 19%	3 76%	4/8/1991	8 50%	4/1/1991	8 257
7/7/2009	4 3086	4 31%	3 76%	4/9/1991	8 50%	4/2/1991	8 216
7/6/2009	4 3579	4 36%	3 76%	4/10/1991	8 50%	4/3/1991	8 242
7/3/2009	4 3209	4 32%	3 76%	4/11/1991	8 50%	4/4/1991	8 182
7/2/2009	4 3181	4 32%	3 76%	4/12/1991	8 50%	4/5/1991	8 166
7/1/2009	4 3285	4 33%	3 76%	4/15/1991	8 50%	4/8/1991	8 158
6/30/2009	4 3294	4 33%	3 76%	4/16/1991	8 50%	4/9/1991	8 204
6/29/2009	4 287	4 29%	3 76%	4/17/1991	8 49%	4/10/1991	8 262
6/26/2009	4 336	4 34%	3 76%	4/18/1991	8 49%	4/11/1991	8 255
6/25/2009	4 3341	4 33%	3 76%	4/19/1991	8 49%	4/12/1991	8 153
6/24/2009	4 427	4 43%	3 76%	4/22/1991	8 49%	4/15/1991	8 13
6/23/2009	4 3569	4 36%	3 76%	4/23/1991	8 49%	4/16/1991	8 117
6/22/2009	4 4376	4 44%	3 76%	4/24/1991	8 49%	4/17/1991	8 106

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
6/19/2009	4 5041	4 50%	3 76%	4/25/1991	8 49%	4/18/1991	8 181
6/18/2009	4 6038	4 60%	3 76%	4/26/1991	8 48%	4/19/1991	8 245
6/17/2009	4 51	4 51%	3 76%	4/29/1991	8 48%	4/22/1991	8 295
6/16/2009	4 4727	4 47%	3 76%	4/30/1991	8 48%	4/23/1991	8 271
6/15/2009	4 5606	4 56%	3 75%	5/1/1991	8 48%	4/24/1991	8 215
6/12/2009	4 6443	4 64%	3 75%	5/2/1991	8 48%	4/25/1991	8 239
6/11/2009	4 6965	4 70%	3 75%	5/3/1991	8 48%	4/26/1991	8 211
6/10/2009	4 762	4 76%	3 75%	5/6/1991	8 47%	4/29/1991	8 229
6/9/2009	4 6524	4 65%	3 75%	5/7/1991	8 47%	4/30/1991	8 182
6/8/2009	4 6138	4 61%	3 74%	5/8/1991	8 47%	5/1/1991	8 17
6/5/2009	4 6331	4 63%	3 74%	5/9/1991	8 47%	5/2/1991	8 122
6/4/2009	4 5785	4 58%	3 74%	5/10/1991	8 47%	5/3/1991	8 227
6/3/2009	4 4453	4 45%	3 74%	5/13/1991	8 47%	5/6/1991	8 215
6/2/2009	4 4824	4 48%	3 74%	5/14/1991	8 47%	5/7/1991	8 245
6/1/2009	4 5337	4 53%	3 74%	5/15/1991	8 46%	5/8/1991	8 229
5/29/2009	4 3361	4 34%	3 74%	5/16/1991	8 46%	5/9/1991	8 214
5/28/2009	4 4873	4 49%	3 74%	5/17/1991	8 46%	5/10/1991	8 306
5/27/2009	4 6319	4 63%	3 74%	5/20/1991	8 46%	5/13/1991	8 263
5/26/2009	4 4912	4 49%	3 74%	5/21/1991	8 45%	5/14/1991	8 339
5/25/2009	4 3836	4 38%	3 74%	5/22/1991	8 45%	5/15/1991	8 334
5/22/2009	4 3836	4 38%	3 74%	5/23/1991	8 45%	5/16/1991	8 336
5/21/2009	4 3125	4 31%	3 74%	5/24/1991	8 45%	5/17/1991	8 279
5/20/2009	4 1438	4 14%	3 74%	5/27/1991	8 44%	5/20/1991	8 281
5/19/2009	4 2085	4 21%	3 74%	5/28/1991	8 44%	5/21/1991	8 251
5/18/2009	4 1984	4 20%	3 74%	5/29/1991	8 44%	5/22/1991	8 276
5/15/2009	4 0838	4 08%	3 74%	5/30/1991	8 43%	5/23/1991	8 306
5/14/2009	4 0483	4 05%	3 75%	5/31/1991	8 43%	5/24/1991	8 306
5/13/2009	4 099	4 10%	3 75%	6/3/1991	8 42%	5/27/1991	8 297
5/12/2009	4 1593	4 16%	3 75%	6/4/1991	8 42%	5/28/1991	8 281
5/11/2009	4 1847	4 18%	3 75%	6/5/1991	8 42%	5/29/1991	8 281
5/8/2009	4 2676	4 27%	3 76%	6/6/1991	8 42%	5/30/1991	8 22
5/7/2009	4 3057	4 31%	3 76%	6/7/1991	8 41%	5/31/1991	8 265
5/6/2009	4 0949	4 09%	3 76%	6/10/1991	8 41%	6/3/1991	8 34
5/5/2009	4 0655	4 07%	3 76%	6/11/1991	8 41%	6/4/1991	8 339
5/4/2009	4 048	4 05%	3 77%	6/12/1991	8 41%	6/5/1991	8 393
5/1/2009	4 0703	4 07%	3 77%	6/13/1991	8 40%	6/6/1991	8 393
4/30/2009	4 0324	4 03%	3 77%	6/14/1991	8 40%	6/7/1991	8 476
4/29/2009	4 0275	4 03%	3 77%	6/17/1991	8 40%	6/10/1991	8 477
4/28/2009	3 9537	3 95%	3 78%	6/18/1991	8 40%	6/11/1991	8 476
4/27/2009	3 8294	3 83%	3 78%	6/19/1991	8 39%	6/12/1991	8 548
4/24/2009	3 8813	3 88%	3 78%	6/20/1991	8 39%	6/13/1991	8 514
4/23/2009	3 7918	3 79%	3 79%	6/21/1991	8 39%	6/14/1991	8 47
4/22/2009	3 8036	3 80%	3 79%	6/24/1991	8 39%	6/17/1991	8 498
4/21/2009	3 7392	3 74%	3 80%	6/25/1991	8 38%	6/18/1991	8 517
4/20/2009	3 6891	3 69%	3 80%	6/26/1991	8 38%	6/19/1991	8 507
4/17/2009	3 7981	3 80%	3 81%	6/27/1991	8 38%	6/20/1991	8 465
4/16/2009	3 714	3 71%	3 81%	6/28/1991	8 38%	6/21/1991	8 51
4/15/2009	3 6625	3 66%	3 81%	7/1/1991	8 37%	6/24/1991	8 508
4/14/2009	3 6545	3 65%	3 82%	7/2/1991	8 37%	6/25/1991	8 511
4/13/2009	3 7104	3 71%	3 82%	7/3/1991	8 36%	6/26/1991	8 514
4/10/2009	3 7499	3 75%	3 82%	7/4/1991	8 36%	6/27/1991	8 484
4/9/2009	3 7517	3 75%	3 83%	7/5/1991	8 36%	6/28/1991	8 406
4/8/2009	3 6686	3 67%	3 83%	7/8/1991	8 36%	7/1/1991	8 434
4/7/2009	3 7139	3 71%	3 84%	7/9/1991	8 35%	7/2/1991	8 437
4/6/2009	3 7247	3 72%	3 84%	7/10/1991	8 35%	7/3/1991	8 414
4/3/2009	3 6899	3 69%	3 84%	7/11/1991	8 35%	7/4/1991	8 425
4/2/2009	3 5968	3 60%	3 85%	7/12/1991	8 35%	7/5/1991	8 495
4/1/2009	3 5015	3 50%	3 85%	7/15/1991	8 35%	7/8/1991	8 499
3/31/2009	3 5339	3 53%	3 86%	7/16/1991	8 35%	7/9/1991	8 531
3/30/2009	3 5985	3 60%	3 86%	7/17/1991	8 34%	7/10/1991	8 513
3/27/2009	3 6124	3 61%	3 87%	7/18/1991	8 34%	7/11/1991	8 466
3/26/2009	3 6518	3 65%	3 87%	7/19/1991	8 34%	7/12/1991	8 442
3/25/2009	3 7407	3 74%	3 88%	7/22/1991	8 33%	7/15/1991	8 457
3/24/2009	3 6386	3 64%	3 89%	7/23/1991	8 33%	7/16/1991	8 453
3/23/2009	3 6915	3 69%	3 89%	7/24/1991	8 33%	7/17/1991	8 501
3/20/2009	3 6606	3 66%	3 90%	7/25/1991	8 33%	7/18/1991	8 474
3/19/2009	3 629	3 63%	3 90%	7/26/1991	8 33%	7/19/1991	8 474
3/18/2009	3 5322	3 53%	3 91%	7/29/1991	8 32%	7/22/1991	8 469
3/17/2009	3 8251	3 83%	3 91%	7/30/1991	8 32%	7/23/1991	8 491
3/16/2009	3 7577	3 76%	3 92%	7/31/1991	8 32%	7/24/1991	8 416
3/13/2009	3 6729	3 67%	3 92%	8/1/1991	8 32%	7/25/1991	8 379
3/12/2009	3 6106	3 61%	3 93%	8/2/1991	8 31%	7/26/1991	8 388
3/11/2009	3 6614	3 66%	3 93%	8/5/1991	8 31%	7/29/1991	8 395
3/10/2009	3 7253	3 73%	3 94%	8/6/1991	8 31%	7/30/1991	8 379
3/9/2009	3 5665	3 57%	3 94%	8/7/1991	8 31%	7/31/1991	8 341

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
3/6/2009	3 5536	3 55%	3 95%	8/8/1991	8 30%	8/1/1991	8 358
3/5/2009	3 4881	3 49%	3 95%	8/9/1991	8 30%	8/2/1991	8 244
3/4/2009	3 6667	3 67%	3 96%	8/12/1991	8 30%	8/5/1991	8 226
3/3/2009	3 601	3 60%	3 97%	8/13/1991	8 30%	8/6/1991	8 176
3/2/2009	3 6106	3 61%	3 97%	8/14/1991	8 29%	8/7/1991	8 18
2/27/2009	3 7083	3 71%	3 98%	8/15/1991	8 29%	8/8/1991	8 227
2/26/2009	3 6746	3 67%	3 98%	8/16/1991	8 29%	8/9/1991	8 22
2/25/2009	3 5872	3 59%	3 98%	8/19/1991	8 28%	8/12/1991	8 212
2/24/2009	3 4924	3 49%	3 99%	8/20/1991	8 28%	8/13/1991	8 169
2/23/2009	3 5067	3 51%	4 00%	8/21/1991	8 28%	8/14/1991	8 062
2/20/2009	3 5673	3 57%	4 00%	8/22/1991	8 28%	8/15/1991	8 088
2/19/2009	3 6701	3 67%	4 01%	8/23/1991	8 28%	8/16/1991	8 088
2/18/2009	3 5468	3 55%	4 01%	8/26/1991	8 27%	8/19/1991	8 111
2/17/2009	3 4797	3 48%	4 01%	8/27/1991	8 27%	8/20/1991	8 088
2/16/2009	3 671	3 67%	4 02%	8/28/1991	8 27%	8/21/1991	8 061
2/13/2009	3 6728	3 67%	4 03%	8/29/1991	8 27%	8/22/1991	8 049
2/12/2009	3 5196	3 52%	4 03%	8/30/1991	8 27%	8/23/1991	8 125
2/11/2009	3 4443	3 44%	4 03%	9/2/1991	8 26%	8/26/1991	8 152
2/10/2009	3 4875	3 49%	4 04%	9/3/1991	8 26%	8/27/1991	8 152
2/9/2009	3 6452	3 65%	4 05%	9/4/1991	8 26%	8/28/1991	8 061
2/6/2009	3 6961	3 70%	4 05%	9/5/1991	8 26%	8/29/1991	8 005
2/5/2009	3 6477	3 65%	4 06%	9/6/1991	8 26%	8/30/1991	8 06
2/4/2009	3 6811	3 68%	4 06%	9/9/1991	8 25%	9/2/1991	8 051
2/3/2009	3 6771	3 68%	4 06%	9/10/1991	8 25%	9/3/1991	8 042
2/2/2009	3 4743	3 47%	4 07%	9/11/1991	8 25%	9/4/1991	8 06
1/30/2009	3 603	3 60%	4 07%	9/12/1991	8 25%	9/5/1991	8 094
1/29/2009	3 6063	3 61%	4 08%	9/13/1991	8 25%	9/6/1991	8 015
1/28/2009	3 4232	3 42%	4 08%	9/16/1991	8 25%	9/9/1991	7 994
1/27/2009	3 2435	3 24%	4 09%	9/17/1991	8 24%	9/10/1991	8 006
1/26/2009	3 3771	3 38%	4 10%	9/18/1991	8 24%	9/11/1991	8 017
1/23/2009	3 3212	3 32%	4 10%	9/19/1991	8 24%	9/12/1991	7 923
1/22/2009	3 2575	3 26%	4 11%	9/20/1991	8 24%	9/13/1991	7 94
1/21/2009	3 1579	3 16%	4 11%	9/23/1991	8 24%	9/16/1991	7 93
1/20/2009	2 9804	2 98%	4 12%	9/24/1991	8 24%	9/17/1991	7 911
1/19/2009	2 8747	2 87%	4 13%	9/25/1991	8 24%	9/18/1991	7 919
1/16/2009	2 8747	2 87%	4 14%	9/26/1991	8 24%	9/19/1991	7 913
1/15/2009	2 8672	2 87%	4 14%	9/27/1991	8 23%	9/20/1991	7 892
1/14/2009	2 8863	2 89%	4 15%	9/30/1991	8 23%	9/23/1991	7 873
1/13/2009	3 0026	3 00%	4 16%	10/1/1991	8 23%	9/24/1991	7 882
1/12/2009	2 9898	2 99%	4 16%	10/2/1991	8 23%	9/25/1991	7 903
1/9/2009	3 06	3 06%	4 17%	10/3/1991	8 22%	9/26/1991	7 88
1/8/2009	3 0458	3 05%	4 18%	10/4/1991	8 22%	9/27/1991	7 821
1/7/2009	3 0363	3 04%	4 18%	10/7/1991	8 22%	9/30/1991	7 809
1/6/2009	2 995	3 00%	4 19%	10/8/1991	8 22%	10/1/1991	7 799
1/5/2009	3 0283	3 03%	4 20%	10/9/1991	8 22%	10/2/1991	7 828
1/2/2009	2 7948	2 79%	4 20%	10/10/1991	8 21%	10/3/1991	7 841
1/1/2009	2 6756	2 68%	4 21%	10/11/1991	8 21%	10/4/1991	7 783
12/31/2008	2 6758	2 68%	4 22%	10/14/1991	8 21%	10/7/1991	7 791
12/30/2008	2 5548	2 55%	4 23%	10/15/1991	8 21%	10/8/1991	7 824
12/29/2008	2 632	2 63%	4 24%	10/16/1991	8 20%	10/9/1991	7 912
12/26/2008	2 6056	2 61%	4 25%	10/17/1991	8 20%	10/10/1991	7 964
12/25/2008	2 6315	2 63%	4 25%	10/18/1991	8 20%	10/11/1991	7 867
12/24/2008	2 6318	2 63%	4 26%	10/21/1991	8 20%	10/14/1991	7 873
12/23/2008	2 6375	2 64%	4 27%	10/22/1991	8 20%	10/15/1991	7 857
12/22/2008	2 6166	2 62%	4 28%	10/23/1991	8 20%	10/16/1991	7 881
12/19/2008	2 5502	2 55%	4 29%	10/24/1991	8 20%	10/17/1991	8 023
12/18/2008	2 521	2 52%	4 30%	10/25/1991	8 20%	10/18/1991	7 955
12/17/2008	2 6505	2 65%	4 30%	10/28/1991	8 19%	10/21/1991	8 071
12/16/2008	2 7352	2 74%	4 31%	10/29/1991	8 19%	10/22/1991	8 1
12/15/2008	2 955	2 96%	4 32%	10/30/1991	8 19%	10/23/1991	8 075
12/12/2008	3 0436	3 04%	4 33%	10/31/1991	8 19%	10/24/1991	8 032
12/11/2008	3 0609	3 06%	4 34%	11/1/1991	8 19%	10/25/1991	8 046
12/10/2008	3 0857	3 09%	4 34%	11/4/1991	8 19%	10/28/1991	8 028
12/9/2008	3 0412	3 04%	4 35%	11/5/1991	8 19%	10/29/1991	7 894
12/8/2008	3 1504	3 15%	4 36%	11/6/1991	8 19%	10/30/1991	7 901
12/5/2008	3 1254	3 13%	4 37%	11/7/1991	8 18%	10/31/1991	7 914
12/4/2008	3 0409	3 04%	4 37%	11/8/1991	8 18%	11/1/1991	7 93
12/3/2008	3 162	3 16%	4 38%	11/11/1991	8 18%	11/4/1991	7 952
12/2/2008	3 174	3 17%	4 39%	11/12/1991	8 18%	11/5/1991	8 025
12/1/2008	3 2136	3 21%	4 39%	11/13/1991	8 18%	11/6/1991	7 998
11/28/2008	3 4369	3 44%	4 40%	11/14/1991	8 18%	11/7/1991	7 922
11/27/2008	3 5225	3 52%	4 41%	11/15/1991	8 18%	11/8/1991	7 872
11/26/2008	3 5226	3 52%	4 41%	11/18/1991	8 18%	11/11/1991	7 866
11/25/2008	3 6194	3 62%	4 42%	11/19/1991	8 18%	11/12/1991	7 788
11/24/2008	3 7805	3 78%	4 42%	11/20/1991	8 18%	11/13/1991	7 862

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
11/21/2008	3 6937	3 69%	4 43%	11/21/1991	8 18%	11/14/1991	7 817
11/20/2008	3 4857	3 49%	4 43%	11/22/1991	8 18%	11/15/1991	7 821
11/19/2008	3 9053	3 91%	4 44%	11/25/1991	8 18%	11/18/1991	7 848
11/18/2008	4 1138	4 11%	4 44%	11/26/1991	8 18%	11/19/1991	7 922
11/17/2008	4 1919	4 19%	4 44%	11/27/1991	8 18%	11/20/1991	7 902
11/14/2008	4 2279	4 23%	4 44%	11/28/1991	8 18%	11/21/1991	7 976
11/13/2008	4 3562	4 36%	4 45%	11/29/1991	8 18%	11/22/1991	7 981
11/12/2008	4 1687	4 17%	4 45%	12/2/1991	8 18%	11/25/1991	7 986
11/11/2008	4 192	4 19%	4 45%	12/3/1991	8 17%	11/26/1991	7 948
11/10/2008	4 192	4 19%	4 45%	12/4/1991	8 17%	11/27/1991	7 966
11/7/2008	4 2733	4 27%	4 45%	12/5/1991	8 17%	11/28/1991	7 968
11/6/2008	4 1983	4 20%	4 45%	12/6/1991	8 17%	11/29/1991	7 942
11/5/2008	4 175	4 18%	4 45%	12/9/1991	8 17%	12/2/1991	7 906
11/4/2008	4 192	4 19%	4 45%	12/10/1991	8 16%	12/3/1991	7 901
11/3/2008	4 3219	4 32%	4 45%	12/11/1991	8 16%	12/4/1991	7 849
10/31/2008	4 3664	4 37%	4 45%	12/12/1991	8 16%	12/5/1991	7 841
10/30/2008	4 3302	4 33%	4 45%	12/13/1991	8 16%	12/6/1991	7 806
10/29/2008	4 237	4 24%	4 45%	12/16/1991	8 15%	12/9/1991	7 789
10/28/2008	4 1912	4 19%	4 45%	12/17/1991	8 15%	12/10/1991	7 787
10/27/2008	4 0453	4 05%	4 45%	12/18/1991	8 15%	12/11/1991	7 807
10/24/2008	4 0687	4 07%	4 45%	12/19/1991	8 15%	12/12/1991	7 753
10/23/2008	4 0496	4 05%	4 45%	12/20/1991	8 14%	12/13/1991	7 774
10/22/2008	4 0548	4 05%	4 46%	12/23/1991	8 14%	12/16/1991	7 753
10/21/2008	4 2163	4 22%	4 46%	12/24/1991	8 13%	12/17/1991	7 753
10/20/2008	4 2552	4 26%	4 46%	12/25/1991	8 13%	12/18/1991	7 758
10/17/2008	4 3229	4 32%	4 46%	12/26/1991	8 13%	12/19/1991	7 655
10/16/2008	4 2561	4 26%	4 46%	12/27/1991	8 12%	12/20/1991	7 589
10/15/2008	4 1913	4 19%	4 46%	12/30/1991	8 12%	12/23/1991	7 527
10/14/2008	4 2761	4 28%	4 46%	12/31/1991	8 11%	12/24/1991	7 523
10/13/2008	4 1362	4 14%	4 46%	1/2/1992	8 11%	12/25/1991	7 524
10/10/2008	4 1363	4 14%	4 46%	1/3/1992	8 10%	12/26/1991	7 508
10/9/2008	4 102	4 10%	4 46%	1/6/1992	8 10%	12/27/1991	7 513
10/8/2008	4 0482	4 05%	4 46%	1/7/1992	8 10%	12/30/1991	7 44
10/7/2008	4 0301	4 03%	4 46%	1/8/1992	8 09%	12/31/1991	7 401
10/6/2008	3 972	3 97%	4 47%	1/9/1992	8 09%	1/2/1992	7 465
10/3/2008	4 0872	4 09%	4 47%	1/10/1992	8 08%	1/3/1992	7 48
10/2/2008	4 1514	4 15%	4 47%	1/13/1992	8 08%	1/6/1992	7 434
10/1/2008	4 2147	4 21%	4 47%	1/14/1992	8 08%	1/7/1992	7 397
9/30/2008	4 311	4 31%	4 47%	1/15/1992	8 07%	1/8/1992	7 388
9/29/2008	4 1127	4 11%	4 48%	1/16/1992	8 07%	1/9/1992	7 412
9/26/2008	4 3702	4 37%	4 48%	1/17/1992	8 07%	1/10/1992	7 462
9/25/2008	4 4095	4 41%	4 48%	1/20/1992	8 07%	1/13/1992	7 522
9/24/2008	4 4123	4 41%	4 48%	1/21/1992	8 06%	1/14/1992	7 54
9/23/2008	4 3805	4 38%	4 48%	1/22/1992	8 06%	1/15/1992	7 576
9/22/2008	4 4208	4 42%	4 48%	1/23/1992	8 06%	1/16/1992	7 67
9/19/2008	4 3823	4 38%	4 48%	1/24/1992	8 06%	1/17/1992	7 614
9/18/2008	4 1889	4 19%	4 48%	1/27/1992	8 05%	1/20/1992	7 592
9/17/2008	4 0736	4 07%	4 49%	1/28/1992	8 05%	1/21/1992	7 573
9/16/2008	4 091	4 09%	4 49%	1/29/1992	8 05%	1/22/1992	7 627
9/15/2008	4 0227	4 02%	4 49%	1/30/1992	8 05%	1/23/1992	7 724
9/12/2008	4 3147	4 31%	4 49%	1/31/1992	8 04%	1/24/1992	7 708
9/11/2008	4 2212	4 22%	4 49%	2/3/1992	8 04%	1/27/1992	7 718
9/10/2008	4 2257	4 23%	4 50%	2/4/1992	8 04%	1/28/1992	7 667
9/9/2008	4 1703	4 17%	4 50%	2/5/1992	8 04%	1/29/1992	7 752
9/8/2008	4 2664	4 27%	4 50%	2/6/1992	8 04%	1/30/1992	7 788
9/5/2008	4 3019	4 30%	4 50%	2/7/1992	8 03%	1/31/1992	7 758
9/4/2008	4 2592	4 26%	4 50%	2/10/1992	8 03%	2/3/1992	7 818
9/3/2008	4 3185	4 32%	4 50%	2/11/1992	8 03%	2/4/1992	7 744
9/2/2008	4 3554	4 36%	4 50%	2/12/1992	8 03%	2/5/1992	7 731
9/1/2008	4 4227	4 42%	4 50%	2/13/1992	8 02%	2/6/1992	7 768
8/29/2008	4 4227	4 42%	4 50%	2/14/1992	8 02%	2/7/1992	7 76
8/28/2008	4 3759	4 38%	4 50%	2/17/1992	8 02%	2/10/1992	7 787
8/27/2008	4 3815	4 38%	4 50%	2/18/1992	8 02%	2/11/1992	7 786
8/26/2008	4 3871	4 39%	4 50%	2/19/1992	8 02%	2/12/1992	7 813
8/25/2008	4 3936	4 39%	4 50%	2/20/1992	8 02%	2/13/1992	7 912
8/22/2008	4 4662	4 47%	4 50%	2/21/1992	8 01%	2/14/1992	7 906
8/21/2008	4 4624	4 46%	4 50%	2/24/1992	8 01%	2/17/1992	7 982
8/20/2008	4 4453	4 45%	4 50%	2/25/1992	8 01%	2/18/1992	7 98
8/19/2008	4 4615	4 46%	4 50%	2/26/1992	8 01%	2/19/1992	7 912
8/18/2008	4 434	4 43%	4 50%	2/27/1992	8 01%	2/20/1992	7 91
8/15/2008	4 4634	4 46%	4 50%	2/28/1992	8 00%	2/21/1992	7 945
8/14/2008	4 5169	4 52%	4 50%	3/2/1992	8 00%	2/24/1992	7 967
8/13/2008	4 5594	4 56%	4 50%	3/3/1992	8 00%	2/25/1992	7 948
8/12/2008	4 5333	4 53%	4 50%	3/4/1992	8 00%	2/26/1992	7 846
8/11/2008	4 6024	4 60%	4 50%	3/5/1992	8 00%	2/27/1992	7 849

