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The Economic Impact of Stimulating Broadband Nationally

Executive Summary

February 21, 2008

Key Findings

- Kentucky's broadband adoption rate is higher than the national trends due to Connected Nation's first statewide broadband expansion program, ConnectKentucky.
- Adopting a national policy to stimulate the deployment of broadband in underserved areas of the U.S. could have dramatic and far-reaching economic impacts. For instance, just a seven percentage point increase in broadband adoption could result in:
 - \$92 billion through 2.4 million jobs created or saved annually
 - \$662 million saved per year in reduced healthcare costs
 - \$6.4 billion per year in mileage saving from unnecessary driving
 - \$18 million in carbon credits associated with 3.2 billion fewer lbs of CO2 emissions per year in the United States
 - \$35.2 billion in value from 3.8 billion more hours saved per year from accessing broadband at home
 - \$134 billion per year in total direct economic impact of accelerating broadband across the United States
- If Congress passes legislation (such as S. 1190/H.R. 3627, H.R. 3919, or S. 1492) to empower every state to implement programs modeled after ConnectKentucky and experience an increase in the growth rate of broadband adoption over what should be expected without a broadband focused program, the estimate of direct economic stimulus is more than \$134 billion per year for the nation.
- In 2007, the U.S. House of Representatives voted unanimously to pass such legislation, and the U.S. Senate passed a similar proposal as part of a renewal of the Farm Bill. The Senate and the House should complete negotiations on the Farm Bill, including broadband provisions as outlined in the bills listed above.



Affirmations

“The Communications Workers of America has long been pressing for public policies that will allow all Americans to share in today’s telecommunications revolution and for our nation to fully utilize the economic engine of the 21st century. Economic growth, quality jobs and the tremendous opportunity for improvement in the personal lives of all Americans depends on substantial improvements in speed, quality and most critically, the build out of true high-speed Internet networks. At the current rates of broadband speed in the United States, the promise of telemedicine, distance learning and civic participation simply isn’t possible. And both developed and developing regions – Europe, Korea and parts of southeast Asia, eastern Europe and more – have moved far ahead of us. This economic impact study spotlights not only the positive benefits that will result from the build out of true high-speed broadband networks, but reinforces the critical need for a national broadband policy and the broadband mapping bills that Congress now is considering.”

Larry Cohen, President
Communications Workers of America

“Connected Nation provides convincing evidence that the benefits of broadband adoption spill over to society as a whole. Moreover, the report rightly concludes that public policies to spur broadband are critical to ensure the best possible broadband future for the United States.”

Dr. Robert D. Atkinson, President
The Information Technology & Innovation Foundation

“Through its experience in Kentucky, Connected Nation provides an incredibly successful model for stimulating broadband build out and demand that should be adopted nationally. Its comprehensive strategy of assessing broadband availability, identifying and aggregating demand through grassroots county planning teams, and bringing providers and users together through a public private partnership has resulted in an expansion of broadband availability that is significant and measurable. Connected Nation’s study identifies the economic benefits that can be expected if such a strategy is adopted nationally. This study should strengthen the growing, bi-partisan call in Washington, DC for a national broadband policy and specific legislation that would enable other states to participate in and benefit from this proven and successful model of economic development.”

Kenneth R. Peres, PhD, President
Alliance for Public Technology

Affirmations

“The Connected Nation approach to broadband is perhaps the most important public policy innovation for communications services in many decades. In an environment characterized by constant rhetorical divisiveness, Connected Nation pulls people together to share in their relentless focus on expanding broadband availability and subscription. As this new study shows, there is much to gain from expanding broadband availability and use in this country, and Connected Nation has proven itself up to the task.”

Lawrence Spiwak, President
Phoenix Center for Advanced Legal & Economic Public Policy Studies

“Connected Nation continues to blaze a trail toward a networked nation that works for everyone. This report demonstrates the powerful economic effects of broadband adoption. More to the point, Connected Nation has proven the tangible benefits of engaging the challenges of 21st Century infrastructure at the community level. The process begun by Connected Nation in Kentucky can and should serve as a model for efforts across the US.”

