**Certification Rule Economic Analysis Appendix B: Total Cost of Final Revisions**

[RIN 2070-AJ20]

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The purpose of the Economic Analysis (EA) Appendix B is to show how the total incremental costs of the final revisions (presented in Tables 3.5-2, 3.5-3, and 3.5-4 of Chapter 3 of the EA) for each affected sector (private applicators, commercial applicators, and governmental entities) are obtained from the individual incremental costs of the final revisions estimated in Chapter 3 of the EA and Appendix A.

**Methodology:**

1. For each affected sector (private applicators, commercial applicators, and governmental entities), the present value of the total cost of the *final revisions* are obtained by summing the present values of costs of individual revisions, by jurisdiction. For Alabama private applicators for example, this sum is $3,995 thousand as shown in Table B.1.1 below, which is the value shown in Table 3.5-2 of the EA.
2. For each affected sector (private applicators, commercial applicators, and governmental entities), the present value of the total cost of the *current requirements* are obtained by summing the present values of costs of individual current requirement, by jurisdiction. For Alabama private applicators for example, this sum is $3,845 thousand in Table B.1.2 below, which is the value shown in Table 3.5-2 of the EA.
3. The difference between Steps I and II is the total incremental cost of the final revisions for each affected sector, by jurisdiction. Thus, for Alabama private applicators for example, the total incremental cost of the final revisions is $150 thousand, shown in Table 3.5-2 of the EA.
4. Finally, the total incremental cost in Step III is annualized over a 10-year horizon, at a 3% discount rate, to obtain an annualized incremental cost of $17 thousand for Alabama private applicators, for example.

The above procedure is applied to each affected sector below. Since Step III is a simple subtraction it is not mentioned further. Annualized incremental costs are presented in Chapter 3 of the EA and Appendix A for each of the affected sectors (for example, for private applicators, see Table 3.5-2 of Chapter 3 of the EA), they are not repeated in this Appendix. Thus, in this Appendix, only Steps I and II are provided. For details on the cost methodology and the estimation of costs of the current requirements or final revisions, the reader is referred to Chapter 3 of the EA and Appendix A.

# B.1. Private Applicators

1. The final revisions for private applicators include the following areas: enhancement of private applicator core certification; establishment of application method-specific categories; improved supervision of noncertified applicators; minimum age requirements; and recertification requirements. In Table B.1.1, the present values (PV) of costs of the final requirements for each of the rule areas are presented and summed to obtain the present value of the total cost of the final revisions, by jurisdiction.

Table B.1.1. Present Value of Private Applicator Final Requirements by Jurisdiction

