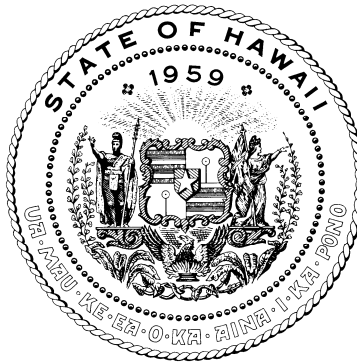


**REPORT TO THE TWENTY-FOURTH LEGISLATURE  
REGULAR SESSION OF 2008  
HAWAII STATEWIDE TRAIL AND ACCESS SYSTEM**

**“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 2007**

**REPORT TO THE TWENTY-FOURTH LEGISLATURE  
HAWAII STATEWIDE TRAIL AND ACCESS SYSTEM  
REGULAR SESSION OF 2008**

**PURPOSE**

Chapter 198D, Hawaii Revised Statutes (HRS), which established the Hawaii Trail and Access System, requires the Department of Land and Natural Resources (DLNR) under Section 198D-9(7), HRS, to submit an annual report on activities engaged in this Chapter. This report covers activities and revenue in Fiscal Year (FY) 06-07 and other specific activities from December 2006 to November 2007.

**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, acquire land or rights for public use of land, construct, and engage in coordination activities to implement a trail and access system. The Program is administered through DLNR's Division of Forestry and Wildlife (DOFAW) Specifically, this report contains the following subjects:

1. **Program Summary**
2. **Funding Sources**
3. **Recreational Trails and Access Roads**
4. **Ancient and Historic Trails Activity**
5. **Commercial Trail and Access Road Tour Activity**
6. **Recommendations**

1. **PROGRAM SUMMARY**

**Functional Value of Trails and Access Roads**

**Trails and unpaved access road are critical resource management and recreational features that serve multiple access functions:**

- Assisting county search and rescue efforts
- Restoring native flora and fauna and watersheds
- Monitoring and removal of invasive plant and animal species
- Combating and controlling wildland fire as firebreaks and firefighter access routes
- Experiencing and protecting Hawaiian culture through ancient and historic trails
- Recreating: hunting, hiking, bicycling, equestrian riding, off-highway vehicle riding
- Diversifying Hawaii's economy via commercial trail and access road tours

## **Core NAH Program Activities**

Activities associated with NAH Program administration and management and implementation are comprised of essentially four distinct, divergent and potentially conflicting subject areas of responsibility:

- **Recreational trail and access road management and maintenance for recreation and resource management.**
- **Ancient and historic trails abstracting, coordinating with other DLNR Divisions on planning and restoring managed public use.**
- **Commercial trail tour activity management and monitoring**
- **Environmental risk assessment, management and establishing methods to improve public safety**

Over the past few years these multiple mandates have become particularly challenging on DOFAW's Hawaii Branch due to the increased development actions affecting ancient and historic trails, increased demand for developing recreational trail opportunities such as managing the new off-highway vehicle riding areas in the upper Waiakea Forest Reserve, and access roads on Mauna Kea and dealing with trail hazards such as the recent earthquakes that closed many trails. Balancing these multiple needs is challenging.

## **Positions**

**There are 10 permanent NAH staff positions to implement and manage Program activities:** Program Manager, Abstracter, four Trail and Access Specialists and four ancillary Trail and Access Technicians. These positions are funded through a combination of LNR 804 general funds and the State Fuel Tax (SFT) allocation. The portion of SFT transferred to staff salary (3.5 positions) was a result of several years of reoccurring LNR 804 general fund restrictions. There are three budgeted temporary General Laborers positions funded by a percentage of the Transient Accommodations Tax (TAT) via the Hawaii Tourism Authority (HTA). DLNR is requesting making these positions permanent and converting them to a Forestry and Wildlife Worker series, and to add a fourth position for Hawaii Branch. Funding sources requested are 50% general fund and 50% TAT.