Charles Kaylor, Principal
Public Sphere Information Group

“To retain and gain jobs and to promote learning and earning, every city, town and rural community will need the connected power of broadband. Connected Nation’s research shows that job generating power of having people connected to broadband. I look forward to learning more from their groundbreaking work as communities learn how, from them, to use broadband for improving these services and promoting economic development and job gains.”

Graham Richard, Former Mayor
Fort Wayne, Indiana

Executive Summary

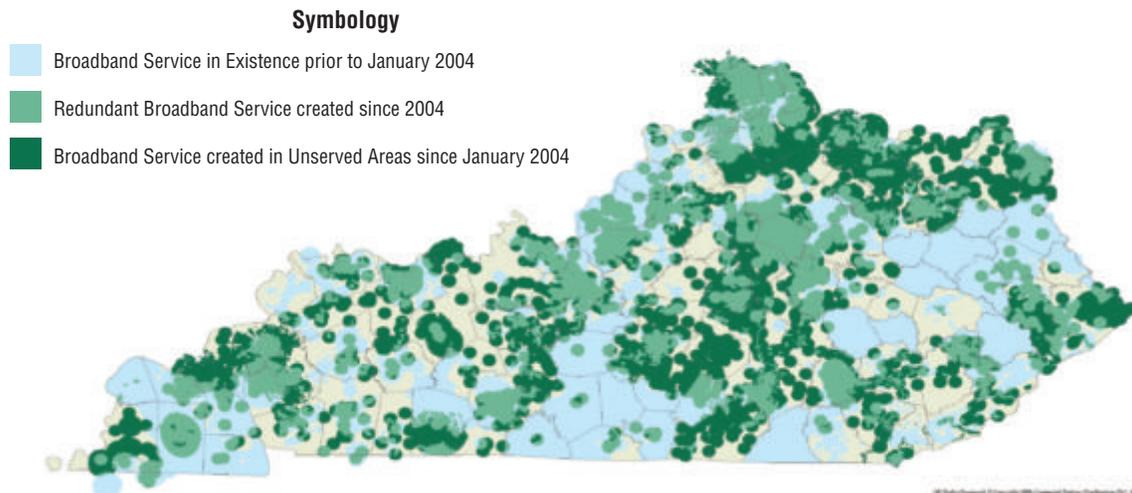
If Congress passes legislation to empower every state to implement programs modeled after ConnectKentucky and experience an increase in the growth rate of broadband adoption over what should be expected without a broadband focused program, the estimate of direct economic stimulus is more than \$134 billion per year for the nation.

It has been widely established that broadband networks provide a constructive platform for addressing a variety of public challenges including healthcare, education, homeland security and workforce/economic development.¹ Yet, at the beginning of 2008, many United States residents still cannot access broadband Internet service.

One state, Kentucky, has made measurable strides in expanding broadband networks. The broadband initiative in Kentucky led by ConnectKentucky brings together partners in the public and private sector to foster both the supply of and demand for broadband. The primary goal of ConnectKentucky is to increase the availability of technology by ensuring broadband service is available to each household and business in the state and to measurably improve computer literacy, ownership and overall technological literacy.

In 2004, only 60% of Kentucky households had broadband available for subscription. Three years later, in December 2007, 95% of households could subscribe to broadband, a statewide increase of nearly 60%. The map below identifies the growth of broadband investment from 2004-2007 (Figure 1)². It is the result of a cooperative mapping effort among more than eighty Kentucky broadband providers (Table 1).

Figure 1: Broadband Service Growth in Kentucky 2004-2007
Household Coverage Grew from 60% to 95%



¹ Robert W. Crandall, Robert E. Litan, and William Lehr, "The Effects of Broadband Deployment on Output and Employment: A Cross-Sectional Analysis Of U.S. Data," *Issues in Economic Policy: The Brookings Institution*, No. 6, July 2007, p. 1.

² ConnectKentucky Broadband Service Growth Map, January 1, 2004 to December 31, 2007.

