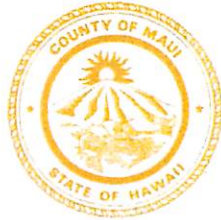


MICHAEL P. VICTORINO
Mayor

JEFFREY T. PEARSON, P.E.
Director

HELENE KAU
Deputy Director



RECEIVED

2019 SEP -9 PM 2:52

OFFICE OF THE MAYOR

DEPARTMENT OF WATER SUPPLY
COUNTY OF MAUI
200 SOUTH HIGH STREET
WAILUKU, MAUI, HAWAII 96793
www.mauiwater.org

September 9, 2019

RECEIVED
2019 SEP 10 PM 2:33
OFFICE OF THE
COUNTY CLERK

Honorable Michael P. Victorino,
Mayor, County of Maui
200 South High Street
Wailuku, Hawaii 96793

For transmittal to:

Honorable Kelly T. King, Chair
and Members of the Maui County Council
200 South High Street
Wailuku, Hawaii 96793

APPROVED FOR TRANSMITTAL


Acting Mayor 9/10/19
Date

Dear Chair King and Members:

SUBJECT: MONTHLY SOURCE AND GROUNDWATER USE REPORTS

Attached please find copies of the Department of Water Supply's Monthly Source Report and Groundwater Use Report for the month ending August 2019.

Thank you for your attention to this matter. Should you have any questions or require additional information, please feel free to contact me at Ext. 7834.

Sincerely,



JEFFREY T. PEARSON, P.E.
Director of Water Supply

Attachments

COUNTY COMMUNICATION NO. 19-382

"By Water All Things Find Life"

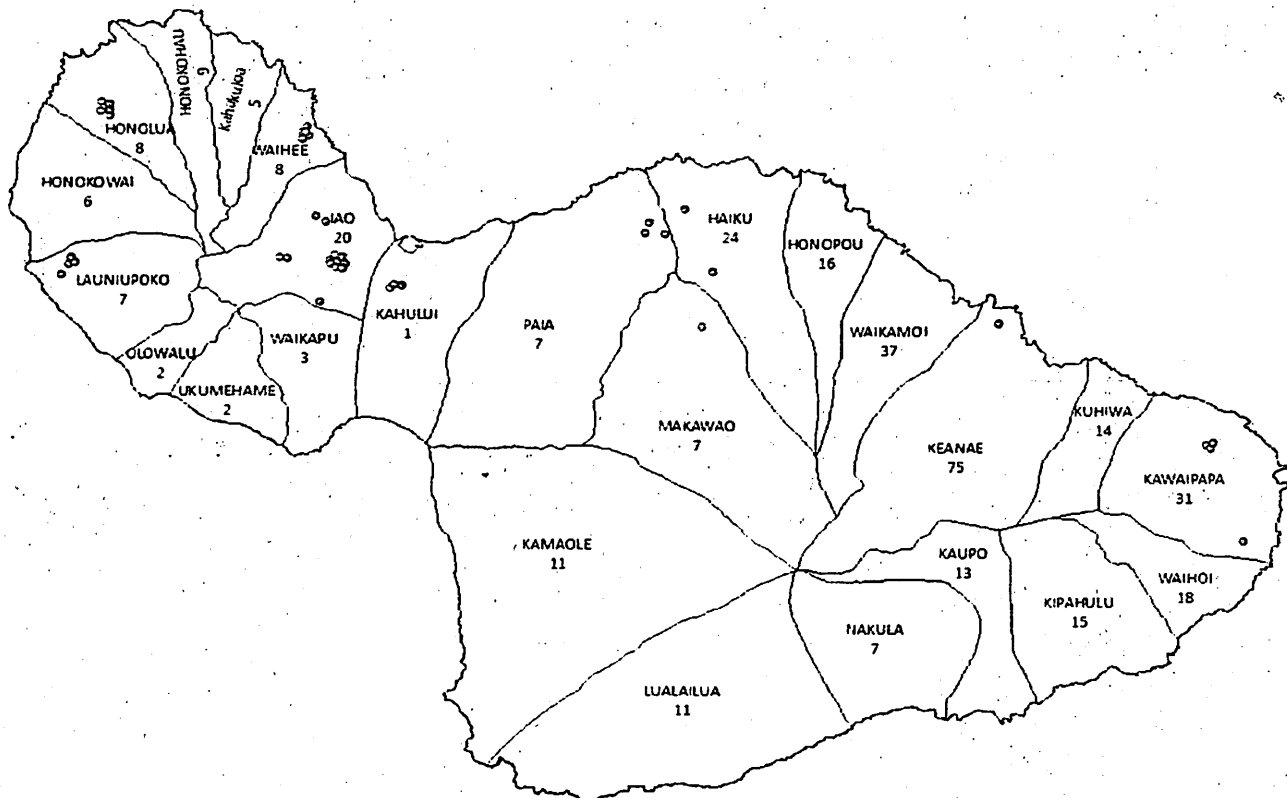
County of Maui
 Dept. of Water Supply
 Monthly Source Reports
 (Gals X 1000)

