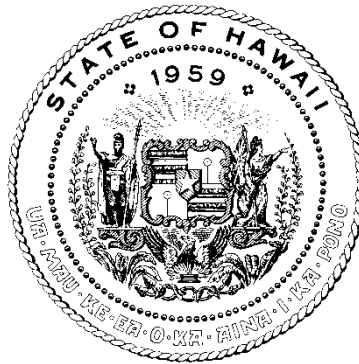


REPORT TO THE TWENTY-NINTH LEGISLATURE  
STATE OF HAWAII  
2017 REGULAR SESSION

HAWAII STATEWIDE TRAIL AND ACCESS SYSTEM  
“Na Ala Hele”



Prepared by:

THE STATE OF HAWAII  
DEPARTMENT OF LAND AND NATURAL RESOURCES  
DIVISION OF FORESTRY AND WILDLIFE  
Na Ala Hele Trail and Access Program

In response to Section 198D-9, Hawaii Revised Statutes

Honolulu, Hawaii  
November 2016

**REPORT TO THE TWENTY-NINTH LEGISLATURE  
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“Na Ala Hele”**

**PURPOSE**

Chapter 198D, Hawaii Revised Statutes (HRS), creates the Hawaii Trail and Access System, under the Department of Land and Natural Resources (DLNR). Pursuant to Section 198D-9, HRS, a report is required to highlight DLNR’s accomplishments in Fiscal Year (FY) 2016.

**INTRODUCTION**

Na Ala Hele (NAH), Hawaii Statewide Trail and Access Program was established in 1988. Section 198D-2, HRS, directs DLNR to plan, develop, and acquire land or rights for public use of land, construct, restore, and engage in coordination activities to implement a trail and access system in Hawaii. The Program is administered by DLNR, Division of Forestry and Wildlife (DOFAW). This report is cataloged into four sections:

1. Program Needs
2. Program Summary
3. Funding Sources
4. Ancient and Historic Trails

**1. PROGRAM NEEDS**

According to the 2015 Hawaii State Comprehensive Outdoor Recreation Plan (SCORP), there are two areas regarding public hiking identified for improvement, *(a) demand for more trails or access to mauka lands and (b) the need for trail facilities and maintenance*. DLNR supports these goals and is dedicated to meeting the growing demand for statewide outdoor recreation, management, and expansion. Currently, LNR 804 Forest and Outdoor Recreation supports fourteen full-time civil service positions that directly work for the statewide Na Ala Hele Trail and Access (NAH) Program.

Encouraging responsible public use of Hawaii’s natural resources is part of the DLNR’s mission. However, there is a justifiable concern in being able to address and support the rising number of trail issues, many of which are associated with a significant increase in people wishing to access trails and the rise of social media. Keeping up with this demand is challenging with the resources currently available. However, DLNR is committed to providing safe outdoor recreation opportunities to the public.

DOFAW has a current statewide inventory of 128 trail-and-road features spanning approximately 855 miles. Due to budget and staffing limitations, the level of maintenance on these features varies. Some high use areas, such as Manoa Falls Trail on Oahu, require frequent staff visits to address various issues associated with trail management. Trailhead parking within

small communities is a growing problem. On Hawaii Island, the Muliwai Trail provides a difficult hike over eighteen miles of scenic coastal areas through numerous streams and waterfalls, yet the Hawaii Island NAH Program is hard-pressed to keep up with regularly scheduled maintenance. Locating suitable Off-Highway-Vehicle (OHV) sites statewide that meet the needs of all OHV users—hikers, mountain bikers, equestrians, hunters, and dirt bikers—is a challenge. Additionally, vandalism of signs and other infrastructure requires resources. Working to protect and expand legal access to trails and public rights-of-way is another important part of the NAH Program that requires specific legal and land disposition expertise.

DLNR has an obligation to address all of the needs listed above. However, it is clear that the capacity to manage the program needs to be expanded. More positions and funding for operations would greatly improve the program’s ability to keep up with a growing demand.

## **2. PROGRAM SUMMARY**

The goal of the NAH Program is to provide public outdoor recreation opportunities for hiking, biking, hunting, camping, equestrian and off-highway vehicle use. In addition, the NAH Program is responsible for inventory and ownership documentation of specific historic trails and road alignments for public use.

Trails and unpaved access roads are critical resource management and recreational features that serve a multitude of access functions:

- Provide access for native flora, fauna, and watershed protection and management work;
- Monitor and remove invasive plant and animal species;
- Provide recreational opportunities, including hunting, hiking, biking, equestrian, and OHV activities;
- Control wildland fires;
- Protect Hawaiian cultural, ancient, and historic trails;
- Provide commercial trail opportunities to strengthen Hawaii’s economy; and
- Assist county search and rescue efforts.

NAH Core Activities:

- Implement statewide recreational trail and access road management and maintenance for public use;
- Coordinate ancient and historic trail activities with DLNR divisions or other entities to protect ancient and cultural trail features;
- Conduct and operate commercial trail tour management and monitoring; and
- Assess and implement environmental risk assessments to improve public safety of program trails and access roads by identifying specific hazards and mitigating dangers through warning signs pursuant to Act 82, Session Laws of Hawaii (SLH) 2003.

NAH Program statewide staff spends the majority of its time maintaining program trails and access roads to ensure public safety and to protect trail and historical values. The management specifications are explained in the Trail Design Guidelines of the 1991 NAH Program Plan. Trail and road management consists of the following activities:

- Grading - trail or access road surface improvements;
- Brushing - cutting back brush along trail and road corridors to specific dimensions;
- Tree removal - removing downed trees that hamper trail use;
- Water diversion - grading trails to avoid water damage;
- Boardwalk installation or repair - boardwalks may be installed in excessively boggy and sensitive environments;
- Re-construction or re-routing of access roads and trails;
- Herbicide application - herbicide application is used to specifically target noxious, non-native plant species that spread rapidly along trail and access road corridors;
- Equipment purchase, repair, or rental - vehicles, helicopter rental, chain saws, brush-cutters, herbicide, fuel, and other equipment used to maintain trail/road features; and
- Informational and warning sign assessments, installation, and monitoring - provide informational signs for public safety and public user information.

