HM run with BCM2 inputs

- Investment
  - fill factors
  - structure percentages (aerial, buried, underground)
  - no sharing of structure
  - switch line size break points and costs
  - end office traffic-sensitive fraction
  - switch max line size
- Expenses
  - use of BCM2 expense methodology
- Results
  - Hatfield investment 4% higher than BCM
  - Hatfield monthly cost 16% higher than BCM

With similar inputs, Hatfield yields similar results to BCM2 for loop investment

Maryland - Comparison of BCM2 and HM 2.2.2 results

	0-5 lines/sq mi	5-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	>2550 lines/sq mi	Totals
HM 2.2.2 Investments per line							
Loop	$ 3,312.14	$ 1,208.04	$ 615.22	$ 502.62	$ 587.86	$ 701.03	$ 727.79
Switching	$ 182.13	$ 176.69	$ 172.28	$ 168.53	$ 169.78	$ 176.73	$ 174.43
Total	$ 3,494.27	$ 1,384.72	$ 787.50	$ 671.15	$ 757.64	$ 877.76	$ 902.22
BCM2 Investments per line							
Loop	$ 2,437.36	$ 1,454.67	$ 733.00	$ 705.67	$ 622.70	$ 534.30	$ 758.27
Switching	$ 110.59	$ 126.03	$ 111.13	$ 106.85	$ 104.10	$ 101.16	$ 108.09
Total	$ 2,551.27	$ 1,584.49	$ 847.46	$ 815.73	$ 729.92	$ 638.49	$ 869.60

Conclusion

- Comparison of models bolsters confidence in integrity of loop investment modeling process
  - Models are similar in approach to modeling loop investment
  - Hatfield yields similar results to BCM2 given similar inputs
  - BCM2 is too inflexible to accept Hatfield inputs
- Hatfield inputs more accurately reflect engineering practice than BCM2 inputs
  - HM model defaults are supported by documented sources and expert experience
  - However, unlike BCM2, the default values *can be changed*
- For investments beyond loop, for expenses, and for monthly cost development, Hatfield totally outclasses BCM2

Conclusions

- Hatfield Model is superior tool for both universal service and network element costs
  - ***Only*** model to estimate costs for both unbundled network elements and universal service
  - ***Only*** model to accommodate state/technology differences in expenses, ROR, depreciation, taxes, etc.
  - More flexible -- key input variables can easily be adjusted
  - ***Only*** model to fully comply with TELRIC principles
    - » BCM2 uses embedded expenses
    - » BCM2 does not consider total demand