| WELL NAME | Sep-18 | Oct-18 | Nov-18 | Dec-18 | Jan-19 | Feb-19 | Mar-19 | Apr-19 | May-19 | Jun-19 | Jul-19 | Aug-19 | Current Year | Last 12 Months |
|-------------------|---------|---------|--------|---------|---------|--------|--------|---------|---------|---------|---------|---------|--------------|----------------|
| <i>Central</i> | | | | | | | | | | | | | | |
| Mokuhau 501 | 6,954 | 13,895 | 2,129 | 53 | 1,848 | 1,260 | 4,186 | 5,969 | 8,196 | 8,507 | 18,294 | 16,097 | 64,357 | 87,388 |
| Mokuhau 503 | 73,744 | 79,107 | 72,752 | 71,350 | 72,937 | 51,824 | 84,533 | 103,009 | 99,817 | 102,934 | 113,249 | 82,568 | 710,871 | 1,007,823 |
| Waihee 577 | 61,600 | 59,391 | 71,434 | 56,720 | 48,468 | 38,573 | 54,788 | 58,615 | 67,567 | 72,408 | 75,309 | 72,408 | 488,362 | 737,506 |
| Waihee 578 | 43,205 | 51,837 | 59,549 | 49,091 | 42,530 | 40,065 | 65,783 | 56,816 | 56,001 | 66,120 | 74,647 | 68,580 | 470,542 | 674,225 |
| Waihee 579 | 101,291 | 107,822 | 86,195 | 105,339 | 121,523 | 74,522 | 82,562 | 119,714 | 118,604 | 120,350 | 131,591 | 122,067 | 890,931 | 1,291,578 |
| Waiohu Hts 514 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Waiohu Hts 515 | 33,880 | 33,798 | 30,896 | 31,501 | 33,365 | 27,396 | 32,916 | 35,934 | 37,934 | 39,969 | 42,148 | 40,529 | 290,190 | 420,265 |
| Wailuku Shaft 33 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Iao | 11,840 | 7,151 | 21,686 | 48,968 | 39,308 | 39,383 | 37,290 | 38,485 | 37,486 | 48,710 | 56,661 | 52,578 | 349,902 | 439,547 |
| Waikapu | 32,130 | 36,210 | 34,088 | 33,777 | 34,936 | 20,597 | 0 | 0 | 0 | 0 | 0 | 0 | 55,535 | 191,739 |
| Wailuku 1 | 49,245 | 48,326 | 12,662 | 12,061 | 6,217 | 12,085 | 4,821 | 2,416 | 20,803 | 24,719 | 10,521 | 25,622 | 107,204 | 229,487 |
| Wailuku 2 | 65,062 | 65,108 | 65,153 | 65,200 | 65,246 | 65,288 | 65,334 | 65,379 | 65,426 | 65,471 | 65,518 | 65,564 | 523,226 | 783,748 |
| DAILY AVERAGE | 15,965 | 16,214 | 15,218 | 15,292 | 15,045 | 13,250 | 14,518 | 16,084 | 16,222 | 16,145 | 18,966 | 17,613 | 16,260 | 16,064 |
| Kopaniwai 511 | 21,492 | 22,320 | 21,600 | 22,238 | 22,320 | 19,525 | 22,320 | 21,600 | 22,311 | 21,600 | 22,259 | 22,315 | 174,249 | 261,898 |
| Iao Tunnel | 47,362 | 48,854 | 47,702 | 49,273 | 49,230 | 44,150 | 49,110 | 47,672 | 49,045 | 48,108 | 49,339 | 49,182 | 385,837 | 579,029 |
| DAILY AVERAGE | 2,295 | 2,296 | 2,310 | 2,307 | 2,308 | 2,274 | 2,304 | 2,309 | 2,302 | 2,324 | 2,310 | 2,306 | 18,437 | 2,304 |