The Statewide Recreational Trail and Access Road Projects are listed in Appendix I.

### Highlights of Statewide NAH Outdoor Recreation Projects

Administration: A new website (hawaii Trails.org) was launched on the 2016 National Trails Day. The new site was designed to be the one-stop-shop for all of the forestry trails in Hawaii. The Hawaii Information Consortium (HIC) was contracted to redesign an entirely new website. Features include Google map interface, integrated GPS trail head location finder, mobile first responsive web design, trail details and information search engine, trail announcements/closures, and updated photos/content. Staff now has the ability to quickly update content information if needed and has hired local trail experts who have provided factual and attractive content about trail history, wildlife, and plants. The on-line public trail seeker now has a website supplied with all of the relevant hiking and safety information from a reliable source.

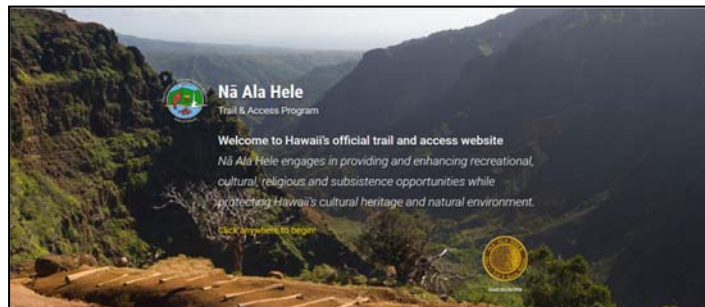


Figure 1: Na Ala Hele website landing page

Oahu: High use on Oahu trails challenges limited trail staff to maintain the popular network of wildland trails. Oahu's trails are well-used by thousands of enthusiasts engaged in outdoor activity, and despite urban interface issues at several trailheads, the program impact is overwhelmingly positive. Major work includes brushing, grubbing, tree/rock removal, herbicide application, trail head maintenance, sign installation/replacement, and rockwork. Other projects include trail bench reconstruction, armoring water diversions, installing educational signs, and out-planting native plants. The priority is to keep all trails under DLNR safe for all users. Oahu staff provided continued support of the Kahuku OHV Park management and met with Hawaii Motorsport Association to discuss future improvements.

Despite limited program staff, Oahu's program accomplished a number of trail projects with the assistance of military and civilian volunteers and AmeriCorps KUPU interns to successfully mitigate trail hazards and keep Oahu's trails open and safe for the public. Service projects conducted throughout the year ranged from clearing vegetation (including invasive weeds and countless large fallen trees) to mitigating rock fall and other potentially hazardous conditions. The program worked with the Hawaiian Ultra Running Team (HURT) to prep the Honolulu Mauka Trail System for their semiannual races. Oahu collaborated with 70 volunteers from the IUCN World Conservation Congress to clear invasive vegetation and out-plant native plants along Kanealole Trail in cooperation with the Hawaii Nature Center and Halau Ku Mana. Oahu contracted out much of the routine road and trail vegetation management allowing limited staff to manage vegetation on trails with high value vegetation resources and focus on larger trail projects.

Maui: The Kahakapao Recreational Area in the Makawao Forest Reserve continues to be heavily utilized by the public and is the most popular recreational NAH venue on Maui. Monthly inspections of the bicycle features and trail maintenance continue. Staff completed routine Standard Trail Maintenance Procedures (STMP), including brushing, grading, water diversion maintenance, tree and brush removal, sign maintenance, and herbicide application to the following trails: Haleakala Ridge, Ala Loa O Maui, Lahaina Pali, Plum, Polipoli, Tie, Redwood, Mamane, Upper Waiohuli, Boundary, Lower Waiohuli, Waiakoa Loop, Waihee Ridge, Waihou Spring, Waikamoi Ridge, Ohai Loop, Keanae Arboretum, and Hulopoe-Huawai-Fisherman's Trail. Maui staff has continued to provide maintenance support of the Maui Motocross Track, including landscaping maintenance, removing rubbish and debris, hauling materials, and equipment maintenance.

Hawaii: Trail Specialists on Hawaii Island are responsible for maintaining and expanding the Waieka OHV Park. OHV is also allowed on Mauna Kea (R1, R10), routine maintenance is continuous, including minor grading, signage, and trash. The Kipuka 21 project, which is a popular native forest area off of Saddle Road where visitors can experience native flora and fauna in a pristine setting is developing into a visitor attraction. A capital improvement project will include a parking lot, bathrooms, and interpretive signage. Negotiating with private landowners is key to allowing public access to trails that include Judd Trail and Hookena Trail, which are not program trails at this time, but meet the criteria. Routine trail maintenance and improvements include Ainapo Trail, Doctor's Pit Trail, Ala Kahakai, Puu Huluhulu, Puna Trail, Onomea Trail, Kaumana Trail, Waimanu Trail, and Pololu Trail. Brushing, tree removal, sign maintenance, helicopter support, and reconstruction make up the bulk of the work. Maintenance is also done on facilities, which include Ainapo Cabin, halfway shelters, and composting units. Due to Rapid Ohia Death affecting Hawaii Island, boot cleaning stations are being installed and outreach and education efforts have been initiated.

Kauai: The Kauai NAH Advisory Committee met several times in FY 2016, and the priority continues to be recruiting new volunteer members. Work to repair the Alakai Boardwalk has been extensive, including roughly 52 hours of helicopter time and approximately 1,900 DOFAW staff hours as well as 320 volunteer hours. The Environmental Assessment of the popular Nualolo Cliff Trail reroute has been completed and repairs of the 0.3 mile section that was damaged by a landslide will begin shortly.

