

# **Watershed Protection Grant Program**

**Council of the County of Maui**

**Water, Infrastructure and Transportation Committee**

**January 22, 2020**

**County of Maui Department of Water Supply**

# Why DWS Funds Watershed Protection

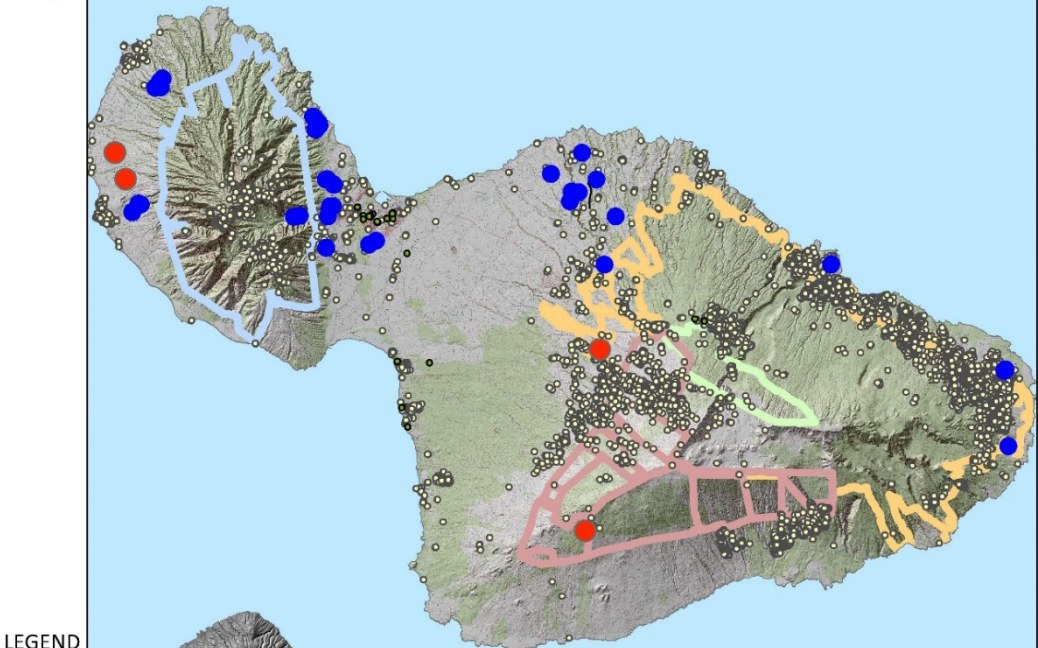
- Forested watersheds face major threats that alter the ability to provide many ecosystem services, including **reliable groundwater recharge and stream flow**.
- Feral ungulates (hogs, deer, cows, goats) damage forests by browsing, rooting and trampling vegetation, leaving the ground bare and exposed to erosion.
- Invasive weed species can overtake native forest covers needed to capture rain and fog and hold soils.
- Watershed Partnerships provide on the ground management to keep feral ungulates and invasive weeds out of critical watersheds.