Table 1: List of 81 Providers Represented on the KY Broadband Service Growth Map

| | | |
|---|--|--|
| Access Cable Television | Henderson Municipal Power & Light Co. | Pritchtech |
| Access Kentucky | Highland Telephone Cooperative | Riverside Communications |
| Armstrong Utilities | Hopkinsville Electric System | Russellville Electric Plant Board |
| AT&T | Insight Communications | Salem Telephone Company |
| Ballard Rural Telephone Cooperative | Intermountain Cable | SCS Wireless |
| Barbourville Utility Commission | Irvine Community Television | Shelby Wireless |
| Bardstown Municipal Utilities | Ken-Tenn Wireless, LLC | Sit-Co (Formerly Ohio Valley Wireless) |
| Big Sandy TV Cable | Kvnet | South Central Rural Telephone Cooperative Corporation |
| Blueone.Net - Pendleton County | Kywifi | Southeast Telephone |
| Bowling Green Municipal Utilities | Kywimax | Speedbeam |
| Brandenburg Telephone Company | Leslie County Telephone | Ssinet |
| Burgin Wireless | Lewisport Telephone Company | Suddenlink |
| Cainpro Communications | Liberty Communications, Inc | TDS |
| Cebridge Connections | Limestone Cable Vision | Thacker-Grisby Telephone Company |
| Chapel Communications | Logan Telephone Cooperative | Time Warner Cable |
| Cincinnati Bell Telephone | Lycom | Tv Service & United Cable |
| City Of Bellefonte | Mayfield Electric And Water Systems | Us Digital Online |
| City Of Raceland | Mediacom | Vortex Wireless |
| Coalfields Telephone | Mega-Wi | VVDS |
| Comcast Cable | Monticello Plant Board | Webcats Networks |
| Duo County Telecom | Mountain Telephone Cooperative | West Kentucky Networks |
| Duo County Telephone | Netpower, LLC | West Kentucky Rural Telephone Cooperative Corporation |
| Cooperative Corporation | Newwave Communications | Williamstown Catv |
| Foothills Rural Telephone | North Central Telephone Cooperative | Williamstown Utility Company |
| Cooperative Corporation | Ohio County Direct Net | Wimax Express |
| Frankfort Electric & Water Plant Board | Owensboro Municipal Utilities | Windstream |
| Galaxy Cablevision | Peoples Rural Telephone Cooperative Corporation | Worldwide Gap |
| Harlan Community TV | Princeton Electric And Plant Board | |

This important investment in technology infrastructure did not happen in a vacuum. It was fueled by fast growing demand promoted in large part by ConnectKentucky. From 2005-2007, broadband adoption (the number of homes subscribing to high-speed broadband service) in Kentucky increased 83%, a rate that exceeded what would naturally be expected when compared to nationwide trends for household broadband adoption. Clearly something unique has taken place in Kentucky (Figure 2)³.

³ KY growth comes from 2 studies: 2005 University of KY E-Commerce Report - statewide digit dial telephone survey conducted March 2005. N=1,102 +/- 3% at the 95% level of confidence. And 2007 ConnectKentucky Residential Technology Assessment - statewide random digit dial telephone survey completed September 2007. N = 10,830 +/- 1.7% at the 95% level of confidence. National growth: "Home Broadband Adoption 2007" by John Horrigan and Aaron Smith, Pew Internet and American Life Project, June 2007

ConnectKentucky's success in promoting broadband adoption is the result of a comprehensive, targeted and locally relevant program that was repeated across each Kentucky county. It is a series of well designed and implemented supply and demand promoting programs that can be readily replicated in other states. Connected Nation, the national non-profit of which ConnectKentucky is a subsidiary, is now implementing the same kind of programming in other states.

Using the device of counterfactual analysis, this paper has conservatively quantified the direct impact of ConnectKentucky as the intervening factor in Kentucky. Additionally, the paper extrapolates this impact to other states to quantify the potential national impact of pending federal legislation that would empower states to accelerate broadband through similar public-private partnerships.

