

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.20							
15,000-20,999	0.83	0.31						
21,000-26,999	1.45	0.93	0.41					
27,000-32,999	2.07	1.55	1.03	0.51				
33,000-38,999	2.69	2.17	1.65	1.13	0.61			
39,000-44,999	3.31	2.79	2.27	1.75	1.23	0.71		
45,000-53,999	3.93	3.41	2.89	2.37	1.85	1.33	0.82	
54,000-64,999	5.17	4.65	4.14	3.62	3.10	2.58	2.06	1.02

Heating, Early Retirement of a Heat Pump

Table 442: Central Winter Demand Savings for 7.7 HSPF Baseline—Zone 2

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.13							
15,000-20,999	0.79	0.20						
21,000-26,999	1.45	0.86	0.27					
27,000-32,999	2.12	1.52	0.93	0.33				
33,000-38,999	2.78	2.18	1.59	1.00	0.40			
39,000-44,999	3.44	2.84	2.25	1.66	1.06	0.47		
45,000-53,999	4.10	3.50	2.91	2.32	1.72	1.13	0.54	
54,000-64,999	5.42	4.82	4.23	3.64	3.04	2.45	1.86	0.67

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.20							
15,000-20,999	0.86	0.30						
21,000-26,999	1.52	0.96	0.39					
27,000-32,999	2.18	1.62	1.05	0.49				
33,000-38,999	2.84	2.28	1.71	1.15	0.59			
39,000-44,999	3.50	2.94	2.37	1.81	1.25	0.69		
45,000-53,999	4.16	3.60	3.04	2.47	1.91	1.35	0.79	
54,000-64,999	5.48	4.92	4.36	3.79	3.23	2.67	2.11	0.98
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.23							
15,000-20,999	0.89	0.34						
21,000-26,999	1.55	1.00	0.46					
27,000-32,999	2.21	1.67	1.12	0.57				
33,000-38,999	2.87	2.33	1.78	1.23	0.69			
39,000-44,999	3.53	2.99	2.44	1.89	1.35	0.80		
45,000-53,999	4.19	3.65	3.10	2.56	2.01	1.46	0.92	
54,000-64,999	5.51	4.97	4.42	3.88	3.33	2.78	2.24	1.15
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.24							
15,000-20,999	0.90	0.36						
21,000-26,999	1.56	1.02	0.48					
27,000-32,999	2.22	1.68	1.14	0.60				
33,000-38,999	2.88	2.34	1.80	1.26	0.73			
39,000-44,999	3.54	3.00	2.46	1.93	1.39	0.85		
45,000-53,999	4.20	3.66	3.13	2.59	2.05	1.51	0.97	
54,000-64,999	5.53	4.99	4.45	3.91	3.37	2.83	2.29	1.21



10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.25							
15,000-20,999	0.91	0.38						
21,000-26,999	1.57	1.04	0.51					
27,000-32,999	2.23	1.70	1.17	0.63				
33,000-38,999	2.90	2.36	1.83	1.29	0.76			
39,000-44,999	3.56	3.02	2.49	1.95	1.42	0.89		
45,000-53,999	4.22	3.68	3.15	2.62	2.08	1.55	1.01	
54,000-64,999	5.54	5.00	4.47	3.94	3.40	2.87	2.34	1.27
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.26							
15,000-20,999	0.93	0.40						
21,000-26,999	1.59	1.06	0.53					
27,000-32,999	2.25	1.72	1.19	0.66				
33,000-38,999	2.91	2.38	1.85	1.32	0.79			
39,000-44,999	3.57	3.04	2.51	1.98	1.46	0.93		
45,000-53,999	4.23	3.70	3.17	2.64	2.12	1.59	1.06	
54,000-64,999	5.55	5.02	4.49	3.96	3.44	2.91	2.38	1.32
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.28							
15,000-20,999	0.94	0.41						
21,000-26,999	1.60	1.07	0.55					
27,000-32,999	2.26	1.73	1.21	0.69				
33,000-38,999	2.92	2.40	1.87	1.35	0.83			
39,000-44,999	3.58	3.06	2.53	2.01	1.49	0.97		
45,000-53,999	4.24	3.72	3.19	2.67	2.15	1.63	1.10	
54,000-64,999	5.56	5.04	4.51	3.99	3.47	2.95	2.42	1.38

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.28							
15,000-20,999	0.94	0.42						
21,000-26,999	1.60	1.08	0.56					
27,000-32,999	2.26	1.74	1.23	0.71				
33,000-38,999	2.92	2.40	1.89	1.37	0.85			
39,000-44,999	3.58	3.07	2.55	2.03	1.51	0.99		
45,000-53,999	4.25	3.73	3.21	2.69	2.17	1.65	1.13	
54,000-64,999	5.57	5.05	4.53	4.01	3.49	2.97	2.45	1.41

Table 443: Central Winter Demand Savings for 6.8 HSPF Baseline—Zone 2

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.32							
15,000-20,999	1.08	0.48						
21,000-26,999	1.83	1.24	0.64					
27,000-32,999	2.59	1.99	1.40	0.81				
33,000-38,999	3.34	2.75	2.15	1.56	0.97			
39,000-44,999	4.10	3.50	2.91	2.32	1.72	1.13		
45,000-53,999	4.85	4.26	3.66	3.07	2.48	1.88	1.29	
54,000-64,999	6.36	5.77	5.17	4.58	3.99	3.39	2.80	1.61

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.39							
15,000-20,999	1.14	0.58						
21,000-26,999	1.89	1.33	0.77					
27,000-32,999	2.65	2.09	1.53	0.96				
33,000-38,999	3.40	2.84	2.28	1.72	1.16			
39,000-44,999	4.16	3.60	3.03	2.47	1.91	1.35		
45,000-53,999	4.91	4.35	3.79	3.23	2.67	2.10	1.54	
54,000-64,999	6.42	5.86	5.30	4.74	4.17	3.61	3.05	1.93
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.42							
15,000-20,999	1.17	0.63						
21,000-26,999	1.93	1.38	0.84					
27,000-32,999	2.68	2.14	1.59	1.04				
33,000-38,999	3.44	2.89	2.35	1.80	1.25			
39,000-44,999	4.19	3.65	3.10	2.55	2.01	1.46		
45,000-53,999	4.95	4.40	3.85	3.31	2.76	2.22	1.67	
54,000-64,999	6.46	5.91	5.36	4.82	4.27	3.73	3.18	2.09
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.43							
15,000-20,999	1.18	0.65						
21,000-26,999	1.94	1.40	0.86					
27,000-32,999	2.69	2.15	1.62	1.08				
33,000-38,999	3.45	2.91	2.37	1.83	1.29			
39,000-44,999	4.20	3.66	3.12	2.59	2.05	1.51		
45,000-53,999	4.96	4.42	3.88	3.34	2.80	2.26	1.72	
54,000-64,999	6.47	5.93	5.39	4.85	4.31	3.77	3.23	2.15

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.44							
15,000-20,999	1.20	0.66						
21,000-26,999	1.95	1.42	0.88					
27,000-32,999	2.71	2.17	1.64	1.11				
33,000-38,999	3.46	2.93	2.39	1.86	1.33			
39,000-44,999	4.22	3.68	3.15	2.61	2.08	1.55		
45,000-53,999	4.97	4.44	3.90	3.37	2.84	2.30	1.77	
54,000-64,999	6.48	5.95	5.41	4.88	4.35	3.81	3.28	2.21
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.45							
15,000-20,999	1.21	0.68						
21,000-26,999	1.96	1.43	0.91					
27,000-32,999	2.72	2.19	1.66	1.13				
33,000-38,999	3.47	2.94	2.42	1.89	1.36			
39,000-44,999	4.23	3.70	3.17	2.64	2.12	1.59		
45,000-53,999	4.98	4.45	3.93	3.40	2.87	2.34	1.81	
54,000-64,999	6.49	5.96	5.44	4.91	4.38	3.85	3.32	2.27
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.46							
15,000-20,999	1.22	0.70						
21,000-26,999	1.97	1.45	0.93					
27,000-32,999	2.73	2.21	1.68	1.16				
33,000-38,999	3.48	2.96	2.44	1.92	1.39			
39,000-44,999	4.24	3.72	3.19	2.67	2.15	1.63		
45,000-53,999	4.99	4.47	3.95	3.43	2.90	2.38	1.86	
54,000-64,999	6.50	5.98	5.46	4.93	4.41	3.89	3.37	2.32

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.47							
15,000-20,999	1.23	0.71						
21,000-26,999	1.98	1.46	0.94					
27,000-32,999	2.74	2.22	1.70	1.18				
33,000-38,999	3.49	2.97	2.45	1.93	1.41			
39,000-44,999	4.24	3.73	3.21	2.69	2.17	1.65		
45,000-53,999	5.00	4.48	3.96	3.44	2.92	2.40	1.88	
54,000-64,999	6.51	5.99	5.47	4.95	4.43	3.91	3.39	2.35

Heating, Early Retirement of an Electric Resistance Furnace

Table 444: Central Winter Demand Savings for 3.412 HSPF Baseline—Zone 2

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.55							
15,000-20,999	2.92	2.33						
21,000-26,999	4.30	3.70	3.11					
27,000-32,999	5.67	5.07	4.48	3.89				
33,000-38,999	7.04	6.44	5.85	5.26	4.66			
39,000-44,999	8.41	7.81	7.22	6.63	6.03	5.44		
45,000-53,999	9.78	9.18	8.59	8.00	7.40	6.81	6.22	
54,000-64,999	12.52	11.93	11.33	10.74	10.15	9.55	8.96	7.77

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.62							
15,000-20,999	2.99	2.43						
21,000-26,999	4.36	3.80	3.23					
27,000-32,999	5.73	5.17	4.60	4.04				
33,000-38,999	7.10	6.54	5.98	5.41	4.85			
39,000-44,999	8.47	7.91	7.35	6.78	6.22	5.66		
45,000-53,999	9.84	9.28	8.72	8.15	7.59	7.03	6.47	
54,000-64,999	12.58	12.02	11.46	10.90	10.33	9.77	9.21	8.09
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.65							
15,000-20,999	3.02	2.47						
21,000-26,999	4.39	3.85	3.30					
27,000-32,999	5.76	5.22	4.67	4.12				
33,000-38,999	7.13	6.59	6.04	5.50	4.95			
39,000-44,999	8.50	7.96	7.41	6.87	6.32	5.77		
45,000-53,999	9.87	9.33	8.78	8.24	7.69	7.14	6.60	
54,000-64,999	12.61	12.07	11.52	10.98	10.43	9.89	9.34	8.25
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.66							
15,000-20,999	3.03	2.49						
21,000-26,999	4.40	3.86	3.32					
27,000-32,999	5.77	5.23	4.69	4.16				
33,000-38,999	7.14	6.60	6.07	5.53	4.99			
39,000-44,999	8.52	7.98	7.44	6.90	6.36	5.82		
45,000-53,999	9.89	9.35	8.81	8.27	7.73	7.19	6.65	
54,000-64,999	12.63	12.09	11.55	11.01	10.47	9.93	9.39	8.31

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.67							
15,000-20,999	3.04	2.51						
21,000-26,999	4.42	3.88	3.35					
27,000-32,999	5.79	5.25	4.72	4.18				
33,000-38,999	7.16	6.62	6.09	5.56	5.02			
39,000-44,999	8.53	7.99	7.46	6.93	6.39	5.86		
45,000-53,999	9.90	9.36	8.83	8.30	7.76	7.23	6.70	
54,000-64,999	12.64	12.11	11.57	11.04	10.50	9.97	9.44	8.37
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.69							
15,000-20,999	3.06	2.53						
21,000-26,999	4.43	3.90	3.37					
27,000-32,999	5.80	5.27	4.74	4.21				
33,000-38,999	7.17	6.64	6.11	5.58	5.06			
39,000-44,999	8.54	8.01	7.48	6.95	6.43	5.90		
45,000-53,999	9.91	9.38	8.85	8.33	7.80	7.27	6.74	
54,000-64,999	12.65	12.12	11.59	11.07	10.54	10.01	9.48	8.43
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.70							
15,000-20,999	3.07	2.54						
21,000-26,999	4.44	3.92	3.39					
27,000-32,999	5.81	5.29	4.76	4.24				
33,000-38,999	7.18	6.66	6.13	5.61	5.09			
39,000-44,999	8.55	8.03	7.50	6.98	6.46	5.94		
45,000-53,999	9.92	9.40	8.88	8.35	7.83	7.31	6.79	
54,000-64,999	12.66	12.14	11.62	11.09	10.57	10.05	9.53	8.48



12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.70							
15,000-20,999	3.07	2.55						
21,000-26,999	4.44	3.92	3.41					
27,000-32,999	5.81	5.30	4.78	4.26				
33,000-38,999	7.19	6.67	6.15	5.63	5.11			
39,000-44,999	8.56	8.04	7.52	7.00	6.48	5.96		
45,000-53,999	9.93	9.41	8.89	8.37	7.85	7.33	6.81	
54,000-64,999	12.67	12.15	11.63	11.11	10.59	10.07	9.55	8.51

**Climate Zone 3: South Region, Houston**

**Heating, New Construction/Replace-on-Burnout**

Table 445: Central Winter Demand Savings for 8.2 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.05							
15,000-20,999	0.40	0.07						
21,000-26,999	0.76	0.43	0.10					
27,000-32,999	1.11	0.78	0.45	0.12				
33,000-38,999	1.47	1.14	0.81	0.48	0.15			
39,000-44,999	1.82	1.49	1.16	0.83	0.50	0.17		
45,000-53,999	2.17	1.84	1.51	1.19	0.86	0.53	0.20	
54,000-64,999	2.88	2.55	2.22	1.89	1.56	1.23	0.90	0.25



9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.11							
15,000-20,999	0.46	0.16						
21,000-26,999	0.81	0.51	0.21					
27,000-32,999	1.17	0.87	0.56	0.26				
33,000-38,999	1.52	1.22	0.92	0.62	0.32			
39,000-44,999	1.88	1.57	1.27	0.97	0.67	0.37		
45,000-53,999	2.23	1.93	1.63	1.32	1.02	0.72	0.42	
54,000-64,999	2.94	2.64	2.33	2.03	1.73	1.43	1.13	0.53
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.13							
15,000-20,999	0.49	0.20						
21,000-26,999	0.84	0.56	0.27					
27,000-32,999	1.20	0.91	0.62	0.34				
33,000-38,999	1.55	1.26	0.98	0.69	0.40			
39,000-44,999	1.90	1.62	1.33	1.04	0.76	0.47		
45,000-53,999	2.26	1.97	1.68	1.40	1.11	0.82	0.54	
54,000-64,999	2.97	2.68	2.39	2.11	1.82	1.53	1.24	0.67
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.14							
15,000-20,999	0.50	0.22						
21,000-26,999	0.85	0.57	0.29					
27,000-32,999	1.21	0.93	0.64	0.36				
33,000-38,999	1.56	1.28	1.00	0.72	0.43			
39,000-44,999	1.92	1.63	1.35	1.07	0.79	0.51		
45,000-53,999	2.27	1.99	1.71	1.42	1.14	0.86	0.58	
54,000-64,999	2.98	2.70	2.41	2.13	1.85	1.57	1.29	0.72

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.16							
15,000-20,999	0.51	0.23						
21,000-26,999	0.86	0.59	0.31					
27,000-32,999	1.22	0.94	0.66	0.39				
33,000-38,999	1.57	1.30	1.02	0.74	0.47			
39,000-44,999	1.93	1.65	1.37	1.10	0.82	0.54		
45,000-53,999	2.28	2.00	1.73	1.45	1.17	0.90	0.62	
54,000-64,999	2.99	2.71	2.44	2.16	1.88	1.61	1.33	0.78
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.17							
15,000-20,999	0.52	0.25						
21,000-26,999	0.87	0.60	0.33					
27,000-32,999	1.23	0.96	0.69	0.41				
33,000-38,999	1.58	1.31	1.04	0.77	0.50			
39,000-44,999	1.94	1.66	1.39	1.12	0.85	0.58		
45,000-53,999	2.29	2.02	1.75	1.48	1.20	0.93	0.66	
54,000-64,999	3.00	2.73	2.46	2.18	1.91	1.64	1.37	0.83
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.18							
15,000-20,999	0.53	0.26						
21,000-26,999	0.88	0.62	0.35					
27,000-32,999	1.24	0.97	0.70	0.44				
33,000-38,999	1.59	1.33	1.06	0.79	0.53			
39,000-44,999	1.95	1.68	1.41	1.15	0.88	0.61		
45,000-53,999	2.30	2.03	1.77	1.50	1.23	0.97	0.70	
54,000-64,999	3.01	2.74	2.47	2.21	1.94	1.68	1.41	0.88