**Key watershed management measures protect drinking water supplies**

**\$23M funded since 1997**

# Grant Request Analysis and DWS priorities

Maui Watersheds  
Maui County / DWS Wells

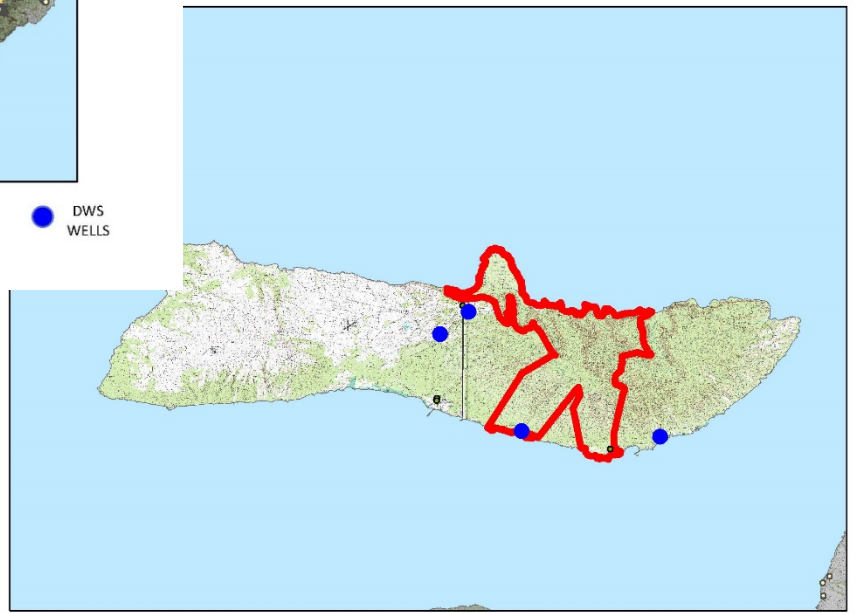


LEGEND

WMMWP 47,322 Acres	LHWRP 43,175 Acres	East Maui TNC 7,914 Acres Waikamoi Preserve	EMWP 122,000 Acres	MISC 190,000 Acres	HI Ag Research Center	DWS WELLS
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- Water rate funded
- Benefits to public water supply
- Watershed management plan

i Watersheds  
/S Wells

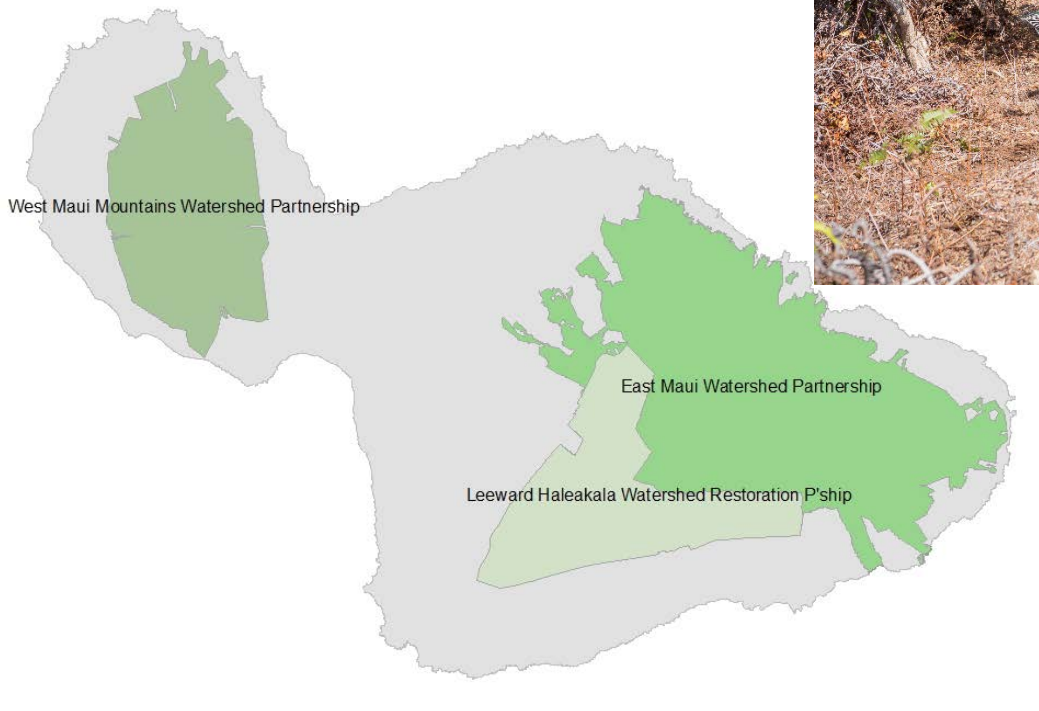


LEGEND

EMoWP 30,680 Acres	MoMISC 85,430 Acres	DWS WELLS
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# Performance Benchmarking

- Deliverables met on a quarterly basis
- Expenditures fiscally responsible
- Due diligence and transparency
- Reporting