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   | PV(RCP) Pvt Init Cert | PV(RCP) New Cat | PV(RCP) Supervision | PV(RCP) Age | PV(RCP) Recertification | Sum |
|   | $1,000  |
| Alabama | 4,425 | 13 | 145 | 0 | 4,646 | 9,229 |
| Alaska | 42 | 0 | 4 | 5 | 183 | 235 |
| Arizona | 522 | 5 | 8 | 197 | 873 | 1,605 |
| Arkansas | 8,788 | 30 | 793 | 171 | 13,427 | 23,209 |
| California | 8,682 | 91 | 956 | 416 | 32,882 | 43,026 |
| Colorado | 2,620 | 23 | 198 | 207 | 4,073 | 7,122 |
| Connecticut | 143 | 0 | 12 | 0 | 769 | 925 |
| Delaware | 556 | 3 | 52 | 0 | 493 | 1,104 |
| Florida | 2,364 | 176 | 116 | 152 | 4,003 | 6,811 |
| Georgia | 9,661 | 11 | 714 | 202 | 12,188 | 22,776 |
| Hawaii | 231 | 6 | 6 | 11 | 975 | 1,230 |
| Idaho | 938 | 8 | 175 | 97 | 5,469 | 6,687 |
| Illinois | 7,600 | 8 | 1,076 | 388 | 24,229 | 33,301 |
| Indiana | 5,257 | 12 | 667 | 379 | 9,018 | 15,332 |
| Iowa | 5,041 | 12 | 0 | 392 | 26,647 | 32,093 |
| Kansas | 7,691 | 19 | 763 | 401 | 12,766 | 21,640 |
| Kentucky | 13,506 | 14 | 240 | 422 | 8,863 | 23,045 |
| Louisiana | 2,638 | 23 | 268 | 134 | 4,985 | 8,048 |
| Maine | 575 | 2 | 23 | 49 | 1,376 | 2,025 |
| Maryland | 807 | 39 | 179 | 98 | 2,240 | 3,364 |
| Massachusetts | 559 | 1 | 26 | 36 | 2,276 | 2,898 |
| Michigan | 3,424 | 19 | 315 | 195 | 22,246 | 26,198 |
| Minnesota | 5,054 | 7 | 0 | 275 | 13,125 | 18,462 |
| Mississippi | 9,216 | 14 | 492 | 159 | 6,749 | 16,631 |
| Missouri | 9,229 | 12 | 643 | 354 | 13,676 | 23,915 |
| Montana | 1,501 | 0 | 366 | 173 | 4,345 | 6,385 |
| Nebraska | 5,495 | 15 | 1,797 | 318 | 14,835 | 22,460 |
| Nevada | 346 | 15 | 16 | 21 | 602 | 1,000 |
| New Hampshire | 252 | 0 | 8 | 24 | 847 | 1,131 |
| New Jersey | 1,404 | 15 | 53 | 0 | 1,581 | 3,053 |
| New Mexico | 1,559 | 42 | 65 | 230 | 1,838 | 3,734 |
| New York | 1,767 | 19 | 319 | 234 | 8,512 | 10,851 |
| North Carolina | 3,361 | 39 | 947 | 311 | 13,303 | 17,960 |
| North Dakota | 6,453 | 168 | 707 | 78 | 10,574 | 17,980 |
| Ohio | 2,024 | 6 | 675 | 668 | 15,047 | 18,420 |
| Oklahoma | 12,625 | 22 | 290 | 589 | 11,122 | 24,648 |
| Oregon | 1,181 | 21 | 148 | 123 | 7,471 | 8,944 |
| Pennsylvania | 4,843 | 28 | 830 | 571 | 12,741 | 19,013 |
| Rhode Island | 43 | 0 | 3 | 12 | 128 | 186 |
| South Carolina | 5,126 | 37 | 148 | 81 | 4,448 | 9,840 |
| South Dakota | 13,684 | 10 | 0 | 167 | 10,564 | 24,427 |
| Tennessee | 2,260 | 10 | 148 | 399 | 7,127 | 9,944 |
| Texas | 20,898 | 30 | 1,116 | 1,278 | 73,282 | 96,606 |
| Utah | 4,653 | 10 | 29 | 107 | 2,262 | 7,061 |
| Vermont | 315 | 0 | 17 | 24 | 509 | 864 |
| Virginia | 7,154 | 38 | 157 | 236 | 8,189 | 15,775 |
| Washington | 4,679 | 35 | 521 | 203 | 12,764 | 18,202 |
| West Virginia | 498 | 8 | 18 | 116 | 1,269 | 1,910 |
| Wisconsin | 7,196 | 8 | 565 | 445 | 11,864 | 20,079 |
| Wyoming | 2,323 | 2 | 247 | 103 | 4,084 | 6,759 |
| Puerto Rico | 5,383 | 0 | 889 | 189 | 9,379 | 15,840 |
| Other  | 752 | 0 | 9 | 200 | 155 | 1,115 |
| **U.S. Total** | **227,345** | **1,126** | **17,962** | **11,645** | **477,021** | **735,100** |

Source: EPA estimates. PV calculated over 10 years using a 3% discount rate.

1. The following areas of the current or baseline requirements for private applicators are revised: private applicator core certification; establishment of application method-specific categories; supervision of noncertified applicators; minimum age requirements; and recertification requirements. In Table B.1.2, the present values (PV) of costs of the current requirements for each of the rule areas are presented and summed to obtain the present value of the total cost of the current requirements, by jurisdiction.

