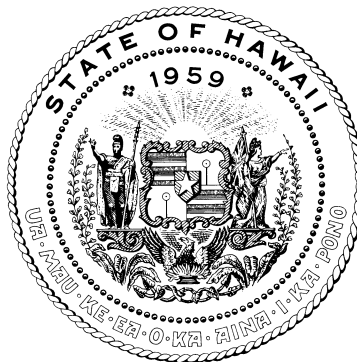


REPORT TO THE TWENTY-SEVENTH LEGISLATURE
REGULAR SESSION OF 2014
HAWAII STATEWIDE TRAIL AND ACCESS SYSTEM
“Na Ala Hele”



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(7), Hawaii Revised Statutes

Honolulu, Hawaii
November 2013

HAWAII STATEWIDE TRAIL AND ACCESS SYSTEM

“Na Ala Hele”

PURPOSE

Chapter 198D, Hawaii Revised Statutes (HRS), establishes the Hawaii Statewide Trail and Access System, to be known as “Na Ala Hele”, under the Department of Land and Natural Resources (DLNR). Pursuant to Section 198D-9(7), HRS, this report highlights DLNR’s accomplishments in Fiscal Year (FY) 2013.

INTRODUCTION

Na Ala Hele (NAH), the 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, and coordinate activities to implement a trail and access system in Hawaii. The Program is administered by DLNR, Division of Forestry and Wildlife (DOFAW). This report will be cataloged into three sections:

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

1. 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 the inventory, and documenting ownership of specific historic trails and non-vehicular old government roads for public use where it is feasible and culturally appropriate.

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

Access to county search and rescue efforts.

Access to restore native flora, fauna and watersheds.

Access to monitor and remove invasive plant and animal species.

Access to control wild land fire.

Access to protect Hawaiian culture, ancient and historic trails.

Access for hunting, hiking, biking, equestrian, off-highway vehicle activities.

Provide commercial trail opportunities to strengthen Hawaii’s economy.

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.

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 majority of its time maintaining Program trails and access roads to insure 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 (<http://hawaii.gov/dlnr/dofaw/nah/NAH-Program-Plan-1991.pdf>). 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 prevent hiking experience.

Water diversion: Installing or repairing soil retention steps swales, water bars, culverts, etc. to drain water away from trail and road corridors.

Hardscaping: Installing gravel, geotextiles, rocks, rock boxes, or other types of materials along trail and access road corridors for maintenance purposes.

Boardwalk installation or repair: Boardwalks may be installed in excessively boggy and sensitive environments subject to high use.

Re-construction or re-route: Extensive trail or access road rebuilding or re-routing.

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.

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

Oahu: The high expectations to maintain Oahu trails by citizens and tourists place increase hardship on the limited trail's staff to maintain the popular Honolulu Mauka Trail System, Manoa Falls Trail, Poamoho Trail, and Muanawili Falls Trail. Major work includes: brushing, grubbing, tree/rock removal, herbicide application, trail head maintenance, sign installation and replacement, and rockwork. Hiker fatalities and injuries on non-DLNR managed trails have increased public concerns over the safety of DLNR trails. Major priority is to keep all trails under DLNR safe for all users. Oahu staff provided continued support of the Kahuku Off-Highway Vehicle (OHV) Park management and met with Hawaii Motorsport Association to discuss future procurements.

Maui: The major accomplishment this year on Maui is the expansion of the Kahakapao Recreational Area in the Makawao Forest Reserve. Limited to hikers only, the new recreational area now provides equestrian, biking and added open vistas for birdwatchers and outdoor enthusiasts. Maui staff completed routine Standard Trail Maintenance Procedures (STMP) including: brushing, grading, water diversion maintenance, tree and brush removal, sign maintenance, and herbicide application to Haleakala Ridge Trail, Ala Loa O Maui, Lahaina Pali Trail, Plum Trail, Polipoli Trail, Tie Trail, Waihee Ridge Trail, Waihou Spring Trail, Waikamoi Ridge Trail, Mokuleia Stairs, Ohai Loop Trail, Lower Waiohuli Trail, and

Hulopoe-Huawai-Fisherman's Trail. Continue to support maintenance of the Maui Motocross Track including: landscaping maintenance, removing rubbish and debris, hauling materials and equipment maintenance.