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.18							
15,000-20,999	0.53	0.27						
21,000-26,999	0.89	0.63	0.36					
27,000-32,999	1.24	0.98	0.72	0.45				
33,000-38,999	1.60	1.33	1.07	0.81	0.54			
39,000-44,999	1.95	1.69	1.42	1.16	0.90	0.63		
45,000-53,999	2.31	2.04	1.78	1.51	1.25	0.99	0.72	
54,000-64,999	3.01	2.75	2.49	2.22	1.96	1.70	1.43	0.90

Heating, Early Retirement of a Heat Pump

Table 446: Central Winter Demand Savings for 7.7 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.12							
15,000-20,999	0.51	0.18						
21,000-26,999	0.90	0.57	0.24					
27,000-32,999	1.29	0.96	0.63	0.30				
33,000-38,999	1.67	1.34	1.02	0.69	0.36			
39,000-44,999	2.06	1.73	1.40	1.07	0.75	0.42		
45,000-53,999	2.45	2.12	1.79	1.46	1.13	0.80	0.48	
54,000-64,999	3.23	2.90	2.57	2.24	1.91	1.58	1.25	0.59

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.17							
15,000-20,999	0.56	0.26						
21,000-26,999	0.95	0.65	0.35					
27,000-32,999	1.34	1.04	0.74	0.44				
33,000-38,999	1.73	1.43	1.13	0.83	0.52			
39,000-44,999	2.12	1.82	1.52	1.21	0.91	0.61		
45,000-53,999	2.51	2.21	1.90	1.60	1.30	1.00	0.70	
54,000-64,999	3.29	2.98	2.68	2.38	2.08	1.78	1.48	0.87
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.20							
15,000-20,999	0.59	0.31						
21,000-26,999	0.98	0.69	0.41					
27,000-32,999	1.37	1.08	0.80	0.51				
33,000-38,999	1.76	1.47	1.19	0.90	0.61			
39,000-44,999	2.15	1.86	1.57	1.29	1.00	0.71		
45,000-53,999	2.54	2.25	1.96	1.68	1.39	1.10	0.81	
54,000-64,999	3.31	3.03	2.74	2.45	2.17	1.88	1.59	1.02
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.21							
15,000-20,999	0.60	0.32						
21,000-26,999	0.99	0.71	0.43					
27,000-32,999	1.38	1.10	0.82	0.54				
33,000-38,999	1.77	1.49	1.21	0.93	0.64			
39,000-44,999	2.16	1.88	1.60	1.31	1.03	0.75		
45,000-53,999	2.55	2.27	1.98	1.70	1.42	1.14	0.86	
54,000-64,999	3.33	3.04	2.76	2.48	2.20	1.92	1.64	1.07

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.23							
15,000-20,999	0.61	0.34						
21,000-26,999	1.00	0.73	0.45					
27,000-32,999	1.39	1.12	0.84	0.56				
33,000-38,999	1.78	1.50	1.23	0.95	0.68			
39,000-44,999	2.17	1.89	1.62	1.34	1.06	0.79		
45,000-53,999	2.56	2.28	2.01	1.73	1.45	1.18	0.90	
54,000-64,999	3.34	3.06	2.78	2.51	2.23	1.95	1.68	1.13
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.24							
15,000-20,999	0.62	0.35						
21,000-26,999	1.01	0.74	0.47					
27,000-32,999	1.40	1.13	0.86	0.59				
33,000-38,999	1.79	1.52	1.25	0.98	0.71			
39,000-44,999	2.18	1.91	1.64	1.37	1.09	0.82		
45,000-53,999	2.57	2.30	2.03	1.75	1.48	1.21	0.94	
54,000-64,999	3.35	3.07	2.80	2.53	2.26	1.99	1.72	1.18
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.24							
15,000-20,999	0.63	0.37						
21,000-26,999	1.02	0.76	0.49					
27,000-32,999	1.41	1.15	0.88	0.61				
33,000-38,999	1.80	1.53	1.27	1.00	0.73			
39,000-44,999	2.19	1.92	1.66	1.39	1.12	0.86		
45,000-53,999	2.58	2.31	2.05	1.78	1.51	1.25	0.98	
54,000-64,999	3.36	3.09	2.82	2.56	2.29	2.02	1.76	1.22

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.25							
15,000-20,999	0.64	0.38						
21,000-26,999	1.03	0.76	0.50					
27,000-32,999	1.42	1.15	0.89	0.63				
33,000-38,999	1.81	1.54	1.28	1.02	0.75			
39,000-44,999	2.19	1.93	1.67	1.40	1.14	0.88		
45,000-53,999	2.58	2.32	2.06	1.79	1.53	1.27	1.00	
54,000-64,999	3.36	3.10	2.83	2.57	2.31	2.04	1.78	1.25

Table 447: Central Winter Demand Savings for 6.8 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.29							
15,000-20,999	0.76	0.43						
21,000-26,999	1.23	0.90	0.57					
27,000-32,999	1.70	1.37	1.04	0.72				
33,000-38,999	2.18	1.85	1.52	1.19	0.86			
39,000-44,999	2.65	2.32	1.99	1.66	1.33	1.00		
45,000-53,999	3.12	2.79	2.46	2.13	1.80	1.47	1.14	
54,000-64,999	4.07	3.74	3.41	3.08	2.75	2.42	2.09	1.43

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.34							
15,000-20,999	0.81	0.51						
21,000-26,999	1.29	0.99	0.68					
27,000-32,999	1.76	1.46	1.16	0.85				
33,000-38,999	2.23	1.93	1.63	1.33	1.03			
39,000-44,999	2.70	2.40	2.10	1.80	1.50	1.20		
45,000-53,999	3.18	2.88	2.57	2.27	1.97	1.67	1.37	
54,000-64,999	4.12	3.82	3.52	3.22	2.92	2.61	2.31	1.71
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.37							
15,000-20,999	0.84	0.56						
21,000-26,999	1.32	1.03	0.74					
27,000-32,999	1.79	1.50	1.21	0.93				
33,000-38,999	2.26	1.97	1.69	1.40	1.11			
39,000-44,999	2.73	2.45	2.16	1.87	1.59	1.30		
45,000-53,999	3.21	2.92	2.63	2.34	2.06	1.77	1.48	
54,000-64,999	4.15	3.86	3.58	3.29	3.00	2.72	2.43	1.85
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.38							
15,000-20,999	0.85	0.57						
21,000-26,999	1.33	1.05	0.76					
27,000-32,999	1.80	1.52	1.24	0.95				
33,000-38,999	2.27	1.99	1.71	1.43	1.15			
39,000-44,999	2.74	2.46	2.18	1.90	1.62	1.34		
45,000-53,999	3.22	2.94	2.65	2.37	2.09	1.81	1.53	
54,000-64,999	4.16	3.88	3.60	3.32	3.04	2.75	2.47	1.91



10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.39							
15,000-20,999	0.86	0.59						
21,000-26,999	1.34	1.06	0.78					
27,000-32,999	1.81	1.53	1.26	0.98				
33,000-38,999	2.28	2.01	1.73	1.45	1.18			
39,000-44,999	2.75	2.48	2.20	1.93	1.65	1.37		
45,000-53,999	3.23	2.95	2.67	2.40	2.12	1.85	1.57	
54,000-64,999	4.17	3.90	3.62	3.34	3.07	2.79	2.51	1.96
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.40							
15,000-20,999	0.87	0.60						
21,000-26,999	1.35	1.08	0.80					
27,000-32,999	1.82	1.55	1.28	1.01				
33,000-38,999	2.29	2.02	1.75	1.48	1.21			
39,000-44,999	2.77	2.49	2.22	1.95	1.68	1.41		
45,000-53,999	3.24	2.97	2.70	2.42	2.15	1.88	1.61	
54,000-64,999	4.18	3.91	3.64	3.37	3.10	2.83	2.55	2.01
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.41							
15,000-20,999	0.88	0.62						
21,000-26,999	1.36	1.09	0.82					
27,000-32,999	1.83	1.56	1.30	1.03				
33,000-38,999	2.30	2.04	1.77	1.50	1.24			
39,000-44,999	2.77	2.51	2.24	1.98	1.71	1.44		
45,000-53,999	3.25	2.98	2.71	2.45	2.18	1.92	1.65	
54,000-64,999	4.19	3.93	3.66	3.39	3.13	2.86	2.59	2.06



12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.42							
15,000-20,999	0.89	0.63						
21,000-26,999	1.36	1.10	0.84					
27,000-32,999	1.84	1.57	1.31	1.04				
33,000-38,999	2.31	2.04	1.78	1.52	1.25			
39,000-44,999	2.78	2.52	2.25	1.99	1.73	1.46		
45,000-53,999	3.25	2.99	2.73	2.46	2.20	1.94	1.67	
54,000-64,999	4.20	3.93	3.67	3.41	3.14	2.88	2.62	2.09

Heating, Early Retirement of an Electric Resistance Furnace

Table 448: Central Winter Demand Savings for 3.412 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.51							
15,000-20,999	2.60	2.27						
21,000-26,999	3.68	3.35	3.02					
27,000-32,999	4.77	4.44	4.11	3.78				
33,000-38,999	5.85	5.52	5.19	4.86	4.53			
39,000-44,999	6.94	6.61	6.28	5.95	5.62	5.29		
45,000-53,999	8.02	7.69	7.36	7.03	6.70	6.37	6.05	
54,000-64,999	10.19	9.86	9.53	9.20	8.87	8.54	8.22	7.56

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.57							
15,000-20,999	2.65	2.35						
21,000-26,999	3.74	3.44	3.13					
27,000-32,999	4.82	4.52	4.22	3.92				
33,000-38,999	5.91	5.61	5.30	5.00	4.70			
39,000-44,999	6.99	6.69	6.39	6.09	5.79	5.48		
45,000-53,999	8.08	7.78	7.47	7.17	6.87	6.57	6.27	
54,000-64,999	10.25	9.95	9.64	9.34	9.04	8.74	8.44	7.84
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.60							
15,000-20,999	2.68	2.39						
21,000-26,999	3.77	3.48	3.19					
27,000-32,999	4.85	4.56	4.28	3.99				
33,000-38,999	5.94	5.65	5.36	5.08	4.79			
39,000-44,999	7.02	6.73	6.45	6.16	5.87	5.59		
45,000-53,999	8.11	7.82	7.53	7.25	6.96	6.67	6.38	
54,000-64,999	10.28	9.99	9.70	9.42	9.13	8.84	8.55	7.98
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.61							
15,000-20,999	2.69	2.41						
21,000-26,999	3.78	3.50	3.21					
27,000-32,999	4.86	4.58	4.30	4.02				
33,000-38,999	5.95	5.67	5.38	5.10	4.82			
39,000-44,999	7.03	6.75	6.47	6.19	5.91	5.62		
45,000-53,999	8.12	7.84	7.55	7.27	6.99	6.71	6.43	
54,000-64,999	10.29	10.01	9.72	9.44	9.16	8.88	8.60	8.03

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.62							
15,000-20,999	2.70	2.43						
21,000-26,999	3.79	3.51	3.23					
27,000-32,999	4.87	4.60	4.32	4.04				
33,000-38,999	5.96	5.68	5.41	5.13	4.85			
39,000-44,999	7.04	6.77	6.49	6.21	5.94	5.66		
45,000-53,999	8.13	7.85	7.58	7.30	7.02	6.75	6.47	
54,000-64,999	10.30	10.02	9.75	9.47	9.19	8.92	8.64	8.09
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.63							
15,000-20,999	2.71	2.44						
21,000-26,999	3.80	3.53	3.26					
27,000-32,999	4.88	4.61	4.34	4.07				
33,000-38,999	5.97	5.70	5.43	5.15	4.88			
39,000-44,999	7.05	6.78	6.51	6.24	5.97	5.70		
45,000-53,999	8.14	7.87	7.60	7.32	7.05	6.78	6.51	
54,000-64,999	10.31	10.04	9.77	9.49	9.22	8.95	8.68	8.14
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.64							
15,000-20,999	2.72	2.46						
21,000-26,999	3.81	3.54	3.27					
27,000-32,999	4.89	4.63	4.36	4.09				
33,000-38,999	5.98	5.71	5.44	5.18	4.91			
39,000-44,999	7.06	6.80	6.53	6.26	6.00	5.73		
45,000-53,999	8.15	7.88	7.62	7.35	7.08	6.82	6.55	
54,000-64,999	10.32	10.05	9.79	9.52	9.25	8.99	8.72	8.19

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.64							
15,000-20,999	2.73	2.46						
21,000-26,999	3.81	3.55	3.29					
27,000-32,999	4.90	4.63	4.37	4.11				
33,000-38,999	5.98	5.72	5.46	5.19	4.93			
39,000-44,999	7.07	6.80	6.54	6.28	6.01	5.75		
45,000-53,999	8.15	7.89	7.63	7.36	7.10	6.84	6.57	
54,000-64,999	10.32	10.06	9.80	9.53	9.27	9.01	8.74	8.22

**Climate Zone 4: Valley Region, Corpus Christi**

**Heating, New Construction/Replace-on-Burnout**

Table 449: Central Winter Demand Savings for 8.2 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.04							
15,000-20,999	0.30	0.06						
21,000-26,999	0.57	0.32	0.07					
27,000-32,999	0.84	0.59	0.34	0.09				
33,000-38,999	1.10	0.85	0.61	0.36	0.11			
39,000-44,999	1.37	1.12	0.87	0.62	0.38	0.13		
45,000-53,999	1.63	1.39	1.14	0.89	0.64	0.40	0.15	
54,000-64,999	2.17	1.92	1.67	1.42	1.18	0.93	0.68	0.18

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.08							
15,000-20,999	0.35	0.12						
21,000-26,999	0.61	0.38	0.16					
27,000-32,999	0.88	0.65	0.42	0.20				
33,000-38,999	1.14	0.92	0.69	0.46	0.24			
39,000-44,999	1.41	1.18	0.96	0.73	0.50	0.28		
45,000-53,999	1.68	1.45	1.22	1.00	0.77	0.54	0.32	
54,000-64,999	2.21	1.98	1.75	1.53	1.30	1.07	0.85	0.39
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.10							
15,000-20,999	0.37	0.15						
21,000-26,999	0.63	0.42	0.20					
27,000-32,999	0.90	0.68	0.47	0.25				
33,000-38,999	1.17	0.95	0.73	0.52	0.30			
39,000-44,999	1.43	1.22	1.00	0.78	0.57	0.35		
45,000-53,999	1.70	1.48	1.27	1.05	0.83	0.62	0.40	
54,000-64,999	2.23	2.01	1.80	1.58	1.37	1.15	0.94	0.50
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.11							
15,000-20,999	0.38	0.16						
21,000-26,999	0.64	0.43	0.22					
27,000-32,999	0.91	0.70	0.48	0.27				
33,000-38,999	1.17	0.96	0.75	0.54	0.33			
39,000-44,999	1.44	1.23	1.02	0.80	0.59	0.38		
45,000-53,999	1.71	1.49	1.28	1.07	0.86	0.65	0.44	
54,000-64,999	2.24	2.03	1.81	1.60	1.39	1.18	0.97	0.54

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.12							
15,000-20,999	0.38	0.18						
21,000-26,999	0.65	0.44	0.23					
27,000-32,999	0.92	0.71	0.50	0.29				
33,000-38,999	1.18	0.97	0.77	0.56	0.35			
39,000-44,999	1.45	1.24	1.03	0.82	0.62	0.41		
45,000-53,999	1.71	1.51	1.30	1.09	0.88	0.67	0.47	
54,000-64,999	2.25	2.04	1.83	1.62	1.41	1.21	1.00	0.58
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.12							
15,000-20,999	0.39	0.19						
21,000-26,999	0.66	0.45	0.25					
27,000-32,999	0.92	0.72	0.51	0.31				
33,000-38,999	1.19	0.98	0.78	0.58	0.37			
39,000-44,999	1.45	1.25	1.05	0.84	0.64	0.44		
45,000-53,999	1.72	1.52	1.31	1.11	0.91	0.70	0.50	
54,000-64,999	2.25	2.05	1.85	1.64	1.44	1.23	1.03	0.62
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.13							
15,000-20,999	0.40	0.20						
21,000-26,999	0.66	0.46	0.26					
27,000-32,999	0.93	0.73	0.53	0.33				
33,000-38,999	1.20	1.00	0.80	0.60	0.40			
39,000-44,999	1.46	1.26	1.06	0.86	0.66	0.46		
45,000-53,999	1.73	1.53	1.33	1.13	0.93	0.73	0.53	
54,000-64,999	2.26	2.06	1.86	1.66	1.46	1.26	1.06	0.66

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.14							
15,000-20,999	0.40	0.20						
21,000-26,999	0.67	0.47	0.27					
27,000-32,999	0.93	0.74	0.54	0.34				
33,000-38,999	1.20	1.00	0.80	0.61	0.41			
39,000-44,999	1.47	1.27	1.07	0.87	0.67	0.48		
45,000-53,999	1.73	1.53	1.34	1.14	0.94	0.74	0.54	
54,000-64,999	2.26	2.07	1.87	1.67	1.47	1.27	1.08	0.68