Maryland - Comparison of BCM2 and HM 2.2.2 results

	0-5 lines/sq mi	5-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	>2550 lines/sq mi	Totals
HM 2.2.2 Investments							
Loop							
Distribution	$ 2,336,884	$ 404,386,359	$ 132,211,048	$ 28,584,947	$ 229,188,242	$ 713,335,706	$ 1,510,032,986
Concentration	$ 279,776	$ 70,792,885	$ 37,289,782	$ 10,784,810	$ 89,912,483	$ 75,363,189	$ 284,522,685
Feeder	$ 308,177	$ 62,931,439	$ 36,480,850	$ 12,149,886	$ 180,509,363	$ 417,399,107	$ 689,778,792
Total Loop	$ 2,924,817	$ 538,120,453	$ 206,081,880	$ 51,499,613	$ 459,610,058	$ 1,206,098,002	$ 2,484,334,423
Lines	883	445,450	334,972	102,463	781,831	1,720,469	3,388,068
Investment/Line	$ 3,312.14	$ 1,208.04	$ 615.22	$ 502.82	$ 587.86	$ 701.03	$ 727.79
Switching							
Investment	$ 160,623	$ 78,704,537	$ 57,709,299	$ 17,268,429	$ 132,739,844	$ 304,055,088	$ 590,638,020
Investment/Line	$ 182.13	$ 176.69	$ 172.28	$ 168.53	$ 169.78	$ 176.73	$ 174.43
Total Investment	$ 3,085,440	$ 616,824,990	$ 263,790,979	$ 68,768,042	$ 592,349,902	$ 1,510,153,090	$ 3,054,972,443
Total/Line	$ 3,494.27	$ 1,384.72	$ 787.50	$ 671.15	$ 757.64	$ 877.76	$ 902.22
BCM2 Investment							
Loop							
Distribution	$ 80,439	$ 557,404,386	$ 197,637,082	$ 83,882,048	$ 437,088,747	$ 407,292,618	$ 1,683,386,290
Feeder	$ 163,297	$ 280,999,654	$ 147,470,214	$ 46,651,942	$ 230,584,637	$ 152,268,014	$ 858,137,758
Total Loop	$ 243,736	$ 838,404,040	$ 345,107,296	$ 130,533,990	$ 667,673,384	$ 559,560,632	$ 2,541,523,048
Lines	100	576,353	470,814	184,978	1,072,219	1,047,286	3,351,750
Investment/Line	$ 2,437.36	$ 1,454.67	$ 733.00	$ 705.67	$ 622.70	$ 534.30	$ 758.27
Switching							
Investment	$ 11,391	$ 74,818,993	$ 53,890,702	$ 20,357,909	$ 114,961,553	$ 109,123,910	$ 373,164,458
Investment/Line	$ 110.59	$ 126.03	$ 111.13	$ 106.85	$ 104.10	$ 101.16	$ 108.09
Total Investment	$ 255,127	$ 913,223,033	$ 398,997,968	$ 150,891,899	$ 782,634,937	$ 668,684,542	$ 2,914,687,506