Table B.1.2 Present Value of Private Applicator Baseline Requirements

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   | PV(RCB) Pvt Init Cert | PV(RCB) New Cat | PV(RCB) Supervision | PV(RCB) Age | PV(RCB) Recertification | Sum |
|   | $1,000  |
| Alabama | 4,425 | 0 | 0 | 0 | 4,634 | 9,059 |
| Alaska | 42 | 0 | 0 | 4 | 183 | 229 |
| Arizona | 522 | 5 | 0 | 161 | 873 | 1,562 |
| Arkansas | 3,794 | 0 | 0 | 161 | 8,578 | 12,533 |
| California | 8,682 | 0 | 0 | 332 | 32,794 | 41,808 |
| Colorado | 2,620 | 0 | 175 | 168 | 4,051 | 7,014 |
| Connecticut | 143 | 0 | 11 | 0 | 768 | 923 |
| Delaware | 556 | 0 | 0 | 0 | 435 | 991 |
| Florida | 2,364 | 0 | 102 | 143 | 3,831 | 6,440 |
| Georgia | 2,606 | 0 | 0 | 171 | 7,797 | 10,574 |
| Hawaii | 231 | 0 | 0 | 11 | 969 | 1,211 |
| Idaho | 938 | 0 | 155 | 91 | 5,462 | 6,645 |
| Illinois | 7,600 | 0 | 947 | 313 | 24,222 | 33,082 |
| Indiana | 5,257 | 0 | 586 | 326 | 9,007 | 15,175 |
| Iowa | 5,041 | 8 | 0 | 259 | 26,645 | 31,954 |
| Kansas | 7,691 | 0 | 675 | 309 | 12,748 | 21,423 |
| Kentucky | 3,643 | 0 | 211 | 357 | 7,061 | 11,273 |
| Louisiana | 2,638 | 0 | 235 | 112 | 3,489 | 6,474 |
| Maine | 575 | 0 | 0 | 41 | 1,374 | 1,989 |
| Maryland | 807 | 0 | 159 | 83 | 1,757 | 2,806 |
| Massachusetts | 559 | 0 | 23 | 34 | 2,275 | 2,891 |
| Michigan | 3,424 | 0 | 277 | 184 | 22,228 | 26,113 |
| Minnesota | 5,054 | 6 | 0 | 182 | 13,124 | 18,366 |
| Mississippi | 9,216 | 0 | 448 | 135 | 4,312 | 14,112 |
| Missouri | 3,156 | 0 | 571 | 329 | 8,749 | 12,805 |
| Montana | 962 | 0 | 327 | 135 | 4,345 | 5,770 |
| Nebraska | 5,495 | 0 | 1,596 | 244 | 13,162 | 20,496 |
| Nevada | 346 | 15 | 15 | 18 | 602 | 996 |
| New Hampshire | 252 | 0 | 7 | 23 | 847 | 1,128 |
| New Jersey | 1,404 | 0 | 47 | 0 | 1,566 | 3,017 |
| New Mexico | 1,559 | 0 | 58 | 176 | 1,558 | 3,351 |
| New York | 1,767 | 0 | 284 | 202 | 8,494 | 10,746 |
| North Carolina | 3,361 | 0 | 851 | 253 | 13,265 | 17,730 |
| North Dakota | 6,453 | 166 | 0 | 74 | 10,573 | 17,266 |
| Ohio | 2,024 | 5 | 596 | 543 | 15,047 | 18,216 |
| Oklahoma | 12,625 | 0 | 0 | 466 | 11,100 | 24,191 |
| Oregon | 1,181 | 0 | 130 | 116 | 7,451 | 8,879 |
| Pennsylvania | 4,843 | 28 | 738 | 487 | 12,406 | 18,503 |
| Rhode Island | 43 | 0 | 0 | 10 | 124 | 177 |
| South Carolina | 5,126 | 0 | 0 | 75 | 3,827 | 9,028 |
| South Dakota | 6,704 | 0 | 0 | 111 | 6,758 | 13,572 |
| Tennessee | 610 | 0 | 0 | 330 | 5,679 | 6,619 |
| Texas | 20,898 | 0 | 1,014 | 1,027 | 73,253 | 96,193 |
| Utah | 4,653 | 10 | 0 | 92 | 2,262 | 7,017 |
| Vermont | 315 | 0 | 0 | 21 | 509 | 845 |
| Virginia | 7,154 | 0 | 140 | 203 | 8,152 | 15,650 |
| Washington | 4,679 | 0 | 0 | 168 | 12,730 | 17,577 |
| West Virginia | 498 | 0 | 17 | 99 | 1,261 | 1,874 |
| Wisconsin | 7,196 | 0 | 0 | 380 | 11,856 | 19,433 |
| Wyoming | 1,279 | 0 | 0 | 79 | 4,083 | 5,440 |
| Puerto Rico | 5,383 | 0 | 0 | 133 | 8,986 | 14,503 |
| Other  | 752 | 0 | 0 | 158 | 88 | 998 |
| **U.S. Total** | **189,146** | **244** | **10,394** | **9,531** | **447,351** | **656,667** |

Source: EPA estimates. PV calculated over 10 years using a 3% discount rate.