Heating, Early Retirement of a Heat Pump

Table 450: Central Winter Demand Savings for 7.7 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.09							
15,000-20,999	0.38	0.13						
21,000-26,999	0.67	0.43	0.18					
27,000-32,999	0.97	0.72	0.47	0.22				
33,000-38,999	1.26	1.01	0.76	0.52	0.27			
39,000-44,999	1.55	1.30	1.06	0.81	0.56	0.31		
45,000-53,999	1.84	1.60	1.35	1.10	0.85	0.60	0.36	
54,000-64,999	2.43	2.18	1.93	1.68	1.44	1.19	0.94	0.45



9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.13							
15,000-20,999	0.42	0.20						
21,000-26,999	0.72	0.49	0.26					
27,000-32,999	1.01	0.78	0.55	0.33				
33,000-38,999	1.30	1.07	0.85	0.62	0.39			
39,000-44,999	1.59	1.37	1.14	0.91	0.69	0.46		
45,000-53,999	1.89	1.66	1.43	1.21	0.98	0.75	0.53	
54,000-64,999	2.47	2.24	2.02	1.79	1.56	1.34	1.11	0.66
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.15							
15,000-20,999	0.45	0.23						
21,000-26,999	0.74	0.52	0.31					
27,000-32,999	1.03	0.81	0.60	0.38				
33,000-38,999	1.32	1.11	0.89	0.67	0.46			
39,000-44,999	1.61	1.40	1.18	0.97	0.75	0.54		
45,000-53,999	1.91	1.69	1.48	1.26	1.04	0.83	0.61	
54,000-64,999	2.49	2.28	2.06	1.84	1.63	1.41	1.20	0.77
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.16							
15,000-20,999	0.45	0.24						
21,000-26,999	0.75	0.53	0.32					
27,000-32,999	1.04	0.83	0.61	0.40				
33,000-38,999	1.33	1.12	0.91	0.70	0.48			
39,000-44,999	1.62	1.41	1.20	0.99	0.78	0.56		
45,000-53,999	1.92	1.70	1.49	1.28	1.07	0.86	0.65	
54,000-64,999	2.50	2.29	2.08	1.86	1.65	1.44	1.23	0.81



10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.17							
15,000-20,999	0.46	0.25						
21,000-26,999	0.75	0.55	0.34					
27,000-32,999	1.05	0.84	0.63	0.42				
33,000-38,999	1.34	1.13	0.92	0.72	0.51			
39,000-44,999	1.63	1.42	1.22	1.01	0.80	0.59		
45,000-53,999	1.92	1.72	1.51	1.30	1.09	0.88	0.68	
54,000-64,999	2.51	2.30	2.09	1.88	1.68	1.47	1.26	0.85
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.18							
15,000-20,999	0.47	0.27						
21,000-26,999	0.76	0.56	0.35					
27,000-32,999	1.05	0.85	0.65	0.44				
33,000-38,999	1.35	1.14	0.94	0.73	0.53			
39,000-44,999	1.64	1.43	1.23	1.03	0.82	0.62		
45,000-53,999	1.93	1.73	1.52	1.32	1.11	0.91	0.71	
54,000-64,999	2.52	2.31	2.11	1.90	1.70	1.50	1.29	0.88
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.18							
15,000-20,999	0.48	0.28						
21,000-26,999	0.77	0.57	0.37					
27,000-32,999	1.06	0.86	0.66	0.46				
33,000-38,999	1.35	1.15	0.95	0.75	0.55			
39,000-44,999	1.65	1.45	1.25	1.04	0.84	0.64		
45,000-53,999	1.94	1.74	1.54	1.34	1.14	0.94	0.74	
54,000-64,999	2.52	2.32	2.12	1.92	1.72	1.52	1.32	0.92

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.19							
15,000-20,999	0.48	0.28						
21,000-26,999	0.77	0.57	0.38					
27,000-32,999	1.07	0.87	0.67	0.47				
33,000-38,999	1.36	1.16	0.96	0.76	0.57			
39,000-44,999	1.65	1.45	1.25	1.06	0.86	0.66		
45,000-53,999	1.94	1.74	1.55	1.35	1.15	0.95	0.75	
54,000-64,999	2.53	2.33	2.13	1.93	1.73	1.54	1.34	0.94

Table 451: Central Winter Demand Savings for 6.8 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.22							
15,000-20,999	0.57	0.32						
21,000-26,999	0.93	0.68	0.43					
27,000-32,999	1.28	1.03	0.79	0.54				
33,000-38,999	1.64	1.39	1.14	0.89	0.65			
39,000-44,999	1.99	1.74	1.50	1.25	1.00	0.75		
45,000-53,999	2.35	2.10	1.85	1.60	1.36	1.11	0.86	
54,000-64,999	3.06	2.81	2.56	2.31	2.07	1.82	1.57	1.08

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.26							
15,000-20,999	0.61	0.39						
21,000-26,999	0.97	0.74	0.51					
27,000-32,999	1.32	1.10	0.87	0.64				
33,000-38,999	1.68	1.45	1.22	1.00	0.77			
39,000-44,999	2.03	1.81	1.58	1.35	1.13	0.90		
45,000-53,999	2.39	2.16	1.93	1.71	1.48	1.25	1.03	
54,000-64,999	3.10	2.87	2.65	2.42	2.19	1.97	1.74	1.29
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.28							
15,000-20,999	0.63	0.42						
21,000-26,999	0.99	0.77	0.56					
27,000-32,999	1.34	1.13	0.91	0.70				
33,000-38,999	1.70	1.48	1.27	1.05	0.84			
39,000-44,999	2.05	1.84	1.62	1.41	1.19	0.98		
45,000-53,999	2.41	2.19	1.98	1.76	1.55	1.33	1.12	
54,000-64,999	3.12	2.90	2.69	2.47	2.26	2.04	1.83	1.39
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.29							
15,000-20,999	0.64	0.43						
21,000-26,999	1.00	0.79	0.57					
27,000-32,999	1.35	1.14	0.93	0.72				
33,000-38,999	1.71	1.50	1.28	1.07	0.86			
39,000-44,999	2.06	1.85	1.64	1.43	1.22	1.00		
45,000-53,999	2.42	2.21	1.99	1.78	1.57	1.36	1.15	
54,000-64,999	3.13	2.92	2.71	2.49	2.28	2.07	1.86	1.44

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.29							
15,000-20,999	0.65	0.44						
21,000-26,999	1.01	0.80	0.59					
27,000-32,999	1.36	1.15	0.95	0.74				
33,000-38,999	1.72	1.51	1.30	1.09	0.88			
39,000-44,999	2.07	1.86	1.66	1.45	1.24	1.03		
45,000-53,999	2.43	2.22	2.01	1.80	1.60	1.39	1.18	
54,000-64,999	3.14	2.93	2.72	2.51	2.31	2.10	1.89	1.47
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.30							
15,000-20,999	0.66	0.45						
21,000-26,999	1.01	0.81	0.61					
27,000-32,999	1.37	1.16	0.96	0.76				
33,000-38,999	1.72	1.52	1.32	1.11	0.91			
39,000-44,999	2.08	1.87	1.67	1.47	1.26	1.06		
45,000-53,999	2.43	2.23	2.03	1.82	1.62	1.41	1.21	
54,000-64,999	3.14	2.94	2.74	2.53	2.33	2.12	1.92	1.51
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.31							
15,000-20,999	0.67	0.46						
21,000-26,999	1.02	0.82	0.62					
27,000-32,999	1.38	1.18	0.97	0.77				
33,000-38,999	1.73	1.53	1.33	1.13	0.93			
39,000-44,999	2.09	1.89	1.69	1.48	1.28	1.08		
45,000-53,999	2.44	2.24	2.04	1.84	1.64	1.44	1.24	
54,000-64,999	3.15	2.95	2.75	2.55	2.35	2.15	1.95	1.55

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.31							
15,000-20,999	0.67	0.47						
21,000-26,999	1.02	0.83	0.63					
27,000-32,999	1.38	1.18	0.98	0.79				
33,000-38,999	1.73	1.54	1.34	1.14	0.94			
39,000-44,999	2.09	1.89	1.69	1.50	1.30	1.10		
45,000-53,999	2.45	2.25	2.05	1.85	1.65	1.45	1.26	
54,000-64,999	3.16	2.96	2.76	2.56	2.36	2.16	1.97	1.57

Heating, Early Retirement of an Electric Resistance Furnace

Table 452: Central Winter Demand Savings for 3.412 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.16							
15,000-20,999	1.99	1.74						
21,000-26,999	2.82	2.57	2.32					
27,000-32,999	3.65	3.40	3.15	2.90				
33,000-38,999	4.47	4.23	3.98	3.73	3.48			
39,000-44,999	5.30	5.05	4.81	4.56	4.31	4.06		
45,000-53,999	6.13	5.88	5.63	5.39	5.14	4.89	4.64	
54,000-64,999	7.79	7.54	7.29	7.04	6.80	6.55	6.30	5.80

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.20							
15,000-20,999	2.03	1.80						
21,000-26,999	2.86	2.63	2.41					
27,000-32,999	3.69	3.46	3.23	3.01				
33,000-38,999	4.52	4.29	4.06	3.84	3.61			
39,000-44,999	5.34	5.12	4.89	4.66	4.44	4.21		
45,000-53,999	6.17	5.94	5.72	5.49	5.26	5.04	4.81	
54,000-64,999	7.83	7.60	7.37	7.15	6.92	6.69	6.47	6.01
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.22							
15,000-20,999	2.05	1.84						
21,000-26,999	2.88	2.67	2.45					
27,000-32,999	3.71	3.49	3.28	3.06				
33,000-38,999	4.54	4.32	4.11	3.89	3.67			
39,000-44,999	5.37	5.15	4.93	4.72	4.50	4.29		
45,000-53,999	6.19	5.98	5.76	5.55	5.33	5.11	4.90	
54,000-64,999	7.85	7.63	7.42	7.20	6.99	6.77	6.55	6.12
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.23							
15,000-20,999	2.06	1.85						
21,000-26,999	2.89	2.68	2.47					
27,000-32,999	3.72	3.51	3.29	3.08				
33,000-38,999	4.55	4.33	4.12	3.91	3.70			
39,000-44,999	5.37	5.16	4.95	4.74	4.53	4.32		
45,000-53,999	6.20	5.99	5.78	5.57	5.35	5.14	4.93	
54,000-64,999	7.86	7.65	7.43	7.22	7.01	6.80	6.59	6.16

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.24							
15,000-20,999	2.07	1.86						
21,000-26,999	2.90	2.69	2.48					
27,000-32,999	3.73	3.52	3.31	3.10				
33,000-38,999	4.55	4.35	4.14	3.93	3.72			
39,000-44,999	5.38	5.17	4.97	4.76	4.55	4.34		
45,000-53,999	6.21	6.00	5.79	5.59	5.38	5.17	4.96	
54,000-64,999	7.87	7.66	7.45	7.24	7.03	6.83	6.62	6.20
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.25							
15,000-20,999	2.08	1.87						
21,000-26,999	2.90	2.70	2.50					
27,000-32,999	3.73	3.53	3.32	3.12				
33,000-38,999	4.56	4.36	4.15	3.95	3.75			
39,000-44,999	5.39	5.18	4.98	4.78	4.57	4.37		
45,000-53,999	6.22	6.01	5.81	5.61	5.40	5.20	4.99	
54,000-64,999	7.87	7.67	7.47	7.26	7.06	6.85	6.65	6.24
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.26							
15,000-20,999	2.08	1.88						
21,000-26,999	2.91	2.71	2.51					
27,000-32,999	3.74	3.54	3.34	3.14				
33,000-38,999	4.57	4.37	4.17	3.97	3.77			
39,000-44,999	5.40	5.20	5.00	4.80	4.60	4.39		
45,000-53,999	6.22	6.02	5.82	5.62	5.42	5.22	5.02	
54,000-64,999	7.88	7.68	7.48	7.28	7.08	6.88	6.68	6.28



12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.26							
15,000-20,999	2.09	1.89						
21,000-26,999	2.92	2.72	2.52					
27,000-32,999	3.74	3.55	3.35	3.15				
33,000-38,999	4.57	4.37	4.18	3.98	3.78			
39,000-44,999	5.40	5.20	5.00	4.81	4.61	4.41		
45,000-53,999	6.23	6.03	5.83	5.63	5.44	5.24	5.04	
54,000-64,999	7.88	7.69	7.49	7.29	7.09	6.89	6.70	6.30

**Climate Zone 5: West Region, El Paso**

**Heating, New Construction/Replace-on-Burnout**

Table 453: Central Winter Demand Savings for 8.2 HSPF Baseline—Zone 5

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.03							
15,000-20,999	0.26	0.05						
21,000-26,999	0.49	0.28	0.06					
27,000-32,999	0.72	0.50	0.29	0.08				
33,000-38,999	0.95	0.73	0.52	0.31	0.10			
39,000-44,999	1.17	0.96	0.75	0.54	0.32	0.11		
45,000-53,999	1.40	1.19	0.98	0.77	0.55	0.34	0.13	
54,000-64,999	1.86	1.65	1.43	1.22	1.01	0.80	0.58	0.16



9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.07							
15,000-20,999	0.30	0.10						
21,000-26,999	0.52	0.33	0.14					
27,000-32,999	0.75	0.56	0.36	0.17				
33,000-38,999	0.98	0.79	0.59	0.40	0.20			
39,000-44,999	1.21	1.02	0.82	0.63	0.43	0.24		
45,000-53,999	1.44	1.24	1.05	0.86	0.66	0.47	0.27	
54,000-64,999	1.90	1.70	1.51	1.31	1.12	0.92	0.73	0.34
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.09							
15,000-20,999	0.32	0.13						
21,000-26,999	0.54	0.36	0.17					
27,000-32,999	0.77	0.59	0.40	0.22				
33,000-38,999	1.00	0.82	0.63	0.44	0.26			
39,000-44,999	1.23	1.04	0.86	0.67	0.49	0.30		
45,000-53,999	1.46	1.27	1.09	0.90	0.72	0.53	0.35	
54,000-64,999	1.92	1.73	1.54	1.36	1.17	0.99	0.80	0.43
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.09							
15,000-20,999	0.32	0.14						
21,000-26,999	0.55	0.37	0.19					
27,000-32,999	0.78	0.60	0.42	0.23				
33,000-38,999	1.01	0.83	0.64	0.46	0.28			
39,000-44,999	1.24	1.05	0.87	0.69	0.51	0.33		
45,000-53,999	1.46	1.28	1.10	0.92	0.74	0.56	0.37	
54,000-64,999	1.92	1.74	1.56	1.38	1.19	1.01	0.83	0.47

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.10							
15,000-20,999	0.33	0.15						
21,000-26,999	0.56	0.38	0.20					
27,000-32,999	0.79	0.61	0.43	0.25				
33,000-38,999	1.01	0.84	0.66	0.48	0.30			
39,000-44,999	1.24	1.06	0.89	0.71	0.53	0.35		
45,000-53,999	1.47	1.29	1.11	0.94	0.76	0.58	0.40	
54,000-64,999	1.93	1.75	1.57	1.39	1.22	1.04	0.86	0.50
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.11							
15,000-20,999	0.34	0.16						
21,000-26,999	0.56	0.39	0.21					
27,000-32,999	0.79	0.62	0.44	0.27				
33,000-38,999	1.02	0.85	0.67	0.50	0.32			
39,000-44,999	1.25	1.07	0.90	0.72	0.55	0.37		
45,000-53,999	1.48	1.30	1.13	0.95	0.78	0.60	0.43	
54,000-64,999	1.94	1.76	1.59	1.41	1.23	1.06	0.88	0.53
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.11							
15,000-20,999	0.34	0.17						
21,000-26,999	0.57	0.40	0.23					
27,000-32,999	0.80	0.63	0.45	0.28				
33,000-38,999	1.03	0.86	0.68	0.51	0.34			
39,000-44,999	1.26	1.08	0.91	0.74	0.57	0.40		
45,000-53,999	1.48	1.31	1.14	0.97	0.80	0.62	0.45	
54,000-64,999	1.94	1.77	1.60	1.43	1.25	1.08	0.91	0.57

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.12							
15,000-20,999	0.35	0.18						
21,000-26,999	0.57	0.40	0.23					
27,000-32,999	0.80	0.63	0.46	0.29				
33,000-38,999	1.03	0.86	0.69	0.52	0.35			
39,000-44,999	1.26	1.09	0.92	0.75	0.58	0.41		
45,000-53,999	1.49	1.32	1.15	0.98	0.81	0.64	0.47	
54,000-64,999	1.95	1.78	1.61	1.43	1.26	1.09	0.92	0.58

Heating, Early Retirement of a Heat Pump

Table 454: Central Winter Demand Savings for 7.7 HSPF Baseline—Zone 5

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.08							
15,000-20,999	0.33	0.12						
21,000-26,999	0.58	0.37	0.15					
27,000-32,999	0.83	0.62	0.40	0.19				
33,000-38,999	1.08	0.87	0.66	0.44	0.23			
39,000-44,999	1.33	1.12	0.91	0.69	0.48	0.27		
45,000-53,999	1.58	1.37	1.16	0.94	0.73	0.52	0.31	
54,000-64,999	2.09	1.87	1.66	1.45	1.23	1.02	0.81	0.38