Figure 2: Broadband Adoption Growth Rates 2005-2007

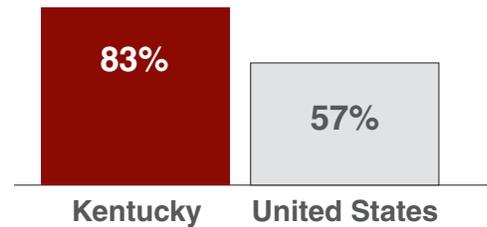
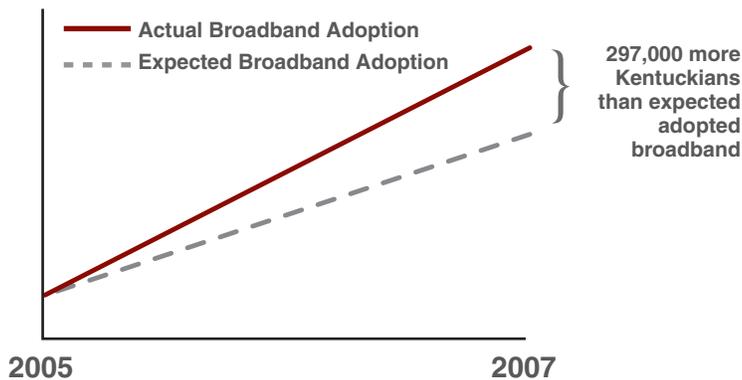


Figure 3: Kentucky's Actual versus Expected Broadband Adoption in 2007



To measure the impact of the ConnectKentucky initiative on broadband adoption in Kentucky, this study compares the growth rate of adoption in Kentucky from 2005-2007 to what one would have expected if no ConnectKentucky program had been in place. In other words, what would we expect adoption rates to be in the absence of a coordinated public-private program such as ConnectKentucky. To this end, we compare Kentucky broadband adoption trends since the start of ConnectKentucky's program with national average broadband growth trends during the same period. In the identified time frame, Kentucky had 297,000 more subscribers than expected when compared

to national growth rates.⁴ For Kentucky, this means 297,000 more subscribers are participating in the benefits of broadband today than would have without the ConnectKentucky program (Figure 3^f).

Many have recognized that broadband adoption represents an important source of gaining an economic advantage. A recent Brookings Institution study developed a formula for gauging the growth in jobs that can be associated with growth in broadband adoption.⁶ This study uses the Brookings Institution formula along with direct consumer surveys to estimate the direct economic impacts associated with employment,

⁴ If national broadband adoption rates between 2005 and 2007 were applied to Kentucky's 2005 baseline broadband adoption rate (24%), then Kentucky's expected statewide adoption would be only 37% in 2007. However, Kentucky's broadband adoption percentage is actually 44% in 2007, which is seven percentage points above the expected adoption rate. This additional 7% translates into approximately 297,000 more individuals accessing broadband in the state of Kentucky than expected.

⁵ KY growth comes from 2 studies: 2005 University of KY E-Commerce Report - statewide digit dial telephone survey conducted March 2005. N=1,102 +/- 3% at the 95% level of confidence. And 2007 ConnectKentucky Residential Technology Assessment - statewide random digit dial telephone survey completed September 2007. N = 10,830 +/- 1.7% at the 95% level of confidence. National growth: "Home Broadband Adoption 2007" by John Horrigan and Aaron Smith, Pew Internet and American Life Project, June 2007

⁶ Robert W. Crandall, Robert E. Litan, and William Lehr, "The Effects of Broadband Deployment on Output and Employment: A Cross-Sectional Analysis Of U.S. Data," Issues in Economic Policy: The Brookings Institution, No. 6, July 2007.

time saved, direct consumer healthcare savings and economic and environmental impact of fewer miles being driven due to online activity enabled by broadband.

To further understand the urgency of a concerted effort to promote broadband adoption and stimulate infrastructure investment, it is useful to extrapolate economic benefits gained through broadband acceleration onto the nation as a whole. By applying the dynamic equivalents to other state demographics and by assuming a similar higher than expected growth rate in broadband adoption, this study reports that if every state were to develop initiatives similar to ConnectKentucky, the United States could expect to gain:

- \$92 billion through 2.4 million jobs created or saved annually
- \$662 million saved per year in reduced healthcare costs
- \$6.4 billion per year in mileage savings from unnecessary driving
- \$18 million in carbon credits associated with 3.2 billion fewer lbs of CO2 emissions per year in the United States
- \$35.2 billion in value from 3.8 billion more hours saved per year from accessing broadband at home
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Given the federal government's current search for constructive forms of economic stimulus, Connected Nation encourages the 110th Congress to consider the following bills that directly seek to replicate the ConnectKentucky model nationwide as a relevant means to both short and long term economic stimulus that provides an astounding return on investment.