Hawaii: The retirement of the Trails Manager in December 2012 increased the workload with limited staff. Temporary assignments of new staff reduced much of the administration work but field trail work remained a priority. Routine Trail Maintenance/ Improvements: Ainapo Trail, Doctor's Pit Trail, Ala Kahakai Trail, Puu Huluhulu Trail, Puna Trail, Onomea Trail, Kaumana Trail – brushing, tree removal, sign maintenance, helicopter support, and reconstruction. Work to delineate the Ala kahakai National Historic Trail (Kiilae/Honaunau Section) and (Kawaihae to Waikoloa Section) continues. The site visit with private landowners to locate this historic trail through (National Parks and Kamehameha Schools Property, Waikoloa and Mauna Lani Community Associations) will help provide a blue print to establish the corridor through private property. Routine quarterly maintenance on Upper Waiakea All-Terrain Vehicle (ATV)/Dirt Bike Park continued including minor grading and sign maintenance of the park.

Kauai: Although the Kauai NAH Advisory Committee met several times in FY 2013, priority was to recruit new volunteer members to meet quorum during the year. Three new members were approved to advise DLNR of the trail operations on Kauai. Work to repair the Alakai Boardwalk and coordinating volunteer groups to help DLNR maintain 12 NAH features continues. Work includes; brushing, grubbing, tree/rock removal, herbicide application, signage maintenance, and trail-head maintenance. With new Global Positioning System (GPS) units, DLNR mapped all trails and roads to inventory all public access for emergency use including; lost hikers, hunters or fire suppression.

2. FUNDING SOURCES

Liquid Fuel Tax (LFT) Allocation

0.3% of LFT collected under Chapter 243, HRS, is deposited each fiscal year into a special fund (Section 171-19, HRS) of DLNR. The funds are used for management, maintenance, and development of NAH trails and accesses established under Chapter 198D, HRS. DLNR is limited to \$250,000 revenue from LFT. This funding supports the accomplishments explained above for Kauai, Oahu, Maui and Hawaii trail activities.

Federal Recreational Trails Program (RTP) Allocation

Recreational Trails Program (RTP) is created by the Safe, Accountable, Flexible, and Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) 1101(a)(8), 1109. The RTP is a Federal Highway Administration (FHWA) Program, under 23 USC 104(h) & 206. The Federal Highways Administration approved eligibility of RTP funds to DLNR, DOFAW through a set criterion that states develop a trail council consisting of motorized and nonmotorized recreational users. Next, states including Hawaii must have a State Comprehensive Outdoor Recreation Plan. Also, states must 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 (multiple) trail use. The completed RTP obligation for the past fiscal year for DLNR is \$1,016,798 and DLNR anticipates closing this obligation pending FHWA approval.

Transient Accommodation Tax (TAT) Allocation by Hawaii Tourism Authority

Act 235, SLH 2005, increased TAT allocation to the Tourism Special Fund to 34.2% and, in

the process, repealed the TAT Trust Fund. Act 235, SLH 2005, amended Act 250, SLH 2002, in a significant manner for DLNR: In 2007, a provision allowed DLNR to receive \$1,000,000 in TAT revenue (\$900,000 for DLNR's Division of State Parks and \$100,000 to NAH). The \$100,000 allocated to NAH pays for three NAH staff salaries who do the major trail work on Kauai, Oahu, and Maui.

Last Legislative Session, Section 237D-6.5 HRS, was amended by Act 161, SLH 2013, to allocate \$3,000,000 to DLNR. The portion received by DOFAW remained at \$100,000.

Commercial Trail Tour Activity (CTTA)

Act 106, SLH 1997, allows DLNR to develop user fees for commercial use of NAH trails and access routes and revenues from these fees go back into trail and access management. The Act permits DLNR to defray costs for trail maintenance and monitor commercial trail tour operations on public trails. Commercial trail use is regulated under Chapter 13-130, Hawaii Administrative Rules. The fees will encourage compliance, eliminate the need for enforcement actions, and expand new commercial vendors into the program. CTTA will improve resource administration and management between the commercial trail tour industry and DLNR while increasing economic activities in the State.

A strategic CTTA scheduling management plan was developed to ensure 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 Hawaii Information Consortium (HIC) who then records the trail reservation, date, and calculates the fee. NAH established an annual \$75 dollar subscription fee for CTTA operators to HIC, and an additional 10% fee on each reservation. While there is an additional 10% per transaction charge and annual subscription fee for HIC management, CTTA fees are assessed per unit of use and based upon the potential trail impact by type of recreational uses. DOFAW also submits the 20% portion of this revenue to Office of Hawaiian Affairs. For a complete list of current CTTA operators, visit: www.hawaiitrails.org.