<b>Na Ala Hele Funding &amp; Revenue Table</b> (Excludes LNR 804 General Funds for staff salary)	<b>FY07</b>
NAH % of State Fuel Tax Revenue (for 3.5 positions)	\$ 230,328
Federal Recreational Trails Program Funds	\$ 758,079
Commercial Trail Tour Activity Revenue	\$ 91,913
TAT- HTA Allocation (for 3 Temp. GLI positions)	\$ 100,000
Investment Earnings	\$ 24,056
<b>Sub-Total</b>	<b>\$ 1,204,376</b>
Less Central Services Fee	\$ 22,623
<b>Total</b>	<b>\$ 1,181,753</b>

## 2. **FUNDING SOURCES**

### **SFT Allocation**

0.3% of SFT collected under Chapter 243, HRS, is deposited each fiscal year to the Special Land and Development Fund (Section 171-19, HRS) of DLNR. These funds are set aside to the LNR 804 Forest Recreation Program and administered by DOFAW. The allocation is for the purposes of management, maintenance, and development of NAH trails and trail accesses established under Chapter 198D, HRS. Legislation established a limit of \$250,000 that may be allocated to DLNR from SFT revenue. In FY07, \$230,328 was allocated to NAH and supports 3.5 NAH positions.

### **Federal Recreational Trails Program (RTP) Allocation**

The Transportation Equity Act for the 21st Century (TEA 21) authorizes RTP as a Federal-aid Highway Program and is codified in 23 U.S.C. 206 (RTP replaced the National Recreational Trails Funding Program). DLNR, through NAH, is qualified by the Federal Highways Administration as eligible to receive Hawaii's allocation of RTP funds. Criteria for eligibility mandates that the states have trail councils that include representation by the motorized recreational vehicle constituency, which NAH established at its inception. RTP is a state-administered, federal-aid program, and provides funds to states for trails and trail-related projects that fulfill the goals of a State Comprehensive Outdoor Recreation Plan. In utilizing RTP funds, the state 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 current RTP establishes an 80/20 matching requirement. Due to the limited availability of operating funds from SFT, providing the state RTP match is challenging. DOFAW special and general funded labor provided all of the State 20% matching requirement. RTP is the largest source of funding for the Trail and Access

Program. In 2007, Hawaii's portion of the Federal RTP funds totaled \$758,079, or 63% of total program funding.

### **TAT Allocation via the Hawaii Tourism Authority**

Act 235, Session Laws of Hawaii (SLH) 2005, increased TAT allocation to the Tourism Special Fund to 34.2% and repealed the TAT Trust Fund. Act 235, SLH 2005, amended Act 250, SLH 2002, in a significant manner for DLNR: In 2007 a provision went into effect guaranteeing DLNR \$1,000,000 in TAT revenue (\$900,000 for DLNR's Division of State Parks and \$100,000 to NAH.)

*This legislation acknowledges the growing relationship between tourism and its impact on recreational features under DLNR jurisdiction.* There has been a gradual, but steady increase in interest by the visitor industry in ecotourism activities, as trails are an attractive venue for visitors. *The market growth over the past several years illustrates the visiting consumer's increased interest in hiking. In Fy06/07 over 17,000 visitors went on permitted and guided trail and access road tours.* There are very compelling reasons to use TAT funds on improving the quality of maintenance on specific trails:

- Improved maintenance enhances both visitor and resident safety and facilitates ease of hiking.
- Trail surface repairs, such as the installation of boardwalks and/or applying gravel in poorly drained or habitually wet trail sections, or the installation of amenities such as benches and interpretive signage, improves aesthetic quality of the trail experience, and vegetation trimming in a manner that favors distribution of native plant species and reduces the quantity of non-native plant species along a trail corridor is a natural resource management goal that has direct ecotourism market applications.

Currently, the \$100,000 allocated to NAH has been equally distributed between Kauai, Oahu, and Maui (locations with a high percentage of trails used by visitors) to fund three temporary General Laborer I positions to improve the condition of trails frequented by visitors. DLNR is requesting that these three positions be converted to permanent Forestry and Wildlife Worker II's.