- S. 1190/H.R. 3627 – the Connect the Nation Act of 2007
- S. 1492 – the Broadband Data Improvement Act
- H.R. 3919 – the Broadband Census of America Act of 2007

Each of these bills in various ways provides legislation that includes:

- Recognition of the critical role of public-private partnerships in broadband expansion
- Federal enabling of state/local response to broadband deployment and demand aggregation
- Recognition of the indispensable role non-profits play in program implementation

Time is of the essence. The United States can ill afford the passing of another year without policies that will stimulate broadband growth, particularly in previously underserved or overlooked areas. Much consensus building has occurred around broadband policy needs during this Congress. The time for action is now.

Table 2: A State-by-State Summary of the Annual Economic Impact Associated with Accelerating Broadband for Each State

| | Total Annual Economic Impact | Jobs Created or Saved Annually | Direct Annual Income Growth from the Increase in Broadband | Average Annual Healthcare Costs Saved | Average Annual Mileage Costs Saved | Average Annual Hours Saved | Annual Value of Hours Saved | Average Annual lbs of CO ₂ Emissions Cut | Value of Carbon Offsets |
|----------------|------------------------------|--------------------------------|--|---------------------------------------|------------------------------------|----------------------------|-----------------------------|---|-------------------------|
| Alabama | \$1,692,307,789 | 33,451 | \$1,118,595,872 | \$10,187,810 | \$99,216,165 | 57,715,987 | \$464,036,535 | 50,255,886 | \$271,408 |
| Alaska | \$317,188,552 | 4,846 | \$212,849,167 | \$1,484,307 | \$14,018,776 | 8,408,897 | \$88,797,954 | 7,100,920 | \$38,349 |
| Arizona | \$2,498,704,035 | 46,358 | \$1,680,954,424 | \$13,659,679 | \$129,327,410 | 77,384,824 | \$674,408,744 | 65,508,111 | \$353,778 |
| Arkansas | \$963,684,222 | 20,577 | \$635,196,771 | \$6,226,667 | \$60,352,819 | 35,275,319 | \$261,742,869 | 30,570,465 | \$165,097 |
| California | \$17,287,110,398 | 262,042 | \$11,577,026,715 | \$80,761,066 | \$768,277,259 | 457,527,657 | \$4,858,943,717 | 389,154,873 | \$2,101,641 |
| Colorado | \$2,351,248,032 | 39,665 | \$1,644,109,297 | \$10,529,720 | \$101,888,351 | 59,652,980 | \$594,441,946 | 51,609,426 | \$278,718 |
| Connecticut | \$1,938,746,950 | 29,765 | \$1,368,285,351 | \$7,763,882 | \$76,465,884 | 43,983,951 | \$486,022,659 | 38,732,204 | \$209,174 |
| Delaware | \$452,660,929 | 7,796 | \$324,919,691 | \$1,890,627 | \$18,478,024 | 10,710,782 | \$107,322,040 | 9,359,659 | \$50,547 |
| Florida | \$7,531,595,950 | 143,405 | \$5,136,752,665 | \$40,072,871 | \$399,029,270 | 227,020,858 | \$1,954,649,591 | 202,119,981 | \$1,091,554 |
| Georgia | \$3,907,660,865 | 71,059 | \$2,639,837,894 | \$20,743,080 | \$197,143,135 | 117,513,714 | \$1,049,397,466 | 99,858,756 | \$539,290 |