### **3. FUNDING SOURCES**

Table 1: Snapshot of Na Ala Hele Funding & Revenue (Source)	FY 2016
Special Funds – State fuel tax and CTTA appropriation used mostly to cover payroll	\$1,098,414
Federal Recreational Trails Program appropriation used entirely for operations	\$1,300,000
LNR 804 General Fund – Appropriation used mostly to cover payroll (shared with wildlife)	\$1,327,417

#### Special Funds

DLNR currently has two different revenue sources, the Liquid Fuel Tax (LFT) and Commercial Trail Tour Activity (CTTA), as part or within the Special Land and Development Fund established pursuant to Section 171-19, HRS. Special funds have gone considerably down in recent years due to the loss of the Transient Accommodations Tax and a decrease in revenues collected from CTTA fees. Unfortunately, this created a shortfall of approximately \$175,000 in FY 2016 payroll and resulted in the diversion of monies from operations to cover full time positions.

#### Liquid Fuel Tax

0.3% of LFT collected under Chapter 243, HRS, is deposited each fiscal year into the Special Land and Development Fund for management, maintenance, and development of NAH trails and trail accesses established under Chapter 198D, HRS. DLNR is limited to \$250,000 revenue from the LFT.

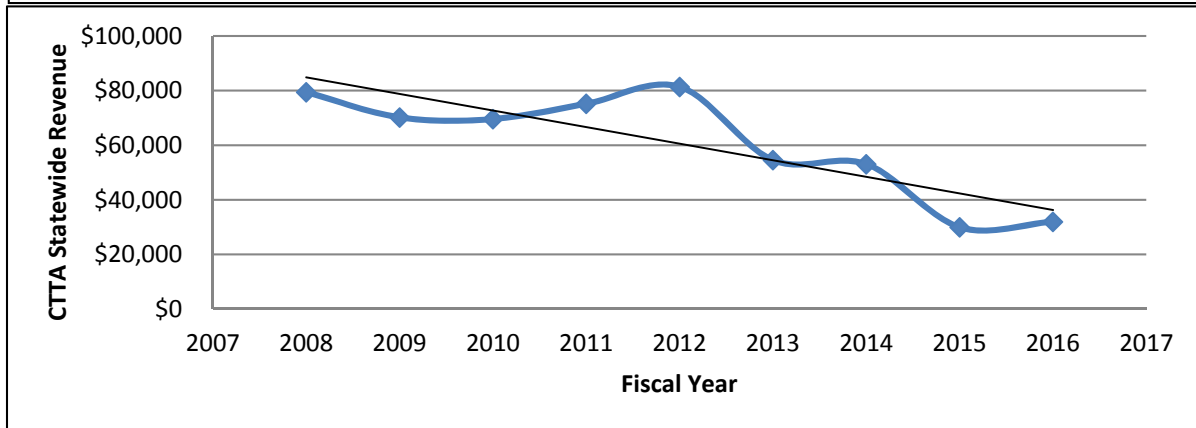
#### Commercial Trail Tour Activity

Act 106, SLH 1997, allows DLNR to use funding from fees for commercial use of NAH program trails and trail accesses, which is commonly referred to as the CTTA system. Commercial trail use is regulated by Chapter 13-130, Hawaii Administrative Rules. Revenues from CTTA fees go directly back into trail management and maintenance. In addition to the revenues CTTA contributes to the NAH Program, commercially led tours are intended to provide visitors with a safer and more enjoyable experience than if hiking alone. In addition, the CTTA system provides a venue for the tour industry to grow and therefore, potentially increase economic activities within the State.

The CTTA website reservation system ensures that commercial activities by multiple vendors do not exceed the daily capacities and/or number of groups established for CTTA trails and roads. The reservation system is managed by HIC who then records the trail reservation and date and calculates the fee. The NAH Program established an annual \$75 dollar subscription fee for the CTTA operators to HIC with an additional 10% fee on each reservation. While there is an additional 10% per transaction charge and annual

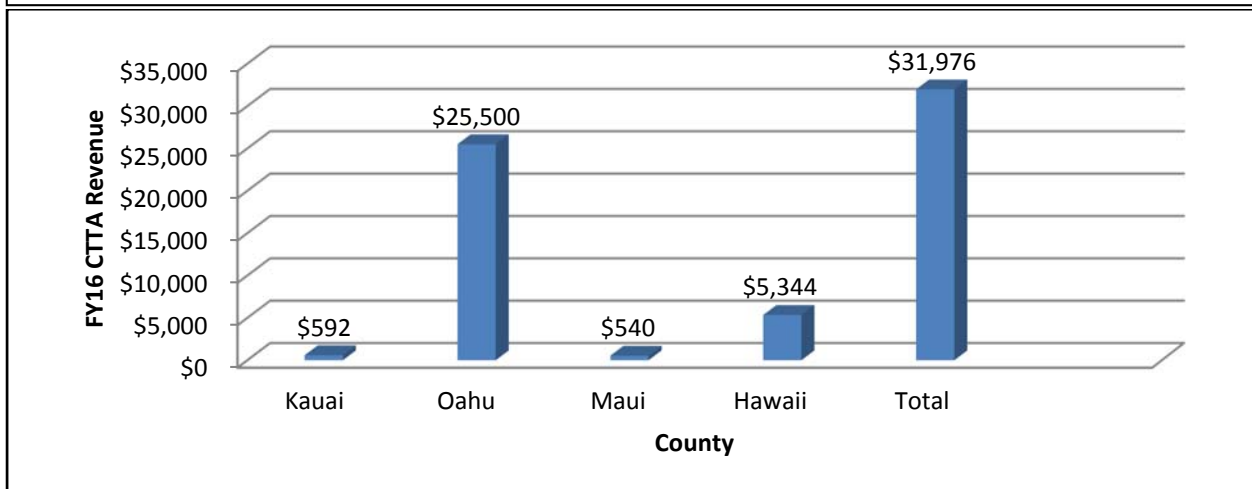
subscription fee for HIC management, the CTTA fees are assessed per unit of use and based upon the potential trail impact by type of recreational uses. DOFAW also submits 20% of this revenue to the Office of Hawaiian Affairs. For a complete list of current CTTA operators, visit: [hawaii Trails.org](http://hawaii Trails.org).

Figure 2: Change in statewide CTTA revenue between FY 2008 and FY 2016. Trendline shows an overall decrease in CTTA statewide revenue.