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.11							
15,000-20,999	0.36	0.17						
21,000-26,999	0.61	0.42	0.23					
27,000-32,999	0.87	0.67	0.48	0.28				
33,000-38,999	1.12	0.92	0.73	0.53	0.34			
39,000-44,999	1.37	1.17	0.98	0.78	0.59	0.39		
45,000-53,999	1.62	1.42	1.23	1.04	0.84	0.65	0.45	
54,000-64,999	2.12	1.93	1.73	1.54	1.34	1.15	0.95	0.56
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.13							
15,000-20,999	0.38	0.20						
21,000-26,999	0.63	0.45	0.26					
27,000-32,999	0.88	0.70	0.51	0.33				
33,000-38,999	1.14	0.95	0.77	0.58	0.39			
39,000-44,999	1.39	1.20	1.02	0.83	0.65	0.46		
45,000-53,999	1.64	1.45	1.27	1.08	0.90	0.71	0.53	
54,000-64,999	2.14	1.95	1.77	1.58	1.40	1.21	1.03	0.66
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.14							
15,000-20,999	0.39	0.21						
21,000-26,999	0.64	0.46	0.28					
27,000-32,999	0.89	0.71	0.53	0.35				
33,000-38,999	1.14	0.96	0.78	0.60	0.42			
39,000-44,999	1.39	1.21	1.03	0.85	0.67	0.48		
45,000-53,999	1.64	1.46	1.28	1.10	0.92	0.74	0.55	
54,000-64,999	2.15	1.97	1.78	1.60	1.42	1.24	1.06	0.69

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.15							
15,000-20,999	0.40	0.22						
21,000-26,999	0.65	0.47	0.29					
27,000-32,999	0.90	0.72	0.54	0.36				
33,000-38,999	1.15	0.97	0.79	0.61	0.44			
39,000-44,999	1.40	1.22	1.04	0.87	0.69	0.51		
45,000-53,999	1.65	1.47	1.29	1.12	0.94	0.76	0.58	
54,000-64,999	2.15	1.98	1.80	1.62	1.44	1.26	1.08	0.73
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.15							
15,000-20,999	0.40	0.23						
21,000-26,999	0.65	0.48	0.30					
27,000-32,999	0.90	0.73	0.55	0.38				
33,000-38,999	1.16	0.98	0.81	0.63	0.46			
39,000-44,999	1.41	1.23	1.06	0.88	0.71	0.53		
45,000-53,999	1.66	1.48	1.31	1.13	0.96	0.78	0.61	
54,000-64,999	2.16	1.99	1.81	1.63	1.46	1.28	1.11	0.76
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.16							
15,000-20,999	0.41	0.24						
21,000-26,999	0.66	0.49	0.32					
27,000-32,999	0.91	0.74	0.57	0.40				
33,000-38,999	1.16	0.99	0.82	0.65	0.47			
39,000-44,999	1.41	1.24	1.07	0.90	0.73	0.55		
45,000-53,999	1.66	1.49	1.32	1.15	0.98	0.80	0.63	
54,000-64,999	2.17	1.99	1.82	1.65	1.48	1.31	1.13	0.79

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.16							
15,000-20,999	0.41	0.24						
21,000-26,999	0.66	0.49	0.32					
27,000-32,999	0.91	0.74	0.57	0.40				
33,000-38,999	1.17	1.00	0.83	0.66	0.49			
39,000-44,999	1.42	1.25	1.08	0.91	0.74	0.57		
45,000-53,999	1.67	1.50	1.33	1.16	0.99	0.82	0.65	
54,000-64,999	2.17	2.00	1.83	1.66	1.49	1.32	1.15	0.81

Table 455: Central Winter Demand Savings for 6.8 HSPF Baseline—Zone 5

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.18							
15,000-20,999	0.49	0.28						
21,000-26,999	0.79	0.58	0.37					
27,000-32,999	1.10	0.89	0.67	0.46				
33,000-38,999	1.40	1.19	0.98	0.77	0.55			
39,000-44,999	1.71	1.50	1.28	1.07	0.86	0.65		
45,000-53,999	2.02	1.80	1.59	1.38	1.16	0.95	0.74	
54,000-64,999	2.63	2.41	2.20	1.99	1.77	1.56	1.35	0.92

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.22							
15,000-20,999	0.53	0.33						
21,000-26,999	0.83	0.64	0.44					
27,000-32,999	1.14	0.94	0.75	0.55				
33,000-38,999	1.44	1.25	1.05	0.86	0.66			
39,000-44,999	1.75	1.55	1.36	1.16	0.97	0.77		
45,000-53,999	2.05	1.86	1.66	1.47	1.27	1.08	0.88	
54,000-64,999	2.66	2.47	2.27	2.08	1.88	1.69	1.49	1.10
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.24							
15,000-20,999	0.54	0.36						
21,000-26,999	0.85	0.66	0.48					
27,000-32,999	1.15	0.97	0.78	0.60				
33,000-38,999	1.46	1.27	1.09	0.90	0.72			
39,000-44,999	1.76	1.58	1.39	1.21	1.02	0.84		
45,000-53,999	2.07	1.88	1.70	1.51	1.33	1.14	0.96	
54,000-64,999	2.68	2.49	2.31	2.12	1.94	1.75	1.57	1.20
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.25							
15,000-20,999	0.55	0.37						
21,000-26,999	0.86	0.67	0.49					
27,000-32,999	1.16	0.98	0.80	0.62				
33,000-38,999	1.47	1.28	1.10	0.92	0.74			
39,000-44,999	1.77	1.59	1.41	1.23	1.04	0.86		
45,000-53,999	2.08	1.90	1.71	1.53	1.35	1.17	0.99	
54,000-64,999	2.69	2.51	2.32	2.14	1.96	1.78	1.60	1.23



10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.25							
15,000-20,999	0.56	0.38						
21,000-26,999	0.86	0.69	0.51					
27,000-32,999	1.17	0.99	0.81	0.63				
33,000-38,999	1.47	1.30	1.12	0.94	0.76			
39,000-44,999	1.78	1.60	1.42	1.24	1.06	0.89		
45,000-53,999	2.08	1.91	1.73	1.55	1.37	1.19	1.01	
54,000-64,999	2.69	2.52	2.34	2.16	1.98	1.80	1.62	1.27
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.26							
15,000-20,999	0.56	0.39						
21,000-26,999	0.87	0.69	0.52					
27,000-32,999	1.18	1.00	0.82	0.65				
33,000-38,999	1.48	1.30	1.13	0.95	0.78			
39,000-44,999	1.79	1.61	1.43	1.26	1.08	0.91		
45,000-53,999	2.09	1.92	1.74	1.56	1.39	1.21	1.04	
54,000-64,999	2.70	2.53	2.35	2.17	2.00	1.82	1.65	1.30
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.27							
15,000-20,999	0.57	0.40						
21,000-26,999	0.88	0.70	0.53					
27,000-32,999	1.18	1.01	0.84	0.67				
33,000-38,999	1.49	1.31	1.14	0.97	0.80			
39,000-44,999	1.79	1.62	1.45	1.28	1.10	0.93		
45,000-53,999	2.10	1.92	1.75	1.58	1.41	1.24	1.06	
54,000-64,999	2.71	2.53	2.36	2.19	2.02	1.85	1.67	1.33

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	0.27							
15,000-20,999	0.57	0.40						
21,000-26,999	0.88	0.71	0.54					
27,000-32,999	1.18	1.01	0.84	0.67				
33,000-38,999	1.49	1.32	1.15	0.98	0.81			
39,000-44,999	1.80	1.62	1.45	1.28	1.11	0.94		
45,000-53,999	2.10	1.93	1.76	1.59	1.42	1.25	1.08	
54,000-64,999	2.71	2.54	2.37	2.20	2.03	1.86	1.69	1.35

Heating, Early Retirement of an Electric Resistance Furnace

Table 456: Central Winter Demand Savings for 3.412 HSPF Baseline—Zone 5

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.00							
15,000-20,999	1.72	1.50						
21,000-26,999	2.43	2.22	2.00					
27,000-32,999	3.14	2.93	2.72	2.51				
33,000-38,999	3.86	3.65	3.43	3.22	3.01			
39,000-44,999	4.57	4.36	4.15	3.93	3.72	3.51		
45,000-53,999	5.29	5.07	4.86	4.65	4.43	4.22	4.01	
54,000-64,999	6.71	6.50	6.29	6.08	5.86	5.65	5.44	5.01

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.04							
15,000-20,999	1.75	1.56						
21,000-26,999	2.47	2.27	2.08					
27,000-32,999	3.18	2.99	2.79	2.60				
33,000-38,999	3.89	3.70	3.50	3.31	3.12			
39,000-44,999	4.61	4.41	4.22	4.02	3.83	3.63		
45,000-53,999	5.32	5.13	4.93	4.74	4.54	4.35	4.15	
54,000-64,999	6.75	6.55	6.36	6.17	5.97	5.78	5.58	5.19
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.06							
15,000-20,999	1.77	1.59						
21,000-26,999	2.48	2.30	2.11					
27,000-32,999	3.20	3.01	2.83	2.64				
33,000-38,999	3.91	3.73	3.54	3.36	3.17			
39,000-44,999	4.63	4.44	4.26	4.07	3.89	3.70		
45,000-53,999	5.34	5.16	4.97	4.78	4.60	4.41	4.23	
54,000-64,999	6.77	6.58	6.40	6.21	6.03	5.84	5.66	5.29
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.06							
15,000-20,999	1.78	1.60						
21,000-26,999	2.49	2.31	2.13					
27,000-32,999	3.21	3.02	2.84	2.66				
33,000-38,999	3.92	3.74	3.56	3.37	3.19			
39,000-44,999	4.63	4.45	4.27	4.09	3.91	3.72		
45,000-53,999	5.35	5.17	4.98	4.80	4.62	4.44	4.26	
54,000-64,999	6.78	6.59	6.41	6.23	6.05	5.87	5.68	5.32

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.07							
15,000-20,999	1.78	1.61						
21,000-26,999	2.50	2.32	2.14					
27,000-32,999	3.21	3.03	2.86	2.68				
33,000-38,999	3.93	3.75	3.57	3.39	3.21			
39,000-44,999	4.64	4.46	4.28	4.11	3.93	3.75		
45,000-53,999	5.35	5.18	5.00	4.82	4.64	4.46	4.28	
54,000-64,999	6.78	6.60	6.43	6.25	6.07	5.89	5.71	5.35
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.08							
15,000-20,999	1.79	1.62						
21,000-26,999	2.51	2.33	2.15					
27,000-32,999	3.22	3.04	2.87	2.69				
33,000-38,999	3.93	3.76	3.58	3.41	3.23			
39,000-44,999	4.65	4.47	4.30	4.12	3.95	3.77		
45,000-53,999	5.36	5.19	5.01	4.84	4.66	4.48	4.31	
54,000-64,999	6.79	6.61	6.44	6.26	6.09	5.91	5.74	5.39
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.08							
15,000-20,999	1.80	1.63						
21,000-26,999	2.51	2.34	2.17					
27,000-32,999	3.23	3.05	2.88	2.71				
33,000-38,999	3.94	3.77	3.60	3.42	3.25			
39,000-44,999	4.65	4.48	4.31	4.14	3.97	3.79		
45,000-53,999	5.37	5.19	5.02	4.85	4.68	4.51	4.34	
54,000-64,999	6.79	6.62	6.45	6.28	6.11	5.93	5.76	5.42

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1.09							
15,000-20,999	1.80	1.63						
21,000-26,999	2.52	2.35	2.17					
27,000-32,999	3.23	3.06	2.89	2.72				
33,000-38,999	3.94	3.77	3.60	3.43	3.26			
39,000-44,999	4.66	4.49	4.32	4.15	3.98	3.81		
45,000-53,999	5.37	5.20	5.03	4.86	4.69	4.52	4.35	
54,000-64,999	6.80	6.63	6.46	6.29	6.12	5.95	5.78	5.44

## APPENDIX B: MINI-SPLIT AIR CONDITIONER AND HEAT PUMP DEEMED SAVINGS TABLES

### Deemed Energy Savings Tables<sup>502</sup>

Table 457 through Table 475 present the energy savings (kWh) for all five Texas climate zones. In each table, the capacity of the efficient unit is represented in the columns and the capacity of the existing unit is represented in the rows. The savings are in the intersection of the appropriate efficient and existing capacities. Replacements where there has been to change in capacity are highlighted in light blue.

The rightsizing savings specified in the tables below are only applicable to replace-on-burnout and early retirement projects. New construction projects are not eligible to receive deemed savings for system rightsizing.<sup>503</sup>

For cooling savings, refer to Appendix A. The following heating savings assume no back-up electric resistance heat for the efficient case.

#### **Climate Zone 1: Panhandle Region, Amarillo**

#### **Heating, New Construction/Replace-on-Burnout**

Table 457: Mini-Split Energy Savings (Heating kWh) for 8.2 HSPF Baseline—Zone 1

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	216							
15,000-20,999	1,255	325						
21,000-26,999	2,293	1,363	433					
27,000-32,999	3,332	2,402	1,471	541				
33,000-38,999	4,370	3,440	2,510	1,580	649			
39,000-44,999	5,409	4,479	3,548	2,618	1,688	757		
45,000-53,999	6,447	5,517	4,587	3,656	2,726	1,796	866	
54,000-64,999	8,524	7,594	6,664	5,733	4,803	3,873	2,943	1,082

<sup>502</sup> Rated capacity ranges are specified based on normal rounding convention between capacity categories (values at and above the midpoint round up, while values below the midpoint round down).

<sup>503</sup> For projects using a custom baseline see TRMv8.0 Volume 4.

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	374							
15,000-20,999	1,413	561						
21,000-26,999	2,451	1,600	748					
27,000-32,999	3,490	2,638	1,787	935				
33,000-38,999	4,528	3,677	2,825	1,974	1,122			
39,000-44,999	5,566	4,715	3,864	3,012	2,161	1,309		
45,000-53,999	6,605	5,754	4,902	4,051	3,199	2,348	1,496	
54,000-64,999	8,682	7,830	6,979	6,128	5,276	4,425	3,573	1,870
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	456							
15,000-20,999	1,494	684						
21,000-26,999	2,533	1,722	912					
27,000-32,999	3,571	2,761	1,950	1,140				
33,000-38,999	4,610	3,799	2,989	2,178	1,368			
39,000-44,999	5,648	4,838	4,027	3,217	2,406	1,596		
45,000-53,999	6,687	5,876	5,066	4,255	3,445	2,634	1,824	
54,000-64,999	8,764	7,953	7,143	6,332	5,522	4,711	3,901	2,280
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	487							
15,000-20,999	1,525	730						
21,000-26,999	2,564	1,769	974					
27,000-32,999	3,602	2,807	2,012	1,217				
33,000-38,999	4,641	3,846	3,050	2,255	1,460			
39,000-44,999	5,679	4,884	4,089	3,294	2,499	1,704		
45,000-53,999	6,718	5,923	5,127	4,332	3,537	2,742	1,947	
54,000-64,999	8,795	7,999	7,204	6,409	5,614	4,819	4,024	2,434



10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	516							
15,000-20,999	1,555	775						
21,000-26,999	2,593	1,813	1,033					
27,000-32,999	3,632	2,852	2,071	1,291				
33,000-38,999	4,670	3,890	3,110	2,329	1,549			
39,000-44,999	5,709	4,928	4,148	3,368	2,588	1,807		
45,000-53,999	6,747	5,967	5,187	4,406	3,626	2,846	2,066	
54,000-64,999	8,824	8,044	7,264	6,483	5,703	4,923	4,143	2,582
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	545							
15,000-20,999	1,583	817						
21,000-26,999	2,622	1,856	1,090					
27,000-32,999	3,660	2,894	2,128	1,362				
33,000-38,999	4,699	3,933	3,167	2,401	1,635			
39,000-44,999	5,737	4,971	4,205	3,439	2,673	1,907		
45,000-53,999	6,776	6,010	5,244	4,478	3,712	2,946	2,180	
54,000-64,999	8,853	8,087	7,321	6,555	5,789	5,023	4,257	2,725
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	572							
15,000-20,999	1,611	859						
21,000-26,999	2,649	1,897	1,145					
27,000-32,999	3,688	2,936	2,183	1,431				
33,000-38,999	4,726	3,974	3,222	2,470	1,717			
39,000-44,999	5,765	5,013	4,260	3,508	2,756	2,004		
45,000-53,999	6,803	6,051	5,299	4,547	3,794	3,042	2,290	
54,000-64,999	8,880	8,128	7,376	6,624	5,871	5,119	4,367	2,862