| Hawaii | \$578,001,026 | 10,284 | \$397,274,880 | \$2,847,646 | \$28,011,744 | 16,132,486 | \$149,790,130 | 14,188,767 | \$76,627 |
| Idaho | \$565,942,345 | 10,859 | \$378,002,347 | \$3,248,525 | \$30,661,907 | 18,403,549 | \$153,945,689 | 15,531,152 | \$83,876 |
| Illinois | \$6,207,888,316 | 105,622 | \$4,321,003,997 | \$28,425,487 | \$273,919,566 | 161,036,091 | \$1,583,789,952 | 138,748,261 | \$749,314 |
| Indiana | \$2,679,847,808 | 52,863 | \$1,860,248,442 | \$13,985,762 | \$134,940,477 | 79,232,151 | \$670,303,994 | 68,351,293 | \$369,133 |
| Iowa | \$1,237,290,273 | 26,064 | \$866,632,289 | \$6,605,940 | \$64,670,465 | 37,423,974 | \$299,204,671 | 32,757,480 | \$176,908 |
| Kansas | \$1,154,893,120 | 22,828 | \$798,081,721 | \$6,123,002 | \$58,974,133 | 34,688,036 | \$291,552,939 | 29,872,121 | \$161,325 |
| Kentucky | \$1,587,239,467 | 31,699 | \$1,061,603,244 | \$9,317,330 | \$91,153,941 | 52,784,546 | \$424,915,597 | 46,172,134 | \$249,354 |
| Louisiana | \$1,556,816,993 | 31,313 | \$1,030,199,954 | \$9,498,299 | \$91,233,861 | 53,809,773 | \$425,635,307 | 46,212,615 | \$249,572 |
| Maine | \$544,607,277 | 10,577 | \$371,878,460 | \$2,927,562 | \$29,575,200 | 16,585,225 | \$140,145,152 | 14,980,703 | \$80,904 |
| Maryland | \$2,813,857,230 | 43,922 | \$1,933,873,816 | \$12,440,005 | \$121,232,549 | 70,475,128 | \$745,979,225 | 61,407,827 | \$331,635 |
| Massachusetts | \$3,840,751,425 | 5,411 | \$2,765,167,106 | \$14,259,724 | \$141,613,044 | 80,784,197 | \$919,324,165 | 71,731,143 | \$387,386 |
| Michigan | \$4,637,508,875.7 | 6,200 | \$3,141,722,166 | \$22,363,953 | \$217,268,265 | 126,696,281 | \$1,255,560,149 | 110,052,723 | \$594,343 |
| Minnesota | \$2,791,482,532 | 48,691 | \$2,021,172,957 | \$11,446,205 | \$111,405,012 | 64,845,051 | \$647,153,606 | 56,429,893 | \$304,751 |
| Mississippi | \$905,743,973 | 18,723 | \$570,305,184 | \$6,447,452 | \$61,452,087 | 36,526,113 | \$267,371,146 | 31,127,277 | \$168,104 |
| Missouri | \$2,501,367,723 | 48,592 | \$1,733,262,586 | \$12,942,827 | \$126,066,630 | 73,323,711 | \$628,750,822 | 63,856,431 | \$344,858 |
| Montana | \$337,218,046 | 7,198 | \$225,220,226 | \$2,092,557 | \$20,700,888 | 11,854,754 | \$89,147,748 | 10,485,604 | \$56,628 |
| Nebraska | \$783,129,301 | 16,280 | \$558,411,615 | \$3,917,222 | \$37,725,489 | 22,191,847 | \$182,971,776 | 19,109,062 | \$103,199 |
| Nevada | \$1,175,028,256 | 23,482 | \$845,359,452 | \$5,528,117 | \$52,939,525 | 31,317,891 | \$271,056,344 | 26,815,416 | \$144,817 |
| New Hampshire | \$634,062,329 | 11,374 | \$446,419,295 | \$2,912,766 | \$28,960,278 | 16,501,406 | \$155,690,768 | 14,669,227 | \$79,222 |
| New Jersey | \$4,636,703,229 | 71,109 | \$3,231,890,665 | \$19,326,718 | \$188,794,006 | 109,489,738 | \$1,196,175,390 | 95,629,679 | \$516,451 |
| New Mexico | \$694,119,894 | 13,184 | \$447,977,912 | \$4,329,844 | \$41,293,689 | 24,529,436 | \$200,405,489 | 20,916,460 | \$112,960 |