### **3. RECREATIONAL TRAILS AND ACCESS ROADS**

**Recreational trail and access road development and management activities includes:**

- 1) Physically maintaining the condition of appropriate trails and access roads under DOFAW jurisdiction to specific management standards and specifications
- 2) Responding to adjacent natural and cultural resource management issues associated with trail and access road corridors,
- 3) Managing multiple public and commercial recreational activities.
- 4) Assisting in the resolution of specific public access disputes and initiate planning and development for trails or access routes to trails that may be suitable for inclusion into NAH.
- 5) Commenting on projects that may affect trails and access, and
- 6) Providing NAH technical or developmental support to other organizations or agencies developing or managing trails and access.

## Physical Management

The vast majority of staff time is spent on maintaining the condition of trail/access roads and ancillary facilities to insure public safety. The management specifications are in the Trail Design Guidelines of the 1991 NAH Program Plan. Physical 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 blow downs or other tree related impediments
- **Water diversion:** Installing or repairing soil retention steps swales, water bars, culverts, etc. to drain precipitation and retain soil along trail and road corridors
- **Hardscaping:** Installing gravel, geotextiles, rocks, rock boxes, or other types of materials along trail and access road corridors subject to high use or precipitation
- **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 ancillary equipment and related equipment maintenance
- **Informational and warning sign assessments, installation and monitoring**

The following features fall under management of the Program:

<b>Kauai Branch Recreational Trails Program FY07-08 Project Tables</b>
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Trail and Access Road Maintenance Project Description	RTP CATEGORY	Distance
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### Trail Maintenance

<b>Kuamoo Trail:</b> Grading, brushing, tree removal, water diversion, sign installation, herbicide application	Diversified	2.0 mi.
<b>Nualolo Cliff Trail:</b> Brushing, tree removal, water diversion, sign installation and maintenance, re-construction, helicopter support, herbicide application, trail shelter repair.	Non-motorized	2.1mi.
<b>Awaawapuhi Trail:</b> Brushing, tree removal, water diversion, sign installation, helicopter support, herbicide application, trailhead parking area improvements, plant identification sign replacement.	Non-motorized	3.1mi.
<b>Nualolo Trail:</b> Brushing, tree removal, water diversion, sign installation, helicopter support, herbicide application, trailhead parking improvements.	Diversified	3.8 mi.
<b>Pihea Trail:</b> Brushing, tree removal, water diversion, boardwalk repair, sign installation, helicopter support, trail shelter maintenance, bridge maintenance, and composting toilet maintenance.	Non-motorized	3.8 mi.
<b>Alakai Swamp Trail:</b> Brushing, tree removal, water diversion, boardwalk repair, sign maintenance, helicopter support.	Non-motorized	3.5 mi.
<b>Kawaikoi Stream Trail:</b> Brushing, tree removal, water diversion, boardwalk repair, herbicide application, trail shelter repair.	Non-motorized	1.8 mi.
<b>Koaie Canyon Trail:</b> Brushing, tree removal, water diversion, helicopter support, herbicide application, trail shelter repairs, composting toilet maintenance	Non-motorized	3.0 mi.
<b>Iliau Nature Loop:</b> Brushing, tree removal, water diversion, sign installation, trail shelter repair, herbicide application.	Non-motorized	.3 mi.
<b>Kukui Trail:</b> Brushing, tree removal, water diversion, sign installation, re-construction, trail shelter maintenance, herbicide application, composting toilet maintenance.	Diversified	2.5 mi.
<b>Kuilau Trail:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign installation, trail shelter repair, herbicide application, bridge and gate repair.	Non-motorized	2.1 mi.
<b>Moalepe Trail:</b> Reconstruction and grading, brushing, tree removal, water diversion, hardscaping, sign installation, gate maintenance, and herbicide application.	Diversified	2.5 mi.
<b>Okolehau Trail:</b> Brushing, tree removal, sign maintenance, herbicide application.	Non-motorized	2.3 mi.
<b>Nounou East and West Trails:</b> Brushing, tree removal, water diversion, sign installation, gate maintenance, fence maintenance.	Non-motorized	3.5 mi.
<b>Kohua Ridge Trail:</b> Brushing, tree removal, water diversion, sign installation	Non-motorized	2.5 mi.
<b>Milolii Vista Trail:</b> Brushing, tree removal, water diversion, sign installation	Diversified	2.5 mi.
<b>Mohihi-Waialae Trail:</b> Brushing, tree removal, water diversion, sign installation	Diversified	2.5 mi.