FEE SCHEDULE

Hike	Bike/Horse	Motorcycle	4wd 5 passenger	4wd 8 passenger	4wd 12 passenger	4wd 15 passenger
\$5.00	\$7.00	\$10.00	\$25.00	\$50.00	\$75.00	\$100.00

NAH CTTA Program Revenue: The fluctuation of the tourist industry is reflected in the following table. Prior to FY 13, CTTA Island totals included Office of Hawaiian Affairs (OHA) and DLNR revenues. Beginning this FY, DLNR share of CTTA revenues will be reported by net balance obtained from CTTA monthly fees per island (less OHA and ehawaii.gov fees). Oahu received about 81% of the total revenues generated from CTTA fees. Maui commercial tour interests remained static the last 3-years. Economic forecast should improve with hotel occupancy increasing this year, pumping new money into Maui's economy. Overall, total revenues dipped in FY13 but CTTA fees charged to hiking, equestrian, and motorized off-highway recreational activities contributed \$54,561 into our local economy and returned to maintain these public natural resources.

CTTA Revenue	FY13	FY12	FY11	FY10	FY09	FY08	FY07	FY06
Kauai	\$6,913	\$16,248	\$12,691	\$18,435	\$19,574	\$41,792	\$35,973	\$37,332
Oahu	\$44,652	\$58,459	\$58,140	\$44,497	\$43,597	\$30,622	\$32,262	\$38,356
Maui	\$76	\$77	\$60	\$181	\$55	\$1,012	\$836	\$1,348
Hawaii	\$2,920	\$6,605	\$4,295	\$6,484	\$6,967	\$5,989	\$22,844	\$37,368
Total	\$54,561	\$81,389	\$75,186	\$69,597	\$70,193	\$79,415	\$91,915	\$114,404

FY 2013 CTTA SUMMARY OF USERS - NUMBER BY CATEGORY/COUNTY

CTTA Users	OAHU	KAUAI	HAWAII	MAUI	TOTAL
Hikers	11,194	168	269	19	11,650
4 Wheel Drive Passengers	0	613	314	0	927
Equestrian Riders	0	569	0	0	569
Motorcycle Riders	0	0	0	0	0
Mountain Bike Riders	0	0	0	0	0
Total	11,194	1,350	583	19	13,146

NAH and Forestry Camping Fee

In order to increase NAH management capacity, DOFAW requested Board of Land and Natural Resources (BLNR) approval to increase fees for camping, cabins and other recreational uses in public forest reserves and along designated NAH trails statewide. At its August 14, 2009 meeting, BLNR approved updated fees for Forest Reserve System and NAH system camping permits, with fees to be deposited into the forestry program special funds.

The fees are \$12 per night per campsite for residents and \$18 per night per campsite for non-residents. A \$2 per person fee is assessed per site over 6 campers for residents and a \$3 per person fee is assessed per site over 6 campers for non-residents. Cabin rentals range in fees from \$30 - \$50 per night per cabin for residents and \$60 - \$90 per night per cabin for non-residents.

The reservation and payment information for camping are made through this website: https://camping.ehawaii.gov/camping/all_c-search.html. This system became operational in FY11 when the new ehawaii permitting system allowed the NAH Program to receive additional needed revenues. These revenues are collected and placed in the Special Forestry Fund for camping. The camping data revenues along NAH features (doesn't include forestry campsites or cabins) are compiled by islands and are presented below.

The increased Big Island revenues can be attributed to the tourist attraction of the rugged 18 mile Muliwai Trail which provides hikers with a typical tropical rainforest experience into the Waimanu Valley Campsite. With the overcrowding population in Honolulu, residents and visitors seek wilderness experiences along the rural trails of the leeward and windward areas of Oahu where most of camping activities exist. Finally, the Garden Isle of Kauai provides numerous camping opportunities along its trails with shelters and picnic tables afforded those who enjoy the outdoor living. A modest camping revenue increase the last 3 years brings much needed sustainable camping program along DOFAW's trails and management areas.

Na Ala Hele Camping Revenues

ISLAND	FY13	FY12	FY11
Hawaii	\$13,436	\$11,690	\$9,047
Kauai	\$5,127	\$2,897	\$4,639
Oahu	\$4,463	\$3,450	\$2,726
Maui	\$104	\$165	0
Total	\$23,130	\$18,202	\$16,412

LNR 804 NAH General Funds

General fund allocations of approximately \$1,210,541 were allocated in FY13. Due to reductions in general fund revenues over the past years, NAH, LNR 804 Program used all of the federal funding and state special funds available to support basic payroll and operating expenses for this Legislature Report.

Na Ala Hele Funding & Revenue Table (Source)	FY13
Special Funds – fuel tax, TAT, CTTA – Ceiling	\$692,766.00
Federal Recreational Trails Program - Appropriation	\$1,016,798.00
LNR 804 General Fund – Appropriation (shared with wildlife)	\$1,210,541.00

3. ANCIENT AND HISTORIC TRAILS

Section 198D-3, HRS, requires an inventory of trails and accesses be maintained and recorded under the NAH database. NAH has one full time staff position to abstract ancient and historic trails, non-vehicular old government roads, and old cart roads, for inclusion in the inventory under the provisions of the Highways Act of 1892. Section 264-1, HRS. The Highways Act of 1892 contains the following provision:

“(b) All trails, and other non-vehicular rights-of-way in the State declared to be public rights-of-way by the Highways Act of 1892, or opened, laid out, or built by the government or otherwise created or vested as non-vehicular 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 BLNR unless it was created by or dedicated to a particular county, in which case it shall be under the jurisdiction of that county.”