# B.2. Commercial Applicators

1. The final revisions for commercial applicators include the following areas: establishment of application method-specific categories; improved supervision of noncertified applicators; minimum age requirements; and recertification requirements. In Table B.2.1, the present values (PV) of costs of the final requirements for each of the rule areas are presented and summed to obtain the present value of the total cost of the final revisions, by jurisdiction.

Table B.2.1. Present Value of Commercial Applicator Final Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   | PV(RCP) New Cat | PV(RCP) Supervision | PV(RCP) Age | PV(RCP) Recertification | Sum |
|   | $1,000  |
| Alabama | 113 | 1,693 | 2,868 | 13,103 | 17,777 |
| Alaska | 3 | 115 | 188 | 976 | 1,282 |
| Arizona | 109 | 2,477 | 4,138 | 27,158 | 33,881 |
| Arkansas | 210 | 1,261 | 2,116 | 4,909 | 8,496 |
| California | 1,146 | 13,713 | 23,086 | 157,993 | 195,938 |
| Colorado | 192 | 3,536 | 5,083 | 6,045 | 14,857 |
| Connecticut | 4 | 2,322 | 3,103 | 4,156 | 9,584 |
| Delaware | 63 | 961 | 1,646 | 8,674 | 11,343 |
| Florida | 1,061 | 15,719 | 20,923 | 54,005 | 91,709 |
| Georgia | 237 | 3,244 | 5,407 | 13,253 | 22,141 |
| Hawaii | 35 | 711 | 1,222 | 2,798 | 4,766 |
| Idaho | 299 | 2,595 | 3,432 | 24,832 | 31,158 |
| Illinois | 209 | 4,865 | 8,225 | 28,603 | 41,901 |
| Indiana | 254 | 6,078 | 8,660 | 44,224 | 59,216 |
| Iowa | 662 | 154 | 859 | 48,553 | 50,228 |
| Kansas | 553 | 3,663 | 4,796 | 13,085 | 22,096 |
| Kentucky | 117 | 6,598 | 10,218 | 20,180 | 37,113 |
| Louisiana | 329 | 2,176 | 2,868 | 7,347 | 12,720 |
| Maine | 29 | 503 | 846 | 2,423 | 3,802 |
| Maryland | 220 | 3,781 | 0 | 8,790 | 12,791 |
| Massachusetts | 17 | 1,598 | 0 | 3,780 | 5,395 |
| Michigan | 181 | 8,668 | 11,379 | 55,412 | 75,640 |
| Minnesota | 327 | 118 | 1,058 | 21,090 | 22,593 |
| Mississippi | 175 | 684 | 893 | 3,546 | 5,299 |
| Missouri | 321 | 4,742 | 6,253 | 9,735 | 21,051 |
| Montana | 18 | 894 | 1,335 | 3,812 | 6,059 |
| Nebraska | 444 | 5,452 | 7,743 | 11,944 | 25,584 |
| Nevada | 6 | 1,822 | 2,604 | 2,519 | 6,952 |
| New Hampshire | 19 | 19 | 0 | 2,197 | 2,234 |
| New Jersey | 74 | 4,532 | 0 | 13,357 | 17,963 |
| New Mexico | 28 | 647 | 1,196 | 7,936 | 9,807 |
| New York | 55 | 12,101 | 15,939 | 32,643 | 60,739 |
| North Carolina | 187 | 12,391 | 16,315 | 24,056 | 52,949 |
| North Dakota | 325 | 2,469 | 4,185 | 7,360 | 14,339 |
| Ohio | 123 | 4,237 | 6,233 | 18,515 | 29,108 |
| Oklahoma | 512 | 5,076 | 9,527 | 37,838 | 52,952 |
| Oregon | 222 | 3,101 | 4,091 | 11,412 | 18,825 |
| Pennsylvania | 117 | 9,789 | 12,883 | 23,924 | 46,712 |
| Rhode Island | 27 | 565 | 1,019 | 895 | 2,506 |
| South Carolina | 86 | 1,652 | 2,774 | 6,874 | 11,387 |
| South Dakota | 352 | 66 | 461 | 12,330 | 13,208 |
| Tennessee | 202 | 4,318 | 7,694 | 41,021 | 53,236 |
| Texas | 516 | 13,103 | 18,170 | 46,750 | 78,539 |
| Utah | 47 | 1,001 | 2,218 | 10,541 | 13,807 |
| Vermont | 7 | 477 | 0 | 1,821 | 2,305 |
| Virginia | 85 | 5,123 | 0 | 12,167 | 17,375 |
| Washington | 488 | 7,896 | 13,400 | 32,703 | 54,488 |
| West Virginia | 73 | 1,082 | 135 | 2,962 | 4,252 |
| Wisconsin | 77 | 5,596 | 10,405 | 15,432 | 31,510 |
| Wyoming | 36 | 853 | 1,458 | 4,406 | 6,752 |
| Puerto Rico | 82 | 3,213 | 5,613 | 7,248 | 16,157 |
| Other  | 123 | 801 | 1,335 | 4,390 | 6,649 |
| **U.S. Total** | **11,196** | **200,247** | **276,003** | **981,723** | **1,469,170** |