<b>Kuamoo Trail:</b> Grading, brushing, tree removal, water diversion, sign installation, herbicide application	Diversified	2.0 mi.
<b>Waimea Canyon Trail:</b> Brushing, tree removal, water diversion, sign installation	Diversified	2.5 mi.
		Total <b>55.5 mi.</b>
<b>Wailua Forest Management Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, excavator rentals, culvert repair, bridge maintenance	Diversified	3.0 mi.
<b>Kauhao Ridge Access Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application, gate maintenance	Diversified	5.0 mi.
<b>Kaaweiki Ridge Access Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application, gate maintenance	Diversified	4.3 mi.
<b>Mohihi-Camp 10 Access Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application, gate maintenance	Diversified	6.1 mi.
<b>Polihale Ridge Access Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application, gate maintenance	Diversified	5.3 mi.
<b>Makaha Arboretum Access Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application, gate maintenance	Diversified	2.5 mi.
<b>Pine Forest Access Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance herbicide application, gate maintenance	Diversified	1.3 mi.
<b>Milolii Ridge Access Road:</b> Grading, brushing, tree removal, water diversion, hardscaping, sign maintenance, herbicide application, gate maintenance	Diversified	3.8 mi.
		Total: <b>33.3 mi.</b>

**Hawaii Branch Recreational Trails Program FY07-08 Project Tables**

<b>Trail and Access Road Maintenance Project Description</b>	<b>RTP Classification</b>	<b>Distance</b>
<b>Ala Kahakai Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance, tree branch removal, helicopter support	Non-motorized	7.7 mi.



<b>Keauhou-Napoopoo Trail:</b> (Memorandum Of Agreement with private landowner for stewardship) restoration, sign installation and maintenance.	Non-motorized	4.0 mi.
<b>Puna Trail:</b> Grading, re-construction brushing, water diversion, sign installation and maintenance, tree branch removal.	Non-motorized	2.5 mi.
<b>Puu Huluhulu Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance	Non-motorized	0.6 mi.
<b>Puu Oo Horse Trail:</b> Grading, re-construction, brushing, sign installation and maintenance, helicopter support.	Diversified	7.4 mi.
<b>Ainapo Trail:</b> Brushing, tree branch removal, sign installation and maintenance, helicopter support.	Diversified	20.4 mi.
<b>Onomea Trails:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance	Non-motorized	1.2 mi.
<b>Muliwai Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance, helicopter support.	Diversified	18.0 mi.
<b>Humuula Trail:</b> Grading, re-construction brushing, water diversion, sign installation and maintenance, tree branch removal	Non-motorized	10.5 mi.
<b>Doctor's Pit Trail:</b> Grading, re-construction brushing, water diversion, sign installation and maintenance, tree branch removal.	Non-motorized	0.4 mi.
<b>Kaumana Trail:</b> Brushing, tree branch removal, sign installation and maintenance.	Non-motorized	3.0 mi.
<b>Puakea Bay Trail:</b> Brushing, re-construction, water diversion, sign installation, helicopter support.	Diversified	0.5 mi.
<b>Pololu Trail:</b> Grading, re-construction, brushing, water diversion, sign installation and maintenance.	Diversified	1.0 mi.
		<b>Total: 77.2 mi.</b>
<b>Mauna Loa Observatory Access Road:</b> Grading, water diversion, brushing, sign installation and maintenance	Diversified	35.0 mi.
<b>Puu Laau Access Road:</b> Grading, water diversion, sign installation and maintenance.	Diversified	8.4 mi.