Under this program, NAH is responsible for locating and determining whether a historic road or ancient trail falls under the Highways Act of 1892. Abstracts of title are a valuable tool to make this determination. It is done through historical research of documents, maps or other media. Subsequent County reviews of subdivision developments or state Conservation District Use Permits provide a means to evaluate whether an action will impact old trails or roads. For example, County of Hawaii Planning Department has frequently requested NAH assistance to research county roads and trails to help them determine ownership or jurisdiction of those features. As urban growth increase on the Big Island, DLNR will support the County of Hawaii to mitigate further impact to ancient or historic trails. Additionally, further review by the Island Advisory Council can assess options for developing and restoring trail and non-vehicular access roads.

NAH staff has worked on declaring historic trail impacts that address the State's interest in applying Section 264-1 HRS. If the historic trail is located on private property, subsequent laws may apply, pursuant to Chapters 6E, 171, 264, and 198D, HRS, following DLNR's Land Division and State Historic Preservation Division mandates.

Additionally, these type of legal determinations are often 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. Identifying ownership provides future options for recreational development and/or access.

In FY13, NAH completed 28 abstracts and 12 quiet title reviews. The Island of Hawaii compiled the most significant number of abstract data compared to the rest of the State. The abundance of historic trails on the Big Island coupled with current development growth on the Kohala-Kona coast place these historic/cultural features at risk.

Summary of Ancient and Historic Trail Projects:

Hawaii:

Assisted DOFAW staff to locate public trails traversing Waipio Valley.

With technical support of State Survey Office, responded to public inquiries about a public trail that crossed near private property in North Kohala.

Researched a section of an ancient trail at Papa Bay, South Kona that resulted in DLNR claiming it for public access.

Maui:

Assisted DOFAW staff in determining ownership and jurisdiction of various resource features in the Kula Forest Reserve.

Oahu:

Assisted DOFAW staff responding to the disposition of public easements at a planned subdivision development in East Oahu..

Appendix I

KAUAI BRANCH PROJECTS Kauai Trail and Access Road Project Description

Kauai Trail and Access Road Project Description	FMIS Code/State Code	Distance	
Alakai Swamp Trail: Brushing, tree-rock removal, water diversion, boardwalk-sign maintenance, grubbing, helicopter support.	Non-motorized Y053:AC558	3.5 mi.	
Awaawapuhi Trail: Brushing, tree-rock removal, water diversion, sign maintenance, helicopter support, herbicide application, trailhead maintenance, grubbing.	Non-motorized Y053:AC558	3.1 mi.	
Iliau Nature Loop: Brushing, tree-rock removal, water diversion-sign maintenance, trail shelter repair.	Non-motorized Y053:AC558	0.3 mi.	
Kawaikoi Stream Trail: Brushing, tree-rock removal, water diversion, boardwalk maintenance, herbicide application, trail shelter maintenance.	Non-motorized Y053:AC558	1.8 mi.	
Kohua Ridge Trail: Brushing, tree-rock removal, water diversion, sign maintenance.	Non-motorized Y053:AC558	2.5 mi.	
Mohihi-Waiialae Trail: Brushing, tree-rock removal, water diversion-sign maintenance, herbicide application.	Non-motorized Y053:AC558	2.5 mi.	
Nounou East Trail: Brushing, tree-rock removal, water diversion, sign-fence maintenance.	Non-motorized Y053:AC558	2.0 mi.	
Nounou West Trail: Brushing, tree-rock removal, water diversion, sign-gate-fence maintenance, grubbing.	Non-motorized Y053:AC558	2.0 mi.	
Nualolo Cliff Trail: Brushing, tree-rock removal, water diversion, sign installation and maintenance, grubbing, helicopter support, herbicide application, trail shelter maintenance.	Non-motorized Y053:AC558	2.1 mi.	
Okolehau Trail: Brushing, tree-rock removal, sign maintenance, herbicide application, water diversion, grubbing.	Non-motorized Y053:AC558	2.3 mi.	
Pihea Trail: Brushing, tree-rock removal, water diversion, boardwalk-sign maintenance, helicopter support, trail shelter maintenance.	Non-motorized Y053:AC558	3.8 mi.	
Poomau Canyon Vista Trail: Brushing, tree-rock removal, water diversion, sign maintenance.	Non-motorized Y053:AC558	0.5 mi	
	Total Non-motorized Y053:AC558 Totals	26.4 mi.	
Koaie Canyon Trail: Brushing, grubbing, tree-rock removal, water diversion, helicopter support, herbicide application, trail shelter maintenance.	Diversified-nonmotorized Y054:AC586	3.0 mi.	
Kuamoo Trail: Grubbing, brushing, tree-rock removal, water diversion, sign maintenance, herbicide application	Diversified-nonmotorized Y054:AC586	2.0 mi.	
Kukui Trail: Grubbing, brushing, tree-rock removal, water diversion, sign maintenance, trail shelter maintenance, herbicide application.	Diversified-nonmotorized Y054:AC586	2.5 mi.	
Kuilau Trail: Grading, brushing, tree-rock removal, water diversion, hardscaping, sign maintenance, trail shelter maintenance, herbicide application, gate maintenance.	Diversified-nonmotorized Y054:AC586	2.1 mi.	
Moelepe Trail: Grubbing, grading, brushing, tree-rock removal, water diversion, sign-gate maintenance, and herbicide application.	Diversified-nonmotorized Y054:AC586	2.5 mi	
Nualolo Trail: Brushing, tree-rock removal, water diversion, sign maintenance, helicopter support, herbicide application, trailhead maintenance.	Diversified-nonmotorized Y054:AC586	3.8 mi.	
Puuki-Waiialae Trail: Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application.	Diversified-nonmotorized Y054:AC586	11.0 mi.	
Waimea Canyon Trail: Brushing, tree-rock removal, sign maintenance.	Diversified-nonmotorized Y054:AC586	2.5 mi.	
	Diversified-nonmotorized Y054:AC586	29.4 mi.	