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
8/8/2008	4 5333	4 53%	4 51%	3/6/1992	7 99%	2/28/1992	7 789
8/7/2008	4 555	4 56%	4 51%	3/9/1992	7 99%	3/2/1992	7 898
8/6/2008	4 6925	4 69%	4 51%	3/10/1992	7 99%	3/3/1992	7 919
8/5/2008	4 6408	4 64%	4 51%	3/11/1992	7 99%	3/4/1992	7 908
8/4/2008	4 5896	4 59%	4 51%	3/12/1992	7 99%	3/5/1992	7 963
8/1/2008	4 5608	4 56%	4 51%	3/13/1992	7 98%	3/6/1992	7 932
7/31/2008	4 5727	4 57%	4 51%	3/16/1992	7 98%	3/9/1992	7 872
7/30/2008	4 6447	4 64%	4 51%	3/17/1992	7 98%	3/10/1992	7 902
7/29/2008	4 6235	4 62%	4 51%	3/18/1992	7 98%	3/11/1992	7 959
7/28/2008	4 6015	4 60%	4 51%	3/19/1992	7 97%	3/12/1992	8 035
7/25/2008	4 6852	4 69%	4 51%	3/20/1992	7 97%	3/13/1992	8 066
7/24/2008	4 6014	4 60%	4 51%	3/23/1992	7 97%	3/16/1992	8 069
7/23/2008	4 6739	4 67%	4 51%	3/24/1992	7 97%	3/17/1992	8 007
7/22/2008	4 6587	4 66%	4 51%	3/25/1992	7 96%	3/18/1992	8 01
7/21/2008	4 6214	4 62%	4 51%	3/26/1992	7 96%	3/19/1992	7 969
7/18/2008	4 6475	4 65%	4 51%	3/27/1992	7 96%	3/20/1992	8 046
7/17/2008	4 6073	4 61%	4 51%	3/30/1992	7 96%	3/23/1992	8 031
7/16/2008	4 5853	4 59%	4 51%	3/31/1992	7 95%	3/24/1992	7 945
7/15/2008	4 458	4 46%	4 52%	4/1/1992	7 95%	3/25/1992	7 944
7/14/2008	4 4464	4 45%	4 52%	4/2/1992	7 95%	3/26/1992	7 999
7/11/2008	4 5398	4 54%	4 52%	4/3/1992	7 94%	3/27/1992	7 94
7/10/2008	4 4138	4 41%	4 52%	4/6/1992	7 94%	3/30/1992	7 94
7/9/2008	4 4176	4 42%	4 52%	4/7/1992	7 94%	3/31/1992	7 958
7/8/2008	4 4502	4 45%	4 53%	4/8/1992	7 94%	4/1/1992	7 896
7/7/2008	4 484	4 48%	4 53%	4/9/1992	7 93%	4/2/1992	7 903
7/4/2008	4 5328	4 53%	4 53%	4/10/1992	7 93%	4/3/1992	7 876
7/3/2008	4 5348	4 53%	4 53%	4/13/1992	7 93%	4/6/1992	7 895
7/2/2008	4 5025	4 50%	4 53%	4/14/1992	7 92%	4/7/1992	7 886
7/1/2008	4 5485	4 55%	4 53%	4/15/1992	7 92%	4/8/1992	7 914
6/30/2008	4 5239	4 52%	4 54%	4/16/1992	7 92%	4/9/1992	7 864
6/27/2008	4 521	4 52%	4 54%	4/17/1992	7 92%	4/10/1992	7 886
6/26/2008	4 601	4 60%	4 54%	4/20/1992	7 91%	4/13/1992	7 859
6/25/2008	4 643	4 64%	4 54%	4/21/1992	7 91%	4/14/1992	7 868
6/24/2008	4 636	4 64%	4 54%	4/22/1992	7 91%	4/15/1992	7 872
6/23/2008	4 7008	4 70%	4 54%	4/23/1992	7 91%	4/16/1992	7 932
6/20/2008	4 7243	4 72%	4 54%	4/24/1992	7 90%	4/17/1992	7 938
6/19/2008	4 7582	4 76%	4 54%	4/27/1992	7 90%	4/20/1992	8 029
6/18/2008	4 713	4 71%	4 54%	4/28/1992	7 90%	4/21/1992	8 022
6/17/2008	4 7675	4 77%	4 54%	4/29/1992	7 90%	4/22/1992	8 037
6/16/2008	4 7914	4 79%	4 54%	4/30/1992	7 90%	4/23/1992	8 053
6/13/2008	4 7893	4 79%	4 54%	5/1/1992	7 90%	4/24/1992	8 042
6/12/2008	4 7571	4 76%	4 54%	5/4/1992	7 89%	4/27/1992	8 105
6/11/2008	4 6945	4 69%	4 54%	5/5/1992	7 89%	4/28/1992	8 049
6/10/2008	4 6985	4 70%	4 54%	5/6/1992	7 89%	4/29/1992	8 063
6/9/2008	4 6297	4 63%	4 54%	5/7/1992	7 89%	4/30/1992	8 036
6/6/2008	4 6237	4 62%	4 54%	5/8/1992	7 89%	5/1/1992	8 013
6/5/2008	4 7363	4 74%	4 54%	5/11/1992	7 88%	5/4/1992	8 027
6/4/2008	4 6984	4 70%	4 54%	5/12/1992	7 88%	5/5/1992	7 999
6/3/2008	4 6206	4 62%	4 54%	5/14/1992	7 88%	5/6/1992	7 963
6/2/2008	4 67	4 67%	4 55%	5/15/1992	7 88%	5/7/1992	7 973
5/30/2008	4 7147	4 71%	4 55%	5/18/1992	7 88%	5/8/1992	7 895
5/29/2008	4 7475	4 75%	4 55%	5/19/1992	7 87%	5/11/1992	7 888
5/28/2008	4 6881	4 69%	4 55%	5/20/1992	7 87%	5/12/1992	7 862
5/27/2008	4 6406	4 64%	4 55%	5/21/1992	7 87%	5/14/1992	7 868
5/26/2008	4 5728	4 57%	4 55%	5/22/1992	7 87%	5/15/1992	7 819
5/23/2008	4 5678	4 57%	4 55%	5/25/1992	7 87%	5/18/1992	7 819
5/22/2008	4 6205	4 62%	4 55%	5/26/1992	7 87%	5/19/1992	7 768
5/21/2008	4 5392	4 54%	4 56%	5/27/1992	7 87%	5/20/1992	7 811
5/20/2008	4 5294	4 53%	4 56%	5/28/1992	7 87%	5/21/1992	7 865
5/19/2008	4 5717	4 57%	4 56%	5/29/1992	7 87%	5/22/1992	7 822
5/16/2008	4 5737	4 57%	4 56%	6/1/1992	7 86%	5/25/1992	7 811
5/15/2008	4 551	4 55%	4 57%	6/2/1992	7 86%	5/26/1992	7 914
5/14/2008	4 6134	4 61%	4 57%	6/3/1992	7 86%	5/27/1992	7 903
5/13/2008	4 6384	4 64%	4 57%	6/4/1992	7 86%	5/28/1992	7 859
5/12/2008	4 5343	4 53%	4 57%	6/5/1992	7 86%	5/29/1992	7 837
5/9/2008	4 5216	4 52%	4 57%	6/8/1992	7 86%	6/1/1992	7 889
5/8/2008	4 5421	4 54%	4 58%	6/9/1992	7 86%	6/2/1992	7 86
5/7/2008	4 6054	4 61%	4 58%	6/10/1992	7 86%	6/3/1992	7 872
5/6/2008	4 6625	4 66%	4 58%	6/11/1992	7 86%	6/4/1992	7 878
5/5/2008	4 6014	4 60%	4 58%	6/12/1992	7 85%	6/5/1992	7 847
5/2/2008	4 5775	4 58%	4 58%	6/15/1992	7 85%	6/8/1992	7 84
5/1/2008	4 4991	4 50%	4 58%	6/16/1992	7 85%	6/9/1992	7 878
4/30/2008	4 4672	4 47%	4 59%	6/17/1992	7 85%	6/10/1992	7 899
4/29/2008	4 5509	4 55%	4 59%	6/18/1992	7 85%	6/11/1992	7 876
4/28/2008	4 5597	4 56%	4 59%	6/19/1992	7 85%	6/12/1992	7 858

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
4/25/2008	4 5914	4 59%	4 59%	6/22/1992	7 85%	6/15/1992	7 851
4/24/2008	4 5459	4 55%	4 60%	6/23/1992	7 85%	6/16/1992	7 832
4/23/2008	4 4913	4 49%	4 60%	6/24/1992	7 85%	6/17/1992	7 82
4/22/2008	4 4441	4 44%	4 60%	6/25/1992	7 85%	6/18/1992	7 801
4/21/2008	4 4884	4 49%	4 60%	6/26/1992	7 85%	6/19/1992	7 83
4/18/2008	4 4961	4 50%	4 61%	6/29/1992	7 85%	6/22/1992	7 838
4/17/2008	4 5263	4 53%	4 61%	6/30/1992	7 85%	6/23/1992	7 844
4/16/2008	4 4932	4 49%	4 61%	7/1/1992	7 85%	6/24/1992	7 825
4/15/2008	4 4412	4 44%	4 62%	7/2/1992	7 84%	6/25/1992	7 773
4/14/2008	4 3493	4 35%	4 62%	7/3/1992	7 84%	6/26/1992	7 782
4/11/2008	4 299	4 30%	4 63%	7/6/1992	7 84%	6/29/1992	7 766
4/10/2008	4 3484	4 35%	4 63%	7/7/1992	7 84%	6/30/1992	7 78
4/9/2008	4 3204	4 32%	4 64%	7/8/1992	7 84%	7/1/1992	7 742
4/8/2008	4 3794	4 38%	4 64%	7/9/1992	7 84%	7/2/1992	7 628
4/7/2008	4 3447	4 34%	4 64%	7/10/1992	7 84%	7/3/1992	7 629
4/4/2008	4 3055	4 31%	4 65%	7/13/1992	7 84%	7/6/1992	7 623
4/3/2008	4 3785	4 38%	4 65%	7/14/1992	7 84%	7/7/1992	7 601
4/2/2008	4 405	4 41%	4 66%	7/15/1992	7 84%	7/8/1992	7 607
4/1/2008	4 3993	4 40%	4 66%	7/16/1992	7 83%	7/9/1992	7 596
3/31/2008	4 2917	4 29%	4 66%	7/17/1992	7 83%	7/10/1992	7 633
3/28/2008	4 3177	4 32%	4 67%	7/20/1992	7 83%	7/13/1992	7 677
3/27/2008	4 3898	4 39%	4 67%	7/21/1992	7 83%	7/14/1992	7 684
3/26/2008	4 3065	4 31%	4 68%	7/22/1992	7 83%	7/15/1992	7 624
3/25/2008	4 3028	4 30%	4 68%	7/23/1992	7 83%	7/16/1992	7 61
3/24/2008	4 3644	4 36%	4 69%	7/24/1992	7 83%	7/17/1992	7 678
3/21/2008	4 1599	4 16%	4 69%	7/27/1992	7 82%	7/20/1992	7 661
3/20/2008	4 1599	4 16%	4 70%	7/28/1992	7 82%	7/21/1992	7 66
3/19/2008	4 2104	4 21%	4 70%	7/29/1992	7 82%	7/22/1992	7 616
3/18/2008	4 3485	4 35%	4 71%	7/30/1992	7 81%	7/23/1992	7 537
3/17/2008	4 2854	4 29%	4 71%	7/31/1992	7 81%	7/24/1992	7 572
3/14/2008	4 3635	4 36%	4 72%	8/3/1992	7 81%	7/27/1992	7 519
3/13/2008	4 447	4 45%	4 72%	8/4/1992	7 81%	7/28/1992	7 433
3/12/2008	4 4098	4 41%	4 73%	8/5/1992	7 80%	7/29/1992	7 439
3/11/2008	4 5077	4 51%	4 73%	8/6/1992	7 80%	7/30/1992	7 439
3/10/2008	4 4633	4 46%	4 73%	8/7/1992	7 80%	7/31/1992	7 458
3/7/2008	4 5399	4 54%	4 74%	8/10/1992	7 80%	8/3/1992	7 452
3/6/2008	4 5605	4 56%	4 74%	8/11/1992	7 79%	8/4/1992	7 426
3/5/2008	4 598	4 60%	4 74%	8/12/1992	7 79%	8/5/1992	7 426
3/4/2008	4 5068	4 51%	4 74%	8/13/1992	7 79%	8/6/1992	7 459
3/3/2008	4 4327	4 43%	4 75%	8/14/1992	7 78%	8/7/1992	7 396
2/29/2008	4 4023	4 40%	4 75%	8/17/1992	7 78%	8/10/1992	7 364
2/28/2008	4 5213	4 52%	4 75%	8/18/1992	7 78%	8/11/1992	7 318
2/27/2008	4 6499	4 65%	4 75%	8/19/1992	7 77%	8/12/1992	7 327
2/26/2008	4 6559	4 66%	4 76%	8/20/1992	7 77%	8/13/1992	7 417
2/25/2008	4 6549	4 65%	4 76%	8/21/1992	7 77%	8/14/1992	7 324
2/22/2008	4 5733	4 57%	4 76%	8/24/1992	7 77%	8/17/1992	7 356
2/21/2008	4 5438	4 54%	4 76%	8/25/1992	7 77%	8/18/1992	7 333
2/20/2008	4 6079	4 61%	4 76%	8/26/1992	7 76%	8/19/1992	7 315
2/19/2008	4 6649	4 66%	4 76%	8/27/1992	7 76%	8/20/1992	7 314
2/18/2008	4 5762	4 58%	4 77%	8/28/1992	7 76%	8/21/1992	7 35
2/15/2008	4 5762	4 58%	4 77%	8/31/1992	7 76%	8/24/1992	7 446
2/14/2008	4 6368	4 64%	4 77%	9/1/1992	7 75%	8/25/1992	7 476
2/13/2008	4 537	4 54%	4 77%	9/2/1992	7 75%	8/26/1992	7 419
2/12/2008	4 4576	4 46%	4 77%	9/3/1992	7 75%	8/27/1992	7 408
2/11/2008	4 3986	4 40%	4 77%	9/4/1992	7 74%	8/28/1992	7 423
2/8/2008	4 4166	4 42%	4 77%	9/8/1992	7 74%	8/31/1992	7 409
2/7/2008	4 5177	4 52%	4 78%	9/9/1992	7 74%	9/1/1992	7 376
2/6/2008	4 3549	4 35%	4 78%	9/10/1992	7 73%	9/2/1992	7 372
2/5/2008	4 3258	4 33%	4 78%	9/11/1992	7 73%	9/3/1992	7 357
2/4/2008	4 3779	4 38%	4 78%	9/14/1992	7 73%	9/4/1992	7 28
2/1/2008	4 3084	4 31%	4 78%	9/15/1992	7 72%	9/8/1992	7 224
1/31/2008	4 3225	4 32%	4 79%	9/16/1992	7 72%	9/9/1992	7 255
1/30/2008	4 3843	4 38%	4 79%	9/17/1992	7 72%	9/10/1992	7 245
1/29/2008	4 3551	4 36%	4 79%	9/18/1992	7 72%	9/11/1992	7 293
1/28/2008	4 2781	4 28%	4 80%	9/21/1992	7 72%	9/14/1992	7 259
1/25/2008	4 2634	4 26%	4 80%	9/22/1992	7 71%	9/15/1992	7 315
1/24/2008	4 3925	4 39%	4 80%	9/23/1992	7 71%	9/16/1992	7 332
1/23/2008	4 314	4 31%	4 80%	9/24/1992	7 71%	9/17/1992	7 329
1/22/2008	4 1942	4 19%	4 81%	9/25/1992	7 71%	9/18/1992	7 322
1/21/2008	4 2809	4 28%	4 81%	9/28/1992	7 71%	9/21/1992	7 354
1/18/2008	4 281	4 28%	4 81%	9/29/1992	7 71%	9/22/1992	7 466
1/17/2008	4 2551	4 26%	4 81%	9/30/1992	7 71%	9/23/1992	7 487
1/16/2008	4 3423	4 34%	4 82%	10/1/1992	7 70%	9/24/1992	7 42
1/15/2008	4 2725	4 27%	4 82%	10/2/1992	7 70%	9/25/1992	7 359
1/14/2008	4 3582	4 36%	4 82%	10/5/1992	7 70%	9/28/1992	7 341

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
1/11/2008	4 375	4 38%	4 83%	10/6/1992	7 70%	9/29/1992	7 363
1/10/2008	4 4502	4 45%	4 83%	10/7/1992	7 70%	9/30/1992	7 381
1/9/2008	4 3407	4 34%	4 83%	10/8/1992	7 70%	10/1/1992	7 322
1/8/2008	4 3101	4 31%	4 83%	10/9/1992	7 70%	10/2/1992	7 334
1/7/2008	4 3382	4 34%	4 84%	10/12/1992	7 70%	10/5/1992	7 35
1/4/2008	4 3761	4 38%	4 84%	10/13/1992	7 70%	10/6/1992	7 414
1/3/2008	4 3638	4 36%	4 84%	10/14/1992	7 70%	10/7/1992	7 484
1/2/2008	4 3524	4 35%	4 84%	10/15/1992	7 70%	10/8/1992	7 445
1/1/2008	4 4522	4 45%	4 85%	10/16/1992	7 71%	10/9/1992	7 524
12/31/2007	4 4522	4 45%	4 85%	10/19/1992	7 71%	10/12/1992	7 511
12/28/2007	4 4949	4 49%	4 85%	10/20/1992	7 71%	10/13/1992	7 534
12/27/2007	4 6111	4 61%	4 85%	10/21/1992	7 71%	10/14/1992	7 499
12/26/2007	4 6704	4 67%	4 85%	10/22/1992	7 71%	10/15/1992	7 508
12/25/2007	4 6149	4 61%	4 85%	10/23/1992	7 71%	10/16/1992	7 531
12/24/2007	4 6149	4 61%	4 85%	10/26/1992	7 71%	10/19/1992	7 566
12/21/2007	4 5823	4 58%	4 85%	10/27/1992	7 71%	10/20/1992	7 649
12/20/2007	4 4788	4 48%	4 86%	10/28/1992	7 71%	10/21/1992	7 604
12/19/2007	4 4472	4 45%	4 86%	10/29/1992	7 71%	10/22/1992	7 62
12/18/2007	4 5354	4 54%	4 86%	10/30/1992	7 71%	10/23/1992	7 645
12/17/2007	4 5788	4 58%	4 86%	11/2/1992	7 71%	10/26/1992	7 66
12/14/2007	4 6583	4 66%	4 86%	11/3/1992	7 71%	10/27/1992	7 619
12/13/2007	4 6105	4 61%	4 86%	11/4/1992	7 71%	10/28/1992	7 612
12/12/2007	4 5411	4 54%	4 86%	11/5/1992	7 71%	10/29/1992	7 58
12/11/2007	4 4664	4 47%	4 86%	11/6/1992	7 71%	10/30/1992	7 626
12/10/2007	4 619	4 62%	4 86%	11/9/1992	7 71%	11/2/1992	7 66
12/7/2007	4 5697	4 57%	4 86%	11/10/1992	7 70%	11/3/1992	7 652
12/6/2007	4 4756	4 48%	4 86%	11/11/1992	7 70%	11/4/1992	7 68
12/5/2007	4 4413	4 44%	4 86%	11/12/1992	7 70%	11/5/1992	7 688
12/4/2007	4 356	4 36%	4 86%	11/13/1992	7 70%	11/6/1992	7 756
12/3/2007	4 3253	4 33%	4 86%	11/16/1992	7 70%	11/9/1992	7 739
11/30/2007	4 379	4 38%	4 87%	11/17/1992	7 70%	11/10/1992	7 667
11/29/2007	4 3456	4 35%	4 87%	11/18/1992	7 70%	11/11/1992	7 661
11/28/2007	4 4183	4 42%	4 87%	11/19/1992	7 70%	11/12/1992	7 597
11/27/2007	4 3633	4 36%	4 87%	11/20/1992	7 70%	11/13/1992	7 565
11/26/2007	4 2899	4 29%	4 87%	11/23/1992	7 69%	11/16/1992	7 566
11/23/2007	4 4246	4 42%	4 88%	11/24/1992	7 69%	11/17/1992	7 538
11/22/2007	4 4587	4 46%	4 88%	11/25/1992	7 69%	11/18/1992	7 504
11/21/2007	4 4588	4 46%	4 88%	11/26/1992	7 69%	11/19/1992	7 545
11/20/2007	4 4978	4 50%	4 88%	11/27/1992	7 69%	11/20/1992	7 534
11/19/2007	4 4761	4 48%	4 88%	11/30/1992	7 68%	11/23/1992	7 543
11/16/2007	4 5344	4 53%	4 89%	12/1/1992	7 68%	11/24/1992	7 533
11/15/2007	4 5189	4 52%	4 89%	12/2/1992	7 68%	11/25/1992	7 542
11/14/2007	4 5972	4 60%	4 89%	12/3/1992	7 68%	11/26/1992	7 529
11/13/2007	4 615	4 62%	4 89%	12/4/1992	7 68%	11/27/1992	7 591
11/12/2007	4 6028	4 60%	4 89%	12/7/1992	7 68%	11/30/1992	7 597
11/9/2007	4 6028	4 60%	4 89%	12/8/1992	7 67%	12/1/1992	7 567
11/8/2007	4 6676	4 67%	4 89%	12/9/1992	7 67%	12/2/1992	7 564
11/7/2007	4 6534	4 65%	4 90%	12/10/1992	7 67%	12/3/1992	7 559
11/6/2007	4 6666	4 67%	4 90%	12/11/1992	7 67%	12/4/1992	7 487
11/5/2007	4 6272	4 63%	4 90%	12/14/1992	7 66%	12/7/1992	7 455
11/2/2007	4 6159	4 62%	4 90%	12/15/1992	7 66%	12/8/1992	7 433
11/1/2007	4 6365	4 64%	4 90%	12/16/1992	7 66%	12/9/1992	7 437
10/31/2007	4 7457	4 75%	4 90%	12/17/1992	7 66%	12/10/1992	7 425
10/30/2007	4 6742	4 67%	4 91%	12/18/1992	7 65%	12/11/1992	7 438
10/29/2007	4 6638	4 66%	4 91%	12/21/1992	7 65%	12/14/1992	7 462
10/26/2007	4 6979	4 70%	4 91%	12/22/1992	7 65%	12/15/1992	7 448
10/25/2007	4 6828	4 68%	4 91%	12/23/1992	7 64%	12/16/1992	7 432
10/24/2007	4 6422	4 64%	4 91%	12/24/1992	7 64%	12/17/1992	7 422
10/23/2007	4 6942	4 69%	4 91%	12/25/1992	7 64%	12/18/1992	7 425
10/22/2007	4 6885	4 69%	4 91%	12/28/1992	7 63%	12/21/1992	7 389
10/19/2007	4 6856	4 69%	4 91%	12/29/1992	7 63%	12/22/1992	7 339
10/18/2007	4 7698	4 77%	4 91%	12/30/1992	7 63%	12/23/1992	7 355
10/17/2007	4 8252	4 83%	4 91%	12/31/1992	7 62%	12/24/1992	7 36
10/16/2007	4 9031	4 90%	4 91%	1/4/1993	7 62%	12/25/1992	7 361
10/15/2007	4 9121	4 91%	4 91%	1/5/1993	7 62%	12/28/1992	7 399
10/12/2007	4 9011	4 90%	4 91%	1/6/1993	7 61%	12/29/1992	7 361
10/11/2007	4 8635	4 86%	4 91%	1/7/1993	7 61%	12/30/1992	7 381
10/10/2007	4 8674	4 87%	4 91%	1/8/1993	7 61%	12/31/1992	7 396
10/9/2007	4 8615	4 86%	4 91%	1/11/1993	7 61%	1/4/1993	7 32
10/8/2007	4 8655	4 87%	4 91%	1/12/1993	7 61%	1/5/1993	7 32
10/5/2007	4 8655	4 87%	4 91%	1/13/1993	7 60%	1/6/1993	7 35
10/4/2007	4 7564	4 76%	4 91%	1/14/1993	7 60%	1/7/1993	7 445
10/3/2007	4 796	4 80%	4 91%	1/15/1993	7 60%	1/8/1993	7 465
10/2/2007	4 767	4 77%	4 91%	1/18/1993	7 60%	1/11/1993	7 449
10/1/2007	4 7863	4 79%	4 91%	1/19/1993	7 59%	1/12/1993	7 476