<b>Mauna Kea Access Roads:</b> Grading, water diversion, sign installation and maintenance. equipment purchase & rental, rubbish disposal, composting toilet acquisition, picnic site development	Diversified	32.0 mi.
<b>Ainapo Access Road:</b> Grading, water diversion, sign installation and maintenance.	Diversified	16.0 mi.
		Access road total: <b>91.4 mi.</b>
<b>Upper Waiakea All Terrain Vehicles (ATV) /Dirtbike Park:</b> Bulldozing, brushing, tree removal, water diversion, hardscaping parking lot and trails, sign installation & maintenance, reconstruction & re-route, equipment purchase & rental, rubbish disposal, portable toilet rental, composting toilet acquisition, picnic site development	Motorized	<b>2,000 acres</b> <b>56 mi.</b>

<b>Oahu Branch Recreational Trails Program FY06-07 Project Tables</b>
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Trail and Access Road Maintenance Project Description	RTP Classification	Distance
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<b>Kuaokala Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance	Diversified	2.5 mi.
<b>Kealia Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application	Diversified	2.3 mi.
<b>Kaunala Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance	Diversified	2.5 mi.
<b>Hauula-Maakua Trails:</b> Grading, brushing, tree removal, water diversion, sign maintenance	Diversified	5.0 mi.
<b>Poamoho Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support	Non-motorized	3.0 mi.
<b>Schofield-Waikane Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support	Non-motorized	3.5 mi.
<b>Manana Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application helicopter support	Diversified	6.0 mi.
<b>Waimano Trails:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support	Diversified	7.2 mi.
<b>Honolulu Mauka Trail System:</b> Grading, brushing, tree removal, water diversion, hardscaping, boardwalk maintenance and installation, sign maintenance, herbicide application	Non-motorized	15.53 mi.
<b>Maunawili Trails: (Demonstration, Falls and Ditch trails)</b> Grading, brushing, tree removal, water diversion, sign maintenance, herbicide application, helicopter support	Non-motorized	15.00 mi.

<b>Wiliwilinui Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support	Diversified	3.00 mi.
<b>Hawaiiiloa Ridge Trail:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support	Diversified	3.5 mi.
<b>Kuliouou Valley and Ridge Trails:</b> Grading, brushing, tree removal, water diversion, sign maintenance, helicopter support	Diversified	3.00 mi.
<b>Kaiwa Ridge Trail:</b> Grading, brushing, hardscaping, sign installation	Non-motorized	1.0 mi.
		Total: <b>73.03 mi.</b>
<b>Kuaokala &amp; Mokuleia Access Roads:</b> Grading, brushing, tree removal, water diversion, sign maintenance	Diversified	10.8 mi.
<b>Poamoho Access Road:</b> Grading, brushing, tree removal, hardscaping, fence installation and maintenance, water diversion, sign maintenance	Diversified,	2.5 mi.
<b>Kealia Access Road:</b> Grading, brushing, tree removal, water diversion, sign maintenance	Diversified	1.5 mi.
		Total: <b>14.8 mi.</b>

<b>Kahuku Off Highway Vehicle (OHV) Park (Hawaii Motorsports Association)</b> Access road grading, track grading and re-construction, trail grading and re-construction, rubbish disposal, fencing materials, chemi-toi rental, equipment rental and acquisition	Motorized	<b>500 acres</b> <b>30.5 mi.</b>
<b>Sand Island OHV Park (Sand Island Off Highway Vehicle Association)</b> Design, permits, fencing, parking and road grading, grubbing, and trail and track construction, planting	Motorized	30 acres