| New York | \$9,909,345,962 | 147,884 | \$6,776,023,161 | \$42,767,217 | \$420,637,031 | 242,284,874 | \$2,668,767,889 | 213,064,943 | \$1,150,663 |
| North Carolina | \$3,626,061,051 | 69,432 | \$2,466,214,037 | \$19,619,004 | \$190,523,446 | 111,145,595 | \$949,183,383 | 96,505,690 | \$521,182 |
| North Dakota | \$264,354,171 | 5,755 | \$186,703,927 | \$1,408,578 | \$13,960,441 | 7,979,877 | \$62,243,037 | 7,071,371 | \$38,189 |
| Ohio | \$5,165,789,104 | 96,312 | \$3,598,197,715 | \$25,426,175 | \$247,968,322 | 144,044,384 | \$1,293,518,569 | 125,603,198 | \$678,323 |
| Oklahoma | \$1,270,219,076 | 25,603 | \$833,901,696 | \$7,928,700 | \$76,474,057 | 44,917,679 | \$351,705,426 | 38,736,344 | \$209,197 |
| Oregon | \$1,653,094,131 | 29,383 | \$1,133,296,659 | \$8,197,950 | \$80,851,438 | 46,443,033 | \$430,526,912 | 40,953,615 | \$221,171 |
| Pennsylvania | \$5,618,124,596 | 103,916 | \$3,905,168,316 | \$27,558,567 | \$274,060,290 | 156,124,817 | \$1,410,587,724 | 138,819,542 | \$749,699 |
| Rhode Island | \$517,684,416 | 8,896 | \$360,983,164 | \$2,364,979 | \$23,573,532 | 13,398,078 | \$130,698,255 | 11,940,682 | \$64,486 |
| South Carolina | \$1,628,562,600 | 32,629 | \$1,089,806,446 | \$9,572,467 | \$93,461,551 | 54,229,946 | \$435,466,470 | 47,341,006 | \$255,666 |
| South Dakota | \$295,051,946 | 6,718 | \$204,642,266 | \$1,732,113 | \$16,753,192 | 9,812,771 | \$71,878,545 | 8,485,981 | \$45,829 |
| Tennessee | \$2,450,739,704 | 49,142 | \$1,682,608,846 | \$13,377,207 | \$130,689,201 | 75,784,562 | \$623,706,946 | 66,197,898 | \$357,503 |
| Texas | \$9,424,006,380 | 173,117 | \$6,303,206,537 | \$52,074,637 | \$486,029,518 | 295,013,274 | \$2,581,366,143 | 246,188,147 | \$1,329,546 |
| Utah | \$1,066,414,382 | 20,728 | \$736,673,777 | \$5,648,921 | \$50,494,153 | 32,002,271 | \$273,459,402 | 25,576,764 | \$138,128 |
| Vermont | \$275,359,624 | 5,270 | \$191,553,395 | \$1,382,086 | \$13,953,557 | 7,829,796 | \$68,432,416 | 7,067,884 | \$38,170 |
| Virginia | \$3,764,632,826 | 63,344 | \$2,625,619,577 | \$16,930,580 | \$165,834,683 | 95,915,137 | \$955,794,341 | 84,000,111 | \$453,645 |
| Washington | \$3,056,439,915 | 48,365 | \$2,075,358,306 | \$14,168,025 | \$138,603,982 | 80,264,707 | \$827,930,448 | 70,206,965 | \$379,155 |
| West Virginia | \$616,017,781 | 12,690 | \$398,961,244 | \$4,028,290 | \$40,504,254 | 22,821,071 | \$172,413,192 | 20,516,588 | \$110,800 |
| Wisconsin | \$2,613,219,462 | 50,748 | \$1,863,975,895 | \$12,308,818 | \$120,871,181 | 69,731,928 | \$615,732,922 | 61,224,784 | \$330,646 |
| Wyoming | \$215,933,328 | 4,383 | \$150,308,706 | \$1,140,841 | \$11,197,254 | 6,463,094 | \$53,255,896 | 5,671,736 | \$30,630 |
| TOTAL | \$134,235,457,615 | 2,352,552 | \$91,927,439,829 | \$ 661,941,807 | \$6,413,230,933 | 3,750,033,246 | \$35,215,301,497 | 3,248,488,796 | \$17,543,549 |



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