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
9/28/2007	4 836	4 84%	4 91%	1/20/1993	7 59%	1/13/1993	7 432
9/27/2007	4 834	4 83%	4 91%	1/21/1993	7 59%	1/14/1993	7 393
9/26/2007	4 8922	4 89%	4 91%	1/22/1993	7 58%	1/15/1993	7 346
9/25/2007	4 9021	4 90%	4 91%	1/25/1993	7 58%	1/18/1993	7 346
9/24/2007	4 8823	4 88%	4 91%	1/26/1993	7 58%	1/19/1993	7 299
9/21/2007	4 8852	4 89%	4 90%	1/27/1993	7 57%	1/20/1993	7 329
9/20/2007	4 9642	4 96%	4 90%	1/28/1993	7 57%	1/21/1993	7 302
9/19/2007	4 835	4 84%	4 90%	1/29/1993	7 56%	1/22/1993	7 29
9/18/2007	4 7545	4 75%	4 90%	2/1/1993	7 56%	1/25/1993	7 203
9/17/2007	4 6982	4 70%	4 90%	2/2/1993	7 56%	1/26/1993	7 255
9/14/2007	4 7191	4 72%	4 90%	2/3/1993	7 55%	1/27/1993	7 244
9/13/2007	4 7325	4 73%	4 90%	2/4/1993	7 55%	1/28/1993	7 204
9/12/2007	4 6859	4 69%	4 90%	2/5/1993	7 54%	1/29/1993	7 197
9/11/2007	4 653	4 65%	4 90%	2/8/1993	7 54%	2/1/1993	7 207
9/10/2007	4 6371	4 64%	4 90%	2/9/1993	7 53%	2/2/1993	7 245
9/7/2007	4 6973	4 70%	4 90%	2/10/1993	7 53%	2/3/1993	7 213
9/6/2007	4 7951	4 80%	4 90%	2/11/1993	7 53%	2/4/1993	7 184
9/5/2007	4 77	4 77%	4 90%	2/12/1993	7 52%	2/5/1993	7 161
9/4/2007	4 8302	4 83%	4 90%	2/15/1993	7 52%	2/8/1993	7 197
9/3/2007	4 8224	4 82%	4 90%	2/16/1993	7 51%	2/9/1993	7 199
8/31/2007	4 8224	4 82%	4 89%	2/17/1993	7 51%	2/10/1993	7 251
8/30/2007	4 8244	4 82%	4 89%	2/18/1993	7 51%	2/11/1993	7 199
8/29/2007	4 8793	4 88%	4 89%	2/19/1993	7 50%	2/12/1993	7 124
8/28/2007	4 84	4 84%	4 89%	2/22/1993	7 50%	2/15/1993	7 109
8/27/2007	4 8577	4 86%	4 89%	2/23/1993	7 49%	2/16/1993	7 149
8/24/2007	4 8843	4 88%	4 89%	2/24/1993	7 49%	2/17/1993	7 1
8/23/2007	4 936	4 94%	4 89%	2/25/1993	7 48%	2/18/1993	7 019
8/22/2007	4 9611	4 96%	4 89%	2/26/1993	7 48%	2/19/1993	7 006
8/21/2007	4 948	4 95%	4 89%	3/1/1993	7 47%	2/22/1993	6 935
8/20/2007	4 9651	4 97%	4 88%	3/2/1993	7 47%	2/23/1993	6 822
8/17/2007	4 9863	4 99%	4 88%	3/3/1993	7 46%	2/24/1993	6 885
8/16/2007	4 9581	4 96%	4 88%	3/4/1993	7 46%	2/25/1993	6 89
8/15/2007	5 026	5 03%	4 88%	3/5/1993	7 45%	2/26/1993	6 897
8/14/2007	4 9884	4 99%	4 88%	3/8/1993	7 45%	3/1/1993	6 841
8/13/2007	4 9995	5 00%	4 88%	3/9/1993	7 44%	3/2/1993	6 837
8/10/2007	5 0331	5 03%	4 88%	3/10/1993	7 43%	3/3/1993	6 781
8/9/2007	5 0204	5 02%	4 87%	3/11/1993	7 43%	3/4/1993	6 724
8/8/2007	5 0404	5 04%	4 87%	3/12/1993	7 42%	3/5/1993	6 737
8/7/2007	4 9267	4 93%	4 87%	3/15/1993	7 42%	3/8/1993	6 721
8/6/2007	4 9092	4 91%	4 87%	3/16/1993	7 41%	3/9/1993	6 736
8/3/2007	4 8652	4 87%	4 87%	3/17/1993	7 41%	3/10/1993	6 747
8/2/2007	4 9122	4 91%	4 87%	3/18/1993	7 40%	3/11/1993	6 763
8/1/2007	4 9224	4 92%	4 87%	3/19/1993	7 40%	3/12/1993	6 858
7/31/2007	4 9019	4 90%	4 87%	3/22/1993	7 39%	3/15/1993	6 892
7/30/2007	4 9544	4 95%	4 87%	3/23/1993	7 39%	3/16/1993	6 874
7/27/2007	4 9317	4 93%	4 87%	3/24/1993	7 38%	3/17/1993	6 864
7/26/2007	4 9533	4 95%	4 87%	3/25/1993	7 38%	3/18/1993	6 781
7/25/2007	5 0243	5 02%	4 87%	3/26/1993	7 37%	3/19/1993	6 802
7/24/2007	5 0296	5 03%	4 87%	3/29/1993	7 37%	3/22/1993	6 797
7/23/2007	5 057	5 06%	4 87%	3/30/1993	7 36%	3/23/1993	6 769
7/20/2007	5 0581	5 06%	4 87%	3/31/1993	7 36%	3/24/1993	6 815
7/19/2007	5 1092	5 11%	4 87%	4/1/1993	7 35%	3/25/1993	6 851
7/18/2007	5 1232	5 12%	4 86%	4/2/1993	7 35%	3/26/1993	6 938
7/17/2007	5 1383	5 14%	4 86%	4/5/1993	7 35%	3/29/1993	6 889
7/16/2007	5 1264	5 13%	4 86%	4/6/1993	7 34%	3/30/1993	6 909
7/13/2007	5 1849	5 18%	4 86%	4/7/1993	7 34%	3/31/1993	6 926
7/12/2007	5 2221	5 22%	4 86%	4/8/1993	7 33%	4/1/1993	6 966
7/11/2007	5 1902	5 19%	4 86%	4/9/1993	7 33%	4/2/1993	7 054
7/10/2007	5 1176	5 12%	4 85%	4/12/1993	7 33%	4/5/1993	7 025
7/9/2007	5 2363	5 24%	4 85%	4/13/1993	7 32%	4/6/1993	6 964
7/6/2007	5 2684	5 27%	4 85%	4/14/1993	7 32%	4/7/1993	6 951
7/5/2007	5 2308	5 23%	4 85%	4/15/1993	7 31%	4/8/1993	6 849
7/4/2007	5 139	5 14%	4 85%	4/16/1993	7 31%	4/9/1993	6 847
7/3/2007	5 139	5 14%	4 84%	4/19/1993	7 30%	4/12/1993	6 792
7/2/2007	5 0896	5 09%	4 84%	4/20/1993	7 30%	4/13/1993	6 78
6/29/2007	5 1239	5 12%	4 84%	4/21/1993	7 30%	4/14/1993	6 755
6/28/2007	5 202	5 20%	4 84%	4/22/1993	7 29%	4/15/1993	6 721
6/27/2007	5 1943	5 19%	4 84%	4/23/1993	7 29%	4/16/1993	6 755
6/26/2007	5 1986	5 20%	4 83%	4/26/1993	7 28%	4/19/1993	6 722
6/25/2007	5 203	5 20%	4 83%	4/27/1993	7 28%	4/20/1993	6 749
6/22/2007	5 2481	5 25%	4 83%	4/28/1993	7 27%	4/21/1993	6 744
6/21/2007	5 3037	5 30%	4 83%	4/29/1993	7 27%	4/22/1993	6 748
6/20/2007	5 2413	5 24%	4 83%	4/30/1993	7 27%	4/23/1993	6 79
6/19/2007	5 1952	5 20%	4 82%	5/3/1993	7 26%	4/26/1993	6 826
6/18/2007	5 2523	5 25%	4 82%	5/4/1993	7 26%	4/27/1993	6 899

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
6/15/2007	5 259	5 26%	4 82%	5/5/1993	7 26%	4/28/1993	6 919
6/14/2007	5 3012	5 30%	4 82%	5/6/1993	7 25%	4/29/1993	6 879
6/13/2007	5 2789	5 28%	4 82%	5/7/1993	7 25%	4/30/1993	6 933
6/12/2007	5 4019	5 40%	4 82%	5/10/1993	7 25%	5/3/1993	6 861
6/11/2007	5 2555	5 26%	4 81%	5/11/1993	7 24%	5/4/1993	6 788
6/8/2007	5 207	5 21%	4 81%	5/12/1993	7 24%	5/5/1993	6 784
6/7/2007	5 23	5 23%	4 81%	5/13/1993	7 24%	5/6/1993	6 803
6/6/2007	5 0806	5 08%	4 81%	5/14/1993	7 24%	5/7/1993	6 844
6/5/2007	5 087	5 09%	4 81%	5/17/1993	7 23%	5/10/1993	6 809
6/4/2007	5 0224	5 02%	4 81%	5/18/1993	7 23%	5/11/1993	6 812
6/1/2007	5 0572	5 06%	4 81%	5/19/1993	7 23%	5/12/1993	6 856
5/31/2007	5 0098	5 01%	4 81%	5/20/1993	7 23%	5/13/1993	6 953
5/30/2007	5 0014	5 00%	4 80%	5/21/1993	7 23%	5/14/1993	6 945
5/29/2007	5 0171	5 02%	4 80%	5/24/1993	7 23%	5/17/1993	6 964
5/28/2007	5 0024	5 00%	4 80%	5/25/1993	7 22%	5/18/1993	7 018
5/25/2007	5 0024	5 00%	4 80%	5/26/1993	7 22%	5/19/1993	6 969
5/24/2007	4 9898	4 99%	4 80%	5/27/1993	7 22%	5/20/1993	6 993
5/23/2007	5 0034	5 00%	4 80%	5/28/1993	7 22%	5/21/1993	7 031
5/22/2007	4 9804	4 98%	4 80%	5/31/1993	7 22%	5/24/1993	7 004
5/21/2007	4 937	4 94%	4 80%	6/1/1993	7 21%	5/25/1993	7 005
5/18/2007	4 9576	4 96%	4 80%	6/2/1993	7 21%	5/26/1993	6 92
5/17/2007	4 9133	4 91%	4 80%	6/3/1993	7 21%	5/27/1993	6 932
5/16/2007	4 8787	4 88%	4 81%	6/4/1993	7 21%	5/28/1993	6 978
5/15/2007	4 8746	4 87%	4 81%	6/7/1993	7 20%	5/31/1993	6 98
5/14/2007	4 8675	4 87%	4 81%	6/8/1993	7 20%	6/1/1993	6 881
5/11/2007	4 8493	4 85%	4 81%	6/9/1993	7 20%	6/2/1993	6 875
5/10/2007	4 8221	4 82%	4 81%	6/10/1993	7 20%	6/3/1993	6 857
5/9/2007	4 8362	4 84%	4 81%	6/11/1993	7 19%	6/4/1993	6 908
5/8/2007	4 8021	4 80%	4 81%	6/14/1993	7 19%	6/7/1993	6 878
5/7/2007	4 7822	4 78%	4 81%	6/15/1993	7 19%	6/8/1993	6 918
5/4/2007	4 8051	4 81%	4 81%	6/16/1993	7 19%	6/9/1993	6 881
5/3/2007	4 8382	4 84%	4 82%	6/17/1993	7 18%	6/10/1993	6 872
5/2/2007	4 8151	4 82%	4 82%	6/18/1993	7 18%	6/11/1993	6 803
5/1/2007	4 8151	4 82%	4 82%	6/21/1993	7 18%	6/14/1993	6 814
4/30/2007	4 8131	4 81%	4 82%	6/22/1993	7 18%	6/15/1993	6 82
4/27/2007	4 8806	4 88%	4 82%	6/23/1993	7 17%	6/16/1993	6 813
4/26/2007	4 8806	4 88%	4 82%	6/24/1993	7 17%	6/17/1993	6 806
4/25/2007	4 8331	4 83%	4 82%	6/25/1993	7 17%	6/18/1993	6 806
4/24/2007	4 8061	4 81%	4 82%	6/28/1993	7 16%	6/21/1993	6 772
4/23/2007	4 8221	4 82%	4 83%	6/29/1993	7 16%	6/22/1993	6 771
4/20/2007	4 8452	4 85%	4 83%	6/30/1993	7 16%	6/23/1993	6 76
4/19/2007	4 8331	4 83%	4 83%	7/1/1993	7 15%	6/24/1993	6 733
4/18/2007	4 8151	4 82%	4 83%	7/2/1993	7 15%	6/25/1993	6 7
4/17/2007	4 8432	4 84%	4 83%	7/5/1993	7 15%	6/28/1993	6 669
4/16/2007	4 8897	4 89%	4 83%	7/6/1993	7 14%	6/29/1993	6 67
4/13/2007	4 9296	4 93%	4 83%	7/7/1993	7 14%	6/30/1993	6 672
4/12/2007	4 907	4 91%	4 84%	7/8/1993	7 13%	7/1/1993	6 682
4/11/2007	4 908	4 91%	4 84%	7/9/1993	7 13%	7/2/1993	6 663
4/10/2007	4 904	4 90%	4 84%	7/12/1993	7 13%	7/5/1993	6 665
4/9/2007	4 9183	4 92%	4 84%	7/13/1993	7 12%	7/6/1993	6 678
4/6/2007	4 9203	4 92%	4 84%	7/14/1993	7 12%	7/7/1993	6 677
4/5/2007	4 8745	4 87%	4 84%	7/15/1993	7 11%	7/8/1993	6 656
4/4/2007	4 8422	4 84%	4 84%	7/16/1993	7 11%	7/9/1993	6 637
4/3/2007	4 8482	4 85%	4 85%	7/19/1993	7 10%	7/12/1993	6 624
4/2/2007	4 8361	4 84%	4 85%	7/20/1993	7 10%	7/13/1993	6 612
3/30/2007	4 8432	4 84%	4 85%	7/21/1993	7 10%	7/14/1993	6 561
3/29/2007	4 8432	4 84%	4 85%	7/22/1993	7 09%	7/15/1993	6 56
3/28/2007	4 8311	4 83%	4 85%	7/23/1993	7 09%	7/16/1993	6 539
3/27/2007	4 7982	4 80%	4 86%	7/26/1993	7 08%	7/19/1993	6 539
3/26/2007	4 8002	4 80%	4 86%	7/27/1993	7 08%	7/20/1993	6 552
3/23/2007	4 8022	4 80%	4 86%	7/28/1993	7 07%	7/21/1993	6 624
3/22/2007	4 7744	4 77%	4 86%	7/29/1993	7 07%	7/22/1993	6 659
3/21/2007	4 7203	4 72%	4 86%	7/30/1993	7 06%	7/23/1993	6 699
3/20/2007	4 7115	4 71%	4 87%	8/2/1993	7 06%	7/26/1993	6 677
3/19/2007	4 7135	4 71%	4 87%	8/3/1993	7 05%	7/27/1993	6 675
3/16/2007	4 6931	4 69%	4 87%	8/4/1993	7 05%	7/28/1993	6 654
3/15/2007	4 695	4 70%	4 87%	8/5/1993	7 04%	7/29/1993	6 567
3/14/2007	4 6989	4 70%	4 87%	8/6/1993	7 03%	7/30/1993	6 564
3/13/2007	4 6564	4 66%	4 88%	8/9/1993	7 03%	8/2/1993	6 552
3/12/2007	4 697	4 70%	4 88%	8/10/1993	7 02%	8/3/1993	6 526
3/9/2007	4 7214	4 72%	4 88%	8/11/1993	7 02%	8/4/1993	6 551
3/8/2007	4 6545	4 65%	4 88%	8/12/1993	7 01%	8/5/1993	6 524
3/7/2007	4 6286	4 63%	4 88%	8/13/1993	7 00%	8/6/1993	6 526
3/6/2007	4 6584	4 66%	4 89%	8/16/1993	7 00%	8/9/1993	6 469
3/5/2007	4 6344	4 63%	4 89%	8/17/1993	6 99%	8/10/1993	6 447

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
3/2/2007	4 6382	4 64%	4 89%	8/18/1993	6 98%	8/11/1993	6 43
3/1/2007	4 6758	4 68%	4 89%	8/19/1993	6 98%	8/12/1993	6 438
2/28/2007	4 6806	4 68%	4 90%	8/20/1993	6 97%	8/13/1993	6 348
2/27/2007	4 6316	4 63%	4 90%	8/23/1993	6 96%	8/16/1993	6 303
2/26/2007	4 7303	4 73%	4 90%	8/24/1993	6 95%	8/17/1993	6 31
2/23/2007	4 7765	4 78%	4 90%	8/25/1993	6 95%	8/18/1993	6 258
2/22/2007	4 8293	4 83%	4 91%	8/26/1993	6 94%	8/19/1993	6 195
2/21/2007	4 7904	4 79%	4 91%	8/27/1993	6 93%	8/20/1993	6 217
2/20/2007	4 7766	4 78%	4 91%	8/30/1993	6 93%	8/23/1993	6 221
2/19/2007	4 7874	4 79%	4 91%	8/31/1993	6 92%	8/24/1993	6 199
2/16/2007	4 7875	4 79%	4 91%	9/1/1993	6 91%	8/25/1993	6 17
2/15/2007	4 8054	4 81%	4 92%	9/2/1993	6 90%	8/26/1993	6 095
2/14/2007	4 8333	4 83%	4 92%	9/3/1993	6 90%	8/27/1993	6 134
2/13/2007	4 8989	4 90%	4 92%	9/6/1993	6 89%	8/30/1993	6 118
2/12/2007	4 8857	4 89%	4 92%	9/7/1993	6 88%	8/31/1993	6 092
2/9/2007	4 8635	4 86%	4 92%	9/8/1993	6 87%	9/1/1993	6 086
2/8/2007	4 8396	4 84%	4 93%	9/9/1993	6 86%	9/2/1993	6 042
2/7/2007	4 8521	4 85%	4 93%	9/10/1993	6 85%	9/3/1993	5 944
2/6/2007	4 8679	4 87%	4 93%	9/13/1993	6 85%	9/6/1993	5 944
2/5/2007	4 9071	4 91%	4 93%	9/14/1993	6 84%	9/7/1993	5 902
2/2/2007	4 922	4 92%	4 93%	9/15/1993	6 83%	9/8/1993	5 865
2/1/2007	4 9294	4 93%	4 93%	9/16/1993	6 83%	9/9/1993	5 958
1/31/2007	4 9069	4 91%	4 94%	9/17/1993	6 82%	9/10/1993	5 881
1/30/2007	4 9777	4 98%	4 94%	9/20/1993	6 81%	9/13/1993	5 875
1/29/2007	4 995	5 00%	4 94%	9/21/1993	6 80%	9/14/1993	5 975
1/26/2007	4 9722	4 97%	4 94%	9/22/1993	6 80%	9/15/1993	5 982
1/25/2007	4 9667	4 97%	4 94%	9/23/1993	6 79%	9/16/1993	6 032
1/24/2007	4 9099	4 91%	4 94%	9/24/1993	6 78%	9/17/1993	6 038
1/23/2007	4 9057	4 91%	4 94%	9/27/1993	6 78%	9/20/1993	6 095
1/22/2007	4 8476	4 85%	4 94%	9/28/1993	6 77%	9/21/1993	6 124
1/19/2007	4 8623	4 86%	4 94%	9/29/1993	6 76%	9/22/1993	6 087
1/18/2007	4 8401	4 84%	4 94%	9/30/1993	6 76%	9/23/1993	6 064
1/17/2007	4 8706	4 87%	4 95%	10/1/1993	6 75%	9/24/1993	6 048
1/16/2007	4 8401	4 84%	4 95%	10/4/1993	6 74%	9/27/1993	5 949
1/15/2007	4 86	4 86%	4 95%	10/5/1993	6 74%	9/28/1993	5 941
1/12/2007	4 86	4 86%	4 95%	10/6/1993	6 73%	9/29/1993	5 998
1/11/2007	4 8181	4 82%	4 95%	10/7/1993	6 72%	9/30/1993	6 025
1/10/2007	4 7745	4 77%	4 95%	10/8/1993	6 71%	10/1/1993	5 99
1/9/2007	4 7375	4 74%	4 95%	10/12/1993	6 71%	10/4/1993	6 002
1/8/2007	4 7334	4 73%	4 95%	10/13/1993	6 70%	10/5/1993	6 008
1/5/2007	4 7385	4 74%	4 95%	10/14/1993	6 69%	10/6/1993	6 008
1/4/2007	4 7079	4 71%	4 95%	10/15/1993	6 68%	10/7/1993	6 012
1/3/2007	4 7631	4 76%	4 95%	10/18/1993	6 68%	10/8/1993	5 923
1/2/2007	4 7847	4 78%	4 96%	10/19/1993	6 67%	10/12/1993	5 92
1/1/2007	4 8096	4 81%	4 96%	10/20/1993	6 66%	10/13/1993	5 917
12/29/2006	4 8095	4 81%	4 96%	10/21/1993	6 65%	10/14/1993	5 852
12/28/2006	4 8064	4 81%	4 96%	10/22/1993	6 65%	10/15/1993	5 786
12/27/2006	4 7763	4 78%	4 95%	10/25/1993	6 64%	10/18/1993	5 852
12/26/2006	4 7312	4 73%	4 95%	10/26/1993	6 63%	10/19/1993	5 841
12/25/2006	4 7578	4 76%	4 95%	10/27/1993	6 63%	10/20/1993	5 823
12/22/2006	4 7578	4 76%	4 95%	10/28/1993	6 62%	10/21/1993	5 917
12/21/2006	4 6875	4 69%	4 95%	10/29/1993	6 61%	10/22/1993	5 976
12/20/2006	4 728	4 73%	4 95%	11/1/1993	6 61%	10/25/1993	6 003
12/19/2006	4 7189	4 72%	4 95%	11/2/1993	6 60%	10/26/1993	5 985
12/18/2006	4 7057	4 71%	4 95%	11/3/1993	6 59%	10/27/1993	6 005
12/15/2006	4 7138	4 71%	4 95%	11/4/1993	6 59%	10/28/1993	5 951
12/14/2006	4 7137	4 71%	4 95%	11/5/1993	6 58%	10/29/1993	5 97
12/13/2006	4 6965	4 70%	4 95%	11/8/1993	6 58%	11/1/1993	6 03
12/12/2006	4 6064	4 61%	4 95%	11/9/1993	6 57%	11/2/1993	6 061
12/11/2006	4 6242	4 62%	4 96%	11/10/1993	6 57%	11/3/1993	6 115
12/8/2006	4 6532	4 65%	4 96%	11/12/1993	6 56%	11/4/1993	6 185
12/7/2006	4 6024	4 60%	4 96%	11/15/1993	6 56%	11/5/1993	6 211
12/6/2006	4 5994	4 60%	4 96%	11/16/1993	6 55%	11/8/1993	6 197
12/5/2006	4 5727	4 57%	4 96%	11/17/1993	6 55%	11/9/1993	6 141
12/4/2006	4 5404	4 54%	4 96%	11/18/1993	6 54%	11/10/1993	6 206
12/1/2006	4 5463	4 55%	4 96%	11/19/1993	6 54%	11/12/1993	6 145
11/30/2006	4 5619	4 56%	4 96%	11/22/1993	6 54%	11/15/1993	6 159
11/29/2006	4 6142	4 61%	4 96%	11/23/1993	6 53%	11/16/1993	6 169
11/28/2006	4 5914	4 59%	4 96%	11/24/1993	6 53%	11/17/1993	6 183
11/27/2006	4 6112	4 61%	4 95%	11/25/1993	6 52%	11/18/1993	6 241
11/24/2006	4 6311	4 63%	4 95%	11/26/1993	6 52%	11/19/1993	6 338
11/23/2006	4 646	4 65%	4 95%	11/29/1993	6 52%	11/22/1993	6 383
11/22/2006	4 646	4 65%	4 95%	11/30/1993	6 51%	11/23/1993	6 306
11/21/2006	4 657	4 66%	4 95%	12/1/1993	6 51%	11/24/1993	6 304
11/20/2006	4 6791	4 68%	4 95%	12/2/1993	6 51%	11/25/1993	6 307