Kauai Trail and Access Road Project Description	FMS Code/State Code	Distance	
Contour Road: Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	6.3 mi.	
Haelele Road: Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	6.5 mi.	
Kaaweki Ridge Access Road: Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	4.3 mi.	
Kauhao Ridge Access Road: Grading, brushing, water diversion-sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	5.0 mi.	
Lapa Ridge Road: Grading, brushing, tree removal, water diversion maintenance, landscaping, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	3.5 mi.	
Makaha Arboretum Access Road: Grading, brushing, tree removal, water diversion maintenance, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	3.8 mi.	
Milolii Ridge Access Road: Grading, brushing, tree removal, water diversion maintenance, sign maintenance, herbicide application, gate maintenance	Diversified-motor/nonmotor Y055:AC559	6.1 mi.	
Mohihi-Camp 10 Access Road: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	1.3 mi.	
Papaalai Road: Grading, brushing, tree removal, water diversion-sign maintenance herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC 559	3.0 mi.	
Pine Forest Access Road: Grading, brushing, tree removal, water diversion-sign maintenance herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC 559	5.3 mi.	
Polihale Ridge Access Road: Grading, brushing, tree removal, water diversion-sign maintenance, herbicide application, gate maintenance.	Diversified-motor/nonmotor Y055:AC559	3.0 mi.	
Powerline Trail: Monitor, maintenance, clearing of trees, brush, and grubbing.	Diversified-motor/nonmotor Y055:AC559	11.2 mi.	
Wailua Forest Management Road: Grading, brushing, tree-rock removal, water diversion-sign maintenance, herbicide application.	Diversified-motor/nonmotor Y055:AC559	31.3 mi.	
	Diversified-motor/nonmotor Y055:AC559	90.6 mi	
	Total Diversified YO54/55/57: AC586/559/557 Totals	120.0 mi.	

OAHU BRANCH PROJECTS
Oahu Trail and Access Road Project Description

Oahu Trail and Access Road Project Description	FMIS Code/State Code	Distance	
Kulana'ahane Trail: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter operations and step installation.	Non-motorized Y053:AC558	2.3 mi.	
Honolulu-Mauka (17 Trails System): Grading, brushing, tree removal, water diversion, hardscaping, boardwalk maintenance and installation, sign maintenance, herbicide application.	Non-motorized Y053:AC558	15.5 mi.	
Manoa Falls Trail (High Use): 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.	
Maunawili Ditch Trails–Waimanalo Road: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application, helicopter support.	Non-motorized Y053:AC558	12.75 mi.	
Maunawili Falls Trail: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application, helicopter support, trail hardscaping, planning.	Non-motorized Y053:AC558	1.25 mi.	
	Non-motorized Y053:AC558 Totals	32.6 mi.	
Hawaiiiloa Ridge Trail: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, step installation.	Diversified-nonmotorized Y054:AC586	3.5 mi.	
Kamananui Valley Road: Grading, brushing, tree removal, hardscaping, water diversion, sign maintenance, herbicide.	Diversified-nonmotorized Y054:AC586	4.0 mi.	
Kuliouou Valley and Ridge Trails: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, step installation.	Diversified-nonmotorized Y054:AC586	3.0 mi.	
Manana Trail: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application helicopter support.	Diversified-nonmotorized Y054:AC586	6.0 mi.	
Sand Island Bike Park: Design, permits, fencing, parking construction, water connection, grading and trail construction, planting.	Diversified-nonmotorized Y054:AC586	30 acres	
Waimano Trails: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, herbicide.	Diversified-nonmotorized Y054:AC586	7.2 mi.	
Wiliwili Trail: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, step installation, herbicide.	Diversified-nonmotorized Y054:AC586	3.0 mi.	
	Diversified-nonmotorized Y054:AC586	26.7 mi. 30 acres	