Total/Line	$ 2,551.27	$ 1,584.49	$ 847.46	$ 815.73	$ 729.92	$ 638.49	$ 869.60
HM % of BCM2							
Loop							
Investment/Line	136%	83%	84%	71%	94%	131%	96%
Switching							
Investment/Line	165%	140%	155%	158%	163%	175%	161%
Total							
Total/Line	137%	87%	93%	82%	104%	137%	104%

Maryland - Comparison of BCM2 and HM 2.2.2 results

	0-5 lines/sq mi	5-200 lines/sq mi	200-650 lines/sq mi	650-850 lines/sq mi	850-2550 lines/sq mi	>2550 lines/sq mi	Totals
Hatfield 2.2.2 (defaults) (#1)							
lines	883	445,450	334,972	102,463	781,831	1,720,469	3,386,068
households	676	287,193	192,189	55,870	445,496	840,124	1,821,548
Monthly Cost (USF)	$ 68.15	$ 29.48	$ 19.23	$ 16.71	$ 15.58	$ 13.91	$ 17.44
BCM2							
lines	100	576,353	470,814	184,978	1,072,219	1,047,286	3,351,750
households	-	331,208	215,821	87,736	554,336	560,177	1,749,278
Monthly Cost (USF)	$ 53.85	$ 39.68	$ 25.24	$ 24.56	$ 22.86	$ 21.00	$ 25.83
Difference using defaults	$ 14.30	$ (10.20)	$ (6.01)	$ (7.85)	$ (7.28)	$ (7.09)	$ (8.39)
HM 2.2.2 (no sharing of structure) (#3)	$ 76.77	$ 32.15	$ 20.07	$ 17.60	$ 17.96	$ 17.80	$ 20.36
Difference	$ 22.92	$ (7.53)	$ (5.17)	$ (6.96)	$ (4.90)	$ (3.20)	$ (5.47)
HM 2.2.2 (fill factors & structure)*	$ 82.37	$ 35.42	$ 21.94	$ 18.83	$ 19.04	$ 20.19	$ 22.63
Difference	$ 28.52	$ (4.26)	$ (3.30)	$ (5.73)	$ (3.82)	$ (0.81)	$ (3.20)
HM 2.2.2 (switching)**	$ 83.72	$ 36.70	$ 23.04	$ 19.87	$ 20.11	$ 21.31	$ 23.60
Difference	$ 29.87	$ (2.98)	$ (2.20)	$ (4.69)	$ (2.75)	$ 0.31	$ (2.23)
HM 2.2.2 (factors)***	$ 83.71	$ 37.04	$ 23.47	$ 20.34	$ 20.61	$ 21.80	$ 24.06
Difference	$ 29.86	$ (2.64)	$ (1.77)	$ (4.22)	$ (2.25)	$ 0.80	$ (1.77)
HM 2.2.2 (tier one)****	$ 81.67	$ 36.66	$ 23.43	$ 20.37	$ 20.89	$ 22.35	$ 24.33
Difference	$ 27.82	$ (3.02)	$ (1.81)	$ (4.19)	$ (1.97)	$ 1.35	$ (1.50)
HM 2.2.2 (BCM2 Expenses)*****	$ 80.14	$ 38.94	$ 27.23	$ 24.89	$ 26.58	$ 29.67	$ 29.99
Difference	$ 26.29	$ (0.74)	$ 1.99	$ 0.33	$ 3.72	$ 8.67	$ 4.16