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
11/17/2006	4 6881	4 69%	4 95%	12/3/1993	6 50%	11/26/1993	6 26
11/16/2006	4 7419	4 74%	4 95%	12/6/1993	6 50%	11/29/1993	6 229
11/15/2006	4 7002	4 70%	4 95%	12/7/1993	6 50%	11/30/1993	6 301
11/14/2006	4 656	4 66%	4 95%	12/8/1993	6 49%	12/1/1993	6 256
11/13/2006	4 7053	4 71%	4 95%	12/9/1993	6 49%	12/2/1993	6 273
11/10/2006	4 6972	4 70%	4 95%	12/10/1993	6 49%	12/3/1993	6 245
11/9/2006	4 7296	4 73%	4 95%	12/13/1993	6 48%	12/6/1993	6 172
11/8/2006	4 7276	4 73%	4 95%	12/14/1993	6 48%	12/7/1993	6 167
11/7/2006	4 7551	4 76%	4 95%	12/15/1993	6 48%	12/8/1993	6 162
11/6/2006	4 7839	4 78%	4 95%	12/16/1993	6 48%	12/9/1993	6 154
11/3/2006	4 8086	4 81%	4 95%	12/17/1993	6 48%	12/10/1993	6 192
11/2/2006	4 7153	4 72%	4 95%	12/20/1993	6 47%	12/13/1993	6 231
11/1/2006	4 684	4 68%	4 95%	12/21/1993	6 47%	12/14/1993	6 302
10/31/2006	4 7153	4 72%	4 95%	12/22/1993	6 47%	12/15/1993	6 291
10/30/2006	4 7827	4 78%	4 95%	12/23/1993	6 46%	12/16/1993	6 298
10/27/2006	4 793	4 79%	4 95%	12/24/1993	6 46%	12/17/1993	6 279
10/26/2006	4 8366	4 84%	4 94%	12/27/1993	6 46%	12/20/1993	6 3
10/25/2006	4 8816	4 88%	4 94%	12/28/1993	6 45%	12/21/1993	6 311
10/24/2006	4 941	4 94%	4 94%	12/29/1993	6 45%	12/22/1993	6 222
10/23/2006	4 957	4 96%	4 94%	12/30/1993	6 45%	12/23/1993	6 214
10/20/2006	4 908	4 91%	4 94%	12/31/1993	6 45%	12/24/1993	6 213
10/19/2006	4 9101	4 91%	4 93%	1/3/1994	6 44%	12/27/1993	6 229
10/18/2006	4 8836	4 88%	4 93%	1/4/1994	6 44%	12/28/1993	6 239
10/17/2006	4 8984	4 90%	4 93%	1/5/1994	6 44%	12/29/1993	6 251
10/16/2006	4 9079	4 91%	4 93%	1/6/1994	6 44%	12/30/1993	6 335
10/13/2006	4 9334	4 93%	4 93%	1/7/1994	6 43%	12/31/1993	6 348
10/12/2006	4 9057	4 91%	4 93%	1/10/1994	6 43%	1/3/1994	6 416
10/11/2006	4 9057	4 91%	4 93%	1/11/1994	6 42%	1/4/1994	6 351
10/10/2006	4 8835	4 88%	4 92%	1/12/1994	6 42%	1/5/1994	6 4
10/9/2006	4 8343	4 83%	4 92%	1/13/1994	6 42%	1/6/1994	6 344
10/6/2006	4 8343	4 83%	4 92%	1/14/1994	6 41%	1/7/1994	6 227
10/5/2006	4 7589	4 76%	4 92%	1/17/1994	6 41%	1/10/1994	6 242
10/4/2006	4 7202	4 72%	4 92%	1/18/1994	6 41%	1/11/1994	6 234
10/3/2006	4 7538	4 75%	4 92%	1/19/1994	6 41%	1/12/1994	6 174
10/2/2006	4 7476	4 75%	4 92%	1/20/1994	6 40%	1/13/1994	6 262
9/29/2006	4 7619	4 76%	4 91%	1/21/1994	6 40%	1/14/1994	6 296
9/28/2006	4 7548	4 75%	4 91%	1/24/1994	6 40%	1/17/1994	6 305
9/27/2006	4 7374	4 74%	4 91%	1/25/1994	6 40%	1/18/1994	6 264
9/26/2006	4 7141	4 71%	4 91%	1/26/1994	6 40%	1/19/1994	6 297
9/25/2006	4 6878	4 69%	4 91%	1/27/1994	6 39%	1/20/1994	6 266
9/22/2006	4 7343	4 73%	4 91%	1/28/1994	6 39%	1/21/1994	6 281
9/21/2006	4 7721	4 77%	4 91%	1/31/1994	6 39%	1/24/1994	6 297
9/20/2006	4 8477	4 85%	4 91%	2/1/1994	6 38%	1/25/1994	6 341
9/19/2006	4 8581	4 86%	4 91%	2/2/1994	6 38%	1/26/1994	6 311
9/18/2006	4 9234	4 92%	4 91%	2/3/1994	6 38%	1/27/1994	6 26
9/15/2006	4 9096	4 91%	4 91%	2/4/1994	6 38%	1/28/1994	6 217
9/14/2006	4 916	4 92%	4 91%	2/7/1994	6 37%	1/31/1994	6 238
9/13/2006	4 8927	4 89%	4 91%	2/8/1994	6 37%	2/1/1994	6 313
9/12/2006	4 9032	4 90%	4 90%	2/9/1994	6 37%	2/2/1994	6 281
9/11/2006	4 9404	4 94%	4 90%	2/10/1994	6 37%	2/3/1994	6 303
9/8/2006	4 918	4 92%	4 90%	2/11/1994	6 37%	2/4/1994	6 362
9/7/2006	4 9339	4 93%	4 90%	2/14/1994	6 36%	2/7/1994	6 388
9/6/2006	4 9488	4 95%	4 90%	2/15/1994	6 36%	2/8/1994	6 446
9/5/2006	4 9297	4 93%	4 90%	2/16/1994	6 36%	2/9/1994	6 414
9/4/2006	4 8716	4 87%	4 90%	2/17/1994	6 36%	2/10/1994	6 441
9/1/2006	4 8716	4 87%	4 90%	2/18/1994	6 36%	2/11/1994	6 407
8/31/2006	4 8768	4 88%	4 90%	2/21/1994	6 36%	2/14/1994	6 441
8/30/2006	4 9042	4 90%	4 89%	2/22/1994	6 35%	2/15/1994	6 451
8/29/2006	4 9232	4 92%	4 89%	2/23/1994	6 35%	2/16/1994	6 457
8/28/2006	4 9296	4 93%	4 89%	2/24/1994	6 35%	2/17/1994	6 54
8/25/2006	4 9243	4 92%	4 89%	2/25/1994	6 35%	2/18/1994	6 625
8/24/2006	4 938	4 94%	4 89%	2/28/1994	6 35%	2/21/1994	6 661
8/23/2006	4 9455	4 95%	4 89%	3/1/1994	6 35%	2/22/1994	6 599
8/22/2006	4 9433	4 94%	4 89%	3/2/1994	6 34%	2/23/1994	6 645
8/21/2006	4 9572	4 96%	4 89%	3/3/1994	6 34%	2/24/1994	6 74
8/18/2006	4 9786	4 98%	4 89%	3/4/1994	6 34%	2/25/1994	6 713
8/17/2006	4 998	5 00%	4 88%	3/7/1994	6 34%	2/28/1994	6 661
8/16/2006	4 9915	4 99%	4 88%	3/8/1994	6 34%	3/1/1994	6 779
8/15/2006	5 0479	5 05%	4 88%	3/9/1994	6 34%	3/2/1994	6 772
8/14/2006	5 1127	5 11%	4 88%	3/10/1994	6 34%	3/3/1994	6 836
8/11/2006	5 0939	5 09%	4 88%	3/11/1994	6 34%	3/4/1994	6 839
8/10/2006	5 0729	5 07%	4 88%	3/14/1994	6 34%	3/7/1994	6 8
8/9/2006	5 0488	5 05%	4 88%	3/15/1994	6 34%	3/8/1994	6 864
8/8/2006	5 0194	5 02%	4 88%	3/16/1994	6 34%	3/9/1994	6 834
8/7/2006	5 001	5 00%	4 87%	3/17/1994	6 34%	3/10/1994	6 956

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
8/4/2006	4 988	4 99%	4 87%	3/18/1994	6 34%	3/11/1994	6 904
8/3/2006	5 0442	5 04%	4 87%	3/21/1994	6 34%	3/14/1994	6 944
8/2/2006	5 0529	5 05%	4 87%	3/22/1994	6 34%	3/15/1994	6 889
8/1/2006	5 0605	5 06%	4 87%	3/23/1994	6 34%	3/16/1994	6 8
7/31/2006	5 0649	5 06%	4 87%	3/24/1994	6 34%	3/17/1994	6 826
7/28/2006	5 0703	5 07%	4 87%	3/25/1994	6 35%	3/18/1994	6 919
7/27/2006	5 1043	5 10%	4 86%	3/28/1994	6 35%	3/21/1994	6 961
7/26/2006	5 0943	5 09%	4 86%	3/29/1994	6 35%	3/22/1994	6 848
7/25/2006	5 1219	5 12%	4 86%	3/30/1994	6 35%	3/23/1994	6 889
7/24/2006	5 102	5 10%	4 86%	3/31/1994	6 35%	3/24/1994	6 952
7/21/2006	5 0931	5 09%	4 85%	4/1/1994	6 35%	3/25/1994	7 016
7/20/2006	5 082	5 08%	4 85%	4/4/1994	6 36%	3/28/1994	6 975
7/19/2006	5 0985	5 10%	4 85%	4/5/1994	6 36%	3/29/1994	7 06
7/18/2006	5 1651	5 17%	4 85%	4/6/1994	6 36%	3/30/1994	7 103
7/17/2006	5 0984	5 10%	4 85%	4/7/1994	6 37%	3/31/1994	7 092
7/14/2006	5 115	5 12%	4 84%	4/8/1994	6 37%	4/1/1994	7 254
7/13/2006	5 1127	5 11%	4 84%	4/11/1994	6 37%	4/4/1994	7 416
7/12/2006	5 137	5 14%	4 84%	4/12/1994	6 37%	4/5/1994	7 251
7/11/2006	5 1459	5 15%	4 83%	4/13/1994	6 38%	4/6/1994	7 253
7/10/2006	5 1705	5 17%	4 83%	4/14/1994	6 38%	4/7/1994	7 212
7/7/2006	5 1738	5 17%	4 83%	4/15/1994	6 38%	4/8/1994	7 264
7/6/2006	5 2222	5 22%	4 83%	4/18/1994	6 39%	4/11/1994	7 234
7/5/2006	5 2666	5 27%	4 82%	4/19/1994	6 39%	4/12/1994	7 214
7/4/2006	5 1995	5 20%	4 82%	4/20/1994	6 39%	4/13/1994	7 257
7/3/2006	5 1995	5 20%	4 82%	4/21/1994	6 40%	4/14/1994	7 283
6/30/2006	5 1859	5 19%	4 81%	4/22/1994	6 40%	4/15/1994	7 289
6/29/2006	5 2469	5 25%	4 81%	4/25/1994	6 40%	4/18/1994	7 409
6/28/2006	5 2812	5 28%	4 81%	4/26/1994	6 41%	4/19/1994	7 368
6/27/2006	5 232	5 23%	4 80%	4/27/1994	6 41%	4/20/1994	7 32
6/26/2006	5 2719	5 27%	4 80%	4/28/1994	6 41%	4/21/1994	7 212
6/23/2006	5 2536	5 25%	4 79%	4/29/1994	6 42%	4/22/1994	7 233
6/22/2006	5 2432	5 24%	4 79%	5/2/1994	6 42%	4/25/1994	7 147
6/21/2006	5 1922	5 19%	4 79%	5/3/1994	6 42%	4/26/1994	7 101
6/20/2006	5 1911	5 19%	4 78%	5/4/1994	6 43%	4/27/1994	7 106
6/19/2006	5 1742	5 17%	4 78%	5/5/1994	6 43%	4/28/1994	7 258
6/16/2006	5 1686	5 17%	4 78%	5/6/1994	6 43%	4/29/1994	7 307
6/15/2006	5 1361	5 14%	4 77%	5/9/1994	6 44%	5/2/1994	7 332
6/14/2006	5 0919	5 09%	4 77%	5/10/1994	6 44%	5/3/1994	7 349
6/13/2006	5 0145	5 01%	4 76%	5/11/1994	6 45%	5/4/1994	7 336
6/12/2006	5 0231	5 02%	4 76%	5/12/1994	6 46%	5/5/1994	7 336
6/9/2006	5 0199	5 02%	4 76%	5/13/1994	6 46%	5/6/1994	7 541
6/8/2006	5 0632	5 06%	4 75%	5/16/1994	6 46%	5/9/1994	7 632
6/7/2006	5 0873	5 09%	4 75%	5/17/1994	6 47%	5/10/1994	7 498
6/6/2006	5 0763	5 08%	4 75%	5/18/1994	6 47%	5/11/1994	7 609
6/5/2006	5 106	5 11%	4 74%	5/19/1994	6 48%	5/12/1994	7 561
6/2/2006	5 0949	5 09%	4 74%	5/20/1994	6 48%	5/13/1994	7 492
6/1/2006	5 1927	5 19%	4 74%	5/23/1994	6 49%	5/16/1994	7 451
5/31/2006	5 2277	5 23%	4 73%	5/24/1994	6 49%	5/17/1994	7 274
5/30/2006	5 1837	5 18%	4 73%	5/25/1994	6 50%	5/18/1994	7 274
5/29/2006	5 1545	5 15%	4 72%	5/26/1994	6 50%	5/19/1994	7 235
5/26/2006	5 1545	5 15%	4 72%	5/27/1994	6 51%	5/20/1994	7 303
5/25/2006	5 1689	5 17%	4 72%	5/30/1994	6 51%	5/23/1994	7 432
5/24/2006	5 1333	5 13%	4 71%	5/31/1994	6 52%	5/24/1994	7 395
5/23/2006	5 1155	5 12%	4 71%	6/1/1994	6 53%	5/25/1994	7 345
5/22/2006	5 131	5 13%	4 70%	6/2/1994	6 53%	5/26/1994	7 359
5/19/2006	5 1376	5 14%	4 70%	6/3/1994	6 54%	5/27/1994	7 39
5/18/2006	5 1654	5 17%	4 70%	6/6/1994	6 54%	5/30/1994	7 391
5/17/2006	5 2659	5 27%	4 69%	6/7/1994	6 55%	5/31/1994	7 428
5/16/2006	5 2091	5 21%	4 69%	6/8/1994	6 56%	6/1/1994	7 384
5/15/2006	5 2716	5 27%	4 69%	6/9/1994	6 56%	6/2/1994	7 343
5/12/2006	5 3106	5 31%	4 68%	6/10/1994	6 57%	6/3/1994	7 273
5/11/2006	5 2304	5 23%	4 68%	6/13/1994	6 58%	6/6/1994	7 217
5/10/2006	5 192	5 19%	4 68%	6/14/1994	6 58%	6/7/1994	7 258
5/9/2006	5 1976	5 20%	4 67%	6/15/1994	6 59%	6/8/1994	7 278
5/8/2006	5 1819	5 18%	4 67%	6/16/1994	6 60%	6/9/1994	7 278
5/5/2006	5 1875	5 19%	4 67%	6/17/1994	6 60%	6/10/1994	7 314
5/4/2006	5 2382	5 24%	4 66%	6/20/1994	6 61%	6/13/1994	7 356
5/3/2006	5 2336	5 23%	4 66%	6/21/1994	6 62%	6/14/1994	7 307
5/2/2006	5 2076	5 21%	4 66%	6/22/1994	6 63%	6/15/1994	7 396
5/1/2006	5 2268	5 23%	4 65%	6/23/1994	6 64%	6/16/1994	7 358
4/28/2006	5 1615	5 16%	4 65%	6/24/1994	6 64%	6/17/1994	7 447
4/27/2006	5 1704	5 17%	4 64%	6/27/1994	6 65%	6/20/1994	7 462
4/26/2006	5 1827	5 18%	4 64%	6/28/1994	6 66%	6/21/1994	7 493
4/25/2006	5 1547	5 15%	4 64%	6/29/1994	6 66%	6/22/1994	7 395
4/24/2006	5 0578	5 06%	4 63%	6/30/1994	6 67%	6/23/1994	7 401