| <i>North Maui</i> | | | | | | | | | | | | | | |
| N. Waihee #1 | 25,739 | 22,767 | 23,275 | 21,441 | 21,788 | 18,845 | 21,979 | 21,500 | 21,588 | 21,633 | 22,366 | 11,494 | 161,191 | 254,413 |
| N. Waihee #2 | 21,359 | 26,328 | 26,981 | 23,103 | 25,760 | 22,066 | 26,965 | 26,498 | 26,815 | 25,490 | 27,080 | 27,203 | 207,876 | 305,647 |
| Kanoa #1 | 24,949 | 17,911 | 17,401 | 14,356 | 14,356 | 10,294 | 14,943 | 16,436 | 17,118 | 15,886 | 21,818 | 21,979 | 132,829 | 200,660 |
| Kanoa #2 | 19,981 | 18,693 | 18,526 | 29,514 | 19,443 | 16,543 | 19,401 | 19,113 | 18,479 | 19,350 | 20,237 | 21,819 | 154,383 | 241,098 |
| Kupaa | 38,163 | 37,420 | 32,065 | 48,741 | 39,263 | 27,014 | 42,390 | 41,550 | 39,849 | 41,738 | 44,486 | 42,594 | 318,884 | 475,273 |
| DAILY AVERAGE | 4,340 | 3,972 | 3,942 | 4,205 | 3,891 | 3,384 | 4,054 | 4,170 | 3,985 | 4,137 | 4,387 | 4,035 | 32,052 | 4,047 |
| Maui Lani #5 | 6,115 | 5,920 | 5,734 | 5,964 | 5,969 | 8,526 | 3,476 | 6,013 | 5,756 | 5,436 | 5,932 | 6,223 | 47,330 | 71,063 |
| Maui Lani #6 | 11,209 | 11,326 | 11,009 | 11,376 | 11,368 | 16,704 | 16,337 | 11,181 | 11,306 | 11,011 | 11,240 | 11,992 | 101,138 | 146,059 |
| Maui Lani #7 | 16,411 | 16,698 | 16,197 | 16,753 | 16,828 | 11,848 | 14,388 | 16,011 | 16,331 | 16,123 | 16,521 | 17,067 | 125,115 | 191,173 |
| DAILY AVERAGE | 1,125 | 1,095 | 1,098 | 1,100 | 1,102 | 1,324 | 1,103 | 1,107 | 1,077 | 1,086 | 1,087 | 1,138 | 1,126 | 1,119 |
| <i>UpCountry</i> | | | | | | | | | | | | | | |
| Haiku | 8,801 | 8,131 | 7,743 | 7,728 | 8,412 | 7,916 | 7,592 | 8,043 | 8,727 | 9,753 | 11,113 | 9,554 | 71,108 | 103,511 |
| H' Poko #1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 210 | 227 | 227 |
| H' Poko #2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Kaupakalua | 14,631 | 15,359 | 16,366 | 22,750 | 15,909 | 14,007 | 15,404 | 15,193 | 17,034 | 19,509 | 20,480 | 18,370 | 135,886 | 204,993 |
| Pookola | 122 | 133 | 23 | 121 | 265 | 236 | 84 | 39 | 93 | 5,120 | 10,846 | 1,468 | 18,150 | 18,548 |
| DAILY AVERAGE | 785 | 762 | 804 | 887 | 793 | 791 | 745 | 776 | 834 | 1,146 | 1,369 | 955 | 927 | 897 |
| <i>Lehaina</i> | | | | | | | | | | | | | | |
| Kanaha 575 | 2,325 | 1,992 | 1,598 | 757 | 4,116 | 635 | 1,421 | 2,546 | 3,670 | 8,256 | 8,739 | 9,064 | 38,446 | 45,119 |
| Kanaha 576 | 1,263 | 1,253 | 16 | 75 | 266 | 239 | 539 | 685 | 1,178 | 201 | 263 | 1,499 | 4,870 | 7,476 |
| Waipuka 559 | 1,147 | 730 | 58 | 1,183 | 1,514 | 241 | 1,047 | 1,437 | 719 | 6,677 | 6,851 | 7,083 | 25,569 | 28,687 |