Analysis of NAH CTTA Program Revenue: Revenue accrued by CTTA permitting is reflected in Figures 2 and 3. The NAH Program has seen steady decreases in CTTA revenues since FY 2012. However, for FY 2016, five new permits were issued on Oahu and one on Hawaii Island, which could explain the recent increase in revenue. DLNR is unable to establish a correlation in the rise and fall of CTTA activity in relation to trends in Hawaii’s visitor industry. Out of the four permitted activities (hiking, 4-wheeling, biking, and equestrian), hiking and 4-wheeling were the only permitted activities that took place on trails in the past year.

Figure 3: FY 2016 CTTA Revenue by County



#### Federal Recreational Trails Program Allocation

Recreational Trails Program (RTP) is authorized under 23 USC 104(h) & 206. The Federal Highway Administration (FHWA) approves eligibility of RTP funds to DLNR, DOFAW through set criteria, which requires that states: develop a trail council consisting of motorized and non-motorized recreational users; have a State Comprehensive Outdoor Recreation Plan; and comply with the Assured Access to Funds requirement (a minimum of 30% of the funding must be used for motorized trail use, 30% for non-motorized trail use, and 40% for diversified or multiple trail use). DLNR's RTP obligation for FY 2016 was \$1,300,000.

#### LNR 804 Na Ala Hele General Funds

General funds of approximately \$1,327,417 were allocated in FY 2016. Due to reductions in general fund revenues over the past years, payroll did not meet the current staff costs. To make up the shortfall, the NAH Program used all of the federal funding and state special funds available to support basic payroll and operating expenses.

#### **4. ANCIENT AND HISTORIC TRAILS**

Section 198D-3, HRS, requires an inventory of trails and accesses be maintained and recorded under the NAH database. The NAH Program has one full time staff position to research and document ancient and historic trails, non-vehicular old government roads, and old cart roads, for inclusion in the inventory under the provisions of Section 264-1, HRS, as stated below:

*“(b) All trails, and other nonvehicular rights-of-way in the State declared to be public rights-of-ways by the Highways Act of 1892, or opened, laid out, or built by the government or otherwise created or vested as nonvehicular public rights-of-way at any time thereafter, or in the future, are declared to be public trails. A public trail is under the jurisdiction of the state board of land and natural resources unless it was created by or dedicated to a particular county, in which case it shall be under the jurisdiction of that county.”*

NAH provides information for locating and determining whether a historic road or ancient trail falls under the Highways Act of 1892. Abstracts of title help make this determination by historical research, maps, or other related media. Additionally, these types of legal determinations are processed through the Department of the Attorney General in identifying possible interest the State may claim in roads and/or trails situated within the boundaries of lands that are the subject of quiet title actions or Land Court applications. If public ownership is confirmed, access through roads or trails is documented and submitted before the Board of Land and Natural Resources for final approval. In FY 2016, the NAH Program completed 42 abstracts and 14 Quiet Title Action reviews.

#### Summary of Ancient and Historic Trail Projects:

##### Hawaii

The Abstractor assisted Hawaii Island Staff to respond to concerns about ancient trails for future development along the Waikoloa coast. Working with the National Parks Service, County of



Hawaii Planning Office, and State Historic Preservation Division, comments were submitted recommending preservation of the ancient trails in the proposed project.

#### Maui

The Abstractor assisted Maui staff during events for the opening of the Kahakapao Recreational area as well as providing technical assistance regarding issues of land ownership of land adjoining forest reserves.

#### Kauai

The Abstractor conducted extensive research to determine the State's interest in various alignments believed by the public to belong to the government and attended several NAH Advisory Council meetings to provide outreach and information regarding these alignments.

#### Oahu

The Abstractor assisted Oahu staff on researching land ownership and other trail issues regarding the State's interest in the Old Government Road at Maunawili.



## Appendix I

### Hawaii Recreational Trails Program NRT1 (19) FY 2017 Projected Trail-Road Budget

#### Kauai Branch Projects (Congressional District 2)

Project Number	Project Description	FMIS Code/ State Code	Distance	Budget \$\$
#001	<b>Alakai Swamp Trail:</b> Brushing, tree-rock removal, water diversion, boardwalk-sign maintenance, grubbing, helicopter support.	Non-motorized Y053:AC558	3.5 mi.	14,938
#002	<b>Awaawapuhi Trail:</b> Brushing, tree-rock removal, water diversion, sign maintenance, helicopter support, herbicide application, trailhead maintenance, grubbing.	Non-motorized Y053:AC558	3.1mi.	1,470
#003	<b>Iliau Nature Loop:</b> Brushing, tree-rock removal, water diversion-sign maintenance, trail shelter repair.	Non-motorized Y053:AC558	0.3 mi.	1,470
#004	<b>Kawaikoi Stream Trail:</b> Brushing, tree-rock removal, water diversion, boardwalk maintenance, herbicide application, trail shelter maintenance.	Non-motorized Y053:AC558	1.8 mi.	1,470
#005	<b>Kohua Ridge Trail:</b> Brushing, tree-rock removal, water diversion, sign maintenance.	Non-motorized Y053:AC558	2.5 mi.	1,470
#006	<b>Mohihi-Waialae Trail:</b> Brushing, tree-rock removal, water diversion-sign maintenance, herbicide application.	Non-motorized Y053:AC558	2.5 mi.	1,470
#007	<b>Nounou East Trail:</b> Brushing, tree-rock removal, water diversion, sign-fence maintenance.	Non-motorized Y053:AC558	2.0 mi.	1,473
#008	<b>Nounou West Trail:</b> Brushing, tree-rock removal, water diversion, sign-gate-fence maintenance, grubbing.	Non-motorized Y053:AC558	2.0 mi.	1,473
#009	<b>Nualolo Cliff Trail:</b> Brushing, tree-rock removal, water diversion, sign installation and maintenance, grubbing, helicopter support, herbicide application, trail shelter maintenance.	Non-motorized Y053:AC558	2.1mi.	14,938
#010	<b>Okolehau Trail:</b> Brushing, tree-rock removal, sign maintenance, herbicide application, water diversion, grubbing.	Non-motorized Y053:AC558	2.3 mi.	1,470
#011	<b>Pihea Trail:</b> Brushing, tree-rock removal, water diversion, boardwalk-sign maintenance, helicopter support, trail shelter maintenance.	Non-motorized Y053:AC558	3.8 mi.	14,938
#012	<b>Poomau Canyon Vista Trail:</b> Brushing, tree-rock removal, water diversion, sign maintenance.	Non-motorized Y053:AC558	0.5 mi	1,470
<b>Total</b>		<b>Non-motorized Y053:AC558</b>	<b>26.4 mi.</b>	<b>58,048</b>
#013	<b>Koae Canyon Trail:</b> Brushing, grubbing, tree-rock removal, water diversion, helicopter support, herbicide application, trail shelter maintenance.	Diversified- nonmotorized Y054:AC586	3.0 mi.	3,436
#014	<b>Kuamoo Trail:</b> Grubbing, brushing, tree-rock removal, water diversion, sign maintenance, herbicide application	Diversified- nonmotorized Y054:AC586	2.0 mi.	3,436
#015	<b>Kukui Trail:</b> Grubbing, brushing, tree-rock removal, water diversion, sign maintenance, trail shelter maintenance, herbicide application.	Diversified- nonmotorized Y054:AC586	2.5 mi.	33,311