Source: EPA estimates. PV calculated over 10 years using a 3% discount rate.

1. The following areas of the current or baseline requirements for commercial applicators are revised: establishment of application method-specific categories; supervision of noncertified applicators; minimum age requirements; and recertification requirements. In Table B.2.2, the present values (PV) of costs of the current requirements for each of the rule areas are presented and summed to obtain the present value of the total cost of the current requirements, by jurisdiction.

Table B.2.2. Present Value of Commercial Applicator Baseline Requirements

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|   | PV(RCB) New Cat | PV(RCB) Supervision | PV(RCB) Age | PV(RCB) Recertification | Sum |
|   | $1,000  |
| Alabama | 8 | 0 | 2,279 | 13,025 | 15,312 |
| Alaska | 3 | 0 | 149 | 976 | 1,128 |
| Arizona | 36 | 0 | 3,288 | 27,104 | 30,428 |
| Arkansas | 19 | 0 | 1,681 | 4,153 | 5,853 |
| California | 305 | 0 | 18,343 | 157,139 | 175,788 |
| Colorado | 14 | 3,536 | 4,041 | 3,832 | 11,424 |
| Connecticut | 4 | 2,290 | 2,466 | 4,156 | 8,915 |
| Delaware | 12 | 0 | 1,308 | 8,636 | 9,955 |
| Florida | 1,061 | 15,537 | 16,625 | 54,005 | 87,228 |
| Georgia | 237 | 0 | 4,296 | 12,282 | 16,815 |
| Hawaii | 35 | 0 | 971 | 2,798 | 3,804 |
| Idaho | 0 | 2,595 | 2,727 | 24,596 | 29,918 |
| Illinois | 209 | 4,694 | 6,547 | 28,603 | 40,052 |
| Indiana | 254 | 5,968 | 6,885 | 44,224 | 57,331 |
| Iowa | 662 | 0 | 688 | 48,553 | 49,903 |
| Kansas | 0 | 3,663 | 3,811 | 12,627 | 20,101 |
| Kentucky | 117 | 6,438 | 8,128 | 20,121 | 34,805 |
| Louisiana | 278 | 2,123 | 2,279 | 6,988 | 11,668 |
| Maine | 29 | 0 | 672 | 2,016 | 2,718 |
| Maryland | 220 | 3,729 | 0 | 8,790 | 12,739 |
| Massachusetts | 17 | 1,573 | 0 | 3,780 | 5,370 |
| Michigan | 58 | 8,668 | 9,041 | 55,287 | 73,054 |
| Minnesota | 327 | 0 | 847 | 21,090 | 22,264 |
| Mississippi | 175 | 650 | 710 | 2,857 | 4,393 |
| Missouri | 55 | 4,742 | 4,969 | 8,179 | 17,944 |
| Montana | 18 | 866 | 1,061 | 3,812 | 5,758 |
| Nebraska | 444 | 5,452 | 6,156 | 10,204 | 22,257 |
| Nevada | 6 | 1,803 | 2,070 | 2,306 | 6,186 |
| New Hampshire | 19 | 19 | 0 | 2,197 | 2,234 |
| New Jersey | 74 | 4,532 | 0 | 13,357 | 17,963 |
| New Mexico | 9 | 620 | 953 | 7,922 | 9,503 |
| New York | 55 | 12,101 | 12,665 | 32,643 | 57,464 |
| North Carolina | 24 | 12,391 | 12,964 | 23,934 | 49,313 |
| North Dakota | 325 | 0 | 3,325 | 7,072 | 10,722 |
| Ohio | 123 | 4,237 | 4,958 | 12,653 | 21,970 |
| Oklahoma | 100 | 0 | 7,575 | 37,530 | 45,205 |
| Oregon | 23 | 3,046 | 3,250 | 11,263 | 17,583 |
| Pennsylvania | 117 | 9,789 | 10,236 | 23,924 | 44,066 |
| Rhode Island | 1 | 0 | 810 | 875 | 1,687 |
| South Carolina | 86 | 0 | 2,204 | 5,894 | 8,185 |
| South Dakota | 30 | 0 | 369 | 12,089 | 12,488 |
| Tennessee | 0 | 0 | 6,116 | 40,847 | 46,963 |
| Texas | 516 | 13,103 | 14,443 | 46,750 | 74,812 |
| Utah | 47 | 0 | 1,766 | 10,504 | 12,317 |
| Vermont | 7 | 0 | 0 | 1,821 | 1,828 |
| Virginia | 85 | 5,123 | 0 | 12,167 | 17,375 |
| Washington | 21 | 0 | 10,647 | 32,354 | 43,023 |
| West Virginia | 5 | 1,058 | 108 | 2,912 | 4,083 |
| Wisconsin | 77 | 0 | 8,273 | 14,012 | 22,362 |
| Wyoming | 36 | 0 | 1,158 | 4,372 | 5,567 |
| Puerto Rico | 0 | 0 | 4,461 | 6,304 | 10,765 |
| Other  | 0 | 0 | 1,061 | 4,029 | 5,091 |
| **U.S. Total** | **6,383** | **140,347** | **219,381** | **959,564** | **1,325,675** |