| Waipuka 560 | 2,338 | 2,378 | 2,011 | 166 | 3,280 | 587 | 2,632 | 1,569 | 4,364 | 2,632 | 3,730 | 3,909 | 22,273 | 29,166 |
| Napili A 569 | 6,152 | 3,305 | 1,159 | 420 | 1,127 | 438 | 1,274 | 1,150 | 1,010 | 1,945 | 2,714 | 822 | 10,481 | 21,517 |
| Napili B 570 | 0 | 0 | 0 | 0 | 0 | 0 | 245 | 379 | 595 | 573 | 19,065 | 25,645 | 46,501 | 46,501 |
| Napili C 571 | 27,483 | 40,136 | 37,515 | 40,443 | 40,053 | 37,522 | 41,518 | 40,854 | 42,341 | 39,988 | 31,309 | 10,834 | 284,419 | 429,996 |
| Honokahua A 572 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Honokahua B 573 | 7,869 | 9,102 | 3,636 | 6,062 | 6,763 | 1,575 | 6,901 | 12,006 | 11,829 | 14,384 | 4,668 | 17,289 | 75,415 | 102,083 |
| DAILY AVERAGE | 1,619 | 1,900 | 1,533 | 1,584 | 1,843 | 1,473 | 1,758 | 2,042 | 2,120 | 2,489 | 2,495 | 2,456 | 2,090 | 1,947 |
| <i>Hana</i> | | | | | | | | | | | | | | |
| Hamao 597 | 4,361 | 1,543 | 5,033 | 418 | 4,484 | 1,447 | 13 | 1,290 | 5,217 | 5,510 | 3,004 | 41 | 21,005 | 32,360 |
| Hamao #2 | 1,324 | 4,058 | 2 | 5,678 | 1,222 | 3,463 | 5,936 | 4,353 | 306 | 47 | 3,284 | 4,808 | 23,417 | 34,478 |
| Keanae #1 | 601 | 234 | 695 | 880 | 787 | 725 | 857 | 0 | 526 | 128 | 0 | 3,678 | 6,088 | 6,088 |
| Keanae #2 | 150 | 589 | 1 | 0 | 1 | 0 | 1 | 269 | 239 | 394 | 838 | 805 | 2,547 | 3,287 |
| Wakiu 550 B | 1,282 | 3,546 | 2,293 | 2,029 | 1,932 | 2,038 | 2,286 | 2,296 | 2,565 | 2,764 | 2,892 | 2,766 | 19,539 | 28,689 |
| Wakiu C | 2,518 | 607 | 1 | 2 | 318 | 4 | 35 | 35 | 35 | 0 | 453 | 2,543 | 3,424 | 6,552 |
| DAILY AVERAGE | 341 | 341 | 267 | 291 | 282 | 274 | 294 | 297 | 270 | 308 | 342 | 354 | 303 | 305 |
| <i>Molokai</i> | | | | | | | | | | | | | | |
| Kawela 551 | 1 | 7 | 8 | 6 | 9 | 4 | 5 | 13 | 7 | 27 | 6,082 | 12 | 6,159 | 6,180 |
| Kawela 552 | 3,932 | 4,437 | 4,724 | 4,424 | 4,301 | 3,404 | 4,347 | 4,483 | 4,675 | 4,024 | 1,336 | 4,540 | 31,110 | 48,827 |
| Uialapue 553 | 3,381 | 2,383 | 681 | 1,642 | 4,137 | 3,090 | 2,573 | 4,797 | 4,209 | 2,267 | 436 | 7,658 | 29,166 | 37,252 |
| Uialapue 554 | 1,529 | 2,543 | 4,480 | 3,899 | 1,196 | 1,243 | 3,628 | 2,386 | 3,402 | 6,136 | 7,258 | 29 | 25,277 | 37,729 |
| Kualapuu | 16,041 | 16,191 | 16,592 | 14,839 | 15,558 | 10,438 | 15,266 | 16,728 | 17,230 | 17,609 | 14,548 | 17,981 | 125,358 | 188,822 |
| Waikatae Tunnel | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| DAILY AVERAGE | 829 | 825 | 883 | 794 | 813 | 649 | 833 | 947 | 952 | 1,002 | 957 | 975 | 893 | 873 |