* this run uses BCM2 fill factors, structure percentages, end office traffic-sensitive fraction, forward-looking net ops factor, no structure sharing (#4)
** this one substitutes BCM2 switch size breaks and per-line plus per-line fixed costs (#5)
*** this uses actual CO switching and circuit equipment expense factors for BA-MD (#6)
****this uses expense factors for all Tier One LECs (#7)
*****this uses the BCM methodology for expenses, discarding HM expenses entirely

Inputs

	Default	BCM Value	
End Office Traffic-Sensitive Fraction	70%	30%	
Forward-Looking Network Operations Factor	70%	100%	
Central Office Switching Expense Factor	2.69%	n/a	Set to actual BA-MD factor or actual Tier 1 factor
alternative CO switching factor	0.0269	n/a	Set to actual BA-MD factor or actual Tier 1 factor
alternative circuit equipment factor	0.0153	n/a	Set to actual BA-MD factor or actual Tier 1 factor
Fill Factors			
Feeder			
0-5	65%	75%	
5-200	75%	80%	
200-650	80%	80%	
650-850	80%	85%	
850-2550	80%	85%	
2550+	80%	85%	
Distribution			
0-5	50%	40%	
5-200	55%	45%	
200-650	60%	55%	
650-850	65%	65%	
850-2550	70%	75%	
2550+	75%	80%	
Distribution Structure			
Aerial Fraction			
0-5	50%	10%	
5-200	50%	20%	
200-650	50%	30%	
650-850	50%	30%	
850-2550	40%	20%	
2550+	65%	10%	
Buried Fraction			

0-5	50%	90%	
5-200	50%	80%	
200-650	50%	70%	
650-850	50%	70%	
850-2550	50%	70%	
2550+	5%	60%	
Underground Fraction			
0-5	0%		I keep underground fraction at same level as defaults, put remaind
5-200	0%		
200-650	0%		
650-850	0%		
850-2550	10%	10%	
2550+	30%	30%	
Copper Feeder Structure			
Aerial Fraction			
0-5	0.5	0.3	
5-200	0.5	0.28	
200-650	0.5	0.25	
650-850	0.4	0.25	
850-2550	0.1	0.2	
2550+	0.05	0.1	
Buried Fraction			
0-5	0.45	0.65	
5-200	0.45	0.68	
200-650	0.45	0.7	
650-850	0.4	0.55	
850-2550	0.1	0	
2550+	0.05	0	
Underground Fraction			
0-5	0.05	0.05	I keep underground fraction at same level as defaults, put remaind
5-200	0.05	0.05	
200-650	0.05	0.05	