OAHU BRANCH PROJECTS

Oahu Trail and Access Road Project Description

Oahu Trail and Access Road Project Description	FMIS Code/State Code	Distance	
Poamoho Trail: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support, herbicide.	Non-motorized Y053:AC558	3.0 mi.	
Schofield-Waikane Trail: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support. <i>(pending access agreement)</i>	Non-motorized Y053:AC558	3.5 mi.	
	Non-motorized Y053:AC558 Totals	6.5 mi	
Hauula Ridge-Maakua Ridge-Papali Trail System: Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support.	Diversified- nonmotorized Y054:AC586	5.0 mi.	
Kaunala Trail: Grading, brushing, tree removal, water diversion, sign maintenance.	Diversified- nonmotorized Y054:AC586	2.5 mi.	
Kealia Trail: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified- nonmotorized Y054:AC586	2.3 mi.	
Kuaokala Trail: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified- nonmotorized Y054:AC586	2.5 mi.	
	Diversified- nonmotorized Y054:AC586	12.3 mi.	
Kealia Access Road: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified- nonmotorized motorized Y055:AC559	1.5 mi.	
Kuaokala & Mokuleia Firebreak Roads: Grading, brushing, tree removal, water diversion, sign maintenance, herbicide.	Diversified- nonmotorized motorized Y055:AC559	10.8 mi.	
Poamoho Hele Loa Access Road: Grading, brushing, tree removal, hardscaping, water diversion, sign maintenance, herbicide.	Diversified- nonmotorized motorized Y055:AC559	2.5 mi.	
	Diversified- nonmotorized motorized Y055:AC559	13.3 mi.	
	Diversified Y054/55:AC586/ 559Total	25.6 mi	
Kahuku OHV Park (Hawaii Motorsports Association) 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.	Motorized Y056:AC587 CD-2 Total	500 acres 30.5 mi.	
	(Oahu Totals)		
	Non-motorized Y053:AC558 Totals	40.1 mi.	
	Diversified Y054/55/57: AC586/559/557 Totals	52.3 mi. 30 acres	
	Motorized Y056:AC587 Totals	530 acres 30.5 mi	

**MAUI BRANCH PROJECTS
(Includes Molokai and Lanai)
Maui, Molokai, Lanai Trail and Access Road Project Description**

Maui Trail and Access Road Project Description	FMIS Code/State Code	Distance	
Haleakala Ridge Trail: Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized Y053:AC558	1.6 mi.	
Hoapili Trail: Brushing, tree removal, sign installation and maintance.	Non-motorized Y053:AC558	5.5 mi.	
Ke Alaloe O Maui: Brushing, tree removal, sign installation and maintenance.	Non-motorized Y053:AC558	3.0 mi.	
Keanae Arboretum: Brushing, herbicide application, tree removal, sign maintenance.	Non-motorized Y053:AC558	0.6 mi.	
Lahaina Pali Trail: Grading, water diversion, sign installation, herbicide and weeding.	Non-motorized Y053:AC558	5.5 mi.	
Mokuleia Stairs Beach Access: Brushing, water diversion, install boardwalk, sign installation and maintenance.	Non-motorized Y053:AC558	250 ft.	
Ohai Loop Trail: Brushing, grading, water diversion, sign installation and maintenance.	Non-motorized Y053:AC558	1.2 mi.	
Plum Trail: Grading, brushing, water diversion, tree removal, sign installation and maintenance.	Non-motorized Y053:AC558	1.7 mi.	
Polipoli Trail: Grading, brushing, water diversion, sign installation and maintenance.	Non-motorized Y053:AC558	0.6 mi.	
Tie Trail: Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized Y053:AC558	0.5 mi.	
Waihee Ridge Trail: Grading, brushing, water diversion, boardwalk installation, herbicide application, sign maintenance.	Non-motorized Y053:AC558	2.5 mi.	
Waihou Spring Trail: Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized Y053:AC558	1.0 mi.	
Waikamoi Ridge Trail: Brushing, hardscaping, boardwalk installation, tree removal, herbicide application, sign maintenance.	Non-motorized Y053:AC558	0.8 mi.	
Waiohuli Lower Trail: Grading, Brushing, water diversion, tree removal, sign maintenance.	Non-motorized Y053:AC558	1.4 mi.	
	Non-motorized Y053:AC558 Total	25.9 mi.	
Boundary Trail: Grading, brushing, water diversion, tree removal herbicide, sign maintenance.	Diversified- nonmotorized Y054:AC586	4.4 mi.	
Kahakapao Loop Trail: Brushing, sign installation and maintenance, water diversion, grading, tree removal,.	Diversified- nonmotorized Y054:AC586	5.7 mi.	
Mamane Trail: Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	1.8 mi.	
Redwood Trail: Grading, brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	1.7 mi.	
Skyline Trail: Brushing, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	6.8 mi.	
Waikoa Loop Trial: : Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	3.0 mi.	
Waikoa Upper Trail: Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified- nonmotorized Y054:AC586	7.0 mi.	