Source: EPA estimates. PV calculated over 10 years using a 3% discount rate.

# B.3. State, Other Jurisdictions, and Federal Agencies

1. The final revisions for the governmental entities include the following areas: change state laws and regulations as needed to revise state certification plans; EPA cost of reviewing and approving the revised state plans; develop exam materials for application method-specific categories and other exam/training materials; costs of updating state tracking database; and administering or proctoring certification/recertification exams/training. In Table B.3.1, the present values (PV) of costs of the final requirements for each of the rule areas are presented and summed to obtain the present value of the total cost of the final revisions, by jurisdiction.

Table B.3.1. Present Value of Final Requirements for Governmental Entities

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   | PV(RCP) Revise plans | PV(RCP) EPA cost | PV(RCP) Develop exam | PV(RCP) Tracking database | PV(RCP) Proctor | Sum |
|   | $1,000 |
| Alabama | 414 | 3 | 14 | 197 | 603 | 1,231 |
| Alaska | 414 | 3 | 0 | 197 | 40 | 654 |
| Arizona | 414 | 3 | 4 | 197 | 1,058 | 1,677 |
| Arkansas | 414 | 3 | 28 | 197 | 977 | 1,619 |
| California | 414 | 3 | 30 | 197 | 9,210 | 9,855 |
| Colorado | 414 | 3 | 24 | 197 | 626 | 1,265 |
| Connecticut | 414 | 3 | 10 | 197 | 175 | 799 |
| Delaware | 414 | 3 | 14 | 197 | 382 | 1,010 |
| Florida | 414 | 3 | 20 | 197 | 7,627 | 8,261 |
| Georgia | 414 | 3 | 32 | 197 | 1,512 | 2,159 |
| Hawaii | 414 | 3 | 10 | 197 | 316 | 940 |
| Idaho | 414 | 3 | 34 | 197 | 1,043 | 1,692 |
| Illinois | 414 | 3 | 20 | 197 | 1,412 | 2,046 |
| Indiana | 414 | 3 | 20 | 197 | 3,102 | 3,737 |
| Iowa | 414 | 3 | 10 | 296 | 3,724 | 4,447 |
| Kansas | 414 | 3 | 34 | 197 | 1,195 | 1,844 |
| Kentucky | 414 | 3 | 22 | 197 | 1,647 | 2,283 |
| Louisiana | 414 | 3 | 30 | 197 | 859 | 1,503 |
| Maine | 414 | 3 | 10 | 197 | 235 | 860 |
| Maryland | 414 | 3 | 10 | 197 | 1,730 | 2,355 |
| Massachusetts | 414 | 3 | 10 | 197 | 210 | 835 |
| Michigan | 414 | 3 | 20 | 197 | 2,373 | 3,007 |
| Minnesota | 414 | 3 | 10 | 197 | 1,616 | 2,240 |
| Mississippi | 414 | 3 | 20 | 197 | 586 | 1,221 |