650-850		0.2		0.2
850-2550		0.8		0.8
2550+		0.9		0.9
Fiber Feeder Structure				
Aerial Fraction				
0-5		0.35		0.05
5-200		0.35		0.15
200-650		0.35		0.3
650-850		0.2		0.3
850-2550		0.1		0.2
2550+		0.05		0.1
Buried Fraction				
0-5		0.6		0.95
5-200		0.6		0.85
200-650		0.6		0.7
650-850		0.6		0.7
850-2550		0.1		0.8
2550+		0.05		0.9
Underground Fraction				
0-5		0.05	n/a	I keep underground fraction at same level as defaults, put remaind
5-200		0.05	n/a	
200-650		0.05	n/a	
650-850		0.2	n/a	
850-2550		0.8	n/a	
2550+		0.9	n/a	
Terminal and splice per line	$	35.00	$	48.22
Average lines per business location		4		10
Distribution structure % assigned to telephone				
aerial		0.33	1	
buried		0.33	1	

	underground		0.33	1
Feeder structure % assigned to telephone				
	aerial		0.33	1
	buried		0.33	1
	underground		0.33	1
Switch Maximum Line Size			100,000	500,000
Switch cost points		lines		
Low line size			2,782	10,000
Mid line size			11,200	100,000
High line size			80,000	500,000
		cost/line		
Low line size		$	220.00	$ 140.00
Mid line size		$	86.00	$ 109.00
High line size		$	59.00	$ 103.00