#016	<b>Kuilau Trail:</b> Grading, brushing, tree-rock removal, water diversion, hardscaping, sign maintenance, trail shelter maintenance, herbicide application, gate maintenance.	Diversified-nonmotorized Y054:AC586	2.1 mi.	3,436
#017	<b>Moelepe Trail:</b> Grubbing, grading, brushing, tree-rock removal, water diversion, sign-gate maintenance, and herbicide application.	Diversified-nonmotorized Y054:AC586	2.5 mi	3,436
#018	<b>Nualolo Trail:</b> Brushing, tree-rock removal, water diversion, sign maintenance, helicopter support, herbicide application, trailhead maintenance.	Diversified-nonmotorized Y054:AC586	3.8 mi.	3,436
#019	<b>Puuki-Waialae Trail:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application.	Diversified-nonmotorized Y054:AC586	11.0 mi.	3,436
#020	<b>Waimea Canyon Trail:</b> Brushing, tree-rock removal, sign maintenance.	Diversified-nonmotorized Y054:AC586	2.5 mi.	3,436
	<b>Total</b>	<b>Diversified-nonmotorized Y054:AC586</b>	<b>29.4 mi.</b>	<b>57,361</b>
#021	<b>Contour Road:</b> Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	6.3 mi.	1,587
#022	<b>Haelele Road:</b> Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	6.5 mi.	1,587
#023	<b>Kaaweki Ridge Access Road:</b> Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	4.3 mi.	1,587
#024	<b>Kauhao Ridge Access Road:</b> Grading, brushing, water diversion-sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	5.0 mi.	1,587
#025	<b>Lapa Ridge Road:</b> Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	3.5 mi.	1,587
#026	<b>Makaha Arboretum Access Road:</b> Grading, brushing, tree removal, water diversion maintenance, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	3.8 mi.	1,512
#027	<b>Milolii Ridge Access Road:</b> Grading, brushing, tree removal, water diversion maintenance, sign maintenance, herbicide application, gate maintenance	Diversified-motor/nonmotor Y055:AC559	6.1 mi.	1,512
#028	<b>Mohihi-Camp 10 Access Road:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	1.3 mi.	1,512
#029	<b>Papaalai Road:</b> Grading, brushing, tree removal, water diversion-sign maintenance herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC 559	3.0 mi.	1,512
#030	<b>Pine Forest Access Road:</b> Grading, brushing, tree removal, water diversion-sign maintenance herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC 559	5.3 mi.	1,513



#031	<b>Polihale Ridge Access Road:</b> Grading, brushing, tree removal, water diversion-sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	3.0 mi.	1,513
#032	<b>Powerline Trail:</b> Monitor, maintenance, clearing of trees, brush, and grubbing.	Diversified-motor/nonmotor Y055:AC559	11.2 mi.	1,512
#033	<b>Wailua Forest Management Road:</b> Grading, brushing, tree-rock removal, water diversion-sign maintenance, herbicide application.	Diversified-motor/nonmotor Y055:AC559	31.3 mi.	1,512
<b>Total</b>		<b>Diversified-motor/nonmotor Y055:AC559</b>	<b>90.6 mi</b>	<b>20,037</b>
<b>Total</b>		<b>Diversified YO54/55/57: AC586/559/557</b>	<b>120.0 mi.</b>	<b>77,398</b>
<b>DOFAW working with Kauai County for a County OHV (\$48,048 from Kauai motorized YO56 to Oahu YO56 motorized; Kauai balance is \$10,000 for motorized)</b>		<b>Total Motorized YO56:AC587</b>	<b>0</b>	<b>58,048 -48,048 =10,000</b>

### Hawaii Branch (Congressional District 2)

	<b>Project Description</b>	<b>FMIS Code/State Code</b>	<b>Distance</b>	<b>Budget \$\$</b>
#034	<b>Ainapo Trail:</b> Brushing, tree branch removal, sign installation and maintenance, helicopter support, rebuild ahus.	Non-motorized Y053:AC558	10.2 mi.	22,407
#035	<b>Ala Kahakai Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance, tree branch removal, helicopter support.	Non-motorized Y053:AC558	7.7 mi.	3,021
#036	<b>Doctor's Pit Trail:</b> Grading, re-construction brushing, water diversion, sign installation and maintenance, tree branch removal.	Non-motorized Y053:AC558	0.4 mi.	3,022
#037	<b>Kaulana Manu Native Bird &amp; Plant Sanctuary:</b> Brushing, tree removal, water diversion, hardscaping, sign installation and maintenance, reconstruction & re-route, rubbish disposal.	Non-motorized Y053:AC558	0.7 mi.	3,022
#038	<b>Kaumana Trail:</b> Brushing, tree branch removal, sign installation and maintenance, rebuild ahus.	Non-motorized Y053:AC558	3.0 mi.	3,022
#039	<b>Keauhou-Napoopoo Trail:</b> sign installation and maintenance, brushing, herbicide (currently closed to public access, pending negotiations).	Non-motorized Y053:AC558	4.0 mi.	3,021
#040	<b>Onomea Trails:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance	Non-motorized Y053:AC558	1.2 mi.	3,021
#041	<b>Puakea Bay Trail:</b> Brushing, re-construction, water diversion, sign installation, helicopter support.	Non-motorized Y053:AC558	0.5 mi.	0
#042	<b>Puna Trail:</b> Grading, re-construction brushing, water diversion, sign installation and maintenance, tree branch removal, herbicide.	Non-motorized Y053:AC558	2.5 mi.	22,407
#043	<b>Puu Huluhulu Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance.	Non-motorized Y053:AC558	0.6 mi.	3,021