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	589							
15,000-20,999	1,627	883						
21,000-26,999	2,665	1,921	1,177					
27,000-32,999	3,704	2,960	2,216	1,471				
33,000-38,999	4,742	3,998	3,254	2,510	1,766			
39,000-44,999	5,781	5,037	4,292	3,548	2,804	2,060		
45,000-53,999	6,819	6,075	5,331	4,587	3,843	3,098	2,354	
54,000-64,999	8,896	8,152	7,408	6,664	5,919	5,175	4,431	2,943

Heating, Early Retirement of a Heat Pump

Table 458: Mini-split Energy Savings (Heating kWh) for 7.7 HSPF Baseline—Zone 1

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	413							
15,000-20,999	1,550	620						
21,000-26,999	2,687	1,756	826					
27,000-32,999	3,823	2,893	1,963	1,033				
33,000-38,999	4,960	4,030	3,100	2,170	1,239			
39,000-44,999	6,097	5,167	4,237	3,306	2,376	1,446		
45,000-53,999	7,234	6,304	5,373	4,443	3,513	2,583	1,652	
54,000-64,999	9,508	8,577	7,647	6,717	5,786	4,856	3,926	2,065

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	571							
15,000-20,999	1,708	856						
21,000-26,999	2,844	1,993	1,142					
27,000-32,999	3,981	3,130	2,278	1,427				
33,000-38,999	5,118	4,267	3,415	2,564	1,712			
39,000-44,999	6,255	5,403	4,552	3,700	2,849	1,998		
45,000-53,999	7,392	6,540	5,689	4,837	3,986	3,134	2,283	
54,000-64,999	9,665	8,814	7,962	7,111	6,259	5,408	4,557	2,854
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	653							
15,000-20,999	1,789	979						
21,000-26,999	2,926	2,116	1,305					
27,000-32,999	4,063	3,253	2,442	1,632				
33,000-38,999	5,200	4,389	3,579	2,768	1,958			
39,000-44,999	6,337	5,526	4,716	3,905	3,095	2,284		
45,000-53,999	7,473	6,663	5,852	5,042	4,231	3,421	2,611	
54,000-64,999	9,747	8,937	8,126	7,316	6,505	5,695	4,884	3,263
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	683							
15,000-20,999	1,820	1,025						
21,000-26,999	2,957	2,162	1,367					
27,000-32,999	4,094	3,299	2,504	1,709				
33,000-38,999	5,231	4,436	3,640	2,845	2,050			
39,000-44,999	6,367	5,572	4,777	3,982	3,187	2,392		
45,000-53,999	7,504	6,709	5,914	5,119	4,324	3,529	2,734	
54,000-64,999	9,778	8,983	8,188	7,393	6,597	5,802	5,007	3,417

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	713							
15,000-20,999	1,850	1,070						
21,000-26,999	2,987	2,206	1,426					
27,000-32,999	4,123	3,343	2,563	1,783				
33,000-38,999	5,260	4,480	3,700	2,919	2,139			
39,000-44,999	6,397	5,617	4,837	4,056	3,276	2,496		
45,000-53,999	7,534	6,754	5,973	5,193	4,413	3,632	2,852	
54,000-64,999	9,807	9,027	8,247	7,467	6,686	5,906	5,126	3,565
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	742							
15,000-20,999	1,878	1,112						
21,000-26,999	3,015	2,249	1,483					
27,000-32,999	4,152	3,386	2,620	1,854				
33,000-38,999	5,289	4,523	3,757	2,991	2,225			
39,000-44,999	6,426	5,660	4,894	4,128	3,362	2,596		
45,000-53,999	7,562	6,796	6,030	5,264	4,498	3,732	2,966	
54,000-64,999	9,836	9,070	8,304	7,538	6,772	6,006	5,240	3,708
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	769							
15,000-20,999	1,906	1,154						
21,000-26,999	3,043	2,291	1,538					
27,000-32,999	4,180	3,427	2,675	1,923				
33,000-38,999	5,316	4,564	3,812	3,060	2,307			
39,000-44,999	6,453	5,701	4,949	4,196	3,444	2,692		
45,000-53,999	7,590	6,838	6,085	5,333	4,581	3,829	3,077	
54,000-64,999	9,864	9,111	8,359	7,607	6,855	6,102	5,350	3,846

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	785							
15,000-20,999	1,922	1,178						
21,000-26,999	3,059	2,315	1,570					
27,000-32,999	4,196	3,451	2,707	1,963				
33,000-38,999	5,332	4,588	3,844	3,100	2,356			
39,000-44,999	6,469	5,725	4,981	4,237	3,492	2,748		
45,000-53,999	7,606	6,862	6,118	5,373	4,629	3,885	3,141	
54,000-64,999	9,880	9,135	8,391	7,647	6,903	6,159	5,414	3,926

Table 459: Mini-split Energy Savings (Heating kWh) for 6.8 HSPF Baseline—Zone 1

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	886							
15,000-20,999	2,259	1,328						
21,000-26,999	3,632	2,701	1,771					
27,000-32,999	5,005	4,074	3,144	2,214				
33,000-38,999	6,378	5,447	4,517	3,587	2,657			
39,000-44,999	7,751	6,820	5,890	4,960	4,030	3,099		
45,000-53,999	9,124	8,193	7,263	6,333	5,403	4,472	3,542	
54,000-64,999	11,870	10,940	10,009	9,079	8,149	7,218	6,288	4,428

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,043							
15,000-20,999	2,416	1,565						
21,000-26,999	3,789	2,938	2,086					
27,000-32,999	5,162	4,311	3,459	2,608				
33,000-38,999	6,535	5,684	4,832	3,981	3,130			
39,000-44,999	7,908	7,057	6,206	5,354	4,503	3,651		
45,000-53,999	9,281	8,430	7,579	6,727	5,876	5,024	4,173	
54,000-64,999	12,027	11,176	10,325	9,473	8,622	7,770	6,919	5,216

  

9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,125							
15,000-20,999	2,498	1,688						
21,000-26,999	3,871	3,061	2,250					
27,000-32,999	5,244	4,434	3,623	2,813				
33,000-38,999	6,617	5,807	4,996	4,186	3,375			
39,000-44,999	7,990	7,180	6,369	5,559	4,748	3,938		
45,000-53,999	9,363	8,553	7,742	6,932	6,121	5,311	4,500	
54,000-64,999	12,109	11,299	10,488	9,678	8,867	8,057	7,246	5,625

  

10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,156							
15,000-20,999	2,529	1,734						
21,000-26,999	3,902	3,107	2,312					
27,000-32,999	5,275	4,480	3,685	2,890				
33,000-38,999	6,648	5,853	5,058	4,263	3,468			
39,000-44,999	8,021	7,226	6,431	5,636	4,841	4,046		
45,000-53,999	9,394	8,599	7,804	7,009	6,214	5,419	4,623	
54,000-64,999	12,140	11,345	10,550	9,755	8,960	8,165	7,370	5,779

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,186							
15,000-20,999	2,559	1,778						
21,000-26,999	3,932	3,151	2,371					
27,000-32,999	5,305	4,524	3,744	2,964				
33,000-38,999	6,678	5,897	5,117	4,337	3,557			
39,000-44,999	8,051	7,270	6,490	5,710	4,930	4,149		
45,000-53,999	9,424	8,643	7,863	7,083	6,303	5,522	4,742	
54,000-64,999	12,170	11,389	10,609	9,829	9,049	8,268	7,488	5,928
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,214							
15,000-20,999	2,587	1,821						
21,000-26,999	3,960	3,194	2,428					
27,000-32,999	5,333	4,567	3,801	3,035				
33,000-38,999	6,706	5,940	5,174	4,408	3,642			
39,000-44,999	8,079	7,313	6,547	5,781	5,015	4,249		
45,000-53,999	9,452	8,686	7,920	7,154	6,388	5,622	4,856	
54,000-64,999	12,198	11,432	10,666	9,900	9,134	8,368	7,602	6,070
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,242							
15,000-20,999	2,615	1,862						
21,000-26,999	3,988	3,235	2,483					
27,000-32,999	5,361	4,608	3,856	3,104				
33,000-38,999	6,734	5,981	5,229	4,477	3,725			
39,000-44,999	8,107	7,355	6,602	5,850	5,098	4,346		
45,000-53,999	9,480	8,728	7,975	7,223	6,471	5,719	4,966	
54,000-64,999	12,226	11,474	10,721	9,969	9,217	8,465	7,712	6,208



12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,258							
15,000-20,999	2,631	1,886						
21,000-26,999	4,004	3,259	2,515					
27,000-32,999	5,377	4,633	3,888	3,144				
33,000-38,999	6,750	6,006	5,261	4,517	3,773			
39,000-44,999	8,123	7,379	6,634	5,890	5,146	4,402		
45,000-53,999	9,496	8,752	8,007	7,263	6,519	5,775	5,031	
54,000-64,999	12,242	11,498	10,753	10,009	9,265	8,521	7,777	6,288

Heating, Early Retirement of an Electric Resistance Furnace

Table 460: Mini-split Energy Savings (Heating kWh) for 3.412 HSPF Baseline—Zone 1

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,390							
15,000-20,999	7,516	6,586						
21,000-26,999	10,641	9,711	8,781					
27,000-32,999	13,767	12,836	11,906	10,976				
33,000-38,999	16,892	15,962	15,032	14,101	13,171			
39,000-44,999	20,018	19,087	18,157	17,227	16,297	15,366		
45,000-53,999	23,143	22,213	21,283	20,352	19,422	18,492	17,561	
54,000-64,999	29,394	28,464	27,533	26,603	25,673	24,743	23,812	21,952

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,548							
15,000-20,999	7,673	6,822						
21,000-26,999	10,799	9,947	9,096					
27,000-32,999	13,924	13,073	12,222	11,370				
33,000-38,999	17,050	16,198	15,347	14,496	13,644			
39,000-44,999	20,175	19,324	18,472	17,621	16,770	15,918		
45,000-53,999	23,301	22,449	21,598	20,746	19,895	19,044	18,192	
54,000-64,999	29,552	28,700	27,849	26,997	26,146	25,294	24,443	22,740
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,630							
15,000-20,999	7,755	6,945						
21,000-26,999	10,881	10,070	9,260					
27,000-32,999	14,006	13,196	12,385	11,575				
33,000-38,999	17,132	16,321	15,511	14,700	13,890			
39,000-44,999	20,257	19,447	18,636	17,826	17,015	16,205		
45,000-53,999	23,383	22,572	21,762	20,951	20,141	19,330	18,520	
54,000-64,999	29,633	28,823	28,012	27,202	26,392	25,581	24,771	23,150
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,661							
15,000-20,999	7,786	6,991						
21,000-26,999	10,912	10,116	9,321					
27,000-32,999	14,037	13,242	12,447	11,652				
33,000-38,999	17,162	16,367	15,572	14,777	13,982			
39,000-44,999	20,288	19,493	18,698	17,903	17,108	16,312		
45,000-53,999	23,413	22,618	21,823	21,028	20,233	19,438	18,643	
54,000-64,999	29,664	28,869	28,074	27,279	26,484	25,689	24,894	23,303

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,690							
15,000-20,999	7,816	7,036						
21,000-26,999	10,941	10,161	9,381					
27,000-32,999	14,067	13,286	12,506	11,726				
33,000-38,999	17,192	16,412	15,632	14,851	14,071			
39,000-44,999	20,318	19,537	18,757	17,977	17,196	16,416		
45,000-53,999	23,443	22,663	21,882	21,102	20,322	19,542	18,761	
54,000-64,999	29,694	28,914	28,133	27,353	26,573	25,793	25,012	23,452
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,719							
15,000-20,999	7,844	7,078						
21,000-26,999	10,970	10,204	9,438					
27,000-32,999	14,095	13,329	12,563	11,797				
33,000-38,999	17,221	16,455	15,689	14,923	14,157			
39,000-44,999	20,346	19,580	18,814	18,048	17,282	16,516		
45,000-53,999	23,472	22,706	21,940	21,174	20,408	19,642	18,876	
54,000-64,999	29,722	28,956	28,190	27,424	26,658	25,892	25,126	23,594
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,746							
15,000-20,999	7,872	7,120						
21,000-26,999	10,997	10,245	9,493					
27,000-32,999	14,123	13,371	12,618	11,866				
33,000-38,999	17,248	16,496	15,744	14,991	14,239			
39,000-44,999	20,374	19,621	18,869	18,117	17,365	16,612		
45,000-53,999	23,499	22,747	21,995	21,242	20,490	19,738	18,986	
54,000-64,999	29,750	28,998	28,246	27,493	26,741	25,989	25,237	23,732

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	4,762							
15,000-20,999	7,888	7,144						
21,000-26,999	11,013	10,269	9,525					
27,000-32,999	14,139	13,395	12,650	11,906				
33,000-38,999	17,264	16,520	15,776	15,032	14,287			
39,000-44,999	20,390	19,645	18,901	18,157	17,413	16,669		
45,000-53,999	23,515	22,771	22,027	21,283	20,538	19,794	19,050	
54,000-64,999	29,766	29,022	28,278	27,533	26,789	26,045	25,301	23,812

**Climate Zone 2: North Region, Dallas/Fort Worth**

**Heating, New Construction/Replace-on-Burnout**

Table 461: Mini-split Energy Savings (Heating kWh) for 8.2 HSPF Baseline—Zone 2

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	90							
15,000-20,999	661	135						
21,000-26,999	1,231	706	180					
27,000-32,999	1,802	1,276	751	225				
33,000-38,999	2,373	1,847	1,321	796	270			
39,000-44,999	2,943	2,418	1,892	1,367	841	315		
45,000-53,999	3,514	2,988	2,463	1,937	1,412	886	360	
54,000-64,999	4,655	4,130	3,604	3,079	2,553	2,027	1,502	450

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	179							
15,000-20,999	750	269						
21,000-26,999	1,321	839	358					
27,000-32,999	1,891	1,410	929	448				
33,000-38,999	2,462	1,981	1,500	1,019	537			
39,000-44,999	3,033	2,551	2,070	1,589	1,108	627		
45,000-53,999	3,603	3,122	2,641	2,160	1,679	1,198	717	
54,000-64,999	4,745	4,263	3,782	3,301	2,820	2,339	1,858	896
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	225							
15,000-20,999	796	338						
21,000-26,999	1,367	909	451					
27,000-32,999	1,937	1,479	1,022	564				
33,000-38,999	2,508	2,050	1,592	1,134	676			
39,000-44,999	3,079	2,621	2,163	1,705	1,247	789		
45,000-53,999	3,649	3,191	2,734	2,276	1,818	1,360	902	
54,000-64,999	4,791	4,333	3,875	3,417	2,959	2,501	2,043	1,127
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	243							
15,000-20,999	813	364						
21,000-26,999	1,384	935	486					
27,000-32,999	1,955	1,506	1,056	607				
33,000-38,999	2,526	2,076	1,627	1,178	728			
39,000-44,999	3,096	2,647	2,198	1,748	1,299	850		
45,000-53,999	3,667	3,218	2,768	2,319	1,870	1,421	971	
54,000-64,999	4,808	4,359	3,910	3,460	3,011	2,562	2,113	1,214

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	260							
15,000-20,999	830	389						
21,000-26,999	1,401	960	519					
27,000-32,999	1,972	1,531	1,090	649				
33,000-38,999	2,542	2,101	1,660	1,220	779			
39,000-44,999	3,113	2,672	2,231	1,790	1,349	909		
45,000-53,999	3,684	3,243	2,802	2,361	1,920	1,479	1,038	
54,000-64,999	4,825	4,384	3,943	3,502	3,061	2,621	2,180	1,298
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	276							
15,000-20,999	846	414						
21,000-26,999	1,417	984	551					
27,000-32,999	1,988	1,555	1,122	689				
33,000-38,999	2,558	2,126	1,693	1,260	827			
39,000-44,999	3,129	2,696	2,263	1,831	1,398	965		
45,000-53,999	3,700	3,267	2,834	2,401	1,968	1,536	1,103	
54,000-64,999	4,841	4,408	3,975	3,543	3,110	2,677	2,244	1,379
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	291							
15,000-20,999	862	437						
21,000-26,999	1,433	1,008	583					
27,000-32,999	2,003	1,578	1,153	728				
33,000-38,999	2,574	2,149	1,724	1,299	874			
39,000-44,999	3,145	2,720	2,295	1,869	1,444	1,019		
45,000-53,999	3,715	3,290	2,865	2,440	2,015	1,590	1,165	
54,000-64,999	4,857	4,432	4,007	3,582	3,156	2,731	2,306	1,456

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	300							
15,000-20,999	871	450						
21,000-26,999	1,442	1,021	601					
27,000-32,999	2,012	1,592	1,171	751				
33,000-38,999	2,583	2,163	1,742	1,321	901			
39,000-44,999	3,154	2,733	2,313	1,892	1,472	1,051		
45,000-53,999	3,724	3,304	2,883	2,463	2,042	1,622	1,201	
54,000-64,999	4,866	4,445	4,025	3,604	3,184	2,763	2,343	1,502