**Maui Branch Recreational Trails Program FY6-07 Project Tables  
(Includes Molokai and Lanai)**

Trail and Access Road Maintenance Project Description	RTP Classification	Distance
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<b>Hoapili Trail:</b> Brushing, tree removal, sign installation	Non-motorized	5.5 mi.
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<b>Skyline Trail:</b> Brushing, tree removal, equipment rental	Diversified	6.8 mi.
<b>Waihee Ridge Trail:</b> Grading, brushing, water diversion, boardwalk installation, herbicide application	Non-motorized	2.5 mi.
<b>Lahaina Pali Trail:</b> Grading, water diversion, sign installation, herbicide and weed wrenching	Diversified	5.5 mi.
<b>Boundary Trail:</b> Grading, brushing, water diversion, tree removal herbicide	Diversified	4.4 mi.
<b>Plum Trail:</b> Grading, brushing, water diversion, tree removal	Diversified	1.7 mi.
<b>Tie Trail:</b> Grading, brushing, water diversion, tree removal	Diversified	0.5 mi.
<b>Polipoli Trail:</b> Grading, brushing, water diversion, sign installation	Diversified	0.6 mi.
<b>Ke Alaloe O Maui:</b> Brushing, tree removal, sign installation	Non-motorized	3.0 mi.
<b>Waiakoa trail:</b> Grading, brushing, water diversion, tree removal	Diversified	7.0 mi.
<b>Waiakoa Loop:</b> Grading, brushing, water diversion, tree removal	Diversified	3.0 mi.
<b>Waihou Spring Trail:</b> Grading, brushing, water diversion, tree removal	Diversified	1.0 mi.
<b>Waiohuli Trail:</b> Grading, brushing, water diversion, tree removal	Diversified	1.4 mi.
<b>Redwood Trail:</b> Grading, brushing, water diversion, tree removal	Diversified	1.7 mi.
<b>Haleakala Ridge Trail:</b> Grading, brushing, water diversion, tree removal	Diversified	1.6 mi.
<b>Mamane Trail:</b> Grading, brushing, water diversion, tree removal	Diversified	1.8 mi.
<b>Waikamoi Ridge Trail:</b> Brushing, hardscaping, boardwalk installation, tree removal, herbicide application	Non-motorized	0.8 mi.
<b>Keanae Arboretum:</b> Brushing, herbicide application, tree removal, sign maintenance	Non-motorized	0.6 mi.
		<b>Total:</b> <b>49.4</b>
<b>Waipoli Access Road:</b> Grading, brushing, water diversion	Diversified	<b>8.1</b>

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<b>Maui Moto X trails and track:</b> 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	Motorized	<b>17 acres</b>
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<b>Molokai Trail and Access Road Project Description</b>	RTP Classification	<b>Distance</b>
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<b>Maunahui-Makakupaia Access Road:</b> Grading, brushing, water diversion, tree removal	Diversified	9.8 mi
<b>Kahanui Access Roads:</b> Brushing, tree removal, water diversion	Diversified	3.3 mi.

		Total: <b>17.3 mi.</b>
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<b>Lanai Trail and Access Road Project Description</b>	<b>RTP Classification</b>	<b>Distance</b>
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<b>Hulopoe-Huawai Fisherman Trail:</b> Grading, brushing, water diversion	Non-motorized	<b>2.0 mi.</b>
<b>Federation Camp Access Road:</b> Grading	Diversified	1.24 mi.
<b>Mahana Access Road:</b> Grading	Diversified	1.52 mi.
<b>Kahua Access Road:</b> Grading	Diversified	5.41 mi.
<b>Kuamoo Access Road:</b> Grading	Diversified	.94 mi.
<b>Lapaiki Access Road:</b> Grading	Diversified	3.8 mi.
<b>Awalua Access Road:</b> Grading	Diversified	3.66 mi.
<b>Kaena Access Road:</b> Grading	Diversified	3.75 mi.
<b>#7 Access Road:</b> Grading	Diversified	1.6 mi.

#5 Access Road: Grading	Diversified	1.78 mi.
#3 Access Road: Grading	Diversified	1.06 mi.
Honopu Access Road: Grading	Diversified	3.22 mi.
Guard Access Road: Grading	Diversified	38.2 mi.
Nanahoa Access Road: Grading	Diversified	1.05 mi.
Paliamono Access Road: Grading	Diversified	.41 mi.
Naupaka Access Road: Grading	Diversified	.97 mi.
Keone Access Road: Grading	Diversified	1.74 mi.
#57 Access Road: Grading	Diversified	3.42 mi.
Kahue Access Road: Grading	Diversified	4.15 mi.
		77.92 total

### Sample Trends/Projects

#### **OHV Development**

Public demand for OHV riding venues is increasing, creating trespass issues on private land and resources degradation on areas of public lands that are not managed for OHV activity. Two areas of DOFAW land on the Island of Hawaii have been established for authorized use Waiakea and Mauna Kea. NAH is currently working to establish an OHV park in a portion of Sand Island State Park on Oahu which would be leased for two years to a non-profit OHV organization to operate. A portion of the RTP is providing funding for the project, with OHV volunteers supplying matching labor. Maui is targeted as the next island where a similar OHV project is being considered on unencumbered state land with a lease to a Maui non-profit OHV organization.