RBOC Total Annual Support $	Density 6 - 6	6 - 200	200 - 650	650 - 650	650 - 2500	2500 - 6	Total
Alabama	$ 4,202,774	$ 65,605,168	$ -	$ -	$ -	$ -	$ 69,807,942
Arkansas	$ 7,785,767	$ 32,482,280	$ -	$ -	$ -	$ -	$ 40,268,048
Arizona	$ 28,097,913	$ 40,439,770	$ -	$ -	$ -	$ -	$ 68,537,683
California	$ 20,635,413	$ 71,633,710	$ -	$ -	$ -	$ -	$ 92,269,122
Colorado	$ 27,391,455	$ 40,601,073	$ 2,279,543	$ -	$ -	$ -	$ 70,272,070
Connecticut	$ -	$ 17,438,368	$ -	$ -	$ -	$ -	$ 17,438,368
District of Columbia	$ -	$ -	$ 4,278	$ 697	$ -	$ -	$ 4,975
Delaware	$ 49,766	$ 5,468,528	$ -	$ -	$ -	$ -	$ 5,518,294
Florida	$ 5,320,084	$ 32,193,613	$ 553,274	$ -	$ -	$ -	$ 38,066,970
Georgia	$ 3,989,043	$ 66,060,468	$ -	$ -	$ -	$ -	$ 70,049,511
Iowa	$ 4,499,899	$ 18,139,524	$ -	$ -	$ -	$ -	$ 22,639,423
Idaho	$ 11,942,274	$ 12,135,714	$ -	$ -	$ -	$ -	$ 24,077,988
Illinois	$ 628,004	$ 28,798,457	$ -	$ -	$ -	$ -	$ 29,426,461
Indiana	$ 166,461	$ 27,348,189	$ -	$ -	$ -	$ -	$ 27,514,651
Kansas	$ 13,928,280	$ 25,052,009	$ -	$ -	$ -	$ -	$ 38,980,289
Kentucky	$ 1,517,864	$ 49,377,856	$ -	$ -	$ -	$ -	$ 50,895,720
Louisiana	$ 11,324,803	$ 50,232,815	$ -	$ -	$ -	$ -	$ 61,557,618
Massachusetts	$ -	$ 24,035,876	$ -	$ -	$ -	$ -	$ 24,035,876
Maryland	$ 390,621	$ 32,667,428	$ -	$ -	$ -	$ -	$ 33,058,049
Maine	$ 4,581,670	$ 21,805,396	$ -	$ -	$ -	$ -	$ 26,387,066
Michigan	$ 5,997,664	$ 54,411,254	$ -	$ -	$ -	$ -	$ 60,408,918
Minnesota	$ 9,631,508	$ 30,877,250	$ -	$ -	$ -	$ -	$ 40,508,758
Missouri	$ 6,051,190	$ 44,471,437	$ 595,545	$	$	$	$ 51,118,173
Mississippi	$ 19,745,222	$ 83,231,700	$ -	$ -	$ -	$ -	$ 102,976,922
Montana	$ 16,475,598	$ 7,713,958	$ -	$ -	$ -	$ -	$ 24,189,555
North Carolina	$ 494,121	$ 28,067,699	$ -	$ -	$ -	$ -	$ 28,561,820
North Dakota	$ 4,142,101	$ 2,993,209	$ -	$	$	$	$ 7,135,310
Nebraska	$ 13,367,935	$ 12,646,801	$ 1,167,522	$	$	$	$ 27,182,258
New Hampshire	$ 1,035,501	$ 15,359,691	$	$	$	$	$ 16,395,192
New Jersey	$ 283,884	$ 15,523,422	$	$	$	$	$ 15,807,306
New Mexico	$ 23,891,716	$ 18,346,593	$	$	$	$	$ 42,238,309
Nevada	$ 17,627,016	$ 5,764,486	$ -	$	$	$	$ 23,391,502
New York	$ 2,216,063	$ 84,486,784	$ 1,028,207	$ -	$	$	$ 87,731,054
Ohio	$ 21,498	$ 28,901,773	$ -	$ -	$ -	$	$ 28,923,271
Oklahoma	$ 16,923,685	$ 43,404,083	$ -	$ -	$ -	$	$ 60,327,768
Oregon	$ 7,623,365	$ 21,333,879	$ -	$	$ -	$ -	$ 28,957,244
Pennsylvania	$ 1,954,305	$ 54,847,989	$ -	$	$ -	$ -	$ 56,802,294
Rhode Island	$ -	$ 4,284,520	$ -	$ -	$ -	$ -	$ 4,284,520
South Carolina	$ 1,595,225	$ 34,531,099	$ -	$ -	$ -	$ -	$ 36,126,324
South Dakota	$ 4,488,729	$ 4,921,897	$ -	$ -	$ -	$ -	$ 9,410,625
Tennessee	$ 1,571,769	$ 66,284,845	$ -	$ -	$ -	$ -	$ 67,856,614
Texas	$ 36,431,557	$ 81,664,187	$ -	$ -	$ -	$ -	$ 118,095,744
Utah	$ 12,146,812	$ 13,375,643	$ 376,627	$ -	$ -	$ -	$ 25,899,082
Virginia	$ 573,495	$ 44,471,467	$ -	$ -	$ -	$ -	$ 45,044,961
Vermont	$ 801,782	$ 14,834,318	$ -	$ -	$ -	$ -	$ 15,636,100
Washington	$ 7,341,057	$ 18,030,667	$ -	$ -	$ -	$ -	$ 25,371,724
Wisconsin	$ 567,304	$ 12,971,029	$ -	$ -	$ -	$ -	$ 13,538,333
West Virginia	$ 1,952,195	$ 53,105,916	$ -	$ -	$ -	$ -	$ 55,058,111
Wyoming	$ 14,552,963	$ 5,324,947	$ -	$ -	$ -	$ -	$ 19,877,910
Total	$ 375,957,350	$ 1,567,698,786	$ 6,004,995	$ 697	$ -	$ -	$ 1,949,661,828