Maui Trail and Access Road Project Description	FMS Code/State Code	Distance	
Waiohuli Upper Trail: Grading, Brushing, water diversion, tree removal, sign maintenance.	Diversified nonmotorized Y054:AC586	4.0 mi.	
	Diversified nonmotorized Y054:AC586		
Maui Moto X Track: Non-permanent structures and plantings for shade and windbreak, replace old broken fencing, irrigation equipment, soil to create track and trails, hauling materials and repairs to machinery.	Diversified motorized Y057:AC557	17 acres	
Wahikuli OHV Park: Development	Diversified-motorized Y057:AC557	670 acres	
	Diversified-motorized Y057:AC557		
Waipoli Access Road: Grading, brushing, water diversion, sign maintenance.	Diversified motorized/ nonmotorized Y055:AC559	8.1 mi.	
	Diversified Y054/55/57: AC586/557/559 Total	39.5 mi. 687 acres	
	Motorized Total Y056:AC587		
Molokai Trail and Access Road Project Description	FMS Code/State Code	Distance	
Kaulahuki Trail: Grading, brushing, water diversion, tree removal, sign maintenance.	Non-motorized Y053:AC558	2.1 mi	
	Non-motorized Y053:AC558 Total	2.1 mi.	
Kahanui Access Road: Brushing, tree removal, water diversion, sign maintenance.	Diversified-motor/nonmotor Y055:AC559	3.3 mi.	
Maunahui-Makakupaia Access Road: Grading, brushing, water diversion, tree removal, sign maintenance.	Diversified-motor/nonmotor Y055:AC559	9.8 mi	
	Diversified Y055:AC559 Total	13.1 mi.	
Lanai Trail and Access Road Project Description	FMS Code/State Code	Distance	
Hulopoe-Huawai Fisherman Trail: Grading, brushing, water diversion, sign maintenance.	Non-motorized Y053:AC558	2.0 mi.	
Kanepuu Dryland Forest Trail: Grading, brushing, tree removal, sign maintenance.	Non-motorized Y053:AC558	0.5 mi.	
	Non-motorized Y053:AC558 Total	2.5 mi.	
#3 Access Road: Grading	Diversified-motor/nonmotor Y055:AC559	1.06 mi.	
#5 Access Road: Grading	Diversified-motor/nonmotor Y055:AC559	1.78 mi.	
#7 Access Road: Grading	Diversified-	1.6 mi.	

Maui Trail and Access Road Project Description	FMIS Code/State Code	Distance	
	motor/nonmotor Y055:AC559		
#57 Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	3.42 mi.	
Awalua Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	3.66 mi.	
Federation Camp Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	1.24 mi.	
Guard Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	38.2 mi.	
Honopu Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	3.22 mi.	
Kaena Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	3.75 mi.	
Kahua Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	5.41 mi.	
Kahue Access Road: Grading	Diversified- motor/nonmotor Y055:AC 559	4.15 mi.	
Keone Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	1.74 mi.	
Kuamoo Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	.94 mi.	
Lapaiki Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	3.8 mi.	
Mahana Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	1.52 mi.	
Nanahoa Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	1.05 mi.	
Naupaka Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	.97 mi.	
Paliamono Access Road: Grading	Diversified- motor/nonmotor Y055:AC559	.41 mi.	
Lanai Trail and Access Road Project Description:	Diversified motor/nonmotor Y055:AC559	77.92 mi.	
	(Maui Totals)		
	Non-motorized Y053:AC558 Totals	34.5 mi.	
	Diversified Y054/55/57: AC586/559/557 Totals	130.52 mi. 687 acres	