Heating, Early Retirement of a Heat Pump

Table 462: Mini-split Energy Savings (Heating kWh) for 7.7 HSPF Baseline—Zone 2

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	201							
15,000-20,999	827	302						
21,000-26,999	1,454	928	402					
27,000-32,999	2,080	1,554	1,029	503				
33,000-38,999	2,706	2,180	1,655	1,129	604			
39,000-44,999	3,332	2,807	2,281	1,755	1,230	704		
45,000-53,999	3,959	3,433	2,907	2,382	1,856	1,330	805	
54,000-64,999	5,211	4,685	4,160	3,634	3,109	2,583	2,057	1,006



9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	290							
15,000-20,999	917	435						
21,000-26,999	1,543	1,062	581					
27,000-32,999	2,169	1,688	1,207	726				
33,000-38,999	2,795	2,314	1,833	1,352	871			
39,000-44,999	3,421	2,940	2,459	1,978	1,497	1,016		
45,000-53,999	4,048	3,567	3,085	2,604	2,123	1,642	1,161	
54,000-64,999	5,300	4,819	4,338	3,857	3,376	2,895	2,414	1,451
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	337							
15,000-20,999	963	505						
21,000-26,999	1,589	1,131	673					
27,000-32,999	2,215	1,757	1,299	841				
33,000-38,999	2,841	2,384	1,926	1,468	1,010			
39,000-44,999	3,468	3,010	2,552	2,094	1,636	1,178		
45,000-53,999	4,094	3,636	3,178	2,720	2,262	1,804	1,346	
54,000-64,999	5,346	4,888	4,430	3,973	3,515	3,057	2,599	1,683
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	354							
15,000-20,999	980	531						
21,000-26,999	1,606	1,157	708					
27,000-32,999	2,233	1,783	1,334	885				
33,000-38,999	2,859	2,410	1,960	1,511	1,062			
39,000-44,999	3,485	3,036	2,587	2,137	1,688	1,239		
45,000-53,999	4,111	3,662	3,213	2,764	2,314	1,865	1,416	
54,000-64,999	5,364	4,915	4,465	4,016	3,567	3,117	2,668	1,770

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	371							
15,000-20,999	997	556						
21,000-26,999	1,623	1,182	741					
27,000-32,999	2,249	1,808	1,368	927				
33,000-38,999	2,876	2,435	1,994	1,553	1,112			
39,000-44,999	3,502	3,061	2,620	2,179	1,738	1,297		
45,000-53,999	4,128	3,687	3,246	2,805	2,365	1,924	1,483	
54,000-64,999	5,381	4,940	4,499	4,058	3,617	3,176	2,735	1,853
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	387							
15,000-20,999	1,013	580						
21,000-26,999	1,639	1,206	774					
27,000-32,999	2,266	1,833	1,400	967				
33,000-38,999	2,892	2,459	2,026	1,593	1,160			
39,000-44,999	3,518	3,085	2,652	2,220	1,787	1,354		
45,000-53,999	4,144	3,711	3,279	2,846	2,413	1,980	1,547	
54,000-64,999	5,397	4,964	4,531	4,098	3,665	3,233	2,800	1,934
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	402							
15,000-20,999	1,029	604						
21,000-26,999	1,655	1,230	805					
27,000-32,999	2,281	1,856	1,431	1,006				
33,000-38,999	2,907	2,482	2,057	1,632	1,207			
39,000-44,999	3,534	3,108	2,683	2,258	1,833	1,408		
45,000-53,999	4,160	3,735	3,310	2,885	2,460	2,035	1,610	
54,000-64,999	5,412	4,987	4,562	4,137	3,712	3,287	2,862	2,012

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	411							
15,000-20,999	1,038	617						
21,000-26,999	1,664	1,243	823					
27,000-32,999	2,290	1,870	1,449	1,029				
33,000-38,999	2,916	2,496	2,075	1,655	1,234			
39,000-44,999	3,543	3,122	2,702	2,281	1,861	1,440		
45,000-53,999	4,169	3,748	3,328	2,907	2,487	2,066	1,646	
54,000-64,999	5,421	5,001	4,580	4,160	3,739	3,319	2,898	2,057
8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	468							
15,000-20,999	1,228	702						
21,000-26,999	1,988	1,462	936					
27,000-32,999	2,747	2,222	1,696	1,170				
33,000-38,999	3,507	2,981	2,456	1,930	1,404			
39,000-44,999	4,267	3,741	3,215	2,690	2,164	1,639		
45,000-53,999	5,026	4,501	3,975	3,449	2,924	2,398	1,873	
54,000-64,999	6,546	6,020	5,495	4,969	4,443	3,918	3,392	2,341

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	557							
15,000-20,999	1,317	836						
21,000-26,999	2,077	1,596	1,114					
27,000-32,999	2,836	2,355	1,874	1,393				
33,000-38,999	3,596	3,115	2,634	2,153	1,672			
39,000-44,999	4,356	3,875	3,394	2,913	2,431	1,950		
45,000-53,999	5,115	4,634	4,153	3,672	3,191	2,710	2,229	
54,000-64,999	6,635	6,154	5,673	5,192	4,711	4,229	3,748	2,786
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	603							
15,000-20,999	1,363	905						
21,000-26,999	2,123	1,665	1,207					
27,000-32,999	2,883	2,425	1,967	1,509				
33,000-38,999	3,642	3,184	2,726	2,268	1,810			
39,000-44,999	4,402	3,944	3,486	3,028	2,570	2,112		
45,000-53,999	5,162	4,704	4,246	3,788	3,330	2,872	2,414	
54,000-64,999	6,681	6,223	5,765	5,307	4,849	4,391	3,933	3,017
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	621							
15,000-20,999	1,381	931						
21,000-26,999	2,140	1,691	1,242					
27,000-32,999	2,900	2,451	2,001	1,552				
33,000-38,999	3,660	3,210	2,761	2,312	1,863			
39,000-44,999	4,419	3,970	3,521	3,072	2,622	2,173		
45,000-53,999	5,179	4,730	4,281	3,831	3,382	2,933	2,484	
54,000-64,999	6,699	6,249	5,800	5,351	4,902	4,452	4,003	3,104

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	638							
15,000-20,999	1,397	956						
21,000-26,999	2,157	1,716	1,275					
27,000-32,999	2,917	2,476	2,035	1,594				
33,000-38,999	3,676	3,236	2,795	2,354	1,913			
39,000-44,999	4,436	3,995	3,554	3,114	2,673	2,232		
45,000-53,999	5,196	4,755	4,314	3,873	3,432	2,991	2,551	
54,000-64,999	6,715	6,274	5,834	5,393	4,952	4,511	4,070	3,188
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	654							
15,000-20,999	1,413	981						
21,000-26,999	2,173	1,740	1,308					
27,000-32,999	2,933	2,500	2,067	1,634				
33,000-38,999	3,693	3,260	2,827	2,394	1,961			
39,000-44,999	4,452	4,019	3,587	3,154	2,721	2,288		
45,000-53,999	5,212	4,779	4,346	3,914	3,481	3,048	2,615	
54,000-64,999	6,731	6,299	5,866	5,433	5,000	4,567	4,135	3,269
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	669							
15,000-20,999	1,429	1,004						
21,000-26,999	2,189	1,764	1,339					
27,000-32,999	2,948	2,523	2,098	1,673				
33,000-38,999	3,708	3,283	2,858	2,433	2,008			
39,000-44,999	4,468	4,043	3,618	3,193	2,768	2,343		
45,000-53,999	5,228	4,803	4,377	3,952	3,527	3,102	2,677	
54,000-64,999	6,747	6,322	5,897	5,472	5,047	4,622	4,197	3,347

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	678							
15,000-20,999	1,438	1,018						
21,000-26,999	2,198	1,777	1,357					
27,000-32,999	2,958	2,537	2,117	1,696				
33,000-38,999	3,717	3,297	2,876	2,456	2,035			
39,000-44,999	4,477	4,056	3,636	3,215	2,795	2,374		
45,000-53,999	5,237	4,816	4,396	3,975	3,555	3,134	2,714	
54,000-64,999	6,756	6,336	5,915	5,495	5,074	4,654	4,233	3,392

Heating, Early Retirement of an Electric Resistance Furnace

Table 463: Mini-split Energy Savings (Heating kWh) for 3.412 HSPF Baseline—Zone 2

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,473							
15,000-20,999	4,235	3,710						
21,000-26,999	5,997	5,472	4,946					
27,000-32,999	7,760	7,234	6,708	6,183				
33,000-38,999	9,522	8,996	8,471	7,945	7,419			
39,000-44,999	11,284	10,758	10,233	9,707	9,181	8,656		
45,000-53,999	13,046	12,521	11,995	11,469	10,944	10,418	9,892	
54,000-64,999	16,571	16,045	15,519	14,994	14,468	13,942	13,417	12,365

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,562							
15,000-20,999	4,324	3,843						
21,000-26,999	6,087	5,605	5,124					
27,000-32,999	7,849	7,368	6,887	6,405				
33,000-38,999	9,611	9,130	8,649	8,168	7,687			
39,000-44,999	11,373	10,892	10,411	9,930	9,449	8,968		
45,000-53,999	13,135	12,654	12,173	11,692	11,211	10,730	10,249	
54,000-64,999	16,660	16,179	15,697	15,216	14,735	14,254	13,773	12,811
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,608							
15,000-20,999	4,371	3,913						
21,000-26,999	6,133	5,675	5,217					
27,000-32,999	7,895	7,437	6,979	6,521				
33,000-38,999	9,657	9,199	8,741	8,283	7,825			
39,000-44,999	11,419	10,961	10,503	10,045	9,588	9,130		
45,000-53,999	13,182	12,724	12,266	11,808	11,350	10,892	10,434	
54,000-64,999	16,706	16,248	15,790	15,332	14,874	14,416	13,958	13,042
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,626							
15,000-20,999	4,388	3,939						
21,000-26,999	6,150	5,701	5,252					
27,000-32,999	7,912	7,463	7,014	6,565				
33,000-38,999	9,675	9,225	8,776	8,327	7,878			
39,000-44,999	11,437	10,987	10,538	10,089	9,640	9,190		
45,000-53,999	13,199	12,750	12,300	11,851	11,402	10,953	10,503	
54,000-64,999	16,723	16,274	15,825	15,375	14,926	14,477	14,028	13,129



10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,643							
15,000-20,999	4,405	3,964						
21,000-26,999	6,167	5,726	5,285					
27,000-32,999	7,929	7,488	7,047	6,606				
33,000-38,999	9,691	9,250	8,810	8,369	7,928			
39,000-44,999	11,453	11,013	10,572	10,131	9,690	9,249		
45,000-53,999	13,216	12,775	12,334	11,893	11,452	11,011	10,570	
54,000-64,999	16,740	16,299	15,858	15,417	14,976	14,536	14,095	13,213
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,659							
15,000-20,999	4,421	3,988						
21,000-26,999	6,183	5,750	5,317					
27,000-32,999	7,945	7,512	7,080	6,647				
33,000-38,999	9,707	9,275	8,842	8,409	7,976			
39,000-44,999	11,470	11,037	10,604	10,171	9,738	9,306		
45,000-53,999	13,232	12,799	12,366	11,933	11,501	11,068	10,635	
54,000-64,999	16,756	16,323	15,891	15,458	15,025	14,592	14,159	13,294
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,674							
15,000-20,999	4,436	4,011						
21,000-26,999	6,199	5,774	5,349					
27,000-32,999	7,961	7,536	7,111	6,686				
33,000-38,999	9,723	9,298	8,873	8,448	8,023			
39,000-44,999	11,485	11,060	10,635	10,210	9,785	9,360		
45,000-53,999	13,247	12,822	12,397	11,972	11,547	11,122	10,697	
54,000-64,999	16,772	16,347	15,922	15,497	15,072	14,647	14,221	13,371

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	2,683							
15,000-20,999	4,446	4,025						
21,000-26,999	6,208	5,787	5,367					
27,000-32,999	7,970	7,549	7,129	6,708				
33,000-38,999	9,732	9,312	8,891	8,471	8,050			
39,000-44,999	11,494	11,074	10,653	10,233	9,812	9,392		
45,000-53,999	13,256	12,836	12,415	11,995	11,574	11,154	10,733	
54,000-64,999	16,781	16,360	15,940	15,519	15,099	14,678	14,258	13,417

**Climate Zone 3: South Region, Houston**

**Heating, New Construction/Replace-on-Burnout**

Table 464: Mini-split Energy Savings (Heating kWh) for 8.2 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	51							
15,000-20,999	420	77						
21,000-26,999	789	446	102					
27,000-32,999	1,158	815	471	128				
33,000-38,999	1,527	1,184	840	497	154			
39,000-44,999	1,896	1,552	1,209	866	523	179		
45,000-53,999	2,265	1,921	1,578	1,235	892	548	205	
54,000-64,999	3,003	2,659	2,316	1,973	1,629	1,286	943	256

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	109							
15,000-20,999	478	164						
21,000-26,999	847	533	219					
27,000-32,999	1,216	902	588	274				
33,000-38,999	1,585	1,271	957	642	328			
39,000-44,999	1,954	1,640	1,326	1,011	697	383		
45,000-53,999	2,323	2,009	1,694	1,380	1,066	752	438	
54,000-64,999	3,061	2,747	2,432	2,118	1,804	1,490	1,176	547
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	140							
15,000-20,999	509	209						
21,000-26,999	877	578	279					
27,000-32,999	1,246	947	648	349				
33,000-38,999	1,615	1,316	1,017	718	419			
39,000-44,999	1,984	1,685	1,386	1,087	788	489		
45,000-53,999	2,353	2,054	1,755	1,456	1,157	858	559	
54,000-64,999	3,091	2,792	2,493	2,194	1,895	1,595	1,296	698
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	151							
15,000-20,999	520	226						
21,000-26,999	889	595	302					
27,000-32,999	1,258	964	671	377				
33,000-38,999	1,627	1,333	1,040	746	453			
39,000-44,999	1,996	1,702	1,409	1,115	822	528		
45,000-53,999	2,364	2,071	1,778	1,484	1,191	897	604	
54,000-64,999	3,102	2,809	2,515	2,222	1,929	1,635	1,342	755

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	162							
15,000-20,999	531	243						
21,000-26,999	900	612	324					
27,000-32,999	1,269	981	693	405				
33,000-38,999	1,638	1,350	1,062	774	486			
39,000-44,999	2,006	1,719	1,431	1,143	855	567		
45,000-53,999	2,375	2,087	1,800	1,512	1,224	936	648	
54,000-64,999	3,113	2,825	2,537	2,249	1,961	1,674	1,386	810
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	172							
15,000-20,999	541	259						
21,000-26,999	910	628	345					
27,000-32,999	1,279	997	714	431				
33,000-38,999	1,648	1,365	1,083	800	517			
39,000-44,999	2,017	1,734	1,452	1,169	886	604		
45,000-53,999	2,386	2,103	1,821	1,538	1,255	973	690	
54,000-64,999	3,124	2,841	2,558	2,276	1,993	1,710	1,428	862
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	183							
15,000-20,999	552	274						
21,000-26,999	920	643	365					
27,000-32,999	1,289	1,012	734	457				
33,000-38,999	1,658	1,381	1,103	825	548			
39,000-44,999	2,027	1,750	1,472	1,194	917	639		
45,000-53,999	2,396	2,119	1,841	1,563	1,286	1,008	731	
54,000-64,999	3,134	2,856	2,579	2,301	2,024	1,746	1,468	913

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	189							
15,000-20,999	557	283						
21,000-26,999	926	652	377					
27,000-32,999	1,295	1,021	746	471				
33,000-38,999	1,664	1,390	1,115	840	566			
39,000-44,999	2,033	1,758	1,484	1,209	935	660		
45,000-53,999	2,402	2,127	1,853	1,578	1,303	1,029	754	
54,000-64,999	3,140	2,865	2,591	2,316	2,041	1,767	1,492	943

Heating, Early Retirement of a Heat Pump

Table 465: Mini-split Energy Savings (Heating kWh) for 7.7 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	124							
15,000-20,999	529	186						
21,000-26,999	934	591	248					
27,000-32,999	1,339	996	653	310				
33,000-38,999	1,745	1,401	1,058	715	371			
39,000-44,999	2,150	1,807	1,463	1,120	777	433		
45,000-53,999	2,555	2,212	1,868	1,525	1,182	839	495	
54,000-64,999	3,365	3,022	2,679	2,336	1,992	1,649	1,306	619