ICO Total Annual Support $	Density 0 - 5	5 - 200	200 - 650	650 - 850	850 - 2500	2500 - 5000	5000 - Total
Alabama	$ 25,875,234	$ 83,141,199	$ 183,867	$ -	$ -	$ -	$ 109,200,299
Arkansas	$ 28,451,302	$ 65,397,334	$ -	$ -	$ -	$ -	$ 93,848,636
Arizona	$ 39,865,168	$ 7,942,195	$ -	$ -	$ -	$ -	$ 47,807,363
California	$ 152,569,094	$ 79,042,649	$ 34,860	$ 1,178,544	$ -	$ -	$ 232,825,148
Colorado	$ 16,341,246	$ 8,507,575	$ 105,119	$ -	$ -	$ -	$ 24,953,939
Connecticut	$ -	$ 1,601,065	$ 126,571	$ 26,251	$ -	$ -	$ 1,753,887
District of Columbia	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Delaware	$ -	$ -	$ -	$ -	$ -	$ -	$ -
Florida	$ 14,227,181	$ 72,449,573	$ -	$ -	$ -	$ -	$ 86,676,754
Georgia	$ 15,334,456	$ 100,422,130	$ 12,871	$ -	$ -	$ -	$ 115,769,457
Iowa	$ 27,163,964	$ 73,618,117	$ -	$ -	$ -	$ -	$ 100,782,081
Idaho	$ 29,463,017	$ 9,634,866	$ -	$ -	$ -	$ -	$ 39,097,883
Illinois	$ 11,615,018	$ 121,847,512	$ 3,132,221	$ -	$ -	$ -	$ 136,594,752
Indiana	$ 683,506	$ 89,957,143	$ -	$ -	$ -	$ -	$ 90,640,649
Kansas	$ 50,013,645	$ 35,363,354	$ -	$ -	$ -	$ -	$ 85,376,999
Kentucky	$ 2,199,863	$ 65,717,231	$ -	$ -	$ -	$ -	$ 67,917,094
Louisiana	$ 9,267,665	$ 19,505,295	$ -	$ -	$ -	$ -	$ 28,772,959
Massachusetts	$ -	$ 1,062,880	$ 41,371	$ -	$ -	$ -	$ 1,104,250
Maryland	$ -	$ 182,939	$ -	$ -	$ -	$ -	$ 182,939
Maine	$ 4,661,345	$ 17,924,246	$ -	$ -	$ -	$ -	$ 22,585,591
Michigan	$ 14,521,774	$ 86,906,211	$ -	$ -	$ -	$ -	$ 101,427,985
Minnesota	$ 39,809,212	$ 74,518,087	$ 339,241	$ -	$ -	$ -	$ 114,664,540
Missouri	$ 47,312,399	$ 108,491,732	$ 578,935	$ -	$ -	$ -	$ 156,383,065
Mississippi	$ 11,361,200	$ 16,694,783	$ 107,769	$ -	$ -	$ -	$ 28,163,752
Montana	$ 47,719,086	$ 5,446,496	$ -	$ -	$ -	$ -	$ 53,165,582
North Carolina	$ 3,409,753	$ 122,676,921	$ -	$ -	$ -	$ -	$ 126,086,674
North Dakota	$ 29,277,556	$ 2,742,321	$ -	$ -	$ -	$ -	$ 32,019,878
Nebraska	$ 37,149,902	$ 42,916,563	$ 864,280	$ -	$ 186,794	$ -	$ 81,117,539
New Hampshire	$ 161,659	$ 5,457,359	$ -	$ -	$ -	$ -	$ 5,619,018
New Jersey	$ 38,627	$ 3,959,121	$ 289,147	$ -	$ -	$ -	$ 4,286,895
New Mexico	$ 50,605,232	$ 4,398,800	$ 28,287	$ -	$ -	$ -	$ 55,032,319
Nevada	$ 26,935,971	$ 6,383,064	$ 9,582	$ -	$ -	$ -	$ 33,328,617
New York	$ 13,688,276	$ 74,985,676	$ 1,416,560	$ 92,724	$ -	$ -	$ 90,183,235
Ohio	$ 128,736	$ 114,216,700	$ 961,761	$ -	$ -	$ -	$ 115,307,198
Oklahoma	$ 78,383,282	$ 39,707,199	$ -	$ -	$ -	$ -	$ 118,090,482
Oregon	$ 34,790,290	$ 30,709,277	$ 1,293,506	$ -	$ -	$ -	$ 66,793,074
Pennsylvania	$ 2,432,064	$ 83,034,865	$ -	$ -	$ -	$ -	$ 85,466,929
Rhode Island	$ -	$ -	$ -	$ -	$ -	$ -	
South Carolina	$ 2,293,242	$ 54,533,573	$ -	$ -	$ -	$ -	$ 56,826,815
South Dakota	$ 24,856,808	$ 6,204,556	$ -	$ -	$ -	$ -	$ 31,061,364
Tennessee	$ 2,490,342	$ 61,820,098	$ -	$ -	$ -	$ -	$ 64,310,440
Texas	$ 182,757,175	$ 146,562,019	$ -	$ -	$ -	$ -	$ 329,319,195
Utah	$ 21,381,039	$ 2,997,952	$ 4,897	$ 28,108	$ -	$ -	$ 24,411,996
Virginia	$ 2,137,344	$ 79,080,958	$ -	$ -	$ -	$ -	$ 81,218,302
Vermont	$ 50,115	$ 7,691,350	$ -	$ -	$ -	$ -	$ 7,741,465
Washington	$ 26,488,720	$ 39,968,955	$ 240,117	$ -	$ -	$ -	$ 66,697,792
Wisconsin	$ 14,296,015	$ 98,880,668	$ -	$ -	$ -	$ -	$ 113,176,683
West Virginia	$ 6,288,155	$ 26,098,376	$ 64,855	$ -	$ -	$ -	$ 32,451,387
Wyoming	$ 5,295,563	$ 1,225,407	$ 76,142	$ -	$ -	$ -	$ 6,597,112
Total	$ 1,153,791,245	$ 2,201,624,387	$ 9,911,962	$ 1,325,627	$ 186,794	$ -	$ 3,366,840,015