## **Restored Access to the Ewa Forest Reserve/Poamoho Trail, Oahu**

In 2007, DLNR negotiated an MOA with Dole Foods Hawaii and Castle and Cooke to restore access to the Ewa Forest Reserve/Poamoho Trail on Oahu. Hunters and hikers can now apply for a permit to drive across two miles of private agricultural land to the landlocked public land. NAH with funding and support from the DLNR's Wildlife Program and Oahu Forestry Section staff, several volunteer groups, and inmates from the Oahu Community Correction Center, improved the access road and installed over two miles of new fencing, three heavy gates and information signs in order to fulfill the requirements of the MOA. Access was opened in July of 2007 and 23 hunter permits have been issued (hunter permits are good for one year) and 53 hiking permits (@ approximately five people per permit) have been issued to date.

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

### **Inventorying, Abstracting, Evaluation, Coordination with Land and Historic Preservation Division, and Management**

Section 198D-3, HRS, requires that an inventory of trails and accesses shall be established, maintained and amended as required. 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 State inventory under provisions of the Highways Act of 1892. Section 264-1, HRS, subsumed the Highways Act of 1892 and 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 Board of Land and Natural Resources (BLNR) unless it was created by or dedicated to a particular county, in which case it shall be under the jurisdiction of that county.”**

The Abstract Section of NAH provides technical support in locating and determining governmental jurisdiction to historic roads and ancient trails throughout the State. Abstracts of title are accomplished through historical research of documents, maps and other media. Development actions that threaten old trails often result in request for abstracts as part of the Conservation District Use Permit or county subdivision process. Discussions and evaluation among Island Advisory Council and NAH staff also result in specific requests for abstract information, and plays an integral role in determining current and future options for developing and restoring trail and non-vehicular access roads.

NAH has identified several differing historic trail scenarios and potential responses to address the State's interest in the application of Section 264-1 HRS. These scenarios are further affected by Chapters 6E, 171, 264, and 198D, HRS. Management and protection of historic trails requires coordination among DLNR's Land Division, Historic Preservation Division, DOFAW, and affected private landowners if the trail traverses private property. The determination of title is subject to litigation if the affected landowner disputes the

findings of the Abstractor. Ultimately, litigation is the only definitive method to determine ownership if there is a dispute.

The NAH Abstract Section also assists the Department of the Attorney General (AG) in identifying possible interest the State may claim in roads and/or trails situate within the boundaries of lands that are the subject of quiet title actions (QTA) or Land Court applications. If public ownership is confirmed, access via roads or trails is documented. Affirmation of ownership provides future options for recreational development and/or access. Coordination with the Historic Preservation Division is necessary if the trail has archeological value.

The following table provides a statewide breakdown of NAH abstract of title requests during FY07 and since 1992. The Island of Hawaii has the most significant need for abstract data due to the abundance of historic trails and development trends.

<b>ABSTRACT LOCATION FY06-07</b>	<b>FY06-07</b>	<b>TO DATE</b>	<b>STATE OWNED</b>	<b>PUBLIC ACCESS</b>	<b>OTHER OWNERSHIP</b>
<b>Kauai</b>	<b>1</b>	<b>24</b>	<b>8</b>	<b>10</b>	<b>6</b>
<b>Oahu</b>	<b>0</b>	<b>20</b>	<b>5</b>	<b>4</b>	<b>11</b>
<b>Maui</b>	<b>4</b>	<b>60</b>	<b>22</b>	<b>20</b>	<b>14</b>
<b>Hawaii</b>	<b>14</b>	<b>178</b>	<b>96</b>	<b>24</b>	<b>59</b>
<b>TOTAL</b>	<b>19</b>	<b>282</b>	<b>131</b>	<b>58</b>	<b>90</b>

### **Sample Project**

#### **Hokulia Trail Complex, Hawaii - Old Government Road (OGR - aka Keaohou Napoopoo Trail), Stepping Stone Trail (SST aka the Ala loa) and Old Cart Road (OCR)**

After years of litigation, a settlement agreement was reached that, (including the already established as State owned OGR) also established state ownership of the SST, and the OCR, comprising the Hokulia Trail Complex. Through the Board of Land and Natural Resources' approval, these three trails have been included under the jurisdiction of the NAH Program and will be managed and maintained by Hokulia under an MOA. There is an opportunity to extend public access across two adjoining private parcels to Kealakekua Bay State Historic



Park (KBSHP). Completion of this project would establish one of the most significant historic trail opportunities in the State for public access.