| Missouri | 414 | 3 | 28 | 197 | 1,473 | 2,115 |
| Montana | 414 | 3 | 4 | 197 | 287 | 905 |
| Nebraska | 414 | 3 | 20 | 197 | 1,694 | 2,328 |
| Nevada | 414 | 3 | 4 | 197 | 257 | 876 |
| New Hampshire | 414 | 3 | 10 | 197 | 123 | 748 |
| New Jersey | 414 | 3 | 10 | 197 | 723 | 1,348 |
| New Mexico | 414 | 3 | 14 | 197 | 380 | 1,008 |
| New York | 414 | 3 | 10 | 197 | 1,348 | 1,972 |
| North Carolina | 414 | 3 | 24 | 197 | 1,552 | 2,190 |
| North Dakota | 414 | 3 | 10 | 197 | 1,825 | 2,450 |
| Ohio | 414 | 3 | 0 | 197 | 1,540 | 2,155 |
| Oklahoma | 414 | 3 | 24 | 197 | 2,041 | 2,679 |
| Oregon | 414 | 3 | 24 | 197 | 790 | 1,428 |
| Pennsylvania | 414 | 3 | 0 | 197 | 1,834 | 2,448 |
| Rhode Island | 414 | 3 | 14 | 197 | 68 | 696 |
| South Carolina | 414 | 3 | 10 | 197 | 677 | 1,302 |
| South Dakota | 414 | 3 | 28 | 197 | 1,247 | 1,889 |
| Tennessee | 414 | 3 | 36 | 197 | 1,561 | 2,211 |
| Texas | 414 | 3 | 20 | 197 | 4,681 | 5,315 |
| Utah | 414 | 3 | 0 | 197 | 537 | 1,151 |
| Vermont | 414 | 3 | 10 | 197 | 81 | 706 |
| Virginia | 414 | 3 | 10 | 197 | 897 | 1,522 |
| Washington | 414 | 3 | 24 | 887 | 1,948 | 3,277 |
| West Virginia | 414 | 3 | 14 | 197 | 224 | 852 |
| Wisconsin | 414 | 3 | 10 | 197 | 934 | 1,558 |
| Wyoming | 414 | 3 | 14 | 114 | 363 | 909 |
| Puerto Rico | 414 | 3 | 0 | 197 | 671 | 1,286 |
| Other  | 423 | 67 | 0 | 197 | 381 | 1,069 |
| **U.S. Total** | **21,553** | **221** | **810** | **10,954** | **72,397** | **105,934** |

Source: EPA estimates. PV calculated over 10 years using a 3% discount rate.

1. The following areas of the current or baseline requirements for the government entities are revised: change state laws and regulations as needed to revise state certification plans; EPA cost of reviewing and approving the revised state plans; develop exam materials for application method-specific categories and other exam/training materials; costs of updating state tracking database; and administering or proctoring certification/recertification exams/training. In Table B.3.2, the present values (PV) of costs of the current requirements for each of the rule areas are presented and summed to obtain the present value of the total cost of the current requirements, by jurisdiction.