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
4/21/2006	5 0928	5 09%	4 63%	7/1/1994	6 68%	6/24/1994	7 516
4/20/2006	5 1379	5 14%	4 63%	7/4/1994	6 69%	6/27/1994	7 458
4/19/2006	5 1202	5 12%	4 62%	7/5/1994	6 70%	6/28/1994	7 522
4/18/2006	5 0762	5 08%	4 62%	7/6/1994	6 70%	6/29/1994	7 506
4/17/2006	5 0795	5 08%	4 62%	7/7/1994	6 71%	6/30/1994	7 608
4/14/2006	5 1124	5 11%	4 61%	7/8/1994	6 72%	7/1/1994	7 614
4/13/2006	5 1124	5 11%	4 61%	7/11/1994	6 73%	7/4/1994	7 608
4/12/2006	5 0575	5 06%	4 60%	7/12/1994	6 74%	7/5/1994	7 587
4/11/2006	4 9959	5 00%	4 60%	7/13/1994	6 75%	7/6/1994	7 595
4/10/2006	5 025	5 03%	4 60%	7/14/1994	6 75%	7/7/1994	7 607
4/7/2006	5 0553	5 06%	4 59%	7/15/1994	6 76%	7/8/1994	7 693
4/6/2006	4 9734	4 97%	4 59%	7/18/1994	6 77%	7/11/1994	7 726
4/5/2006	4 9024	4 90%	4 59%	7/19/1994	6 78%	7/12/1994	7 686
4/4/2006	4 9087	4 91%	4 58%	7/20/1994	6 78%	7/13/1994	7 676
4/3/2006	4 894	4 89%	4 58%	7/21/1994	6 79%	7/14/1994	7 534
3/31/2006	4 8898	4 89%	4 58%	7/22/1994	6 80%	7/15/1994	7 545
3/30/2006	4 896	4 90%	4 57%	7/25/1994	6 81%	7/18/1994	7 502
3/29/2006	4 8398	4 84%	4 57%	7/26/1994	6 82%	7/19/1994	7 468
3/28/2006	4 7955	4 80%	4 57%	7/27/1994	6 83%	7/20/1994	7 542
3/27/2006	4 7274	4 73%	4 56%	7/28/1994	6 84%	7/21/1994	7 542
3/24/2006	4 6893	4 69%	4 56%	7/29/1994	6 84%	7/22/1994	7 564
3/23/2006	4 7537	4 75%	4 56%	8/1/1994	6 85%	7/25/1994	7 524
3/22/2006	4 7224	4 72%	4 56%	8/2/1994	6 86%	7/26/1994	7 544
3/21/2006	4 7446	4 74%	4 56%	8/3/1994	6 86%	7/27/1994	7 61
3/20/2006	4 6993	4 70%	4 56%	8/4/1994	6 87%	7/28/1994	7 55
3/17/2006	4 7173	4 72%	4 55%	8/5/1994	6 88%	7/29/1994	7 396
3/16/2006	4 6923	4 69%	4 55%	8/8/1994	6 89%	8/1/1994	7 396
3/15/2006	4 7496	4 75%	4 55%	8/9/1994	6 90%	8/2/1994	7 4
3/14/2006	4 6993	4 70%	4 55%	8/10/1994	6 90%	8/3/1994	7 384
3/13/2006	4 7597	4 76%	4 54%	8/11/1994	6 91%	8/4/1994	7 408
3/10/2006	4 7476	4 75%	4 54%	8/12/1994	6 92%	8/5/1994	7 546
3/9/2006	4 7173	4 72%	4 54%	8/15/1994	6 92%	8/8/1994	7 539
3/8/2006	4 7153	4 72%	4 54%	8/16/1994	6 93%	8/9/1994	7 569
3/7/2006	4 7093	4 71%	4 53%	8/17/1994	6 93%	8/10/1994	7 572
3/6/2006	4 7354	4 74%	4 53%	8/18/1994	6 94%	8/11/1994	7 645
3/3/2006	4 6594	4 66%	4 53%	8/19/1994	6 95%	8/12/1994	7 482
3/2/2006	4 6111	4 61%	4 53%	8/22/1994	6 96%	8/15/1994	7 506
3/1/2006	4 5585	4 56%	4 53%	8/23/1994	6 96%	8/16/1994	7 368
2/28/2006	4 5075	4 51%	4 53%	8/24/1994	6 97%	8/17/1994	7 395
2/27/2006	4 5498	4 55%	4 53%	8/25/1994	6 97%	8/18/1994	7 494
2/24/2006	4 5258	4 53%	4 53%	8/26/1994	6 98%	8/19/1994	7 485
2/23/2006	4 5009	4 50%	4 53%	8/29/1994	6 99%	8/22/1994	7 556
2/22/2006	4 4799	4 48%	4 53%	8/30/1994	6 99%	8/23/1994	7 537
2/21/2006	4 5306	4 53%	4 53%	8/31/1994	7 00%	8/24/1994	7 463
2/20/2006	4 5057	4 51%	4 53%	9/1/1994	7 00%	8/25/1994	7 535
2/17/2006	4 5057	4 51%	4 53%	9/2/1994	7 01%	8/26/1994	7 482
2/16/2006	4 5654	4 57%	4 53%	9/5/1994	7 02%	8/29/1994	7 493
2/15/2006	4 5722	4 57%	4 53%	9/6/1994	7 02%	8/30/1994	7 463
2/14/2006	4 5887	4 59%	4 53%	9/7/1994	7 03%	8/31/1994	7 451
2/13/2006	4 5557	4 56%	4 53%	9/8/1994	7 04%	9/1/1994	7 452
2/10/2006	4 5518	4 55%	4 53%	9/9/1994	7 04%	9/2/1994	7 49
2/9/2006	4 6508	4 65%	4 53%	9/12/1994	7 05%	9/5/1994	7 491
2/8/2006	4 6746	4 67%	4 53%	9/13/1994	7 06%	9/6/1994	7 545
2/7/2006	4 6538	4 65%	4 53%	9/14/1994	7 07%	9/7/1994	7 564
2/6/2006	4 6222	4 62%	4 52%	9/15/1994	7 07%	9/8/1994	7 564
2/3/2006	4 6242	4 62%	4 52%	9/16/1994	7 08%	9/9/1994	7 703
2/2/2006	4 6947	4 69%	4 52%	9/19/1994	7 09%	9/12/1994	7 711
2/1/2006	4 7058	4 71%	4 52%	9/20/1994	7 10%	9/13/1994	7 681
1/31/2006	4 6768	4 68%	4 52%	9/21/1994	7 10%	9/14/1994	7 674
1/30/2006	4 7018	4 70%	4 52%	9/22/1994	7 11%	9/15/1994	7 635
1/27/2006	4 6918	4 69%	4 52%	9/23/1994	7 12%	9/16/1994	7 772
1/26/2006	4 6939	4 69%	4 52%	9/26/1994	7 13%	9/19/1994	7 76
1/25/2006	4 6552	4 66%	4 52%	9/27/1994	7 13%	9/20/1994	7 775
1/24/2006	4 5717	4 57%	4 52%	9/28/1994	7 14%	9/21/1994	7 807
1/23/2006	4 5301	4 53%	4 52%	9/29/1994	7 15%	9/22/1994	7 778
1/20/2006	4 5214	4 52%	4 52%	9/30/1994	7 16%	9/23/1994	7 793
1/19/2006	4 5467	4 55%	4 52%	10/3/1994	7 17%	9/26/1994	7 798
1/18/2006	4 511	4 51%	4 52%	10/4/1994	7 17%	9/27/1994	7 846
1/17/2006	4 5024	4 50%	4 52%	10/5/1994	7 18%	9/28/1994	7 814
1/16/2006	4 5284	4 53%	4 52%	10/6/1994	7 19%	9/29/1994	7 843
1/13/2006	4 5284	4 53%	4 52%	10/7/1994	7 20%	9/30/1994	7 817
1/12/2006	4 5839	4 58%	4 52%	10/10/1994	7 21%	10/3/1994	7 85
1/11/2006	4 6319	4 63%	4 52%	10/11/1994	7 21%	10/4/1994	7 883
1/10/2006	4 6113	4 61%	4 53%	10/12/1994	7 22%	10/5/1994	7 947
1/9/2006	4 5509	4 55%	4 53%	10/13/1994	7 23%	10/6/1994	7 953

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
1/6/2006	4 5607	4 56%	4 53%	10/14/1994	7 24%	10/7/1994	7 909
1/5/2006	4 5453	4 55%	4 53%	10/17/1994	7 25%	10/10/1994	7 902
1/4/2006	4 5366	4 54%	4 53%	10/18/1994	7 25%	10/11/1994	7 865
1/3/2006	4 5463	4 55%	4 53%	10/19/1994	7 26%	10/12/1994	7 896
1/2/2006	4 5347	4 53%	4 53%	10/20/1994	7 27%	10/13/1994	7 854
12/30/2005	4 5348	4 53%	4 53%	10/21/1994	7 28%	10/14/1994	7 828
12/29/2005	4 5128	4 51%	4 53%	10/24/1994	7 29%	10/17/1994	7 824
12/28/2005	4 5311	4 53%	4 54%	10/25/1994	7 30%	10/18/1994	7 869
12/27/2005	4 5042	4 50%	4 54%	10/26/1994	7 31%	10/19/1994	7 889
12/23/2005	4 5447	4 54%	4 54%	10/27/1994	7 31%	10/20/1994	7 991
12/22/2005	4 6061	4 61%	4 54%	10/28/1994	7 32%	10/21/1994	7 978
12/21/2005	4 6751	4 68%	4 54%	10/31/1994	7 33%	10/24/1994	8 046
12/20/2005	4 6534	4 65%	4 54%	11/1/1994	7 34%	10/25/1994	8 046
12/19/2005	4 6386	4 64%	4 54%	11/2/1994	7 35%	10/26/1994	8 067
12/16/2005	4 6426	4 64%	4 54%	11/3/1994	7 36%	10/27/1994	8 046
12/15/2005	4 6723	4 67%	4 55%	11/4/1994	7 37%	10/28/1994	7 958
12/14/2005	4 6615	4 66%	4 55%	11/7/1994	7 38%	10/31/1994	7 97
12/13/2005	4 7242	4 72%	4 55%	11/8/1994	7 39%	11/1/1994	8 061
12/12/2005	4 7453	4 75%	4 55%	11/9/1994	7 40%	11/2/1994	8 097
12/9/2005	4 7273	4 73%	4 55%	11/10/1994	7 40%	11/3/1994	8 098
12/8/2005	4 6676	4 67%	4 55%	11/11/1994	7 41%	11/4/1994	8 159
12/7/2005	4 7134	4 71%	4 55%	11/14/1994	7 42%	11/7/1994	8 164
12/6/2005	4 6776	4 68%	4 55%	11/15/1994	7 43%	11/8/1994	8 125
12/5/2005	4 7606	4 76%	4 55%	11/16/1994	7 44%	11/9/1994	8 11
12/2/2005	4 7135	4 71%	4 55%	11/17/1994	7 45%	11/10/1994	8 149
12/1/2005	4 7146	4 71%	4 55%	11/18/1994	7 46%	11/11/1994	8 149
11/30/2005	4 6927	4 69%	4 55%	11/21/1994	7 46%	11/14/1994	8 075
11/29/2005	4 6908	4 69%	4 55%	11/22/1994	7 47%	11/15/1994	8 047
11/28/2005	4 6188	4 62%	4 55%	11/23/1994	7 48%	11/16/1994	8 094
11/25/2005	4 6581	4 66%	4 55%	11/24/1994	7 49%	11/17/1994	8 125
11/24/2005	4 6998	4 70%	4 55%	11/25/1994	7 49%	11/18/1994	8 131
11/23/2005	4 7009	4 70%	4 55%	11/28/1994	7 50%	11/21/1994	8 127
11/22/2005	4 6544	4 65%	4 55%	11/29/1994	7 51%	11/22/1994	8 044
11/21/2005	4 6594	4 66%	4 54%	11/30/1994	7 51%	11/23/1994	7 953
11/18/2005	4 6831	4 68%	4 54%	12/1/1994	7 52%	11/24/1994	7 95
11/17/2005	4 6487	4 65%	4 54%	12/2/1994	7 52%	11/25/1994	7 931
11/16/2005	4 6635	4 66%	4 54%	12/5/1994	7 53%	11/28/1994	7 981
11/15/2005	4 7482	4 75%	4 54%	12/6/1994	7 54%	11/29/1994	8 034
11/14/2005	4 7956	4 80%	4 54%	12/7/1994	7 54%	11/30/1994	7 999
11/11/2005	4 7412	4 74%	4 54%	12/8/1994	7 55%	12/1/1994	8 019
11/10/2005	4 7372	4 74%	4 54%	12/9/1994	7 55%	12/2/1994	7 905
11/9/2005	4 8375	4 84%	4 53%	12/12/1994	7 56%	12/5/1994	7 927
11/8/2005	4 7585	4 76%	4 53%	12/13/1994	7 56%	12/6/1994	7 847
11/7/2005	4 8152	4 82%	4 53%	12/14/1994	7 57%	12/7/1994	7 892
11/4/2005	4 8571	4 86%	4 53%	12/15/1994	7 57%	12/8/1994	7 864
11/3/2005	4 8438	4 84%	4 53%	12/16/1994	7 58%	12/9/1994	7 858
11/2/2005	4 7991	4 80%	4 53%	12/19/1994	7 58%	12/12/1994	7 924
11/1/2005	4 7587	4 76%	4 53%	12/20/1994	7 59%	12/13/1994	7 854
10/31/2005	4 7537	4 75%	4 53%	12/21/1994	7 59%	12/14/1994	7 865
10/28/2005	4 7719	4 77%	4 53%	12/22/1994	7 60%	12/15/1994	7 868
10/27/2005	4 7659	4 77%	4 53%	12/23/1994	7 60%	12/16/1994	7 854
10/26/2005	4 7932	4 79%	4 53%	12/26/1994	7 61%	12/19/1994	7 841
10/25/2005	4 7349	4 73%	4 52%	12/27/1994	7 61%	12/20/1994	7 847
10/24/2005	4 6614	4 66%	4 52%	12/28/1994	7 61%	12/21/1994	7 841
10/21/2005	4 6017	4 60%	4 52%	12/29/1994	7 62%	12/22/1994	7 853
10/20/2005	4 6616	4 66%	4 52%	12/30/1994	7 62%	12/23/1994	7 827
10/19/2005	4 6893	4 69%	4 53%	1/2/1995	7 63%	12/26/1994	7 827
10/18/2005	4 6933	4 69%	4 53%	1/3/1995	7 63%	12/27/1994	7 76
10/17/2005	4 7142	4 71%	4 53%	1/4/1995	7 63%	12/28/1994	7 829
10/14/2005	4 7023	4 70%	4 53%	1/5/1995	7 64%	12/29/1994	7 838
10/13/2005	4 6915	4 69%	4 53%	1/6/1995	7 64%	12/30/1994	7 881
10/12/2005	4 6599	4 66%	4 53%	1/9/1995	7 64%	1/2/1995	7 879
10/11/2005	4 5973	4 60%	4 53%	1/10/1995	7 65%	1/3/1995	7 919
10/10/2005	4 5673	4 57%	4 53%	1/11/1995	7 65%	1/4/1995	7 851
10/7/2005	4 5645	4 56%	4 53%	1/12/1995	7 65%	1/5/1995	7 882
10/6/2005	4 6122	4 61%	4 53%	1/13/1995	7 66%	1/6/1995	7 86
10/5/2005	4 5647	4 56%	4 53%	1/16/1995	7 66%	1/9/1995	7 882
10/4/2005	4 6006	4 60%	4 53%	1/17/1995	7 66%	1/10/1995	7 869
10/3/2005	4 6211	4 62%	4 54%	1/18/1995	7 66%	1/11/1995	7 838
9/30/2005	4 5668	4 57%	4 54%	1/19/1995	7 67%	1/12/1995	7 881
9/29/2005	4 5448	4 54%	4 54%	1/20/1995	7 67%	1/13/1995	7 792
9/28/2005	4 5027	4 50%	4 54%	1/23/1995	7 67%	1/16/1995	7 792
9/27/2005	4 5381	4 54%	4 54%	1/24/1995	7 67%	1/17/1995	7 773
9/26/2005	4 5593	4 56%	4 54%	1/25/1995	7 68%	1/18/1995	7 773
9/23/2005	4 5191	4 52%	4 55%	1/26/1995	7 68%	1/19/1995	7 821

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
9/22/2005	4 4622	4 46%	4 55%	1/27/1995	7 68%	1/20/1995	7 891
9/21/2005	4 4566	4 46%	4 55%	1/30/1995	7 69%	1/23/1995	7 906
9/20/2005	4 5241	4 52%	4 55%	1/31/1995	7 69%	1/24/1995	7 925
9/19/2005	4 5462	4 55%	4 55%	2/1/1995	7 69%	1/25/1995	7 872
9/16/2005	4 5646	4 56%	4 55%	2/2/1995	7 69%	1/26/1995	7 843
9/15/2005	4 5148	4 51%	4 55%	2/3/1995	7 70%	1/27/1995	7 73
9/14/2005	4 4485	4 45%	4 56%	2/6/1995	7 70%	1/30/1995	7 753
9/13/2005	4 4148	4 41%	4 56%	2/7/1995	7 70%	1/31/1995	7 698
9/12/2005	4 4467	4 45%	4 56%	2/8/1995	7 70%	2/1/1995	7 746
9/9/2005	4 399	4 40%	4 56%	2/9/1995	7 70%	2/2/1995	7 741
9/8/2005	4 4319	4 43%	4 56%	2/10/1995	7 70%	2/3/1995	7 626
9/7/2005	4 4217	4 42%	4 57%	2/13/1995	7 70%	2/6/1995	7 642
9/6/2005	4 3584	4 36%	4 57%	2/14/1995	7 70%	2/7/1995	7 641
9/5/2005	4 2969	4 30%	4 57%	2/15/1995	7 70%	2/8/1995	7 642
9/2/2005	4 2961	4 30%	4 58%	2/16/1995	7 70%	2/9/1995	7 682
9/1/2005	4 3101	4 31%	4 58%	2/17/1995	7 70%	2/10/1995	7 668
8/31/2005	4 2537	4 25%	4 58%	2/20/1995	7 71%	2/13/1995	7 667
8/30/2005	4 3111	4 31%	4 59%	2/21/1995	7 71%	2/14/1995	7 61
8/29/2005	4 359	4 36%	4 59%	2/22/1995	7 71%	2/15/1995	7 556
8/26/2005	4 372	4 37%	4 59%	2/23/1995	7 71%	2/16/1995	7 571
8/25/2005	4 3648	4 36%	4 59%	2/24/1995	7 71%	2/17/1995	7 586
8/24/2005	4 3889	4 39%	4 60%	2/27/1995	7 71%	2/20/1995	7 59
8/23/2005	4 3983	4 40%	4 60%	2/28/1995	7 71%	2/21/1995	7 611
8/22/2005	4 4273	4 43%	4 60%	3/1/1995	7 71%	2/22/1995	7 537
8/19/2005	4 4189	4 42%	4 60%	3/2/1995	7 71%	2/23/1995	7 549
8/18/2005	4 4182	4 42%	4 60%	3/3/1995	7 71%	2/24/1995	7 528
8/17/2005	4 4755	4 48%	4 61%	3/6/1995	7 71%	2/27/1995	7 468
8/16/2005	4 4183	4 42%	4 61%	3/7/1995	7 71%	2/28/1995	7 443
8/15/2005	4 4804	4 48%	4 61%	3/8/1995	7 72%	3/1/1995	7 448
8/12/2005	4 4484	4 45%	4 61%	3/9/1995	7 72%	3/2/1995	7 487
8/11/2005	4 5138	4 51%	4 62%	3/10/1995	7 72%	3/3/1995	7 541
8/10/2005	4 5771	4 58%	4 62%	3/13/1995	7 72%	3/6/1995	7 587
8/9/2005	4 5723	4 57%	4 62%	3/14/1995	7 72%	3/7/1995	7 626
8/8/2005	4 5994	4 60%	4 62%	3/15/1995	7 72%	3/8/1995	7 544
8/5/2005	4 582	4 58%	4 62%	3/16/1995	7 72%	3/9/1995	7 51
8/4/2005	4 5207	4 52%	4 62%	3/17/1995	7 72%	3/10/1995	7 462
8/3/2005	4 4998	4 50%	4 63%	3/20/1995	7 72%	3/13/1995	7 451
8/2/2005	4 5437	4 54%	4 63%	3/21/1995	7 72%	3/14/1995	7 36
8/1/2005	4 5084	4 51%	4 63%	3/22/1995	7 72%	3/15/1995	7 359
7/29/2005	4 4706	4 47%	4 63%	3/23/1995	7 72%	3/16/1995	7 374
7/28/2005	4 3977	4 40%	4 63%	3/24/1995	7 72%	3/17/1995	7 367
7/27/2005	4 4689	4 47%	4 63%	3/27/1995	7 72%	3/20/1995	7 395
7/26/2005	4 4473	4 45%	4 63%	3/28/1995	7 72%	3/21/1995	7 445
7/25/2005	4 4661	4 47%	4 64%	3/29/1995	7 72%	3/22/1995	7 445
7/22/2005	4 4399	4 44%	4 64%	3/30/1995	7 72%	3/23/1995	7 444
7/21/2005	4 5003	4 50%	4 64%	3/31/1995	7 72%	3/24/1995	7 363
7/20/2005	4 3934	4 39%	4 64%	4/3/1995	7 72%	3/27/1995	7 32
7/19/2005	4 4232	4 42%	4 64%	4/4/1995	7 72%	3/28/1995	7 39
7/18/2005	4 4645	4 46%	4 65%	4/5/1995	7 72%	3/29/1995	7 375
7/15/2005	4 3963	4 40%	4 65%	4/6/1995	7 72%	3/30/1995	7 414
7/14/2005	4 4141	4 41%	4 65%	4/7/1995	7 71%	3/31/1995	7 431
7/13/2005	4 3947	4 39%	4 65%	4/10/1995	7 71%	4/3/1995	7 386
7/12/2005	4 3854	4 39%	4 66%	4/11/1995	7 71%	4/4/1995	7 378
7/11/2005	4 3394	4 34%	4 66%	4/12/1995	7 71%	4/5/1995	7 37
7/8/2005	4 3413	4 34%	4 66%	4/13/1995	7 71%	4/6/1995	7 347
7/7/2005	4 3186	4 32%	4 66%	4/14/1995	7 71%	4/7/1995	7 39
7/6/2005	4 3269	4 33%	4 67%	4/17/1995	7 71%	4/10/1995	7 392
7/5/2005	4 3617	4 36%	4 67%	4/18/1995	7 70%	4/11/1995	7 371
7/4/2005	4 2996	4 30%	4 67%	4/19/1995	7 70%	4/12/1995	7 353
7/1/2005	4 2942	4 29%	4 68%	4/20/1995	7 70%	4/13/1995	7 329
6/30/2005	4 1911	4 19%	4 68%	4/21/1995	7 70%	4/14/1995	7 335
6/29/2005	4 26	4 26%	4 68%	4/24/1995	7 70%	4/17/1995	7 374
6/28/2005	4 2475	4 25%	4 68%	4/25/1995	7 70%	4/18/1995	7 386
6/27/2005	4 1912	4 19%	4 69%	4/26/1995	7 70%	4/19/1995	7 363
6/24/2005	4 2207	4 22%	4 69%	4/27/1995	7 70%	4/20/1995	7 345
6/23/2005	4 2523	4 25%	4 69%	4/28/1995	7 70%	4/21/1995	7 333
6/22/2005	4 2424	4 24%	4 70%	5/1/1995	7 70%	4/24/1995	7 312
6/21/2005	4 3249	4 32%	4 70%	5/2/1995	7 69%	4/25/1995	7 322
6/20/2005	4 3874	4 39%	4 70%	5/3/1995	7 69%	4/26/1995	7 319
6/17/2005	4 3607	4 36%	4 71%	5/4/1995	7 69%	4/27/1995	7 336
6/16/2005	4 3673	4 37%	4 71%	5/5/1995	7 69%	4/28/1995	7 336
6/15/2005	4 4016	4 40%	4 71%	5/8/1995	7 69%	5/1/1995	7 344
6/14/2005	4 4137	4 41%	4 71%	5/9/1995	7 68%	5/2/1995	7 311
6/13/2005	4 373	4 37%	4 72%	5/10/1995	7 68%	5/3/1995	7 242
6/10/2005	4 3244	4 32%	4 72%	5/11/1995	7 68%	5/4/1995	7 163