**5. COMMERCIAL TRAIL TOUR ACTIVITY (CTTA)**

Act 106, SLH 1997, allows for user fees from commercial use of NAH trails and access routes to be set aside for the LNR 804 Forest Recreation Program. This allows DLNR to defray a portion of the costs for trail maintenance and regulating, and monitoring commercial trail tour operations on public trails. Most in the private sector realize that it is in the commercial trail tour industry’s best interest to protect trails and access roads used by the tour industry through intervening regulation. Commercial trail use is regulated under Chapter 13-130, Hawaii Administrative Rules.

A permitting and Internet scheduling method has been 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 records the reservation, date, and calculates the fee. Glitches to the website must be responded to immediately, since permitted operators cannot make reservations if the site is down.

The fees have not changed since the CTTA program’s inception in 1999 and are assessed per unit of use and based upon the potential trail impact of the mode of transport:

Hike	Bike & Horse	Motorcycle	4WD (5)	4WD (8)	4WD (12)	4WD (15)
\$5.00	\$7.00	\$10.00	\$25.00	\$50.00	\$75.00	\$100.00

Payments are required after reservations are made, and vendors receive monthly invoices for the total amount of patron slots reserved, less any cancellations due to inclement weather. The operators are encouraged, through a waiving of the fee, not to use the feature during inclement weather.

**Revenue**

FY07, net revenue (20% of the total gross revenue is allocated to the Office of Hawaiian Affairs) from commercial fees totaled **\$91,913**, down 20% from FY06. The largest decline in revenue occurred on Hawaii, most likely associated with the closure of trails due to earthquake damage in 2006. There are 43 authorized commercial trail tour operators permitted by NAH. For a complete list of current CTTA operators, visit [www.hawaiitrails.org](http://www.hawaiitrails.org).

CTTA						
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Revenue							
	FY07	FY06	FY05	FY04	FY03	FY02	FY01
<b>Kauai</b>	\$35,973	\$ 37,332	\$ 34,273	\$11,114	\$33,232	\$36,145	\$27,800
<b>Oahu</b>	\$32,260	\$ 38,356	\$ 37,442	\$18,884	\$ 6,119	\$ 2,154	\$ 3,240
<b>Maui</b>	\$ 836	\$ 1,348	\$ 1,644	\$ 336	\$ 640	\$ 3,436	\$ 6,116
<b>Hawaii</b>	\$22 844	\$ 37,368	\$ 38,723	\$10,172	\$25,752	\$ 4,028	\$ 2,212
<b>Total</b>	<b>\$91,913</b>	<b>\$114,404</b>	<b>\$112,082</b>	<b>\$40,506</b>	<b>\$65,743</b>	<b>\$45,763</b>	<b>\$39,368</b>

<b>FY06/07 CTTA Patrons</b>	<b>OAHU</b>	<b>KAUAI</b>	<b>HAWAII</b>	<b>MAUI</b>	<b>TOTAL</b>
Hikers	7,984	347	1,678	205	10,214
4 Wheel Drive Passengers	0	6,695	663	0	7,358
Equestrian Riders	0	298	0	0	298
Motorcycle Riders	0	0	0	0	0
Mountain Bike Riders	0	0	0	0	0
<b>Total</b>	<b>7,984</b>	<b>7,340</b>	<b>2,341</b>	<b>205</b>	<b>17,870</b>

## 6. RECOMMENDATIONS

- Convert the three budgeted temporary General Laborers positions that are currently funded by a percentage of TAT via HTA to permanent - Forestry Worker II series, and add a fourth position for Hawaii Branch by funding the conversion via 50% general funds and 50% TAT.
- Develop authorized OHV riding areas on Maui and Kauai.
- Complete the Hokulia Trail Complex – initiate expansion to Kealakekua Bay State Historical Park.

- Consider increase in the CTTA fees to defray costs associated with improving the NAH Internet Reservation System and additional management improvements associated with commercial trail tours.