Table B.3.2. Present Value of Governmental Baseline Requirements

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|   | PV(RCB) Revise plans | PV(RCB) EPA cost | PV(RCB) Develop exam | PV(RCB) Tracking database | PV(RCB) Proctor | Sum |
|   | $1,000 |
| Alabama | 0 | 0 | 0 | 0 | 449 | 449 |
| Alaska | 0 | 0 | 0 | 0 | 40 | 40 |
| Arizona | 0 | 0 | 0 | 0 | 905 | 905 |
| Arkansas | 0 | 0 | 0 | 0 | 324 | 324 |
| California | 0 | 0 | 0 | 0 | 6,772 | 6,772 |
| Colorado | 0 | 0 | 0 | 0 | 184 | 184 |
| Connecticut | 0 | 0 | 0 | 0 | 122 | 122 |
| Delaware | 0 | 0 | 0 | 0 | 301 | 301 |
| Florida | 0 | 0 | 0 | 0 | 4,991 | 4,991 |
| Georgia | 0 | 0 | 0 | 0 | 795 | 795 |
| Hawaii | 0 | 0 | 0 | 0 | 228 | 228 |
| Idaho | 0 | 0 | 0 | 0 | 720 | 720 |
| Illinois | 0 | 0 | 0 | 0 | 1,213 | 1,213 |
| Indiana | 0 | 0 | 0 | 0 | 2,841 | 2,841 |
| Iowa | 0 | 0 | 0 | 0 | 3,426 | 3,426 |
| Kansas | 0 | 0 | 0 | 0 | 366 | 366 |
| Kentucky | 0 | 0 | 0 | 0 | 865 | 865 |
| Louisiana | 0 | 0 | 0 | 0 | 215 | 215 |
| Maine | 0 | 0 | 0 | 0 | 155 | 155 |
| Maryland | 0 | 0 | 0 | 0 | 1,100 | 1,100 |
| Massachusetts | 0 | 0 | 0 | 0 | 176 | 176 |
| Michigan | 0 | 0 | 0 | 0 | 2,008 | 2,008 |
| Minnesota | 0 | 0 | 0 | 0 | 1,285 | 1,285 |
| Mississippi | 0 | 0 | 0 | 0 | 163 | 163 |
| Missouri | 0 | 0 | 0 | 0 | 547 | 547 |
| Montana | 0 | 0 | 0 | 0 | 198 | 198 |
| Nebraska | 0 | 0 | 0 | 0 | 631 | 631 |
| Nevada | 0 | 0 | 0 | 0 | 184 | 184 |
| New Hampshire | 0 | 0 | 0 | 0 | 99 | 99 |
| New Jersey | 0 | 0 | 0 | 0 | 503 | 503 |
| New Mexico | 0 | 0 | 0 | 0 | 261 | 261 |
| New York | 0 | 0 | 0 | 0 | 1,112 | 1,112 |
| North Carolina | 0 | 0 | 0 | 0 | 804 | 804 |
| North Dakota | 0 | 0 | 0 | 0 | 1,157 | 1,157 |
| Ohio | 0 | 0 | 0 | 0 | 676 | 676 |
| Oklahoma | 0 | 0 | 0 | 0 | 1,370 | 1,370 |
| Oregon | 0 | 0 | 0 | 0 | 528 | 528 |
| Pennsylvania | 0 | 0 | 0 | 0 | 1,106 | 1,106 |
| Rhode Island | 0 | 0 | 0 | 0 | 27 | 27 |
| South Carolina | 0 | 0 | 0 | 0 | 276 | 276 |
| South Dakota | 0 | 0 | 0 | 0 | 604 | 604 |
| Tennessee | 0 | 0 | 0 | 0 | 1,090 | 1,090 |
| Texas | 0 | 0 | 0 | 0 | 4,190 | 4,190 |
| Utah | 0 | 0 | 0 | 0 | 443 | 443 |
| Vermont | 0 | 0 | 0 | 0 | 69 | 69 |
| Virginia | 0 | 0 | 0 | 0 | 570 | 570 |
| Washington | 0 | 0 | 0 | 0 | 1,174 | 1,174 |
| West Virginia | 0 | 0 | 0 | 0 | 106 | 106 |
| Wisconsin | 0 | 0 | 0 | 0 | 475 | 475 |
| Wyoming | 0 | 0 | 0 | 0 | 225 | 225 |
| Puerto Rico | 0 | 0 | 0 | 0 | 255 | 255 |
| Other  | 0 | 0 | 0 | 0 | 87 | 87 |
| **U.S. Total** | **0** | **0** | **0** | **0** | **48,414** | **48,414** |

Source: EPA estimates. PV calculated over 10 years using a 3% discount rate.

Finally, the total incremental cost of the final revisions for a jurisdiction can be obtained by summing the total incremental costs of private applicators, commercial applicators, and the governmental entities for the jurisdiction from the above tables. Summing across the jurisdictions will yield the national total incremental cost of the final revisions.