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
6/9/2005	4 2315	4 23%	4 72%	5/12/1995	7 68%	5/5/1995	7 018
6/8/2005	4 22	4 22%	4 73%	5/15/1995	7 67%	5/8/1995	7 029
6/7/2005	4 1907	4 19%	4 73%	5/16/1995	7 67%	5/9/1995	6 943
6/6/2005	4 2434	4 24%	4 74%	5/17/1995	7 67%	5/10/1995	6 996
6/3/2005	4 2812	4 28%	4 74%	5/18/1995	7 66%	5/11/1995	6 993
6/2/2005	4 24	4 24%	4 74%	5/19/1995	7 66%	5/12/1995	6 989
6/1/2005	4 2365	4 24%	4 75%	5/22/1995	7 66%	5/15/1995	6 944
5/31/2005	4 3205	4 32%	4 75%	5/23/1995	7 66%	5/16/1995	6 861
5/30/2005	4 4292	4 43%	4 75%	5/24/1995	7 65%	5/17/1995	6 864
5/27/2005	4 4293	4 43%	4 76%	5/25/1995	7 65%	5/18/1995	6 894
5/26/2005	4 4276	4 43%	4 76%	5/26/1995	7 64%	5/19/1995	6 917
5/25/2005	4 4323	4 43%	4 76%	5/29/1995	7 64%	5/22/1995	6 916
5/24/2005	4 3584	4 36%	4 77%	5/30/1995	7 64%	5/23/1995	6 862
5/23/2005	4 3796	4 38%	4 77%	5/31/1995	7 63%	5/24/1995	6 744
5/20/2005	4 4381	4 44%	4 77%	6/1/1995	7 63%	5/25/1995	6 718
5/19/2005	4 4429	4 44%	4 78%	6/2/1995	7 62%	5/26/1995	6 748
5/18/2005	4 4392	4 44%	4 78%	6/5/1995	7 62%	5/29/1995	6 752
5/17/2005	4 4729	4 47%	4 78%	6/6/1995	7 61%	5/30/1995	6 66
5/16/2005	4 4956	4 50%	4 79%	6/7/1995	7 61%	5/31/1995	6 649
5/13/2005	4 4805	4 48%	4 79%	6/8/1995	7 60%	6/1/1995	6 62
5/12/2005	4 5146	4 51%	4 79%	6/9/1995	7 60%	6/2/1995	6 529
5/11/2005	4 5451	4 55%	4 79%	6/12/1995	7 60%	6/5/1995	6 516
5/10/2005	4 568	4 57%	4 80%	6/13/1995	7 59%	6/6/1995	6 506
5/9/2005	4 6239	4 62%	4 80%	6/14/1995	7 59%	6/7/1995	6 548
5/6/2005	4 6278	4 63%	4 80%	6/15/1995	7 58%	6/8/1995	6 608
5/5/2005	4 5769	4 58%	4 81%	6/16/1995	7 57%	6/9/1995	6 726
5/4/2005	4 5903	4 59%	4 81%	6/19/1995	7 57%	6/12/1995	6 703
5/3/2005	4 482	4 48%	4 81%	6/20/1995	7 56%	6/13/1995	6 549
5/2/2005	4 5132	4 51%	4 82%	6/21/1995	7 56%	6/14/1995	6 572
4/29/2005	4 5133	4 51%	4 82%	6/22/1995	7 55%	6/15/1995	6 604
4/28/2005	4 4851	4 49%	4 82%	6/23/1995	7 55%	6/16/1995	6 615
4/27/2005	4 5476	4 55%	4 83%	6/26/1995	7 54%	6/19/1995	6 571
4/26/2005	4 5715	4 57%	4 83%	6/27/1995	7 53%	6/20/1995	6 584
4/25/2005	4 5534	4 55%	4 83%	6/28/1995	7 53%	6/21/1995	6 548
4/22/2005	4 5793	4 58%	4 84%	6/29/1995	7 52%	6/22/1995	6 468
4/21/2005	4 6363	4 64%	4 84%	6/30/1995	7 51%	6/23/1995	6 5
4/20/2005	4 5479	4 55%	4 84%	7/3/1995	7 51%	6/26/1995	6 549
4/19/2005	4 5423	4 54%	4 84%	7/4/1995	7 50%	6/27/1995	6 55
4/18/2005	4 6093	4 61%	4 85%	7/5/1995	7 50%	6/28/1995	6 509
4/15/2005	4 6084	4 61%	4 85%	7/6/1995	7 49%	6/29/1995	6 642
4/14/2005	4 6804	4 68%	4 85%	7/7/1995	7 48%	6/30/1995	6 617
4/13/2005	4 6814	4 68%	4 86%	7/10/1995	7 48%	7/3/1995	6 632
4/12/2005	4 658	4 66%	4 86%	7/11/1995	7 47%	7/4/1995	6 634
4/11/2005	4 7237	4 72%	4 86%	7/12/1995	7 46%	7/5/1995	6 603
4/8/2005	4 7683	4 77%	4 86%	7/13/1995	7 46%	7/6/1995	6 507
4/7/2005	4 7944	4 79%	4 87%	7/14/1995	7 45%	7/7/1995	6 524
4/6/2005	4 7337	4 73%	4 87%	7/17/1995	7 44%	7/10/1995	6 519
4/5/2005	4 7516	4 75%	4 87%	7/18/1995	7 44%	7/11/1995	6 581
4/4/2005	4 7348	4 73%	4 87%	7/19/1995	7 43%	7/12/1995	6 543
4/1/2005	4 721	4 72%	4 88%	7/20/1995	7 43%	7/13/1995	6 555
3/31/2005	4 7548	4 75%	4 88%	7/21/1995	7 42%	7/14/1995	6 604
3/30/2005	4 7976	4 80%	4 88%	7/24/1995	7 42%	7/17/1995	6 676
3/29/2005	4 8409	4 84%	4 89%	7/25/1995	7 41%	7/18/1995	6 758
3/28/2005	4 8886	4 89%	4 89%	7/26/1995	7 41%	7/19/1995	6 861
3/25/2005	4 844	4 84%	4 89%	7/27/1995	7 40%	7/20/1995	6 863
3/24/2005	4 844	4 84%	4 89%	7/28/1995	7 40%	7/21/1995	6 962
3/23/2005	4 8502	4 85%	4 90%	7/31/1995	7 39%	7/24/1995	6 879
3/22/2005	4 9051	4 91%	4 90%	8/1/1995	7 38%	7/25/1995	6 822
3/21/2005	4 8351	4 84%	4 90%	8/2/1995	7 38%	7/26/1995	6 881
3/18/2005	4 81	4 81%	4 91%	8/3/1995	7 37%	7/27/1995	6 844
3/17/2005	4 7662	4 77%	4 91%	8/4/1995	7 37%	7/28/1995	6 9
3/16/2005	4 7941	4 79%	4 91%	8/7/1995	7 36%	7/31/1995	6 846
3/15/2005	4 8253	4 83%	4 92%	8/8/1995	7 36%	8/1/1995	6 898
3/14/2005	4 7793	4 78%	4 92%	8/9/1995	7 35%	8/2/1995	6 859
3/11/2005	4 8093	4 81%	4 92%	8/10/1995	7 34%	8/3/1995	6 931
3/10/2005	4 7635	4 76%	4 93%	8/11/1995	7 34%	8/4/1995	6 908
3/9/2005	4 8305	4 83%	4 93%	8/14/1995	7 33%	8/7/1995	6 89
3/8/2005	4 7073	4 71%	4 93%	8/15/1995	7 33%	8/8/1995	6 886
3/7/2005	4 6237	4 62%	4 94%	8/16/1995	7 32%	8/9/1995	6 919
3/4/2005	4 6489	4 65%	4 94%	8/17/1995	7 31%	8/10/1995	6 953
3/3/2005	4 7381	4 74%	4 94%	8/18/1995	7 31%	8/11/1995	6 99
3/2/2005	4 7341	4 73%	4 95%	8/21/1995	7 30%	8/14/1995	6 954
3/1/2005	4 7145	4 71%	4 95%	8/22/1995	7 30%	8/15/1995	6 894
2/28/2005	4 7195	4 72%	4 95%	8/23/1995	7 29%	8/16/1995	6 886
2/25/2005	4 6386	4 64%	4 96%	8/24/1995	7 28%	8/17/1995	6 899

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
2/24/2005	4 6688	4 67%	4 96%	8/25/1995	7 28%	8/18/1995	6 897
2/23/2005	4 6523	4 65%	4 96%	8/28/1995	7 27%	8/21/1995	6 871
2/22/2005	4 6854	4 69%	4 97%	8/29/1995	7 26%	8/22/1995	6 885
2/21/2005	4 6446	4 64%	4 97%	8/30/1995	7 26%	8/23/1995	6 908
2/18/2005	4 6495	4 65%	4 98%	8/31/1995	7 25%	8/24/1995	6 814
2/17/2005	4 5738	4 57%	4 98%	9/1/1995	7 24%	8/25/1995	6 704
2/16/2005	4 5179	4 52%	4 98%	9/4/1995	7 24%	8/28/1995	6 702
2/15/2005	4 4851	4 49%	4 99%	9/5/1995	7 23%	8/29/1995	6 714
2/14/2005	4 4488	4 45%	4 99%	9/6/1995	7 22%	8/30/1995	6 698
2/11/2005	4 4805	4 48%	5 00%	9/7/1995	7 21%	8/31/1995	6 647
2/10/2005	4 4732	4 47%	5 00%	9/8/1995	7 21%	9/1/1995	6 616
2/9/2005	4 3689	4 37%	5 01%	9/11/1995	7 20%	9/4/1995	6 61
2/8/2005	4 3735	4 37%	5 01%	9/12/1995	7 19%	9/5/1995	6 566
2/7/2005	4 4222	4 42%	5 02%	9/13/1995	7 19%	9/6/1995	6 593
2/4/2005	4 4817	4 48%	5 02%	9/14/1995	7 18%	9/7/1995	6 599
2/3/2005	4 581	4 58%	5 03%	9/15/1995	7 17%	9/8/1995	6 587
2/2/2005	4 5791	4 58%	5 03%	9/18/1995	7 17%	9/11/1995	6 588
2/1/2005	4 5944	4 59%	5 04%	9/19/1995	7 16%	9/12/1995	6 501
1/31/2005	4 5849	4 58%	5 04%	9/20/1995	7 15%	9/13/1995	6 521
1/28/2005	4 6079	4 61%	5 04%	9/21/1995	7 15%	9/14/1995	6 467
1/27/2005	4 6843	4 68%	5 04%	9/22/1995	7 14%	9/15/1995	6 479
1/26/2005	4 6668	4 67%	5 05%	9/25/1995	7 13%	9/18/1995	6 53
1/25/2005	4 6814	4 68%	5 05%	9/26/1995	7 13%	9/19/1995	6 485
1/24/2005	4 6004	4 60%	5 05%	9/27/1995	7 12%	9/20/1995	6 469
1/21/2005	4 6427	4 64%	5 06%	9/28/1995	7 11%	9/21/1995	6 556
1/20/2005	4 6563	4 66%	5 06%	9/29/1995	7 11%	9/22/1995	6 584
1/19/2005	4 6554	4 66%	5 06%	10/2/1995	7 10%	9/25/1995	6 58
1/18/2005	4 6787	4 68%	5 06%	10/3/1995	7 09%	9/26/1995	6 575
1/17/2005	4 7256	4 73%	5 07%	10/4/1995	7 09%	9/27/1995	6 577
1/14/2005	4 7276	4 73%	5 07%	10/5/1995	7 08%	9/28/1995	6 586
1/13/2005	4 6896	4 69%	5 07%	10/6/1995	7 07%	9/29/1995	6 501
1/12/2005	4 7672	4 77%	5 07%	10/9/1995	7 07%	10/2/1995	6 476
1/11/2005	4 7801	4 78%	5 07%	10/10/1995	7 06%	10/3/1995	6 455
1/10/2005	4 817	4 82%	5 08%	10/11/1995	7 05%	10/4/1995	6 431
1/7/2005	4 835	4 84%	5 08%	10/12/1995	7 04%	10/5/1995	6 417
1/6/2005	4 8451	4 85%	5 08%	10/13/1995	7 04%	10/6/1995	6 42
1/5/2005	4 8472	4 85%	5 08%	10/16/1995	7 03%	10/9/1995	6 419
1/4/2005	4 8856	4 89%	5 08%	10/17/1995	7 02%	10/10/1995	6 441
1/3/2005	4 8121	4 81%	5 08%	10/18/1995	7 01%	10/11/1995	6 433
12/31/2004	4 8261	4 83%	5 08%	10/19/1995	7 00%	10/12/1995	6 386
12/30/2004	4 8725	4 87%	5 08%	10/20/1995	7 00%	10/13/1995	6 304
12/29/2004	4 9428	4 94%	5 08%	10/23/1995	6 99%	10/16/1995	6 304
12/28/2004	4 9152	4 92%	5 07%	10/24/1995	6 98%	10/17/1995	6 284
12/27/2004	4 9192	4 92%	5 07%	10/25/1995	6 98%	10/18/1995	6 33
12/24/2004	4 8443	4 84%	5 07%	10/26/1995	6 97%	10/19/1995	6 306
12/23/2004	4 8423	4 84%	5 07%	10/27/1995	6 96%	10/20/1995	6 361
12/22/2004	4 8274	4 83%	5 07%	10/30/1995	6 95%	10/23/1995	6 393
12/21/2004	4 7955	4 80%	5 07%	10/31/1995	6 94%	10/24/1995	6 326
12/20/2004	4 8114	4 81%	5 07%	11/1/1995	6 94%	10/25/1995	6 324
12/17/2004	4 8265	4 83%	5 07%	11/2/1995	6 93%	10/26/1995	6 392
12/16/2004	4 8245	4 82%	5 07%	11/3/1995	6 92%	10/27/1995	6 355
12/15/2004	4 7109	4 71%	5 07%	11/6/1995	6 92%	10/30/1995	6 353
12/14/2004	4 7689	4 77%	5 07%	11/7/1995	6 91%	10/31/1995	6 328
12/13/2004	4 8036	4 80%	5 07%	11/8/1995	6 90%	11/1/1995	6 297
12/10/2004	4 8176	4 82%	5 07%	11/9/1995	6 89%	11/2/1995	6 244
12/9/2004	4 8327	4 83%	5 07%	11/10/1995	6 89%	11/3/1995	6 283
12/8/2004	4 7829	4 78%	5 07%	11/13/1995	6 88%	11/6/1995	6 293
12/7/2004	4 8871	4 89%	5 07%	11/14/1995	6 87%	11/7/1995	6 308
12/6/2004	4 8922	4 89%	5 07%	11/15/1995	6 87%	11/8/1995	6 254
12/3/2004	4 9268	4 93%	5 07%	11/16/1995	6 86%	11/9/1995	6 283
12/2/2004	5 0614	5 06%	5 07%	11/17/1995	6 85%	11/10/1995	6 337
12/1/2004	5 0113	5 01%	5 06%	11/20/1995	6 85%	11/13/1995	6 277
11/30/2004	5 002	5 00%	5 06%	11/21/1995	6 84%	11/14/1995	6 285
11/29/2004	4 9638	4 96%	5 06%	11/22/1995	6 83%	11/15/1995	6 291
11/26/2004	4 8853	4 89%	5 06%	11/23/1995	6 83%	11/16/1995	6 223
11/25/2004	4 839	4 84%	5 06%	11/24/1995	6 82%	11/17/1995	6 232
11/24/2004	4 8431	4 84%	5 06%	11/27/1995	6 81%	11/20/1995	6 246
11/23/2004	4 8361	4 84%	5 06%	11/28/1995	6 81%	11/21/1995	6 266
11/22/2004	4 8421	4 84%	5 06%	11/29/1995	6 80%	11/22/1995	6 281
11/19/2004	4 8844	4 88%	5 06%	11/30/1995	6 79%	11/23/1995	6 278
11/18/2004	4 8063	4 81%	5 06%	12/1/1995	6 78%	11/24/1995	6 249
11/17/2004	4 8402	4 84%	5 07%	12/4/1995	6 78%	11/27/1995	6 222
11/16/2004	4 9008	4 90%	5 07%	12/5/1995	6 77%	11/28/1995	6 228
11/15/2004	4 8957	4 90%	5 07%	12/6/1995	6 76%	11/29/1995	6 197
11/12/2004	4 8967	4 90%	5 07%	12/7/1995	6 76%	11/30/1995	6 131

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
11/11/2004	4 9672	4 97%	5 07%	12/8/1995	6 75%	12/1/1995	6 086
11/10/2004	4 958	4 96%	5 07%	12/11/1995	6 74%	12/4/1995	6 026
11/9/2004	4 9437	4 94%	5 07%	12/12/1995	6 73%	12/5/1995	6 05
11/8/2004	4 9315	4 93%	5 07%	12/13/1995	6 73%	12/6/1995	6 032
11/5/2004	4 8969	4 90%	5 07%	12/14/1995	6 72%	12/7/1995	6 077
11/4/2004	4 8146	4 81%	5 07%	12/15/1995	6 71%	12/8/1995	6 053
11/3/2004	4 8256	4 83%	5 07%	12/18/1995	6 71%	12/11/1995	6 046
11/2/2004	4 8127	4 81%	5 07%	12/19/1995	6 70%	12/12/1995	6 051
11/1/2004	4 8357	4 84%	5 07%	12/20/1995	6 69%	12/13/1995	6 082
10/29/2004	4 7889	4 79%	5 07%	12/21/1995	6 69%	12/14/1995	6 086
10/28/2004	4 8168	4 82%	5 07%	12/22/1995	6 68%	12/15/1995	6 097
10/27/2004	4 8438	4 84%	5 07%	12/25/1995	6 67%	12/18/1995	6 2
10/26/2004	4 7733	4 77%	5 07%	12/26/1995	6 67%	12/19/1995	6 114
10/25/2004	4 7526	4 75%	5 07%	12/27/1995	6 66%	12/20/1995	6 123
10/22/2004	4 7605	4 76%	5 07%	12/28/1995	6 65%	12/21/1995	6 088
10/21/2004	4 7695	4 77%	5 07%	12/29/1995	6 65%	12/22/1995	6 063
10/20/2004	4 7725	4 77%	5 07%	1/1/1996	6 64%	12/25/1995	6 066
10/19/2004	4 8151	4 82%	5 07%	1/2/1996	6 63%	12/26/1995	6 039
10/18/2004	4 8381	4 84%	5 07%	1/3/1996	6 62%	12/27/1995	6 009
10/15/2004	4 8451	4 85%	5 07%	1/4/1996	6 62%	12/28/1995	5 984
10/14/2004	4 8222	4 82%	5 08%	1/5/1996	6 61%	12/29/1995	5 948
10/13/2004	4 8683	4 87%	5 08%	1/8/1996	6 60%	1/1/1996	5 95
10/12/2004	4 8784	4 88%	5 08%	1/9/1996	6 60%	1/2/1996	5 962
10/11/2004	4 8986	4 90%	5 08%	1/10/1996	6 59%	1/3/1996	5 957
10/8/2004	4 9067	4 91%	5 08%	1/11/1996	6 58%	1/4/1996	6 032
10/7/2004	4 9948	4 99%	5 08%	1/12/1996	6 58%	1/5/1996	6 044
10/6/2004	4 968	4 97%	5 08%	1/15/1996	6 57%	1/8/1996	6 043
10/5/2004	4 9313	4 93%	5 08%	1/16/1996	6 57%	1/9/1996	6 112
10/4/2004	4 9272	4 93%	5 08%	1/17/1996	6 56%	1/10/1996	6 182
10/1/2004	4 9436	4 94%	5 08%	1/18/1996	6 55%	1/11/1996	6 149
9/30/2004	4 8919	4 89%	5 08%	1/19/1996	6 55%	1/12/1996	6 147
9/29/2004	4 8657	4 87%	5 08%	1/22/1996	6 54%	1/15/1996	6 148
9/28/2004	4 7979	4 80%	5 09%	1/23/1996	6 53%	1/16/1996	6 057
9/27/2004	4 7683	4 77%	5 09%	1/24/1996	6 53%	1/17/1996	6 01
9/24/2004	4 798	4 80%	5 09%	1/25/1996	6 52%	1/18/1996	5 985
9/23/2004	4 7902	4 79%	5 09%	1/26/1996	6 51%	1/19/1996	5 973
9/22/2004	4 7734	4 77%	5 09%	1/29/1996	6 51%	1/22/1996	6 043
9/21/2004	4 8379	4 84%	5 09%	1/30/1996	6 50%	1/23/1996	6 093
9/20/2004	4 866	4 87%	5 09%	1/31/1996	6 49%	1/24/1996	6 036
9/17/2004	4 9095	4 91%	5 09%	2/1/1996	6 49%	1/25/1996	6 113
9/16/2004	4 8731	4 87%	5 09%	2/2/1996	6 48%	1/26/1996	6 044
9/15/2004	4 9594	4 96%	5 09%	2/5/1996	6 48%	1/29/1996	6 093
9/14/2004	4 9329	4 93%	5 09%	2/6/1996	6 47%	1/30/1996	6 036
9/13/2004	4 941	4 94%	5 10%	2/7/1996	6 47%	1/31/1996	6 028
9/10/2004	4 9841	4 98%	5 10%	2/8/1996	6 46%	2/1/1996	6 07
9/9/2004	4 9883	4 99%	5 10%	2/9/1996	6 46%	2/2/1996	6 163
9/8/2004	4 9534	4 95%	5 10%	2/12/1996	6 45%	2/5/1996	6 158
9/7/2004	5 0089	5 01%	5 10%	2/13/1996	6 45%	2/6/1996	6 13
9/6/2004	5 0598	5 06%	5 10%	2/14/1996	6 44%	2/7/1996	6 155
9/3/2004	5 0578	5 06%	5 10%	2/15/1996	6 44%	2/8/1996	6 147
9/2/2004	5 0008	5 00%	5 10%	2/16/1996	6 43%	2/9/1996	6 098
9/1/2004	4 9251	4 93%	5 10%	2/19/1996	6 43%	2/12/1996	6 034
8/31/2004	4 9272	4 93%	5 10%	2/20/1996	6 43%	2/13/1996	6 03
8/30/2004	4 9803	4 98%	5 10%	2/21/1996	6 43%	2/14/1996	6 089
8/27/2004	5 0195	5 02%	5 10%	2/22/1996	6 42%	2/15/1996	6 167
8/26/2004	5 0082	5 01%	5 10%	2/23/1996	6 42%	2/16/1996	6 243
8/25/2004	5 0477	5 05%	5 10%	2/26/1996	6 42%	2/19/1996	6 239
8/24/2004	5 0633	5 06%	5 10%	2/27/1996	6 42%	2/20/1996	6 395
8/23/2004	5 0738	5 07%	5 10%	2/28/1996	6 42%	2/21/1996	6 371
8/20/2004	5 0239	5 02%	5 10%	2/29/1996	6 41%	2/22/1996	6 343
8/19/2004	5 026	5 03%	5 10%	3/1/1996	6 41%	2/23/1996	6 405
8/18/2004	5 0374	5 04%	5 10%	3/4/1996	6 41%	2/26/1996	6 454
8/17/2004	5 0033	5 00%	5 10%	3/5/1996	6 41%	2/27/1996	6 476
8/16/2004	5 05	5 05%	5 10%	3/6/1996	6 41%	2/28/1996	6 473
8/13/2004	5 0168	5 02%	5 11%	3/7/1996	6 41%	2/29/1996	6 469
8/12/2004	5 048	5 05%	5 11%	3/8/1996	6 41%	3/1/1996	6 367
8/11/2004	5 0553	5 06%	5 11%	3/11/1996	6 41%	3/4/1996	6 333
8/10/2004	5 0667	5 07%	5 11%	3/12/1996	6 41%	3/5/1996	6 382
8/9/2004	5 0584	5 06%	5 11%	3/13/1996	6 41%	3/6/1996	6 453
8/6/2004	5 0355	5 04%	5 11%	3/14/1996	6 41%	3/7/1996	6 459
8/5/2004	5 1531	5 15%	5 11%	3/15/1996	6 41%	3/8/1996	6 711
8/4/2004	5 1648	5 16%	5 11%	3/18/1996	6 41%	3/11/1996	6 636
8/3/2004	5 1669	5 17%	5 11%	3/19/1996	6 41%	3/12/1996	6 665
8/2/2004	5 1883	5 19%	5 11%	3/20/1996	6 41%	3/13/1996	6 68
7/30/2004	5 1969	5 20%	5 11%	3/21/1996	6 41%	3/14/1996	6 689