		<b>Total</b>	<b>Non-Motorized YO53:AC558</b>	<b>30.8 mi.</b>	<b>65,964</b>
#044	<b>Humuula Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance, tree branch removal, herbicide.		Diversified nonmotorized Y054:AC586	10.5 mi.	1,589
#045	<b>Muliwai Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance, herbicide, helicopter support.		Diversified nonmotorized Y054:AC586	18.0 mi.	52,282
#046	<b>Pololu Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance, herbicide.		Diversified nonmotorized Y054:AC586	1.0 mi.	5,323
#047	<b>Puu Oo Horse Trail:</b> Grading, re-construction, brushing, sign installation and maintenance, rebuild ahus, helicopter support.		Diversified nonmotorized Y054:AC586	7.4 mi.	1,588
#048	<b>Upper Waiakea Bike Park:</b> Bulldozing, brushing, tree removal, water diversion, hardscaping, sign installation & maintenance, reconstruction & re-route, rubbish disposal.		Diversified nonmotorized Y054:AC586	2,000 acres 56 mi.	14,938
		<b>Total</b>	<b>Diversified nonmotorized Y054:AC586</b>	<b>92.9 mi.</b>	<b>75,719</b>
#049	<b>Ainapo Access Road</b> Grading, water diversion, sign installation and maintenance.		Diversified motor/nonmotor Y055:AC559	16.0 mi.	1,588
#050	<b>Mauna Kea Access Road:</b> Grading, water diversion, sign installation and maintenance.		Diversified motor/nonmotor Y055:AC559	32.0 mi.	1,588
#051	<b>Mauna Loa Observatory Access Road:</b> Grading, water diversion, brushing, sign installation and maintenance		Diversified motor/nonmotor Y055:AC559	35.0 mi.	1,588
#052	<b>Puu Laau Access Road:</b> Grading, water diversion, sign installation and maintenance.		Diversified motor/nonmotor Y055:AC559	8.4 mi.	7,469
		<b>Total</b>	<b>Diversified nonmotorized motorized Y055:AC559</b>	<b>91.4</b>	<b>12,233</b>
		<b>Total</b>	<b>Diversified YO54/55: AC586/559 Totals</b>	<b>184.3 mi.</b>	<b>87,952</b>
#053	<b>Mauna Kea ATV Dirt Bike Riding Area:</b> Bulldozing, brushing, tree removal, water diversion, sign installation & maintenance, rubbish disposal. <i>(\$13,259 from Maui motor)</i>		Motorized Y056:AC587	56 miles	46,241 13,259
#054	<b>Upper Waiakea ATV/Dirtbike Park:</b> Bulldozing, brushing, tree removal, water diversion, hardscaping, sign installation & maintenance, reconstruction & re-route, rubbish disposal. <i>(\$13,259 from Maui Motor)</i>		Motorized Y056:AC587	2,000 acres 56 mi.	46,241 13,259
			<b>Motorized Y056:AC587</b>	<b>112 mi. 2,000 ac.</b>	<b>119,000</b>
		<b>Total</b>	<b>Nonmotorized YO53:AC558</b>	<b>30.8 mi.</b>	<b>76,518</b>



	<b>Diversified Y054/55:AC586/559 Totals</b>	<b>184.3 mi.</b>	<b>102,025</b>
<i>(Add \$26,518 from Maui motor to HI motor = \$140,767)</i>	<b>Motorized Y056:AC587 Totals</b>	<b>112 mi. 2,000 ac.</b>	<b>92,482 +26,518 =119,000</b>

**OAHU BRANCH  
(CONGRESSIONAL DISTRICTS 1& 2)**

	<b>Oahu Trail and Access Road Project Description</b>	<b>FMIS Code/State Code</b>	<b>Distance</b>	<b>Budget \$\$</b>
#055	<b>Kulana’ahane Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter operations and step installation.	Non-motorized Y053:AC558	2.3 mi.	0
#056	<b>Honolulu-Mauka (17 Trails System):</b> Grading, brushing, tree removal, water diversion, hardscaping, boardwalk maintenance and installation, sign maintenance, herbicide application.	Non-motorized Y053:AC558	15.5 mi.	1,191
#057	<b>Manoa Falls Trail (High Use):</b> Grading, brushing, tree removal, water diversion, hardscaping, boardwalk maintenance, sign maintenance, herbicide application, rockwork, step rebuilding, kiosk and interpretive sign, and trailhead infrastructure development (information and safety displays).	Non-motorized Y053:AC558	0.8 mi.	52,282
#058	<b>Maunawili Ditch Trails–Waimanalo Road:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application, helicopter support.	Non-motorized Y053:AC558	12.75 mi.	1,192
#059	<b>Maunawili Falls Trail: State side only!</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application, helicopter support, trail hardscaping, planning.	Non-motorized Y053:AC558	1.25 mi.	7,469
	<b>Total</b>	<b>Non-motorized Y053:AC558</b>	<b>32.6 mi.</b>	<b>62,135</b>
#060	<b>Hawaiioloa Ridge Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, step installation.	Diversified- nonmotorized Y054:AC586	3.5 mi.	5,458
#061	<b>Kamananui Valley Road:</b> Grading, brushing, tree removal, hardscaping, water diversion, sign maintenance, herbicide.	Diversified- nonmotorized Y054:AC586	4.0 mi.	5,455
#062	<b>Kuliouou Valley and Ridge Trails:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, step installation.	Diversified- nonmotorized Y054:AC586	3.0 mi.	5,455
#063	<b>Manana Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application helicopter support.	Diversified- nonmotorized Y054:AC586	6.0 mi.	5,455
#064	<b>Sand Island Bike Park: The user group has lost their permit. NAH will no longer be funding this project.</b>	Diversified- nonmotorized Y054:AC586	30 acres	7,469