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	182							
15,000-20,999	587	273						
21,000-26,999	992	678	364					
27,000-32,999	1,398	1,083	769	455				
33,000-38,999	1,803	1,489	1,174	860	546			
39,000-44,999	2,208	1,894	1,580	1,265	951	637		
45,000-53,999	2,613	2,299	1,985	1,671	1,356	1,042	728	
54,000-64,999	3,424	3,109	2,795	2,481	2,167	1,853	1,538	910
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	212							
15,000-20,999	617	318						
21,000-26,999	1,023	724	424					
27,000-32,999	1,428	1,129	830	531				
33,000-38,999	1,833	1,534	1,235	936	637			
39,000-44,999	2,238	1,939	1,640	1,341	1,042	743		
45,000-53,999	2,643	2,344	2,045	1,746	1,447	1,148	849	
54,000-64,999	3,454	3,155	2,856	2,557	2,257	1,958	1,659	1,061
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	224							
15,000-20,999	629	335						
21,000-26,999	1,034	741	447					
27,000-32,999	1,439	1,146	852	559				
33,000-38,999	1,844	1,551	1,258	964	671			
39,000-44,999	2,250	1,956	1,663	1,369	1,076	782		
45,000-53,999	2,655	2,361	2,068	1,775	1,481	1,188	894	
54,000-64,999	3,465	3,172	2,878	2,585	2,291	1,998	1,705	1,118

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	235							
15,000-20,999	640	352						
21,000-26,999	1,045	757	469					
27,000-32,999	1,450	1,162	874	586				
33,000-38,999	1,855	1,567	1,279	991	704			
39,000-44,999	2,260	1,973	1,685	1,397	1,109	821		
45,000-53,999	2,666	2,378	2,090	1,802	1,514	1,226	938	
54,000-64,999	3,476	3,188	2,900	2,612	2,324	2,036	1,748	1,173
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	245							
15,000-20,999	650	368						
21,000-26,999	1,055	773	490					
27,000-32,999	1,461	1,178	895	613				
33,000-38,999	1,866	1,583	1,300	1,018	735			
39,000-44,999	2,271	1,988	1,706	1,423	1,140	858		
45,000-53,999	2,676	2,394	2,111	1,828	1,546	1,263	980	
54,000-64,999	3,487	3,204	2,921	2,639	2,356	2,073	1,791	1,225
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	255							
15,000-20,999	660	383						
21,000-26,999	1,066	788	510					
27,000-32,999	1,471	1,193	916	638				
33,000-38,999	1,876	1,598	1,321	1,043	766			
39,000-44,999	2,281	2,004	1,726	1,448	1,171	893		
45,000-53,999	2,686	2,409	2,131	1,854	1,576	1,298	1,021	
54,000-64,999	3,497	3,219	2,942	2,664	2,386	2,109	1,831	1,276



12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	261							
15,000-20,999	666	392						
21,000-26,999	1,072	797	522					
27,000-32,999	1,477	1,202	927	653				
33,000-38,999	1,882	1,607	1,333	1,058	783			
39,000-44,999	2,287	2,012	1,738	1,463	1,189	914		
45,000-53,999	2,692	2,418	2,143	1,868	1,594	1,319	1,045	
54,000-64,999	3,503	3,228	2,953	2,679	2,404	2,130	1,855	1,306

Table 466: Mini-split Energy Savings (Heating kWh) for 6.8 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	298							
15,000-20,999	791	447						
21,000-26,999	1,283	940	596					
27,000-32,999	1,775	1,432	1,089	745				
33,000-38,999	2,268	1,924	1,581	1,238	894			
39,000-44,999	2,760	2,417	2,073	1,730	1,387	1,044		
45,000-53,999	3,252	2,909	2,566	2,223	1,879	1,536	1,193	
54,000-64,999	4,237	3,894	3,551	3,207	2,864	2,521	2,177	1,491

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	356							
15,000-20,999	849	535						
21,000-26,999	1,341	1,027	713					
27,000-32,999	1,833	1,519	1,205	891				
33,000-38,999	2,326	2,012	1,697	1,383	1,069			
39,000-44,999	2,818	2,504	2,190	1,876	1,561	1,247		
45,000-53,999	3,311	2,996	2,682	2,368	2,054	1,740	1,425	
54,000-64,999	4,295	3,981	3,667	3,353	3,039	2,724	2,410	1,782
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	387							
15,000-20,999	879	580						
21,000-26,999	1,371	1,072	773					
27,000-32,999	1,864	1,565	1,265	966				
33,000-38,999	2,356	2,057	1,758	1,459	1,160			
39,000-44,999	2,848	2,549	2,250	1,951	1,652	1,353		
45,000-53,999	3,341	3,042	2,743	2,444	2,144	1,845	1,546	
54,000-64,999	4,326	4,026	3,727	3,428	3,129	2,830	2,531	1,933
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	398							
15,000-20,999	890	597						
21,000-26,999	1,383	1,089	796					
27,000-32,999	1,875	1,582	1,288	995				
33,000-38,999	2,367	2,074	1,781	1,487	1,194			
39,000-44,999	2,860	2,566	2,273	1,980	1,686	1,393		
45,000-53,999	3,352	3,059	2,765	2,472	2,178	1,885	1,592	
54,000-64,999	4,337	4,043	3,750	3,457	3,163	2,870	2,576	1,990

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	409							
15,000-20,999	901	613						
21,000-26,999	1,394	1,106	818					
27,000-32,999	1,886	1,598	1,310	1,022				
33,000-38,999	2,378	2,090	1,802	1,515	1,227			
39,000-44,999	2,871	2,583	2,295	2,007	1,719	1,431		
45,000-53,999	3,363	3,075	2,787	2,499	2,211	1,923	1,635	
54,000-64,999	4,348	4,060	3,772	3,484	3,196	2,908	2,620	2,044
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	419							
15,000-20,999	912	629						
21,000-26,999	1,404	1,121	839					
27,000-32,999	1,897	1,614	1,331	1,048				
33,000-38,999	2,389	2,106	1,824	1,541	1,258			
39,000-44,999	2,881	2,599	2,316	2,033	1,751	1,468		
45,000-53,999	3,374	3,091	2,808	2,526	2,243	1,960	1,678	
54,000-64,999	4,358	4,076	3,793	3,510	3,228	2,945	2,662	2,097
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	430							
15,000-20,999	922	644						
21,000-26,999	1,414	1,137	859					
27,000-32,999	1,907	1,629	1,351	1,074				
33,000-38,999	2,399	2,121	1,844	1,566	1,289			
39,000-44,999	2,891	2,614	2,336	2,059	1,781	1,503		
45,000-53,999	3,384	3,106	2,829	2,551	2,273	1,996	1,718	
54,000-64,999	4,369	4,091	3,813	3,536	3,258	2,981	2,703	2,148

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	435							
15,000-20,999	928	653						
21,000-26,999	1,420	1,146	871					
27,000-32,999	1,913	1,638	1,363	1,089				
33,000-38,999	2,405	2,130	1,856	1,581	1,306			
39,000-44,999	2,897	2,623	2,348	2,073	1,799	1,524		
45,000-53,999	3,390	3,115	2,840	2,566	2,291	2,017	1,742	
54,000-64,999	4,374	4,100	3,825	3,551	3,276	3,001	2,727	2,177

Heating, Early Retirement of an Electric Resistance Furnace

Table 467: Mini-split Energy Savings (Heating kWh) for 3.412 HSPF Baseline—Zone 3

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,613							
15,000-20,999	2,764	2,420						
21,000-26,999	3,914	3,570	3,227					
27,000-32,999	5,064	4,720	4,377	4,034				
33,000-38,999	6,214	5,870	5,527	5,184	4,840			
39,000-44,999	7,364	7,020	6,677	6,334	5,991	5,647		
45,000-53,999	8,514	8,170	7,827	7,484	7,141	6,797	6,454	
54,000-64,999	10,814	10,470	10,127	9,784	9,441	9,097	8,754	8,067

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,672							
15,000-20,999	2,822	2,508						
21,000-26,999	3,972	3,658	3,343					
27,000-32,999	5,122	4,808	4,493	4,179				
33,000-38,999	6,272	5,958	5,643	5,329	5,015			
39,000-44,999	7,422	7,108	6,793	6,479	6,165	5,851		
45,000-53,999	8,572	8,258	7,944	7,629	7,315	7,001	6,687	
54,000-64,999	10,872	10,558	10,244	9,929	9,615	9,301	8,987	8,358
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,702							
15,000-20,999	2,852	2,553						
21,000-26,999	4,002	3,703	3,404					
27,000-32,999	5,152	4,853	4,554	4,255				
33,000-38,999	6,302	6,003	5,704	5,405	5,106			
39,000-44,999	7,452	7,153	6,854	6,555	6,256	5,957		
45,000-53,999	8,602	8,303	8,004	7,705	7,406	7,107	6,808	
54,000-64,999	10,902	10,603	10,304	10,005	9,706	9,407	9,108	8,509
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,713							
15,000-20,999	2,863	2,570						
21,000-26,999	4,013	3,720	3,427					
27,000-32,999	5,163	4,870	4,577	4,283				
33,000-38,999	6,313	6,020	5,727	5,433	5,140			
39,000-44,999	7,463	7,170	6,877	6,583	6,290	5,996		
45,000-53,999	8,613	8,320	8,027	7,733	7,440	7,146	6,853	
54,000-64,999	10,914	10,620	10,327	10,033	9,740	9,446	9,153	8,566

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,724							
15,000-20,999	2,874	2,586						
21,000-26,999	4,024	3,736	3,448					
27,000-32,999	5,174	4,886	4,598	4,310				
33,000-38,999	6,324	6,036	5,748	5,461	5,173			
39,000-44,999	7,474	7,186	6,898	6,611	6,323	6,035		
45,000-53,999	8,624	8,336	8,049	7,761	7,473	7,185	6,897	
54,000-64,999	10,924	10,637	10,349	10,061	9,773	9,485	9,197	8,621
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,735							
15,000-20,999	2,885	2,602						
21,000-26,999	4,035	3,752	3,469					
27,000-32,999	5,185	4,902	4,619	4,337				
33,000-38,999	6,335	6,052	5,770	5,487	5,204			
39,000-44,999	7,485	7,202	6,920	6,637	6,354	6,072		
45,000-53,999	8,635	8,352	8,070	7,787	7,504	7,222	6,939	
54,000-64,999	10,935	10,652	10,370	10,087	9,804	9,522	9,239	8,674
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,745							
15,000-20,999	2,895	2,617						
21,000-26,999	4,045	3,767	3,490					
27,000-32,999	5,195	4,917	4,640	4,362				
33,000-38,999	6,345	6,067	5,790	5,512	5,235			
39,000-44,999	7,495	7,217	6,940	6,662	6,385	6,107		
45,000-53,999	8,645	8,368	8,090	7,812	7,535	7,257	6,980	
54,000-64,999	10,945	10,668	10,390	10,112	9,835	9,557	9,280	8,724

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,751							
15,000-20,999	2,901	2,626						
21,000-26,999	4,051	3,776	3,502					
27,000-32,999	5,201	4,926	4,652	4,377				
33,000-38,999	6,351	6,076	5,802	5,527	5,252			
39,000-44,999	7,501	7,226	6,952	6,677	6,402	6,128		
45,000-53,999	8,651	8,376	8,102	7,827	7,552	7,278	7,003	
54,000-64,999	10,951	10,676	10,402	10,127	9,853	9,578	9,303	8,754

**Climate Zone 4: Valley Region, Corpus Christi**

Table 468 through Table 471 present the energy savings (kWh) for heating load types associated with a mini-split heat pump being installed during new construction or replacing a burned-out central heat pump for all five Texas climate zones.

The following deemed savings assume no back-up electric resistance heat for the efficient case.

**Heating, New Construction/Replace-on-Burnout**

Table 468: Mini-Split Energy Savings (Heating kWh) for 8.2 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	34							
15,000-20,999	282	52						
21,000-26,999	529	299	69					
27,000-32,999	776	546	316	86				
33,000-38,999	1,024	794	563	333	103			
39,000-44,999	1,271	1,041	811	581	350	120		
45,000-53,999	1,518	1,288	1,058	828	598	368	137	
54,000-64,999	2,013	1,783	1,553	1,323	1,092	862	632	172



9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	73							
15,000-20,999	321	110						
21,000-26,999	568	357	147					
27,000-32,999	815	605	394	183				
33,000-38,999	1,063	852	641	431	220			
39,000-44,999	1,310	1,099	889	678	467	257		
45,000-53,999	1,557	1,347	1,136	925	715	504	293	
54,000-64,999	2,052	1,841	1,631	1,420	1,209	999	788	367
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	94							
15,000-20,999	341	140						
21,000-26,999	588	388	187					
27,000-32,999	836	635	435	234				
33,000-38,999	1,083	882	682	481	281			
39,000-44,999	1,330	1,130	929	729	528	328		
45,000-53,999	1,578	1,377	1,177	976	776	575	374	
54,000-64,999	2,072	1,872	1,671	1,471	1,270	1,070	869	468
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	101							
15,000-20,999	349	152						
21,000-26,999	596	399	202					
27,000-32,999	843	647	450	253				
33,000-38,999	1,091	894	697	500	304			
39,000-44,999	1,338	1,141	944	748	551	354		
45,000-53,999	1,585	1,389	1,192	995	798	602	405	
54,000-64,999	2,080	1,883	1,686	1,490	1,293	1,096	900	506

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	109							
15,000-20,999	356	163						
21,000-26,999	603	410	217					
27,000-32,999	851	658	464	271				
33,000-38,999	1,098	905	712	519	326			
39,000-44,999	1,345	1,152	959	766	573	380		
45,000-53,999	1,593	1,400	1,206	1,013	820	627	434	
54,000-64,999	2,087	1,894	1,701	1,508	1,315	1,122	929	543
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	116							
15,000-20,999	363	173						
21,000-26,999	610	421	231					
27,000-32,999	858	668	479	289				
33,000-38,999	1,105	915	726	536	347			
39,000-44,999	1,352	1,163	973	784	594	405		
45,000-53,999	1,600	1,410	1,221	1,031	842	652	463	
54,000-64,999	2,094	1,905	1,715	1,526	1,336	1,147	957	578
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	122							
15,000-20,999	370	184						
21,000-26,999	617	431	245					
27,000-32,999	864	678	492	306				
33,000-38,999	1,112	926	740	553	367			
39,000-44,999	1,359	1,173	987	801	615	429		
45,000-53,999	1,606	1,420	1,234	1,048	862	676	490	
54,000-64,999	2,101	1,915	1,729	1,543	1,357	1,171	984	612

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	126							
15,000-20,999	374	190						
21,000-26,999	621	437	253					
27,000-32,999	868	684	500	316				
33,000-38,999	1,116	932	747	563	379			
39,000-44,999	1,363	1,179	995	811	627	442		
45,000-53,999	1,610	1,426	1,242	1,058	874	690	506	
54,000-64,999	2,105	1,921	1,737	1,553	1,369	1,184	1,000	632

Heating, Early Retirement of a Heat Pump

Table 469: Mini-Split Energy Savings (Heating kWh) for 7.7 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	83							
15,000-20,999	355	125						
21,000-26,999	626	396	166					
27,000-32,999	898	668	438	208				
33,000-38,999	1,170	939	709	479	249			
39,000-44,999	1,441	1,211	981	751	521	291		
45,000-53,999	1,713	1,483	1,253	1,022	792	562	332	
54,000-64,999	2,256	2,026	1,796	1,566	1,336	1,106	875	415

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	122							
15,000-20,999	394	183						
21,000-26,999	665	455	244					
27,000-32,999	937	726	516	305				
33,000-38,999	1,209	998	787	577	366			
39,000-44,999	1,480	1,270	1,059	848	638	427		
45,000-53,999	1,752	1,541	1,331	1,120	909	699	488	
54,000-64,999	2,295	2,085	1,874	1,663	1,453	1,242	1,031	610
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	142							
15,000-20,999	414	213						
21,000-26,999	686	485	285					
27,000-32,999	957	757	556	356				
33,000-38,999	1,229	1,028	828	627	427			
39,000-44,999	1,501	1,300	1,100	899	698	498		
45,000-53,999	1,772	1,572	1,371	1,171	970	770	569	
54,000-64,999	2,316	2,115	1,915	1,714	1,513	1,313	1,112	711
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	150							
15,000-20,999	422	225						
21,000-26,999	693	496	300					
27,000-32,999	965	768	571	375				
33,000-38,999	1,237	1,040	843	646	450			
39,000-44,999	1,508	1,311	1,115	918	721	525		
45,000-53,999	1,780	1,583	1,386	1,190	993	796	600	
54,000-64,999	2,323	2,126	1,930	1,733	1,536	1,340	1,143	749

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	157							
15,000-20,999	429	236						
21,000-26,999	701	507	314					
27,000-32,999	972	779	586	393				
33,000-38,999	1,244	1,051	858	665	472			
39,000-44,999	1,516	1,322	1,129	936	743	550		
45,000-53,999	1,787	1,594	1,401	1,208	1,015	822	629	
54,000-64,999	2,331	2,137	1,944	1,751	1,558	1,365	1,172	786
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	164							
15,000-20,999	436	246						
21,000-26,999	708	518	329					
27,000-32,999	979	790	600	411				
33,000-38,999	1,251	1,061	872	682	493			
39,000-44,999	1,523	1,333	1,144	954	765	575		
45,000-53,999	1,794	1,605	1,415	1,226	1,036	847	657	
54,000-64,999	2,338	2,148	1,959	1,769	1,580	1,390	1,200	821
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	171							
15,000-20,999	443	257						
21,000-26,999	714	528	342					
27,000-32,999	986	800	614	428				
33,000-38,999	1,258	1,072	886	699	513			
39,000-44,999	1,529	1,343	1,157	971	785	599		
45,000-53,999	1,801	1,615	1,429	1,243	1,057	871	684	
54,000-64,999	2,344	2,158	1,972	1,786	1,600	1,414	1,228	855