Industry Total Annual Support $	Density						
	0 - 5	5 - 200	200 - 550	550 - 1500	1500 - 2500	> 2500	
Alabama	$ 30,078,008	$ 148,746,367	$ 183,867	$ -	$ -	$ -	$ 179,008,241
Arkansas	$ 36,237,070	$ 97,879,614	$ -	$ -	$ -	$ -	$ 134,116,684
Arizona	$ 67,963,081	$ 48,381,965	$ -	$ -	$ -	$ -	$ 116,345,046
California	$ 173,204,507	$ 150,676,359	$ 34,860	$ 1,178,544	$ -	$ -	$ 325,094,271
Colorado	$ 43,732,700	$ 49,108,647	$ 2,384,662	$ -	$ -	$ -	$ 95,226,009
Connecticut	$ -	$ 19,039,433	$ 126,671	$ 26,251	$ -	$ -	$ 19,192,255
District of Columbia	$ -	$ -	$ 4,278	$ 697	$ -	$ -	$ 4,975
Delaware	$ 49,766	$ 5,468,528	$ -	$ -	$ -	$ -	$ 5,518,294
Florida	$ 19,547,266	$ 104,643,186	$ 553,274	$ -	$ -	$ -	$ 124,743,725
Georgia	$ 19,323,498	$ 166,482,598	$ 12,871	$ -	$ -	$ -	$ 185,818,968
Iowa	$ 31,663,863	$ 91,757,641	$ -	$ -	$ -	$ -	$ 123,421,504
Idaho	$ 41,405,291	$ 21,770,580	$ -	$ -	$ -	$ -	$ 63,175,871
Illinois	$ 12,243,022	$ 150,645,969	$ 3,132,221	$ -	$ -	$ -	$ 166,021,212
Indiana	$ 849,968	$ 117,305,332	$ -	$ -	$ -	$ -	$ 118,155,300
Kansas	$ 63,941,925	$ 60,415,363	$ -	$ -	$ -	$ -	$ 124,357,288
Kentucky	$ 3,717,727	$ 115,096,088	$ -	$ -	$ -	$ -	$ 118,812,815
Louisiana	$ 20,592,468	$ 69,738,110	$ -	$ -	$ -	$ -	$ 90,330,578
Massachusetts	$ -	$ 25,098,756	$ 41,371	$ -	$ -	$ -	$ 25,140,127
Maryland	$ 390,621	$ 32,850,367	$ -	$ -	$ -	$ -	$ 33,240,988
Maine	$ 9,243,015	$ 39,729,841	$ -	$ -	$ -	$ -	$ 48,972,856
Michigan	$ 20,519,438	$ 141,317,465	$ -	$ -	$ -	$ -	$ 161,836,903
Minnesota	$ 49,440,721	$ 105,393,337	$ 339,241	$ -	$ -	$ -	$ 155,173,298
Missouri	$ 53,363,589	$ 152,963,189	$ 1,174,480	$ -	$ -	$ -	$ 207,501,238
Mississippi	$ 31,106,422	$ 99,926,482	$ 107,769	$ -	$ -	$ -	$ 131,140,674
Montana	$ 64,194,684	$ 13,160,454	$ -	$ -	$ -	$ -	$ 77,355,138
North Carolina	$ 3,903,874	$ 150,744,620	$ -	$ -	$ -	$ -	$ 154,648,494
North Dakota	$ 33,419,657	$ 5,735,531	$ -	$ -	$ -	$ -	$ 39,155,188
Nebraska	$ 50,517,838	$ 55,563,364	$ 2,031,802	$ -	$ 186,794	$ -	$ 108,299,797
New Hampshire	$ 1,197,160	$ 20,817,050	$ -	$ -	$ -	$ -	$ 22,014,209
New Jersey	$ 322,511	$ 19,482,542	$ 289,147	$ -	$ -	$ -	$ 20,094,201
New Mexico	$ 74,496,948	$ 22,745,393	$ 28,287	$ -	$ -	$ -	$ 97,270,628
Nevada	$ 44,562,987	$ 12,147,551	$ 9,582	$ -	$ -	$ -	$ 56,720,119
New York	$ 15,904,339	$ 159,472,459	$ 2,444,767	$ 92,724	$ -	$ -	$ 177,914,290
Ohio	$ 150,234	$ 143,118,474	$ 961,761	$ -	$ -	$ -	$ 144,230,470
Oklahoma	$ 95,306,967	$ 83,111,282	$ -	$ -	$ -	$ -	$ 178,418,249
Oregon	$ 42,413,655	$ 52,043,156	$ 1,293,506	$ -	$ -	$ -	$ 95,750,318
Pennsylvania	$ 4,386,370	$ 137,882,854	$ -	$ -	$ -	$ -	$ 142,269,223
Rhode Island	$ -	$ 4,284,520	$ -	$ -	$ -	$ -	$ 4,284,520
South Carolina	$ 3,888,467	$ 89,064,673	$ -	$ -	$ -	$ -	$ 92,953,139
South Dakota	$ 29,345,536	$ 11,126,453	$ -	$ -	$ -	$ -	$ 40,471,989
Tennessee	$ 4,062,111	$ 128,104,943	$ -	$ -	$ -	$ -	$ 132,167,054
Texas	$ 219,188,733	$ 228,226,206	$ -	$ -	$ -	$ -	$ 447,414,939
Utah	$ 33,527,851	$ 16,373,595	$ 381,524	$ 28,108	$ -	$ -	$ 50,311,078
Virginia	$ 2,710,839	$ 123,552,424	$ -	$ -	$ -	$ -	$ 126,263,263
Vermont	$ 851,897	$ 22,525,668	$ -	$ -	$ -	$ -	$ 23,377,566
Washington	$ 33,829,777	$ 57,999,622	$ 240,117	$ -	$ -	$ -	$ 92,069,516
Wisconsin	$ 14,863,318	$ 111,851,697	$ -	$ -	$ -	$ -	$ 126,715,015
West Virginia	$ 8,240,351	$ 79,204,293	$ 64,855	$ -	$ -	$ -	$ 87,509,498
Wyoming	$ 19,848,526	$ 6,550,354	$ 76,142	$ -	$ -	$ -	$ 26,475,022
Total	$ 1,529,748,595	$ 3,769,323,174	$ 15,916,957	$ 1,326,324	$ 186,794	$ -	$ 5,316,501,843