#065	<b>Waimano Trails:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, herbicide.	Diversified-nonmotorized Y054:AC586	7.2 mi.	5,455
#066	<b>Wiliwilinui Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, step installation, herbicide.	Diversified-nonmotorized Y054:AC586	3.0 mi.	5,455
		<b>Diversified-nonmotorized Y054:AC586</b>	<b>26.7 mi. 30 acres</b>	<b>40,203</b>
#067	<b>Poamoho Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, herbicide.	Non-motorized Y053:AC558	3.0 mi.	1,191
#068	<b>Schofield-Waikane Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support. ( <i>pending access agreement</i> )	Non-motorized Y053:AC558	3.5 mi.	0
<b>Total</b>		<b>Non-motorized Y053:AC558 s</b>	<b>6.5 mi</b>	<b>1,191</b>
<b>Total</b>		<b>Non-motorized Y053:AC558</b>	<b>39.1 mi</b>	<b>63,326</b>
#069	<b>Hauula Ridge-Maakua Ridge-Papali Trail System:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support.	Diversified-nonmotorized Y054:AC586	5.0 mi.	5,455
#070	<b>Kaunala Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance.	Diversified-nonmotorized Y054:AC586	2.5 mi.	5,455
#071	<b>Kealia Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified-nonmotorized Y054:AC586	2.3 mi.	5,455
#072	<b>Kuaokala Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified-nonmotorized Y054:AC586	2.5 mi.	5,458
<b>Total</b>		<b>Diversified-nonmotorized Y054:AC586</b>	<b>12.3 mi.</b>	<b>21,824</b>
#073	<b>Kealia Access Road:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified-nonmotorized motorized Y055:AC559	1.5 mi.	7,469
#074	<b>Kuaokala &amp; Mokuleia Firebreak Roads:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified-nonmotorized motorized Y055:AC559	10.8 mi.	7,469
#075	<b>Poamoho Hele Loa Access Road:</b> Grading, brushing, tree removal, hardscaping, water diversion, sign maintenance, herbicide.	Diversified-nonmotorized motorized Y055:AC559	2.5 mi.	7,469
<b>Total</b>		<b>Diversified-nonmotorized motorized Y055:AC559</b>	<b>13.3 mi.</b>	<b>22,407</b>
<b>Total</b>		<b>Diversified Y054/55:AC586/ 559</b>	<b>25.6 mi</b>	<b>SUM: 84,434</b>



	Oahu Trail and Access Road Project Description	FMIS Code/State Code	Distance	Budget \$\$
#076	<b>Kahuku OHV Park (Hawaii Motorsports Association)</b> Access road grading, track grading and re-construction, trail grading and re-construction, rubbish disposal, fencing materials, water supply management, equipment rental, sanitation, fuel, signage, pavilion maintenance.	<b>Motorized YO56:AC587</b>	500 acres 30.5 mi.	63,326 +70,791 =134,117
		<b>(Oahu Totals)</b>		
<b>Total</b>		<b>Non-motorized YO53:AC558</b>	<b>39.1 mi.</b>	<b>63,326</b>
<b>Total</b>		<b>Diversified YO54/55/57: AC586/559/557</b>	<b>52.3 mi. 30 acres</b>	<b>84,434</b>
<i>(Add \$70,791 from Kauai motorized YO56 to Oahu motorized YO56)</i>		<b>Motorized YO56:AC587 Total</b>	<b>30.5 mi</b>	<b>63,326 +70,791 =134,117</b>

**MAUI BRANCH (Includes Molokai and Lanai)  
(Congressional District 2)**

	Project Description	FMIS Code/State Code	Distance	Budget \$\$
#077	<b>Haleakala Ridge Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized YO53:AC558	1.6 mi.	7,469
#078	<b>Hoapili Trail:</b> Brushing, tree removal, sign installation and maintenance.	Non-motorized YO53:AC558	5.5 mi.	0
#079	<b>Ke Ala Loa O Maui:</b> Brushing, tree removal, sign installation and maintenance.	Non-motorized YO53:AC558	3.0 mi.	7,469
#080	<b>Keanae Arboretum:</b> Brushing, herbicide application, tree removal, sign maintenance.	Non-motorized YO53:AC558	0.6 mi.	1,362
#081	<b>Lahaina Pali Trail:</b> Grading, water diversion, sign installation, herbicide and weeding.	Non-motorized YO53:AC558	5.5 mi.	1,362
#082	<b>Mokuleia Stairs Beach Access:</b> Brushing, water diversion, install boardwalk, sign installation and maintenance.	Non-motorized YO53:AC558	250 ft.	1,362
#083	<b>Ohai Loop Trail:</b> Brushing, grading, water diversion, sign installation and maintenance.	Non-motorized YO53:AC558	1.2 mi.	1,366
#084	<b>Plum Trail:</b> Grading, brushing, water diversion, tree removal, sign installation and maintenance.	Non-motorized YO53:AC558	1.7 mi.	11,203
#085	<b>Polipoli Trail:</b> Grading, brushing, water diversion, sign installation and maintenance.	Non-motorized YO53:AC558	0.6 mi.	11,203
#086	<b>Tie Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized YO53:AC558	0.5 mi.	11,203
#087	<b>Waihee Ridge Trail:</b> Grading, brushing, water diversion, boardwalk installation, herbicide application, sign maintenance.	Non-motorized YO53:AC558	2.5 mi.	11,203
#088	<b>Waihou Spring Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized YO53:AC558	1.0 mi.	7,469