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
7/29/2004	5 2943	5 29%	5 11%	3/22/1996	6 41%	3/15/1996	6 739
7/28/2004	5 3118	5 31%	5 11%	3/25/1996	6 41%	3/18/1996	6 705
7/27/2004	5 3173	5 32%	5 11%	3/26/1996	6 41%	3/19/1996	6 715
7/26/2004	5 2097	5 21%	5 11%	3/27/1996	6 41%	3/20/1996	6 634
7/23/2004	5 1659	5 17%	5 11%	3/28/1996	6 42%	3/21/1996	6 62
7/22/2004	5 1861	5 19%	5 11%	3/29/1996	6 42%	3/22/1996	6 655
7/21/2004	5 1979	5 20%	5 11%	4/1/1996	6 42%	3/25/1996	6 58
7/20/2004	5 1733	5 17%	5 11%	4/2/1996	6 42%	3/26/1996	6 579
7/19/2004	5 1098	5 11%	5 11%	4/3/1996	6 42%	3/27/1996	6 679
7/16/2004	5 115	5 12%	5 11%	4/4/1996	6 42%	3/28/1996	6 723
7/15/2004	5 2119	5 21%	5 11%	4/5/1996	6 42%	3/29/1996	6 667
7/14/2004	5 2172	5 22%	5 11%	4/8/1996	6 42%	4/1/1996	6 631
7/13/2004	5 2097	5 21%	5 11%	4/9/1996	6 42%	4/2/1996	6 597
7/12/2004	5 1979	5 20%	5 11%	4/10/1996	6 42%	4/3/1996	6 625
7/9/2004	5 2065	5 21%	5 11%	4/11/1996	6 43%	4/4/1996	6 67
7/8/2004	5 2226	5 22%	5 11%	4/12/1996	6 43%	4/5/1996	6 824
7/7/2004	5 2237	5 22%	5 11%	4/15/1996	6 43%	4/8/1996	6 87
7/6/2004	5 2183	5 22%	5 11%	4/16/1996	6 43%	4/9/1996	6 832
7/5/2004	5 2054	5 21%	5 10%	4/17/1996	6 43%	4/10/1996	6 947
7/2/2004	5 2054	5 21%	5 10%	4/18/1996	6 43%	4/11/1996	6 935
7/1/2004	5 2865	5 29%	5 10%	4/19/1996	6 43%	4/12/1996	6 802
6/30/2004	5 2876	5 29%	5 10%	4/22/1996	6 43%	4/15/1996	6 79
6/29/2004	5 3645	5 36%	5 10%	4/23/1996	6 43%	4/16/1996	6 792
6/28/2004	5 4079	5 41%	5 10%	4/24/1996	6 43%	4/17/1996	6 806
6/25/2004	5 3347	5 33%	5 10%	4/25/1996	6 43%	4/18/1996	6 829
6/24/2004	5 3369	5 34%	5 09%	4/26/1996	6 43%	4/19/1996	6 786
6/23/2004	5 3823	5 38%	5 09%	4/29/1996	6 43%	4/22/1996	6 75
6/22/2004	5 4045	5 40%	5 09%	4/30/1996	6 43%	4/23/1996	6 779
6/21/2004	5 3678	5 37%	5 09%	5/1/1996	6 43%	4/24/1996	6 822
6/18/2004	5 3767	5 38%	5 09%	5/2/1996	6 43%	4/25/1996	6 795
6/17/2004	5 3501	5 35%	5 09%	5/3/1996	6 43%	4/26/1996	6 789
6/16/2004	5 4	5 40%	5 09%	5/6/1996	6 43%	4/29/1996	6 836
6/15/2004	5 3634	5 36%	5 09%	5/7/1996	6 43%	4/30/1996	6 906
6/14/2004	5 53	5 53%	5 09%	5/8/1996	6 43%	5/1/1996	6 91
6/11/2004	5 4742	5 47%	5 08%	5/9/1996	6 44%	5/2/1996	7 059
6/10/2004	5 4685	5 47%	5 08%	5/10/1996	6 44%	5/3/1996	7 117
6/9/2004	5 4798	5 48%	5 08%	5/13/1996	6 44%	5/6/1996	7 059
6/8/2004	5 4482	5 45%	5 08%	5/14/1996	6 43%	5/7/1996	7 078
6/7/2004	5 4527	5 45%	5 08%	5/15/1996	6 43%	5/8/1996	6 96
6/4/2004	5 4572	5 46%	5 08%	5/16/1996	6 43%	5/9/1996	7 017
6/3/2004	5 4145	5 41%	5 08%	5/17/1996	6 43%	5/10/1996	6 928
6/2/2004	5 4268	5 43%	5 08%	5/20/1996	6 43%	5/13/1996	6 897
6/1/2004	5 3955	5 40%	5 08%	5/21/1996	6 43%	5/14/1996	6 845
5/31/2004	5 3446	5 34%	5 08%	5/22/1996	6 43%	5/15/1996	6 845
5/28/2004	5 3445	5 34%	5 08%	5/23/1996	6 43%	5/16/1996	6 913
5/27/2004	5 3149	5 31%	5 08%	5/24/1996	6 43%	5/17/1996	6 833
5/26/2004	5 3644	5 36%	5 07%	5/27/1996	6 43%	5/20/1996	6 837
5/25/2004	5 41	5 41%	5 07%	5/28/1996	6 43%	5/21/1996	6 85
5/24/2004	5 4323	5 43%	5 07%	5/29/1996	6 43%	5/22/1996	6 815
5/21/2004	5 4582	5 46%	5 07%	5/30/1996	6 43%	5/23/1996	6 859
5/20/2004	5 4189	5 42%	5 07%	5/31/1996	6 43%	5/24/1996	6 834
5/19/2004	5 4762	5 48%	5 07%	6/3/1996	6 44%	5/27/1996	6 836
5/18/2004	5 4537	5 45%	5 07%	6/4/1996	6 44%	5/28/1996	6 855
5/17/2004	5 4222	5 42%	5 07%	6/5/1996	6 44%	5/29/1996	6 941
5/14/2004	5 4853	5 49%	5 07%	6/6/1996	6 44%	5/30/1996	6 932
5/13/2004	5 5606	5 56%	5 07%	6/7/1996	6 44%	5/31/1996	6 989
5/12/2004	5 5217	5 52%	5 07%	6/10/1996	6 45%	6/3/1996	7 008
5/11/2004	5 4525	5 45%	5 07%	6/11/1996	6 45%	6/4/1996	7 001
5/10/2004	5 4909	5 49%	5 07%	6/12/1996	6 45%	6/5/1996	6 948
5/7/2004	5 466	5 47%	5 07%	6/13/1996	6 45%	6/6/1996	6 896
5/6/2004	5 3666	5 37%	5 06%	6/14/1996	6 46%	6/7/1996	7 031
5/5/2004	5 3567	5 36%	5 06%	6/17/1996	6 46%	6/10/1996	7 127
5/4/2004	5 3435	5 34%	5 06%	6/18/1996	6 46%	6/11/1996	7 123
5/3/2004	5 2779	5 28%	5 06%	6/19/1996	6 47%	6/12/1996	7 192
4/30/2004	5 2844	5 28%	5 06%	6/20/1996	6 47%	6/13/1996	7 129
4/29/2004	5 3139	5 31%	5 06%	6/21/1996	6 47%	6/14/1996	7 089
4/28/2004	5 2856	5 29%	5 06%	6/24/1996	6 47%	6/17/1996	7 071
4/27/2004	5 1994	5 20%	5 06%	6/25/1996	6 48%	6/18/1996	7 103
4/26/2004	5 2272	5 23%	5 06%	6/26/1996	6 48%	6/19/1996	7 108
4/23/2004	5 2391	5 24%	5 06%	6/27/1996	6 48%	6/20/1996	7 109
4/22/2004	5 1941	5 19%	5 06%	6/28/1996	6 48%	6/21/1996	7 096
4/21/2004	5 2262	5 23%	5 06%	7/1/1996	6 49%	6/24/1996	7 088
4/20/2004	5 2607	5 26%	5 06%	7/2/1996	6 49%	6/25/1996	7 046
4/19/2004	5 2091	5 21%	5 05%	7/3/1996	6 49%	6/26/1996	7 041
4/16/2004	5 1687	5 17%	5 05%	7/4/1996	6 49%	6/27/1996	6 992

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
4/15/2004	5 2092	5 21%	5 05%	7/5/1996	6 49%	6/28/1996	6 871
4/14/2004	5 1592	5 16%	5 05%	7/8/1996	6 50%	7/1/1996	6 911
4/13/2004	5 155	5 16%	5 05%	7/9/1996	6 50%	7/2/1996	6 939
4/12/2004	5 0597	5 06%	5 04%	7/10/1996	6 50%	7/3/1996	6 936
4/9/2004	5 0277	5 03%	5 04%	7/11/1996	6 51%	7/4/1996	6 933
4/8/2004	5 0278	5 03%	5 04%	7/12/1996	6 51%	7/5/1996	7 192
4/7/2004	5 0042	5 00%	5 04%	7/15/1996	6 51%	7/8/1996	7 181
4/6/2004	4 9971	5 00%	5 04%	7/16/1996	6 52%	7/9/1996	7 13
4/5/2004	5 0413	5 04%	5 03%	7/17/1996	6 52%	7/10/1996	7 077
4/2/2004	4 9777	4 98%	5 03%	7/18/1996	6 52%	7/11/1996	7 058
4/1/2004	4 8009	4 80%	5 03%	7/19/1996	6 53%	7/12/1996	7 03
3/31/2004	4 7716	4 77%	5 03%	7/22/1996	6 53%	7/15/1996	7 073
3/30/2004	4 8128	4 81%	5 03%	7/23/1996	6 53%	7/16/1996	7 03
3/29/2004	4 8099	4 81%	5 03%	7/24/1996	6 54%	7/17/1996	7 03
3/26/2004	4 761	4 76%	5 02%	7/25/1996	6 54%	7/18/1996	6 931
3/25/2004	4 6916	4 69%	5 02%	7/26/1996	6 54%	7/19/1996	6 974
3/24/2004	4 6582	4 66%	5 02%	7/29/1996	6 55%	7/22/1996	7 008
3/23/2004	4 6516	4 65%	5 02%	7/30/1996	6 55%	7/23/1996	6 975
3/22/2004	4 664	4 66%	5 02%	7/31/1996	6 55%	7/24/1996	7 043
3/19/2004	4 7042	4 70%	5 02%	8/1/1996	6 56%	7/25/1996	7 01
3/18/2004	4 6996	4 70%	5 01%	8/2/1996	6 56%	7/26/1996	7 008
3/17/2004	4 6642	4 66%	5 01%	8/5/1996	6 56%	7/29/1996	7 095
3/16/2004	4 6424	4 64%	5 01%	8/6/1996	6 56%	7/30/1996	7 036
3/15/2004	4 7054	4 71%	5 01%	8/7/1996	6 57%	7/31/1996	6 97
3/12/2004	4 717	4 72%	5 01%	8/8/1996	6 57%	8/1/1996	6 837
3/11/2004	4 6645	4 66%	5 00%	8/9/1996	6 57%	8/2/1996	6 743
3/10/2004	4 6693	4 67%	5 00%	8/12/1996	6 57%	8/5/1996	6 769
3/9/2004	4 6693	4 67%	5 00%	8/13/1996	6 58%	8/6/1996	6 76
3/8/2004	4 7076	4 71%	5 00%	8/14/1996	6 58%	8/7/1996	6 773
3/5/2004	4 7628	4 76%	5 00%	8/15/1996	6 58%	8/8/1996	6 785
3/4/2004	4 8769	4 88%	5 00%	8/16/1996	6 58%	8/9/1996	6 69
3/3/2004	4 9029	4 90%	4 99%	8/19/1996	6 59%	8/12/1996	6 693
3/2/2004	4 901	4 90%	4 99%	8/20/1996	6 59%	8/13/1996	6 792
3/1/2004	4 8384	4 84%	4 99%	8/21/1996	6 59%	8/14/1996	6 788
2/27/2004	4 8374	4 84%	4 99%	8/22/1996	6 59%	8/15/1996	6 804
2/26/2004	4 9051	4 91%	4 98%	8/23/1996	6 60%	8/16/1996	6 768
2/25/2004	4 8862	4 89%	4 98%	8/26/1996	6 60%	8/19/1996	6 795
2/24/2004	4 8962	4 90%	4 98%	8/27/1996	6 60%	8/20/1996	6 796
2/23/2004	4 9012	4 90%	4 97%	8/28/1996	6 61%	8/21/1996	6 836
2/20/2004	4 9525	4 95%	4 97%	8/29/1996	6 61%	8/22/1996	6 841
2/19/2004	4 8944	4 89%	4 97%	8/30/1996	6 62%	8/23/1996	6 955
2/18/2004	4 9104	4 91%	4 97%	9/2/1996	6 62%	8/26/1996	6 997
2/17/2004	4 9114	4 91%	4 96%	9/3/1996	6 63%	8/27/1996	6 97
2/16/2004	4 9164	4 92%	4 96%	9/4/1996	6 63%	8/28/1996	6 977
2/13/2004	4 9165	4 92%	4 96%	9/5/1996	6 64%	8/29/1996	7 038
2/12/2004	4 9266	4 93%	4 96%	9/6/1996	6 64%	8/30/1996	7 118
2/11/2004	4 8995	4 90%	4 96%	9/9/1996	6 65%	9/2/1996	7 115
2/10/2004	4 9498	4 95%	4 96%	9/10/1996	6 65%	9/3/1996	7 053
2/9/2004	4 8996	4 90%	4 96%	9/11/1996	6 66%	9/4/1996	7 098
2/6/2004	4 9166	4 92%	4 95%	9/12/1996	6 66%	9/5/1996	7 152
2/5/2004	4 9812	4 98%	4 95%	9/13/1996	6 67%	9/6/1996	7 11
2/4/2004	4 9549	4 95%	4 95%	9/16/1996	6 67%	9/9/1996	7 069
2/3/2004	4 9488	4 95%	4 95%	9/17/1996	6 68%	9/10/1996	7 111
2/2/2004	4 9833	4 98%	4 95%	9/18/1996	6 68%	9/11/1996	7 107
1/30/2004	4 961	4 96%	4 95%	9/19/1996	6 68%	9/12/1996	7 075
1/29/2004	4 9996	5 00%	4 95%	9/20/1996	6 69%	9/13/1996	6 948
1/28/2004	5 0026	5 00%	4 95%	9/23/1996	6 69%	9/16/1996	6 95
1/27/2004	4 9368	4 94%	4 95%	9/24/1996	6 70%	9/17/1996	7 024
1/26/2004	4 9833	4 98%	4 95%	9/25/1996	6 70%	9/18/1996	7 009
1/23/2004	4 9429	4 94%	4 95%	9/26/1996	6 71%	9/19/1996	7 043
1/22/2004	4 8433	4 84%	4 95%	9/27/1996	6 71%	9/20/1996	7 043
1/21/2004	4 9038	4 90%	4 95%	9/30/1996	6 72%	9/23/1996	7 025
1/20/2004	4 9238	4 92%	4 95%	10/1/1996	6 72%	9/24/1996	6 984
1/19/2004	4 8918	4 89%	4 95%	10/2/1996	6 72%	9/25/1996	6 925
1/16/2004	4 8919	4 89%	4 95%	10/3/1996	6 73%	9/26/1996	6 888
1/15/2004	4 8552	4 86%	4 95%	10/4/1996	6 73%	9/27/1996	6 908
1/14/2004	4 8939	4 89%	4 95%	10/7/1996	6 74%	9/30/1996	6 923
1/13/2004	4 9189	4 92%	4 95%	10/8/1996	6 74%	10/1/1996	6 874
1/12/2004	4 9723	4 97%	4 95%	10/9/1996	6 74%	10/2/1996	6 839
1/9/2004	4 9592	4 96%	4 95%	10/10/1996	6 75%	10/3/1996	6 833
1/8/2004	5 085	5 09%	4 95%	10/11/1996	6 75%	10/4/1996	6 741
1/7/2004	5 0757	5 08%	4 95%	10/14/1996	6 76%	10/7/1996	6 788
1/6/2004	5 1006	5 10%	4 95%	10/15/1996	6 76%	10/8/1996	6 804
1/5/2004	5 1772	5 18%	4 95%	10/16/1996	6 76%	10/9/1996	6 829
1/2/2004	5 1698	5 17%	4 94%	10/17/1996	6 77%	10/10/1996	6 882

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
1/1/2004	5 0726	5 07%	4 94%	10/18/1996	6 77%	10/11/1996	6 845
12/31/2003	5 0727	5 07%	4 94%	10/21/1996	6 77%	10/14/1996	6 844
12/30/2003	5 0748	5 07%	4 94%	10/22/1996	6 78%	10/15/1996	6 84
12/29/2003	5 0469	5 05%	4 94%	10/23/1996	6 78%	10/16/1996	6 857
12/26/2003	4 9694	4 97%	4 94%	10/24/1996	6 79%	10/17/1996	6 793
12/25/2003	4 9857	4 99%	4 94%	10/25/1996	6 79%	10/18/1996	6 801
12/24/2003	4 9857	4 99%	4 94%	10/28/1996	6 79%	10/21/1996	6 808
12/23/2003	5 0511	5 05%	4 94%	10/29/1996	6 80%	10/22/1996	6 849
12/22/2003	4 9796	4 98%	4 94%	10/30/1996	6 80%	10/23/1996	6 826
12/19/2003	4 9645	4 96%	4 94%	10/31/1996	6 80%	10/24/1996	6 852
12/18/2003	4 9434	4 94%	4 94%	11/1/1996	6 81%	10/25/1996	6 815
12/17/2003	5 0214	5 02%	4 94%	11/4/1996	6 81%	10/28/1996	6 834
12/16/2003	5 0646	5 06%	4 93%	11/5/1996	6 81%	10/29/1996	6 678
12/15/2003	5 0956	5 10%	4 93%	11/6/1996	6 81%	10/30/1996	6 703
12/12/2003	5 0904	5 09%	4 93%	11/7/1996	6 82%	10/31/1996	6 642
12/11/2003	5 1019	5 10%	4 93%	11/8/1996	6 82%	11/1/1996	6 679
12/10/2003	5 1489	5 15%	4 93%	11/11/1996	6 82%	11/4/1996	6 66
12/9/2003	5 1636	5 16%	4 92%	11/12/1996	6 82%	11/5/1996	6 585
12/8/2003	5 1092	5 11%	4 92%	11/13/1996	6 82%	11/6/1996	6 615
12/5/2003	5 0616	5 06%	4 92%	11/14/1996	6 83%	11/7/1996	6 531
12/4/2003	5 1604	5 16%	4 92%	11/15/1996	6 83%	11/8/1996	6 506
12/3/2003	5 1847	5 18%	4 91%	11/18/1996	6 83%	11/11/1996	6 512
12/2/2003	5 15	5 15%	4 91%	11/19/1996	6 83%	11/12/1996	6 443
12/1/2003	5 151	5 15%	4 91%	11/20/1996	6 83%	11/13/1996	6 455
11/28/2003	5 1311	5 13%	4 91%	11/21/1996	6 83%	11/14/1996	6 419
11/27/2003	5 0689	5 07%	4 91%	11/22/1996	6 83%	11/15/1996	6 457
11/26/2003	5 0689	5 07%	4 91%	11/25/1996	6 83%	11/18/1996	6 466
11/25/2003	5 0289	5 03%	4 90%	11/26/1996	6 83%	11/19/1996	6 433
11/24/2003	5 0648	5 06%	4 90%	11/27/1996	6 84%	11/20/1996	6 409
11/21/2003	5 0146	5 01%	4 90%	11/28/1996	6 84%	11/21/1996	6 415
11/20/2003	5 0085	5 01%	4 90%	11/29/1996	6 83%	11/22/1996	6 436
11/19/2003	5 0814	5 08%	4 90%	12/2/1996	6 83%	11/25/1996	6 426
11/18/2003	4 9984	5 00%	4 90%	12/3/1996	6 83%	11/26/1996	6 445
11/17/2003	5 0474	5 05%	4 90%	12/4/1996	6 83%	11/27/1996	6 432
11/14/2003	5 0505	5 05%	4 90%	12/5/1996	6 83%	11/28/1996	6 435
11/13/2003	5 1042	5 10%	4 90%	12/6/1996	6 83%	11/29/1996	6 35
11/12/2003	5 2081	5 21%	4 90%	12/9/1996	6 84%	12/2/1996	6 36
11/11/2003	5 2636	5 26%	4 89%	12/10/1996	6 84%	12/3/1996	6 362
11/10/2003	5 2636	5 26%	4 89%	12/11/1996	6 84%	12/4/1996	6 394
11/7/2003	5 2529	5 25%	4 89%	12/12/1996	6 84%	12/5/1996	6 508
11/6/2003	5 2433	5 24%	4 89%	12/13/1996	6 84%	12/6/1996	6 511
11/5/2003	5 1828	5 18%	4 88%	12/16/1996	6 84%	12/9/1996	6 462
11/4/2003	5 1283	5 13%	4 88%	12/17/1996	6 84%	12/10/1996	6 496
11/3/2003	5 1607	5 16%	4 88%	12/18/1996	6 84%	12/11/1996	6 63
10/31/2003	5 1314	5 13%	4 88%	12/19/1996	6 83%	12/12/1996	6 625
10/30/2003	5 1977	5 20%	4 88%	12/20/1996	6 83%	12/13/1996	6 572
10/29/2003	5 1755	5 18%	4 88%	12/23/1996	6 83%	12/16/1996	6 625
10/28/2003	5 0899	5 09%	4 88%	12/24/1996	6 83%	12/17/1996	6 655
10/27/2003	5 1399	5 14%	4 88%	12/25/1996	6 83%	12/18/1996	6 703
10/24/2003	5 119	5 12%	4 87%	12/26/1996	6 83%	12/19/1996	6 582
10/23/2003	5 1946	5 19%	4 87%	12/27/1996	6 83%	12/20/1996	6 606
10/22/2003	5 1347	5 13%	4 87%	12/30/1996	6 83%	12/23/1996	6 581
10/21/2003	5 2052	5 21%	4 87%	12/31/1996	6 83%	12/24/1996	6 585
10/20/2003	5 2349	5 23%	4 87%	1/1/1997	6 83%	12/25/1996	6 583
10/17/2003	5 2488	5 25%	4 87%	1/2/1997	6 83%	12/26/1996	6 584
10/16/2003	5 3047	5 30%	4 87%	1/3/1997	6 83%	12/27/1996	6 562
10/15/2003	5 2875	5 29%	4 87%	1/6/1997	6 83%	12/30/1996	6 54
10/14/2003	5 251	5 25%	4 86%	1/7/1997	6 83%	12/31/1996	6 642
10/13/2003	5 1778	5 18%	4 86%	1/8/1997	6 84%	1/1/1997	6 641
10/10/2003	5 1799	5 18%	4 86%	1/9/1997	6 83%	1/2/1997	6 739
10/9/2003	5 2138	5 21%	4 86%	1/10/1997	6 83%	1/3/1997	6 732
10/8/2003	5 16	5 16%	4 86%	1/13/1997	6 83%	1/6/1997	6 773
10/7/2003	5 1569	5 16%	4 86%	1/14/1997	6 83%	1/7/1997	6 789
10/6/2003	5 0687	5 07%	4 86%	1/15/1997	6 83%	1/8/1997	6 845
10/3/2003	5 0955	5 10%	4 86%	1/16/1997	6 83%	1/9/1997	6 759
10/2/2003	4 9329	4 93%	4 85%	1/17/1997	6 83%	1/10/1997	6 845
10/1/2003	4 8902	4 89%	4 85%	1/20/1997	6 83%	1/13/1997	6 853
9/30/2003	4 8823	4 88%	4 85%	1/21/1997	6 83%	1/14/1997	6 772
9/29/2003	5 0055	5 01%	4 85%	1/22/1997	6 83%	1/15/1997	6 793
9/26/2003	4 934	4 93%	4 85%	1/23/1997	6 83%	1/16/1997	6 825
9/25/2003	4 9863	4 99%	4 85%	1/24/1997	6 83%	1/17/1997	6 822
9/24/2003	5 029	5 03%	4 85%	1/27/1997	6 84%	1/20/1997	6 828
9/23/2003	5 0916	5 09%	4 85%	1/28/1997	6 84%	1/21/1997	6 784
9/22/2003	5 1248	5 12%	4 85%	1/29/1997	6 84%	1/22/1997	6 834
9/19/2003	5 0679	5 07%	4 85%	1/30/1997	6 84%	1/23/1997	6 86