DWS Groundwater Use - Island of Maui

| Aquifer Sector | Aquifer System | Sustainable Yield (MGD) | Well Name | Well No. | Total Pumpage Last 12 Months | Pumpage MAV as of 8/31/19 | % Sustainable Yield | |
|----------------|-------------------------|-------------------------|--------------------|------------------|------------------------------|---------------------------|---------------------|--------|
| Wailuku | Waikapu | 3 | | | | | | |
| | Iao | 20 | | | | | | |
| | | | Mokuhau 1 | 5330-09 | 87,388,000 | 239,419 | 1.20% | |
| | | | Mokuhau 2 | 5330-10 | 0 | 0 | 0.00% | |
| | | | Mokuhau 3 | 5330-11 | 1,007,823,000 | 2,761,159 | 13.81% | |
| | | | Waihee 1 | 5431-02 | 737,506,000 | 2,020,564 | 10.10% | |
| | | | Waihee 2 | 5431-03 | 674,225,000 | 1,847,192 | 9.24% | |
| | | | Waihee 3 | 5431-04 | 1,291,578,000 | 3,538,570 | 17.69% | |
| | | | Waiehu Heights 1 | 5430-01 | 0 | 0 | 0.00% | |
| | | | Waiehu Heights 2 | 5430-02 | 420,265,000 | 1,151,411 | 5.76% | |
| | | | Kepaniwai | 5332-05 | 261,898,000 | 717,529 | 3.59% | |
| | | | Iao Tank Site Well | 5230-02 | 439,547,000 | 1,204,238 | 6.02% | |
| | | | Waikapu Well | 5131-01 | 191,739,000 | 525,312 | 2.63% | |
| | | | Wailuku 1 | 5230-04 | 229,497,000 | 628,759 | 3.14% | |
| | | | Wailuku 2 | 5230-05 | 783,748,000 | 2,147,255 | 10.74% | |
| | | Iao Subtotal | | | | 16,781,408 | 83.91% | |
| | | Waihee | 8 | | | | | |
| | | | | North Waihee # 1 | 5631-02 | 254,413,000 | 697,022 | 8.71% |
| | | | | North Waihee # 2 | 5631-03 | 305,647,000 | 837,389 | 10.47% |
| | | | | Kanoa 1 | 5731-02 | 200,660,000 | 549,753 | 6.87% |
| | | | Kanoa 2 | 5731-04 | 241,098,000 | 660,542 | 8.26% | |
| | | | Kupaa | 5731-03 | 475,273,000 | 1,302,118 | 16.28% | |
| | Waihee Subtotal | | | | 4,046,825 | 50.59% | | |
| | Kahakuloa | 5 | | | | | | |
| Central | Kahului | 1 | | | | | | |
| | | | Maui Lani #5 | 5229-04 | 71,063,000 | 194,693 | 19.47% | |
| | | | Maui Lani #6 | 5229-05 | 146,059,000 | 400,162 | 40.02% | |
| | | | Maui Lani #7 | 5229-06 | 191,173,000 | 523,762 | 52.38% | |
| | | Kahului Subtotal | | | 1,340,000 | 1,118,616 | 111.86% | |
| | | Kamaole | 11 | | | | | |
| | | Paia | 7 | | | | | |
| | | | | Hamakuapoko 1 | 5420-02 | 227,000 | 622 | 0.01% |
| | | | | Hamakuapoko 2 | 5320-01 | 0 | 0 | 0.00% |
| | | Paia Subtotal | | | | 622 | 0.01% | |
| | Makawao | 7 | | | | | | |
| | | | Pookela | 5118-02 | 18,548,000 | 50,816 | 0.73% | |
| | Makawao Subtotal | | | | 50,816 | 0.73% | | |
| Koolau | Haiku | 24 | | | | | | |
| | | | Kaupakalua | 5317-01 | 204,993,000 | 561,625 | 2.34% | |
| | | | Haiku | 5419-01 | 103,511,000 | 283,592 | 1.18% | |
| | | Haiku Subtotal | | | 0 | 845,216 | 3.52% | |
| | | Honopou | 16 | | | | | |
| | | Waikamoi | 37 | | | | | |
| | | Keanae | 75 | | | | | |
| | | | | Keanae 1 | 5108-01 | 6,088,000 | 16,679 | 0.02% |
| | | | | Keanae 2 | 5108-02 | 3,287,000 | 9,005 | 0.01% |
| | | Keanae Subtotal | | | | 25,685 | 0.03% | |
| Hana | Kuhiwa | 14 | | | | | | |
| | Kawaiipapa | 31 | | | | | | |
| | | | Hamoā 1 | 4300-02 | 32,360,000 | 88,658 | 0.29% | |
| | | | Hamoā 2 | 4300-03 | 34,478,000 | 94,460 | 0.30% | |