#089	<b>Waikamoi Ridge Trail:</b> Brushing, hardscaping, boardwalk installation, tree removal, herbicide application, sign maintenance.	Non-motorized Y053:AC558	0.8 mi.	1,362
#090	<b>Waiohuli Lower Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized Y053:AC558	1.4 mi.	1,362
<b>Total</b>		<b>Non-motorized Y053:AC558</b>	<b>25.9 mi.</b>	<b>75,398</b>
#091	<b>Boundary Trail:</b> Grading, brushing, water diversion, tree removal herbicide, sign maintenance.	Diversified- nonmotorized Y054:AC586	4.4 mi.	4,047
#092	<b>Kahakapao Loop Trail and Recreation Area:</b> Brushing, sign installation and maintenance, water diversion, grading, tree removal.	Diversified- nonmotorized Y054:AC586	5.7 mi.	37,345
#093	<b>Mamane Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	1.8 mi.	4,047
#094	<b>Redwood Trail:</b> Grading, brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	1.7 mi.	4,047
#095	<b>Skyline Trail:</b> Brushing, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	6.8 mi.	0
#096	<b>Waiakoa Loop Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	3.0 mi.	7,469
#097	<b>Waiakoa Upper Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	7.0 mi.	4,050
#098	<b>Waiohuli Upper Trail:</b> Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified nonmotorized Y054:AC586	4.0 mi.	4,047
<b>Total</b>		<b>Diversified nonmotorized Y054:AC586</b>	<b>34.4 mi.</b>	<b>65,054</b>
#099	<b>Waipoli Access Road:</b> Grading, brushing, water diversion, sign maintenance.	<b>Diversified motorized/ nonmotorized Y055:AC559</b>	<b>8.1 mi.</b>	<b>29,876</b>
<b>Total</b>		<b>Diversified Y054/55/57: AC586/557/559</b>	<b>39.5 mi.</b>	<b>Sum: 94,930</b>
#100	<b>Maui Moto X Track:</b> maintenance of facility, track improvements, install new starting gate, haul materials and repair equipment. <b>Transfer \$26,518 YO56 from Maui to Hawaii YO56 motorized</b>	<b>Motorized Total YO56:AC587</b>	<b>17 acres</b>	50,000 -26,518 =23,482
<b>Molokai Trail and Access Road Project Description</b>		<b>FMIS Code/State Code</b>	<b>Distance</b>	<b>Budget \$\$</b>
#101	<b>Kaulahuki Trail:</b> Grading, brushing, water diversion, tree removal, sign maintenance.	Non-motorized Y053:AC558	2.1 mi	373.44435



		<b>Total</b>	<b>Non-motorized YO53:AC558</b>	<b>2.1 mi.</b>	<b>373.44435</b>
#102	<b>Kahanui Access Roads:</b> Brushing, tree removal, water diversion, sign maintenance.		Diversified-motor/nonmotor YO55:AC559	3.3 mi.	0
#103	<b>Maunahui-Makakupaia Access Road:</b> Grading, brushing, water diversion, tree removal, sign maintenance.		Diversified-motor/nonmotor YO55:AC559	9.8 mi	3,734
		<b>Total</b>	<b>Diversified YO55:AC559</b>	<b>13.1 mi.</b>	<b>3,734</b>
	<b>Lanai Trail and Access Road Project Description</b>		<b>FMIS Code/State Code</b>	<b>Distance</b>	<b>Budget \$\$</b>
#104	<b>Hulopoe-Huawai Fisherman Trail:</b> Grading, brushing, water diversion, sign maintenance.		Non-motorized YO53:AC558	2.0 mi.	373.44435
#105	<b>Kanepuu Dryland Forest Trail:</b> Grading, brushing, tree removal, sign maintenance.		Non-motorized YO53:AC558	0.5 mi.	373.44435
		<b>Total</b>	<b>Non-motorized YO53:AC558</b>	<b>2.5 mi.</b>	<b>747</b>
#106	<b>#3 Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	1.06 mi.	186.72355
#107	<b>#5 Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	1.78 mi.	186.72355
#108	<b>#7 Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	1.6 mi.	186.72355
#109	<b>#57 Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	3.42 mi.	186.72355
#110	<b>Awalua Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	3.66 mi.	186.72355
#111	<b>Federation Camp Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	1.24 mi.	186.72355
#112	<b>Guard Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	38.2 mi.	186.72355
#113	<b>Honopu Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	3.22 mi.	186.72355
#114	<b>Kaena Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	3.75 mi.	186.72355
#115	<b>Kahua Access Road:</b> Grading		Diversified-motor/nonmotor YO55:AC559	5.41 mi.	186.72355



#116	<b>Kahue Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC 559	4.15 mi.	186.72355
#117	<b>Keone Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC559	1.74 mi.	186.72355
#118	<b>Kuamoo Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC559	.94 mi.	186.72355
#119	<b>Lapaiki Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC559	3.8 mi.	186.72355
#120	<b>Mahana Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC559	1.52 mi.	186.72355
#121	<b>Nanahoa Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC559	1.05 mi.	186.72355
#122	<b>Naupaka Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC559	.97 mi.	186.72355
#123	<b>Paliamono Access Road: Grading</b>	Diversified-motor/nonmotor YO55:AC559	.41 mi.	186.72355
		<b>Total</b>	<b>Diversified motor/nonmotor YO55:AC559</b>	<b>77.92 mi. 3,361</b>
			<b>(Maui Totals)</b>	
		<b>Total</b>	<b>Non-motorized YO53:AC558</b>	<b>34.5 mi. 76,518</b>
		<b>Total</b>	<b>Diversified YO54/55/57: AC586/559/557</b>	<b>130.52 mi. 102,025</b>
	<i>(\$50,000 from Maui motorized YO56 to Hawaii District YO56 motorized; Maui balance is \$26,518 for motorized)</i>		<b>Motorized YO56:AC587</b>	<b>17 acres 76,518 -50,000 =26,518</b>