HAWAII BRANCH PROJECTS

Hawaii Trail and Access Road Project Description

Hawaii Trail and Access Road Project Description	FMIS Code/State Code	Distance	
Ainapo Trail: Brushing, tree branch removal, sign installation and maintenance, helicopter support, rebuild ahus.	Non-motorized Y053:AC558	10.2 mi.	
Ala Kahakai Trail: Grading, re-construction, brushing, water diversion, sign installation and maintenance, tree branch removal, helicopter support.	Non-motorized Y053:AC558	7.7 mi.	
Doctor's Pit Trail: Grading, re-construction brushing, water diversion, sign installation and maintenance, tree branch removal.	Non-motorized Y053:AC558	0.4 mi.	
Kaulana Manu Native Bird & Plant Sanctuary: Brushing, tree removal, water diversion, hardscaping, sign installation and maintenance, reconstruction & re-route, rubbish disposal.	Non-motorized Y053:AC558	0.7 mi.	
Kaumana Trail: Brushing, tree branch removal, sign installation and maintenance, rebuild ahus.	Non-motorized Y053:AC558	3.0 mi.	
Keauhou-Napoopoo Trail: sign installation and maintenance, brushing, herbicide (currently closed to public access, pending negotiations).	Non-motorized Y053:AC558	4.0 mi.	
Onomea Trails: Grading, re-construction, brushing, water diversion, sign installation and maintenance	Non-motorized Y053:AC558	1.2 mi.	
Puakea Bay Trail: Brushing, re-construction, water diversion, sign installation, helicopter support.	Non-motorized Y053:AC558	0.5 mi.	
Puna Trail: Grading, re-construction brushing, water diversion, sign installation and maintenance, tree branch removal, herbicide.	Non-motorized Y053:AC558	2.5 mi.	
Puu Huluhulu Trail: Grading, re-construction, brushing, water diversion, sign installation and maintenance.	Non-motorized Y053:AC558	0.6 mi.	
	Non-Motorized Y053:AC558 Totals	30.8 mi.	
Humuula Trail: Grading, re-construction, brushing, water diversion, sign installation and maintenance, tree branch removal, herbicide.	Diversified nonmotorized Y054:AC586	10.5 mi.	
Muliwai Trail: Grading, re-construction, brushing, water diversion, sign installation and maintenance, herbicide, helicopter support.	Diversified nonmotorized Y054:AC586	18.0 mi.	
Pololu Trail: Grading, re-construction, brushing, water diversion, sign installation and maintenance, herbicide.	Diversified nonmotorized Y054:AC586	1.0 mi.	
Puu Oo Horse Trail: Grading, re-construction, brushing, sign installation and maintenance, rebuild ahus, helicopter support.	Diversified nonmotorized Y054:AC586	7.4 mi.	
Upper Waiakea Bike Park: Bulldozing, brushing, tree removal, water diversion, hardscaping, sign installation & maintenance, reconstruction & re-route, rubbish disposal.	Diversified nonmotorized Y054:AC586	2,000 acres 56 mi.	
	Diversified nonmotorized Y054:AC586	92.9 mi.	
Ainapo Access Road Grading, water diversion, sign installation and maintenance.	Diversified nonmotorized motorized Y055:AC559	16.0 mi.	
Mauna Kea Access Road: Grading, water diversion, sign installation and maintenance.	Diversified nonmotorized motorized Y055:AC559	32.0 mi.	
Mauna Loa Observatory Access Road: Grading, water diversion, brushing, sign installation and maintenance	Diversified nonmotorized motorized Y055:AC559	35.0 mi.	
Puu Laau Access Road: Grading, water diversion, sign installation and maintenance.	Diversified nonmotorized motorized	8.4 mi.	

Hawaii Trail and Access Road Project Description	FMS Code/State Code	Distance	
	Y055:AC559		
	Diversified nonmotorized motorized Y055:AC559	91.4	
	Total Diversified YO54/55: AC586/559 Totals	184.3 mi.	
Mauna Kea ATV Dirt Bike Riding Area: Bulldozing, brushing, tree removal, water diversion, sign installation & maintenance, rubbish disposal.	Motorized Y056:AC587	56 miles	
Upper Waiakea ATV/Dirtbike Park: Bulldozing, brushing, tree removal, water diversion, hardscaping, sign installation & maintenance, reconstruction & re-route, rubbish disposal.	Motorized Y056:AC587	2,000 acres 56 mi.	
	Motorized YO56:AC587	112 mi. 2,000 ac.	
	(Hawaii Totals)		
	Nonmotorized YO53:AC558	30.8 mi.	
	Diversified YO54/55:AC586/59 Totals	184.3 mi.	
	Motorized YO56:AC587 Totals	112 mi. 2,000 ac.	