| Aquifer Sector | Aquifer System | Sustainable Yield (MGD) | Well Name | Well No. | Total Pumpage Last 12 Months | Pumpage MAV as of 8/31/19 | % Sustainable Yield |
|----------------|----------------------------|-------------------------|-------------|----------|------------------------------|---------------------------|---------------------|
| | | | Waiu B | 4600-03 | 28,689,000 | 78,600 | 0.25% |
| | | | Waiu C | 4600-04 | 6,552,000 | 17,951 | 0.06% |
| | Kawaipapa Subtotal | | | | | 279,668 | 0.90% |
| | Waihoi | 18 | | | | | |
| | Kipahulu | 15 | | | | | |
| Kahikinui | Kaupo | 13 | | | | | |
| | Nakula | 7 | | | | | |
| | Lualailua | 11 | | | | | |
| Lahaina | Honokohau | 9 | | | | | |
| | Honolua | 8 | | | | | |
| | | | Napili A | 5838-01 | 21,517,000 | 58,951 | 0.74% |
| | | | Napili B | 5838-02 | 46,501,000 | 127,400 | 1.59% |
| | | | Napili C | 5838-04 | 429,996,000 | 1,178,071 | 14.73% |
| | | | Honokahua A | 5838-03 | 0 | 0 | 0.00% |
| | | | Honokahua B | 5938-01 | 102,083,000 | 279,679 | 3.50% |
| | Honolua Subtotal | | | | | 1,644,101 | 20.55% |
| | Honokowai | 6 | | | | | |
| | Launiupoko | 7 | | | | | |
| | | | Kanaha 1 | 5339-03 | 45,119,000 | 123,614 | 1.77% |
| | | | Kanaha 2 | 5339-04 | 7,476,000 | 20,482 | 0.29% |
| | | | Waipuka 1 | 5339-01 | 28,687,000 | 78,595 | 1.12% |
| | | | Waipuka 2 | 5339-02 | 29,166,000 | 79,907 | 1.14% |
| | Launiupoko Subtotal | | | | | 302,597 | 4.32% |
| | Olowalu | 2 | | | | | |
| | Ukumehame | 2 | | | | | |



DWS Groundwater Use - Island of Molokai

| Aquifer Sector | Aquifer System | Sustainable Yield | Developable Yield | Well Name | Well No. | Total Pumpage Last 12 Months | Pumpage MAV as of 8/31/19 | Sustainable Yield % DWS | % DY MWWGR |
|-------------------|----------------|-------------------|-------------------|------------------|----------|------------------------------|---------------------------|-------------------------|------------|
| West | Kaluakoi | 2 | 2 | | | | | | |
| | Punakou | 2 | 2 | | | | | | |
| Central | Hoolehua | 2 | 2 | | | | | | |
| | Manawainui | 2 | 2 | | | | | | |
| | Kualapuu | 5 | 5 | Kualapuu | 0801-03 | 188,822,000 | 517,321 | 10.35% | 10.35% |
| | | | | Waikalae Tunnel | 1059-01 | 0 | 0 | 0.00% | 0.00% |
| Kualapuu Subtotal | | | | | | 517,321 | 10.35% | 10.35% | |
| Southeast | Kamiloloa | 3 | 3 | | | | | | |
| | Kawela | 5 | 5 | Kawela | 0457-01 | 54,807,000 | 150,156 | 3.00% | 3.00% |
| | | | | Kawela Subtotal | | | | 150,156 | 3.00% |
| | Ualapue | 8 | 8 | Ualapue | 0449-01 | 74,981,000 | 205,427 | 2.57% | 2.57% |
| | | | | Ualapue Subtotal | | | | 205,427 | 2.57% |
| | Waialua | 6 | 8 | | | | | | |
| Northeast | Kalaupapa | 2 | 0 | | | | | | |
| | Kahanui | 3 | 0 | | | | | | |
| | Waikolu | 5 | 4.5 | | | | | | |
| | Haupu | 2 | 0 | | | | | | |
| | Pelekunu | 9 | 0 | | | | | | |
| | Wailau | 15 | 0 | | | | | | |
| | Halawa | 8 | 0 | | | | | | |