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
9/18/2003	5 0742	5 07%	4 85%	1/31/1997	6 84%	1/24/1997	6 89
9/17/2003	5 0865	5 09%	4 85%	2/3/1997	6 84%	1/27/1997	6 942
9/16/2003	5 194	5 19%	4 85%	2/4/1997	6 83%	1/28/1997	6 922
9/15/2003	5 1824	5 18%	4 85%	2/5/1997	6 83%	1/29/1997	6 909
9/12/2003	5 1594	5 16%	4 84%	2/6/1997	6 83%	1/30/1997	6 872
9/11/2003	5 2036	5 20%	4 84%	2/7/1997	6 83%	1/31/1997	6 789
9/10/2003	5 1532	5 15%	4 84%	2/10/1997	6 83%	2/3/1997	6 739
9/9/2003	5 2259	5 23%	4 84%	2/11/1997	6 83%	2/4/1997	6 705
9/8/2003	5 2632	5 26%	4 84%	2/12/1997	6 83%	2/5/1997	6 755
9/5/2003	5 1878	5 19%	4 84%	2/13/1997	6 82%	2/6/1997	6 757
9/4/2003	5 3052	5 31%	4 84%	2/14/1997	6 82%	2/7/1997	6 704
9/3/2003	5 3496	5 35%	4 84%	2/17/1997	6 82%	2/10/1997	6 703
9/2/2003	5 3333	5 33%	4 84%	2/18/1997	6 82%	2/11/1997	6 705
9/1/2003	5 2217	5 22%	4 83%	2/19/1997	6 82%	2/12/1997	6 708
8/29/2003	5 2228	5 22%	4 83%	2/20/1997	6 82%	2/13/1997	6 625
8/28/2003	5 207	5 21%	4 83%	2/21/1997	6 82%	2/14/1997	6 525
8/27/2003	5 3128	5 31%	4 83%	2/24/1997	6 81%	2/17/1997	6 53
8/26/2003	5 2709	5 27%	4 83%	2/25/1997	6 81%	2/18/1997	6 546
8/25/2003	5 3021	5 30%	4 83%	2/26/1997	6 81%	2/19/1997	6 582
8/22/2003	5 2581	5 26%	4 83%	2/27/1997	6 81%	2/20/1997	6 656
8/21/2003	5 2753	5 28%	4 82%	2/28/1997	6 81%	2/21/1997	6 643
8/20/2003	5 2849	5 28%	4 82%	3/3/1997	6 81%	2/24/1997	6 655
8/19/2003	5 2422	5 24%	4 82%	3/4/1997	6 81%	2/25/1997	6 658
8/18/2003	5 3444	5 34%	4 82%	3/5/1997	6 81%	2/26/1997	6 778
8/15/2003	5 3969	5 40%	4 82%	3/6/1997	6 81%	2/27/1997	6 805
8/14/2003	5 3805	5 38%	4 81%	3/7/1997	6 81%	2/28/1997	6 803
8/13/2003	5 4489	5 45%	4 81%	3/10/1997	6 81%	3/3/1997	6 832
8/12/2003	5 3499	5 35%	4 81%	3/11/1997	6 81%	3/4/1997	6 869
8/11/2003	5 2689	5 27%	4 80%	3/12/1997	6 81%	3/5/1997	6 828
8/8/2003	5 2305	5 23%	4 80%	3/13/1997	6 81%	3/6/1997	6 885
8/7/2003	5 2136	5 21%	4 80%	3/14/1997	6 81%	3/7/1997	6 814
8/6/2003	5 2369	5 24%	4 80%	3/17/1997	6 81%	3/10/1997	6 814
8/5/2003	5 3607	5 36%	4 80%	3/18/1997	6 81%	3/11/1997	6 852
8/4/2003	5 2518	5 25%	4 80%	3/19/1997	6 80%	3/12/1997	6 885
8/1/2003	5 314	5 31%	4 80%	3/20/1997	6 80%	3/13/1997	6 959
7/31/2003	5 3574	5 36%	4 80%	3/21/1997	6 80%	3/14/1997	6 941
7/30/2003	5 2475	5 25%	4 80%	3/24/1997	6 80%	3/17/1997	6 957
7/29/2003	5 3367	5 34%	4 79%	3/25/1997	6 80%	3/18/1997	6 959
7/28/2003	5 2135	5 21%	4 79%	3/26/1997	6 80%	3/19/1997	6 988
7/25/2003	5 1163	5 12%	4 79%	3/27/1997	6 80%	3/20/1997	6 956
7/24/2003	5 0915	5 09%	4 79%	3/28/1997	6 80%	3/21/1997	6 968
7/23/2003	5 0413	5 04%	4 79%	3/31/1997	6 80%	3/24/1997	6 925
7/22/2003	5 0403	5 04%	4 79%	4/1/1997	6 80%	3/25/1997	6 968
7/21/2003	5 0874	5 09%	4 79%	4/2/1997	6 80%	3/26/1997	6 979
7/18/2003	4 9326	4 93%	4 79%	4/3/1997	6 80%	3/27/1997	7 09
7/17/2003	4 892	4 89%	4 79%	4/4/1997	6 80%	3/28/1997	7 088
7/16/2003	4 893	4 89%	4 79%	4/7/1997	6 80%	3/31/1997	7 096
7/15/2003	4 9646	4 96%	4 79%	4/8/1997	6 81%	4/1/1997	7 076
7/14/2003	4 7693	4 77%	4 79%	4/9/1997	6 81%	4/2/1997	7 077
7/11/2003	4 6818	4 68%	4 79%	4/10/1997	6 81%	4/3/1997	7 07
7/10/2003	4 697	4 70%	4 79%	4/11/1997	6 81%	4/4/1997	7 124
7/9/2003	4 697	4 70%	4 79%	4/14/1997	6 81%	4/7/1997	7 072
7/8/2003	4 7131	4 71%	4 79%	4/15/1997	6 81%	4/8/1997	7 1
7/7/2003	4 7455	4 75%	4 79%	4/16/1997	6 81%	4/9/1997	7 102
7/4/2003	4 6838	4 68%	4 79%	4/17/1997	6 81%	4/10/1997	7 109
7/3/2003	4 6905	4 69%	4 79%	4/18/1997	6 81%	4/11/1997	7 166
7/2/2003	4 5795	4 58%	4 79%	4/21/1997	6 81%	4/14/1997	7 169
7/1/2003	4 586	4 59%	4 79%	4/22/1997	6 81%	4/15/1997	7 093
6/30/2003	4 5566	4 56%	4 79%	4/23/1997	6 81%	4/16/1997	7 1
6/27/2003	4 5824	4 58%	4 79%	4/24/1997	6 81%	4/17/1997	7 069
6/26/2003	4 5641	4 56%	4 79%	4/25/1997	6 81%	4/18/1997	7 053
6/25/2003	4 4624	4 46%	4 79%	4/28/1997	6 81%	4/21/1997	7 092
6/24/2003	4 3339	4 33%	4 79%	4/29/1997	6 81%	4/22/1997	7 039
6/23/2003	4 3956	4 40%	4 80%	4/30/1997	6 81%	4/23/1997	7 092
6/20/2003	4 432	4 43%	4 80%	5/1/1997	6 81%	4/24/1997	7 133
6/19/2003	4 4064	4 41%	4 80%	5/2/1997	6 81%	4/25/1997	7 142
6/18/2003	4 3967	4 40%	4 80%	5/5/1997	6 81%	4/28/1997	7 114
6/17/2003	4 2995	4 30%	4 80%	5/6/1997	6 81%	4/29/1997	6 985
6/16/2003	4 2315	4 23%	4 81%	5/7/1997	6 81%	4/30/1997	6 957
6/13/2003	4 173	4 17%	4 81%	5/8/1997	6 81%	5/1/1997	6 916
6/12/2003	4 2121	4 21%	4 81%	5/9/1997	6 81%	5/2/1997	6 875
6/11/2003	4 2618	4 26%	4 82%	5/12/1997	6 81%	5/5/1997	6 876
6/10/2003	4 2532	4 25%	4 82%	5/13/1997	6 81%	5/6/1997	6 884
6/9/2003	4 3416	4 34%	4 82%	5/14/1997	6 81%	5/7/1997	6 962
6/6/2003	4 3962	4 40%	4 82%	5/15/1997	6 81%	5/8/1997	6 93

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
6/5/2003	4 4052	4 41%	4 83%	5/16/1997	6 81%	5/9/1997	6 891
6/4/2003	4 3532	4 35%	4 83%	5/19/1997	6 81%	5/12/1997	6 886
6/3/2003	4 3691	4 37%	4 83%	5/20/1997	6 81%	5/13/1997	6 923
6/2/2003	4 4213	4 42%	4 84%	5/21/1997	6 81%	5/14/1997	6 879
5/30/2003	4 3762	4 38%	4 84%	5/22/1997	6 82%	5/15/1997	6 869
5/29/2003	4 3395	4 34%	4 84%	5/23/1997	6 82%	5/16/1997	6 9
5/28/2003	4 4064	4 41%	4 85%	5/26/1997	6 82%	5/19/1997	6 92
5/27/2003	4 3878	4 39%	4 85%	5/27/1997	6 82%	5/20/1997	6 904
5/26/2003	4 2574	4 26%	4 85%	5/28/1997	6 82%	5/21/1997	6 961
5/23/2003	4 2591	4 26%	4 86%	5/29/1997	6 82%	5/22/1997	6 988
5/22/2003	4 2645	4 26%	4 86%	5/30/1997	6 82%	5/23/1997	6 987
5/21/2003	4 3486	4 35%	4 86%	6/2/1997	6 82%	5/26/1997	6 986
5/20/2003	4 3539	4 35%	4 87%	6/3/1997	6 82%	5/27/1997	7 026
5/19/2003	4 4809	4 48%	4 87%	6/4/1997	6 82%	5/28/1997	7 03
5/16/2003	4 4139	4 41%	4 87%	6/5/1997	6 82%	5/29/1997	6 976
5/15/2003	4 4838	4 48%	4 88%	6/6/1997	6 81%	5/30/1997	6 906
5/14/2003	4 5091	4 51%	4 88%	6/9/1997	6 81%	6/2/1997	6 901
5/13/2003	4 6108	4 61%	4 88%	6/10/1997	6 81%	6/3/1997	6 87
5/12/2003	4 6461	4 65%	4 89%	6/11/1997	6 81%	6/4/1997	6 881
5/9/2003	4 6704	4 67%	4 89%	6/12/1997	6 81%	6/5/1997	6 879
5/8/2003	4 6809	4 68%	4 89%	6/13/1997	6 81%	6/6/1997	6 774
5/7/2003	4 6771	4 68%	4 89%	6/16/1997	6 80%	6/9/1997	6 826
5/6/2003	4 7529	4 75%	4 90%	6/17/1997	6 80%	6/10/1997	6 84
5/5/2003	4 7999	4 80%	4 90%	6/18/1997	6 80%	6/11/1997	6 831
5/2/2003	4 8318	4 83%	4 90%	6/19/1997	6 80%	6/12/1997	6 777
5/1/2003	4 775	4 78%	4 90%	6/20/1997	6 80%	6/13/1997	6 724
4/30/2003	4 7645	4 76%	4 91%	6/23/1997	6 80%	6/16/1997	6 699
4/29/2003	4 8378	4 84%	4 91%	6/24/1997	6 80%	6/17/1997	6 724
4/28/2003	4 8252	4 83%	4 91%	6/25/1997	6 79%	6/18/1997	6 685
4/25/2003	4 8146	4 81%	4 92%	6/26/1997	6 79%	6/19/1997	6 679
4/24/2003	4 8369	4 84%	4 92%	6/27/1997	6 79%	6/20/1997	6 661
4/23/2003	4 8838	4 88%	4 92%	6/30/1997	6 79%	6/23/1997	6 708
4/22/2003	4 8917	4 89%	4 92%	7/1/1997	6 79%	6/24/1997	6 692
4/21/2003	4 8976	4 90%	4 93%	7/2/1997	6 79%	6/25/1997	6 737
4/18/2003	4 8897	4 89%	4 93%	7/3/1997	6 79%	6/26/1997	6 783
4/17/2003	4 8907	4 89%	4 93%	7/4/1997	6 79%	6/27/1997	6 742
4/16/2003	4 9066	4 91%	4 93%	7/7/1997	6 78%	6/30/1997	6 785
4/15/2003	4 9531	4 95%	4 93%	7/8/1997	6 78%	7/1/1997	6 741
4/14/2003	4 9781	4 98%	4 94%	7/9/1997	6 78%	7/2/1997	6 706
4/11/2003	4 9482	4 95%	4 94%	7/10/1997	6 78%	7/3/1997	6 627
4/10/2003	4 9383	4 94%	4 94%	7/11/1997	6 78%	7/4/1997	6 627
4/9/2003	4 9018	4 90%	4 94%	7/14/1997	6 78%	7/7/1997	6 579
4/8/2003	4 9255	4 93%	4 95%	7/15/1997	6 78%	7/8/1997	6 581
4/7/2003	4 9683	4 97%	4 95%	7/16/1997	6 77%	7/9/1997	6 565
4/4/2003	4 9643	4 96%	4 95%	7/17/1997	6 77%	7/10/1997	6 562
4/3/2003	4 9276	4 93%	4 95%	7/18/1997	6 77%	7/11/1997	6 529
4/2/2003	4 9207	4 92%	4 96%	7/21/1997	6 77%	7/14/1997	6 556
4/1/2003	4 825	4 83%	4 96%	7/22/1997	6 77%	7/15/1997	6 543
3/31/2003	4 8154	4 82%	4 96%	7/23/1997	6 77%	7/16/1997	6 478
3/28/2003	4 9129	4 91%	4 97%	7/24/1997	6 76%	7/17/1997	6 492
3/27/2003	4 9298	4 93%	4 97%	7/25/1997	6 76%	7/18/1997	6 53
3/26/2003	4 9249	4 92%	4 97%	7/28/1997	6 76%	7/21/1997	6 54
3/25/2003	4 9239	4 92%	4 97%	7/29/1997	6 76%	7/22/1997	6 419
3/24/2003	4 9269	4 93%	4 98%	7/30/1997	6 75%	7/23/1997	6 436
3/21/2003	5 0399	5 04%	4 98%	7/31/1997	6 75%	7/24/1997	6 437
3/20/2003	4 928	4 93%	4 98%	8/1/1997	6 75%	7/25/1997	6 454
3/19/2003	4 9251	4 93%	4 98%	8/4/1997	6 75%	7/28/1997	6 405
3/18/2003	4 876	4 88%	4 99%	8/5/1997	6 75%	7/29/1997	6 385
3/17/2003	4 8004	4 80%	4 99%	8/6/1997	6 75%	7/30/1997	6 324
3/14/2003	4 7062	4 71%	4 99%	8/7/1997	6 75%	7/31/1997	6 298
3/13/2003	4 7451	4 75%	5 00%	8/8/1997	6 75%	8/1/1997	6 454
3/12/2003	4 6104	4 61%	5 00%	8/11/1997	6 75%	8/4/1997	6 478
3/11/2003	4 6437	4 64%	5 01%	8/12/1997	6 75%	8/5/1997	6 491
3/10/2003	4 641	4 64%	5 01%	8/13/1997	6 75%	8/6/1997	6 479
3/7/2003	4 6839	4 68%	5 02%	8/14/1997	6 75%	8/7/1997	6 529
3/6/2003	4 6972	4 70%	5 02%	8/15/1997	6 75%	8/8/1997	6 635
3/5/2003	4 6635	4 66%	5 03%	8/18/1997	6 75%	8/11/1997	6 636
3/4/2003	4 6701	4 67%	5 03%	8/19/1997	6 75%	8/12/1997	6 671
3/3/2003	4 6692	4 67%	5 04%	8/20/1997	6 75%	8/13/1997	6 626
2/28/2003	4 6692	4 67%	5 04%	8/21/1997	6 75%	8/14/1997	6 55
2/27/2003	4 7172	4 72%	5 05%	8/22/1997	6 75%	8/15/1997	6 546
2/26/2003	4 7419	4 74%	5 05%	8/25/1997	6 75%	8/18/1997	6 523
2/25/2003	4 7781	4 78%	5 06%	8/26/1997	6 75%	8/19/1997	6 51
2/24/2003	4 8098	4 81%	5 06%	8/27/1997	6 75%	8/20/1997	6 54
2/21/2003	4 8455	4 85%	5 07%	8/28/1997	6 75%	8/21/1997	6 621

USGG30YR Index	PX_LAST	Yield %	Lagged Yield			Start Date	1/1/1979
2/20/2003	4 8089	4 81%	5 07%	8/29/1997	6 76%	8/22/1997	6 649
2/19/2003	4 8167	4 82%	5 07%	9/1/1997	6 76%	8/25/1997	6 668
2/18/2003	4 8632	4 86%	5 08%	9/2/1997	6 76%	8/26/1997	6 645
2/17/2003	4 8827	4 88%	5 08%	9/3/1997	6 76%	8/27/1997	6 651
2/14/2003	4 8798	4 88%	5 09%	9/4/1997	6 76%	8/28/1997	6 573
2/13/2003	4 8092	4 81%	5 09%	9/5/1997	6 76%	8/29/1997	6 611
2/12/2003	4 8439	4 84%	5 10%	9/8/1997	6 76%	9/1/1997	6 607
2/11/2003	4 8614	4 86%	5 10%	9/9/1997	6 76%	9/2/1997	6 559
2/10/2003	4 8498	4 85%	5 10%	9/10/1997	6 76%	9/3/1997	6 601
2/7/2003	4 8063	4 81%	5 11%	9/11/1997	6 76%	9/4/1997	6 611
2/6/2003	4 8112	4 81%	5 11%	9/12/1997	6 77%	9/5/1997	6 642
2/5/2003	4 8557	4 86%	5 11%	9/15/1997	6 77%	9/8/1997	6 612
2/4/2003	4 7892	4 79%	5 12%	9/16/1997	6 76%	9/9/1997	6 626
2/3/2003	4 8382	4 84%	5 12%	9/17/1997	6 76%	9/10/1997	6 658
1/31/2003	4 8411	4 84%	5 13%	9/18/1997	6 76%	9/11/1997	6 692
1/30/2003	4 8684	4 87%	5 13%	9/19/1997	6 76%	9/12/1997	6 587
1/29/2003	4 9085	4 91%	5 13%	9/22/1997	6 76%	9/15/1997	6 574
1/28/2003	4 8703	4 87%	5 14%	9/23/1997	6 76%	9/16/1997	6 406
1/27/2003	4 883	4 88%	5 14%	9/24/1997	6 76%	9/17/1997	6 399
1/24/2003	4 8616	4 86%	5 14%	9/25/1997	6 76%	9/18/1997	6 401
1/23/2003	4 885	4 89%	5 15%	9/26/1997	6 75%	9/19/1997	6 378
1/22/2003	4 8529	4 85%	5 15%	9/29/1997	6 75%	9/22/1997	6 352
1/21/2003	4 8919	4 89%	5 16%	9/30/1997	6 75%	9/23/1997	6 385
1/20/2003	4 9223	4 92%	5 16%	10/1/1997	6 75%	9/24/1997	6 316
1/17/2003	4 9213	4 92%	5 16%	10/2/1997	6 75%	9/25/1997	6 403
1/16/2003	4 9688	4 97%	5 17%	10/3/1997	6 75%	9/26/1997	6 367
1/15/2003	4 9609	4 96%	5 17%	10/6/1997	6 75%	9/29/1997	6 384
1/14/2003	4 9988	5 00%	5 17%	10/7/1997	6 75%	9/30/1997	6 399
1/13/2003	5 0249	5 02%	5 18%	10/8/1997	6 74%	10/1/1997	6 322
1/10/2003	5 045	5 05%	5 18%	10/9/1997	6 74%	10/2/1997	6 295
1/9/2003	5 0714	5 07%	5 18%	10/10/1997	6 74%	10/3/1997	6 294
1/8/2003	4 9432	4 94%	5 19%	10/13/1997	6 74%	10/6/1997	6 259
1/7/2003	4 9491	4 95%	5 19%	10/14/1997	6 74%	10/7/1997	6 233
1/6/2003	4 9749	4 97%	5 20%	10/15/1997	6 73%	10/8/1997	6 373
1/3/2003	4 9531	4 95%	5 20%	10/16/1997	6 73%	10/9/1997	6 354
1/2/2003	4 9551	4 96%	5 20%	10/17/1997	6 73%	10/10/1997	6 43
1/1/2003	4 7792	4 78%	5 21%	10/20/1997	6 73%	10/13/1997	6 432
12/31/2002	4 778	4 78%	5 21%	10/21/1997	6 73%	10/14/1997	6 356
12/30/2002	4 7527	4 75%	5 22%	10/22/1997	6 72%	10/15/1997	6 397
12/27/2002	4 7812	4 78%	5 22%	10/23/1997	6 72%	10/16/1997	6 392
12/26/2002	4 8572	4 86%	5 23%	10/24/1997	6 72%	10/17/1997	6 439
12/25/2002	4 8669	4 87%	5 23%	10/27/1997	6 71%	10/20/1997	6 423
12/24/2002	4 867	4 87%	5 24%	10/28/1997	6 71%	10/21/1997	6 41
12/23/2002	4 8943	4 89%	5 24%	10/29/1997	6 71%	10/22/1997	6 419
12/20/2002	4 8933	4 89%	5 25%	10/30/1997	6 71%	10/23/1997	6 309
12/19/2002	4 8894	4 89%	5 25%	10/31/1997	6 70%	10/24/1997	6 273
12/18/2002	4 9603	4 96%	5 26%	11/3/1997	6 70%	10/27/1997	6 133
12/17/2002	5 0191	5 02%	5 26%	11/4/1997	6 69%	10/28/1997	6 289
12/16/2002	5 0211	5 02%	5 26%	11/5/1997	6 69%	10/29/1997	6 203
12/13/2002	4 9484	4 95%	5 27%	11/6/1997	6 69%	10/30/1997	6 14
12/12/2002	4 8925	4 89%	5 27%	11/7/1997	6 68%	10/31/1997	6 153
12/11/2002	4 8857	4 89%	5 28%	11/10/1997	6 68%	11/3/1997	6 209
12/10/2002	4 917	4 92%	5 28%	11/11/1997	6 68%	11/4/1997	6 252
12/9/2002	4 9308	4 93%	5 28%	11/12/1997	6 68%	11/5/1997	6 218
12/6/2002	4 9773	4 98%	5 28%	11/13/1997	6 67%	11/6/1997	6 183
12/5/2002	4 9873	4 99%	5 29%	11/14/1997	6 67%	11/7/1997	6 155
12/4/2002	4 9972	5 00%	5 29%	11/17/1997	6 67%	11/10/1997	6 143
12/3/2002	5 0323	5 03%	5 29%	11/18/1997	6 66%	11/11/1997	6 143
12/2/2002	5 0444	5 04%	5 29%	11/19/1997	6 66%	11/12/1997	6 102
11/29/2002	5 0353	5 04%	5 30%	11/20/1997	6 66%	11/13/1997	6 098
11/28/2002	5 1073	5 11%	5 30%	11/21/1997	6 66%	11/14/1997	6 113
11/27/2002	5 1084	5 11%	5 30%	11/24/1997	6 65%	11/17/1997	6 067
11/26/2002	4 9369	4 94%	5 30%	11/25/1997	6 65%	11/18/1997	6 073
11/25/2002	5 0244	5 02%	5 30%	11/26/1997	6 65%	11/19/1997	6 039
11/22/2002	5 0214	5 02%	5 30%	11/27/1997	6 64%	11/20/1997	6 062
11/21/2002	5 0264	5 03%	5 31%	11/28/1997	6 64%	11/21/1997	6 033
11/20/2002	4 935	4 94%	5 31%	12/1/1997	6 64%	11/24/1997	6 067
11/19/2002	4 8502	4 85%	5 31%	12/2/1997	6 63%	11/25/1997	6 06
11/18/2002	4 8638	4 86%	5 31%	12/3/1997	6 63%	11/26/1997	6 047
11/15/2002	4 9096	4 91%	5 32%	12/4/1997	6 63%	11/27/1997	6 05
11/14/2002	4 9539	4 95%	5 32%	12/5/1997	6 62%	11/28/1997	6 054
11/13/2002	4 788	4 79%	5 32%	12/8/1997	6 62%	12/1/1997	6 038
11/12/2002	4 7975	4 80%	5 32%	12/9/1997	6 62%	12/2/1997	6 036
11/11/2002	4 789	4 79%	5 33%	12/10/1997	6 61%	12/3/1997	6 015
11/8/2002	4 7634	4 76%	5 33%	12/11/1997	6 61%	12/4/1997	6 049