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	175							
15,000-20,999	447	263						
21,000-26,999	718	534	350					
27,000-32,999	990	806	622	438				
33,000-38,999	1,262	1,078	893	709	525			
39,000-44,999	1,533	1,349	1,165	981	797	613		
45,000-53,999	1,805	1,621	1,437	1,253	1,069	884	700	
54,000-64,999	2,348	2,164	1,980	1,796	1,612	1,428	1,244	875

Table 470: Mini-Split Energy Savings (Heating kWh) for 6.8 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	200							
15,000-20,999	530	300						
21,000-26,999	860	630	400					
27,000-32,999	1,190	960	730	500				
33,000-38,999	1,520	1,290	1,060	830	600			
39,000-44,999	1,850	1,620	1,390	1,160	930	700		
45,000-53,999	2,181	1,950	1,720	1,490	1,260	1,030	800	
54,000-64,999	2,841	2,611	2,380	2,150	1,920	1,690	1,460	999

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	239							
15,000-20,999	569	358						
21,000-26,999	899	688	478					
27,000-32,999	1,229	1,019	808	597				
33,000-38,999	1,559	1,349	1,138	927	717			
39,000-44,999	1,889	1,679	1,468	1,257	1,047	836		
45,000-53,999	2,220	2,009	1,798	1,588	1,377	1,166	956	
54,000-64,999	2,880	2,669	2,458	2,248	2,037	1,826	1,616	1,195
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	259							
15,000-20,999	589	389						
21,000-26,999	919	719	518					
27,000-32,999	1,249	1,049	848	648				
33,000-38,999	1,580	1,379	1,179	978	777			
39,000-44,999	1,910	1,709	1,509	1,308	1,108	907		
45,000-53,999	2,240	2,039	1,839	1,638	1,438	1,237	1,037	
54,000-64,999	2,900	2,699	2,499	2,298	2,098	1,897	1,697	1,296
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	267							
15,000-20,999	597	400						
21,000-26,999	927	730	534					
27,000-32,999	1,257	1,060	864	667				
33,000-38,999	1,587	1,390	1,194	997	800			
39,000-44,999	1,917	1,721	1,524	1,327	1,130	934		
45,000-53,999	2,247	2,051	1,854	1,657	1,461	1,264	1,067	
54,000-64,999	2,908	2,711	2,514	2,317	2,121	1,924	1,727	1,334



10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	274							
15,000-20,999	604	411						
21,000-26,999	934	741	548					
27,000-32,999	1,264	1,071	878	685				
33,000-38,999	1,595	1,401	1,208	1,015	822			
39,000-44,999	1,925	1,732	1,539	1,345	1,152	959		
45,000-53,999	2,255	2,062	1,869	1,676	1,483	1,290	1,096	
54,000-64,999	2,915	2,722	2,529	2,336	2,143	1,950	1,757	1,371
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	281							
15,000-20,999	611	422						
21,000-26,999	941	752	562					
27,000-32,999	1,271	1,082	892	703				
33,000-38,999	1,602	1,412	1,223	1,033	844			
39,000-44,999	1,932	1,742	1,553	1,363	1,174	984		
45,000-53,999	2,262	2,072	1,883	1,693	1,504	1,314	1,125	
54,000-64,999	2,922	2,733	2,543	2,353	2,164	1,974	1,785	1,406
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	288							
15,000-20,999	618	432						
21,000-26,999	948	762	576					
27,000-32,999	1,278	1,092	906	720				
33,000-38,999	1,608	1,422	1,236	1,050	864			
39,000-44,999	1,939	1,752	1,566	1,380	1,194	1,008		
45,000-53,999	2,269	2,083	1,896	1,710	1,524	1,338	1,152	
54,000-64,999	2,929	2,743	2,557	2,370	2,184	1,998	1,812	1,440

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	292							
15,000-20,999	622	438						
21,000-26,999	952	768	584					
27,000-32,999	1,282	1,098	914	730				
33,000-38,999	1,612	1,428	1,244	1,060	876			
39,000-44,999	1,942	1,758	1,574	1,390	1,206	1,022		
45,000-53,999	2,273	2,088	1,904	1,720	1,536	1,352	1,168	
54,000-64,999	2,933	2,749	2,565	2,380	2,196	2,012	1,828	1,460

Heating, Early Retirement of an Electric Resistance Furnace

Table 471: Mini-Split Energy Savings (Heating kWh) for 3.412 HSPF Baseline—Zone 4

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,083							
15,000-20,999	1,855	1,625						
21,000-26,999	2,627	2,397	2,167					
27,000-32,999	3,399	3,169	2,939	2,709				
33,000-38,999	4,171	3,941	3,711	3,481	3,250			
39,000-44,999	4,943	4,713	4,483	4,253	4,022	3,792		
45,000-53,999	5,715	5,485	5,255	5,024	4,794	4,564	4,334	
54,000-64,999	7,259	7,029	6,798	6,568	6,338	6,108	5,878	5,417

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,123							
15,000-20,999	1,894	1,684						
21,000-26,999	2,666	2,456	2,245					
27,000-32,999	3,438	3,228	3,017	2,806				
33,000-38,999	4,210	3,999	3,789	3,578	3,368			
39,000-44,999	4,982	4,771	4,561	4,350	4,139	3,929		
45,000-53,999	5,754	5,543	5,333	5,122	4,911	4,701	4,490	
54,000-64,999	7,298	7,087	6,876	6,666	6,455	6,244	6,034	5,613
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,143							
15,000-20,999	1,915	1,714						
21,000-26,999	2,687	2,486	2,286					
27,000-32,999	3,458	3,258	3,057	2,857				
33,000-38,999	4,230	4,030	3,829	3,629	3,428			
39,000-44,999	5,002	4,802	4,601	4,401	4,200	4,000		
45,000-53,999	5,774	5,574	5,373	5,173	4,972	4,772	4,571	
54,000-64,999	7,318	7,117	6,917	6,716	6,516	6,315	6,115	5,714
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,150							
15,000-20,999	1,922	1,726						
21,000-26,999	2,694	2,497	2,301					
27,000-32,999	3,466	3,269	3,073	2,876				
33,000-38,999	4,238	4,041	3,845	3,648	3,451			
39,000-44,999	5,010	4,813	4,616	4,420	4,223	4,026		
45,000-53,999	5,782	5,585	5,388	5,192	4,995	4,798	4,602	
54,000-64,999	7,326	7,129	6,932	6,735	6,539	6,342	6,145	5,752

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,158							
15,000-20,999	1,930	1,737						
21,000-26,999	2,702	2,508	2,315					
27,000-32,999	3,473	3,280	3,087	2,894				
33,000-38,999	4,245	4,052	3,859	3,666	3,473			
39,000-44,999	5,017	4,824	4,631	4,438	4,245	4,052		
45,000-53,999	5,789	5,596	5,403	5,210	5,017	4,824	4,631	
54,000-64,999	7,333	7,140	6,947	6,754	6,561	6,368	6,175	5,789
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,165							
15,000-20,999	1,937	1,747						
21,000-26,999	2,709	2,519	2,330					
27,000-32,999	3,480	3,291	3,101	2,912				
33,000-38,999	4,252	4,063	3,873	3,684	3,494			
39,000-44,999	5,024	4,835	4,645	4,456	4,266	4,077		
45,000-53,999	5,796	5,607	5,417	5,228	5,038	4,849	4,659	
54,000-64,999	7,340	7,150	6,961	6,771	6,582	6,392	6,203	5,824
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,172							
15,000-20,999	1,943	1,757						
21,000-26,999	2,715	2,529	2,343					
27,000-32,999	3,487	3,301	3,115	2,929				
33,000-38,999	4,259	4,073	3,887	3,701	3,515			
39,000-44,999	5,031	4,845	4,659	4,473	4,287	4,101		
45,000-53,999	5,803	5,617	5,431	5,245	5,059	4,872	4,686	
54,000-64,999	7,347	7,161	6,975	6,788	6,602	6,416	6,230	5,858

12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	1,176							
15,000-20,999	1,947	1,763						
21,000-26,999	2,719	2,535	2,351					
27,000-32,999	3,491	3,307	3,123	2,939				
33,000-38,999	4,263	4,079	3,895	3,711	3,527			
39,000-44,999	5,035	4,851	4,667	4,483	4,299	4,114		
45,000-53,999	5,807	5,623	5,439	5,255	5,070	4,886	4,702	
54,000-64,999	7,351	7,167	6,983	6,798	6,614	6,430	6,246	5,878

**Climate Zone 5: West Region, El Paso**

See Table 472 through Table 475 for the energy savings (kWh) per heating load type associated with a mini-split heat pump replacing another heat pump for all five Texas climate zones.

The following deemed savings assume no back-up electric resistance heat for the efficient case.

**Heating, New Construction/Replace-on-Burnout**

Table 472: Mini-Split Energy Savings (Heating kWh) for 8.2 HSPF Baseline—Zone 5

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	81							
15,000-20,999	667	122						
21,000-26,999	1,253	708	163					
27,000-32,999	1,839	1,294	749	203				
33,000-38,999	2,425	1,880	1,334	789	244			
39,000-44,999	3,011	2,465	1,920	1,375	830	285		
45,000-53,999	3,596	3,051	2,506	1,961	1,416	871	325	
54,000-64,999	4,768	4,223	3,678	3,133	2,587	2,042	1,497	407

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	174							
15,000-20,999	760	261						
21,000-26,999	1,345	846	348					
27,000-32,999	1,931	1,432	933	434				
33,000-38,999	2,517	2,018	1,519	1,020	521			
39,000-44,999	3,103	2,604	2,105	1,606	1,107	608		
45,000-53,999	3,689	3,190	2,691	2,192	1,693	1,194	695	
54,000-64,999	4,861	4,362	3,863	3,364	2,865	2,366	1,867	869
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	222							
15,000-20,999	808	333						
21,000-26,999	1,393	918	443					
27,000-32,999	1,979	1,504	1,029	554				
33,000-38,999	2,565	2,090	1,615	1,140	665			
39,000-44,999	3,151	2,676	2,201	1,726	1,251	776		
45,000-53,999	3,737	3,262	2,787	2,312	1,837	1,362	887	
54,000-64,999	4,908	4,434	3,959	3,484	3,009	2,534	2,059	1,109
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	240							
15,000-20,999	826	360						
21,000-26,999	1,411	946	480					
27,000-32,999	1,997	1,531	1,065	599				
33,000-38,999	2,583	2,117	1,651	1,185	719			
39,000-44,999	3,169	2,703	2,237	1,771	1,305	839		
45,000-53,999	3,755	3,289	2,823	2,357	1,891	1,425	959	
54,000-64,999	4,927	4,461	3,995	3,529	3,063	2,597	2,131	1,199

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	257							
15,000-20,999	843	386						
21,000-26,999	1,429	972	514					
27,000-32,999	2,015	1,557	1,100	643				
33,000-38,999	2,601	2,143	1,686	1,229	771			
39,000-44,999	3,186	2,729	2,272	1,815	1,357	900		
45,000-53,999	3,772	3,315	2,858	2,400	1,943	1,486	1,029	
54,000-64,999	4,944	4,487	4,029	3,572	3,115	2,658	2,200	1,286
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	274							
15,000-20,999	860	411						
21,000-26,999	1,446	997	548					
27,000-32,999	2,031	1,583	1,134	685				
33,000-38,999	2,617	2,168	1,719	1,271	822			
39,000-44,999	3,203	2,754	2,305	1,856	1,408	959		
45,000-53,999	3,789	3,340	2,891	2,442	1,993	1,544	1,096	
54,000-64,999	4,961	4,512	4,063	3,614	3,165	2,716	2,267	1,369
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	290							
15,000-20,999	876	435						
21,000-26,999	1,462	1,021	580					
27,000-32,999	2,048	1,607	1,166	725				
33,000-38,999	2,633	2,193	1,752	1,311	870			
39,000-44,999	3,219	2,778	2,338	1,897	1,456	1,015		
45,000-53,999	3,805	3,364	2,923	2,483	2,042	1,601	1,160	
54,000-64,999	4,977	4,536	4,095	3,654	3,213	2,773	2,332	1,450



12.0+ HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	299							
15,000-20,999	885	449						
21,000-26,999	1,471	1,035	599					
27,000-32,999	2,057	1,621	1,185	749				
33,000-38,999	2,643	2,207	1,771	1,334	898			
39,000-44,999	3,229	2,793	2,356	1,920	1,484	1,048		
45,000-53,999	3,814	3,378	2,942	2,506	2,070	1,634	1,198	
54,000-64,999	4,986	4,550	4,114	3,678	3,242	2,806	2,369	1,497

Heating, Early Retirement of a Heat Pump

Table 473: Mini-Split Energy Savings (Heating kWh) for 7.7 HSPF Baseline—Zone 5

8.5-8.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	197							
15,000-20,999	840	295						
21,000-26,999	1,484	938	393					
27,000-32,999	2,127	1,582	1,037	492				
33,000-38,999	2,770	2,225	1,680	1,135	590			
39,000-44,999	3,414	2,869	2,324	1,778	1,233	688		
45,000-53,999	4,057	3,512	2,967	2,422	1,877	1,332	786	
54,000-64,999	5,344	4,799	4,254	3,709	3,164	2,619	2,073	983

9.0-9.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	289							
15,000-20,999	932	434						
21,000-26,999	1,576	1,077	578					
27,000-32,999	2,219	1,720	1,221	723				
33,000-38,999	2,863	2,364	1,865	1,366	867			
39,000-44,999	3,506	3,007	2,508	2,009	1,511	1,012		
45,000-53,999	4,150	3,651	3,152	2,653	2,154	1,655	1,156	
54,000-64,999	5,437	4,938	4,439	3,940	3,441	2,942	2,443	1,445
9.5-9.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	337							
15,000-20,999	980	505						
21,000-26,999	1,624	1,149	674					
27,000-32,999	2,267	1,792	1,317	842				
33,000-38,999	2,911	2,436	1,961	1,486	1,011			
39,000-44,999	3,554	3,079	2,604	2,129	1,654	1,179		
45,000-53,999	4,198	3,723	3,248	2,773	2,298	1,823	1,348	
54,000-64,999	5,485	5,010	4,535	4,060	3,585	3,110	2,635	1,685
10.0-10.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	355							
15,000-20,999	999	533						
21,000-26,999	1,642	1,176	710					
27,000-32,999	2,285	1,819	1,354	888				
33,000-38,999	2,929	2,463	1,997	1,531	1,065			
39,000-44,999	3,572	3,106	2,640	2,175	1,709	1,243		
45,000-53,999	4,216	3,750	3,284	2,818	2,352	1,886	1,420	
54,000-64,999	5,503	5,037	4,571	4,105	3,639	3,173	2,707	1,775

10.5-10.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	372							
15,000-20,999	1,016	559						
21,000-26,999	1,659	1,202	745					
27,000-32,999	2,303	1,846	1,388	931				
33,000-38,999	2,946	2,489	2,032	1,574	1,117			
39,000-44,999	3,590	3,132	2,675	2,218	1,761	1,303		
45,000-53,999	4,233	3,776	3,319	2,861	2,404	1,947	1,490	
54,000-64,999	5,520	5,063	4,606	4,148	3,691	3,234	2,777	1,862
11.0-11.4 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	389							
15,000-20,999	1,033	584						
21,000-26,999	1,676	1,227	778					
27,000-32,999	2,320	1,871	1,422	973				
33,000-38,999	2,963	2,514	2,065	1,616	1,167			
39,000-44,999	3,606	3,158	2,709	2,260	1,811	1,362		
45,000-53,999	4,250	3,801	3,352	2,903	2,454	2,005	1,557	
54,000-64,999	5,537	5,088	4,639	4,190	3,741	3,292	2,844	1,946
11.5-11.9 HSPF								
Size (Btuh) Post	< 15,000	15,000-20,999	21,000-26,999	27,000-32,999	33,000-38,999	39,000-44,999	45,000-53,999	54,000-64,999
Size (Btuh) Pre								
< 15,000	405							
15,000-20,999	1,049	608						
21,000-26,999	1,692	1,251	811					
27,000-32,999	2,336	1,895	1,454	1,013				
33,000-38,999	2,979	2,538	2,097	1,657	1,216			
39,000-44,999	3,623	3,182	2,741	2,300	1,859	1,418		
45,000-53,999	4,266	3,825	3,384	2,944	2,503	2,062	1,621	
54,000-64,999	5,553	5,112	4,671	4,231	3,790	3,349	2,908	2,026