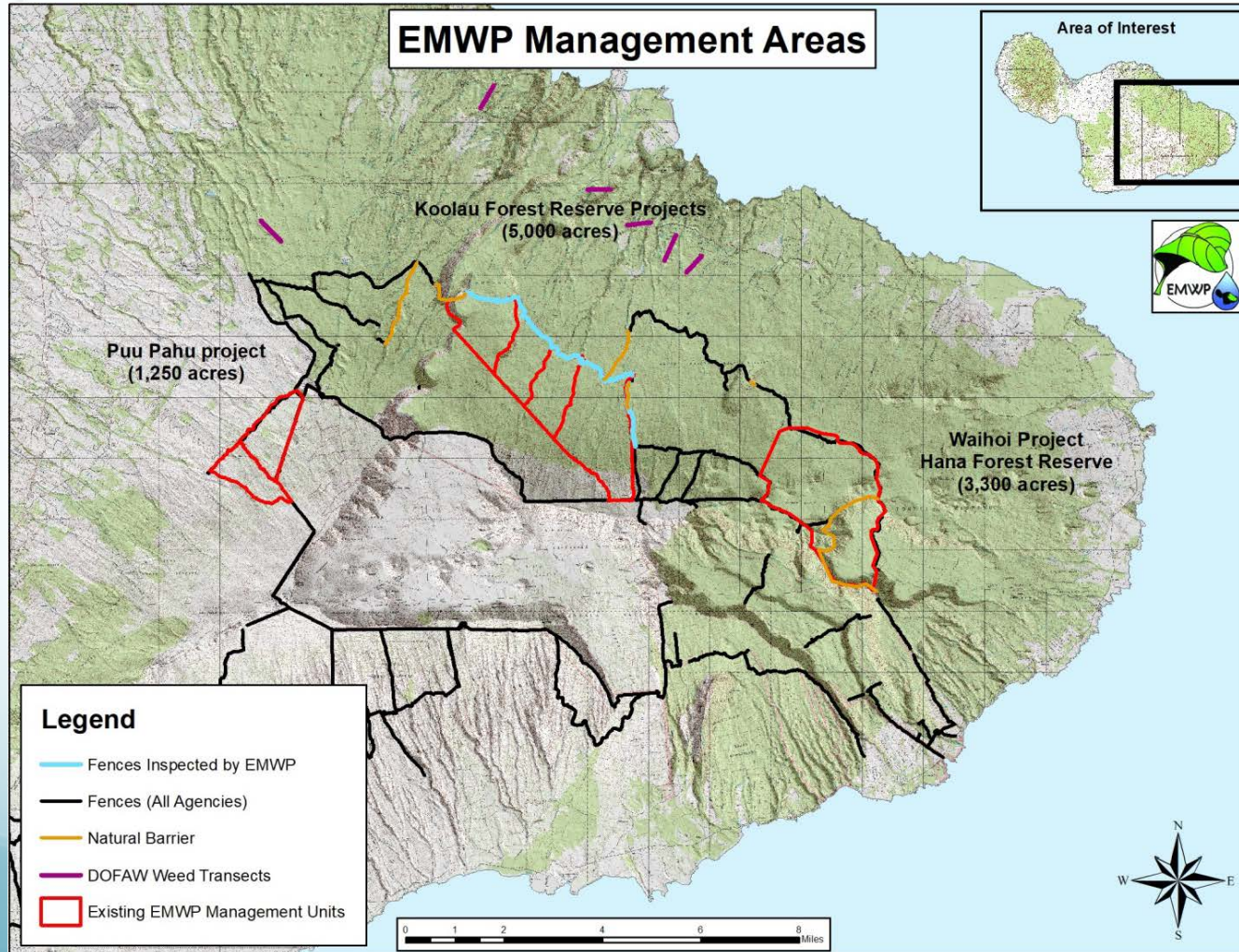


## FY 2021 WATERSHED PROTECTION GRANT PROPOSALS

	<b>Applicant</b>	<b>Committee</b>
<b>1. East Maui Watershed Partnership</b>	\$492,988.00	\$450,000.00
<b>2. Waikamoi Haipua'ena Water Source Protection</b>	\$270,797.00	\$260,000.00
3. Leeward Haleakala Watershed Restoration Partnership	\$300,000.00	\$250,000.00
4. Auwahi Forest Restoration Project	\$141,000.00	\$141,000.00
5. West Maui Mountains Watershed Partnership	\$693,604.00	\$600,000.00
6. Honokowai & Wahikuli Source Protection	\$76,215.00	\$76,300.00
7. Pu'u Kukui Watershed Preserve	\$340,000.00	\$330,000.00
8. East Molokai Watershed Partnership	\$250,000.00	\$250,000.00
<b>9. Maui Invasive Species Committee</b>	\$260,000.00	\$260,000.00
<b>10. Hawaii Agriculture Research Center – Koa</b>	\$70,000.00	\$56,500.00
<b>11. Hawaii Agriculture Research Center – Ohi'a</b>	\$74,980.00	\$75,000.00
	<b>\$2,969,584.00</b>	<b>\$2,748,800.00</b>

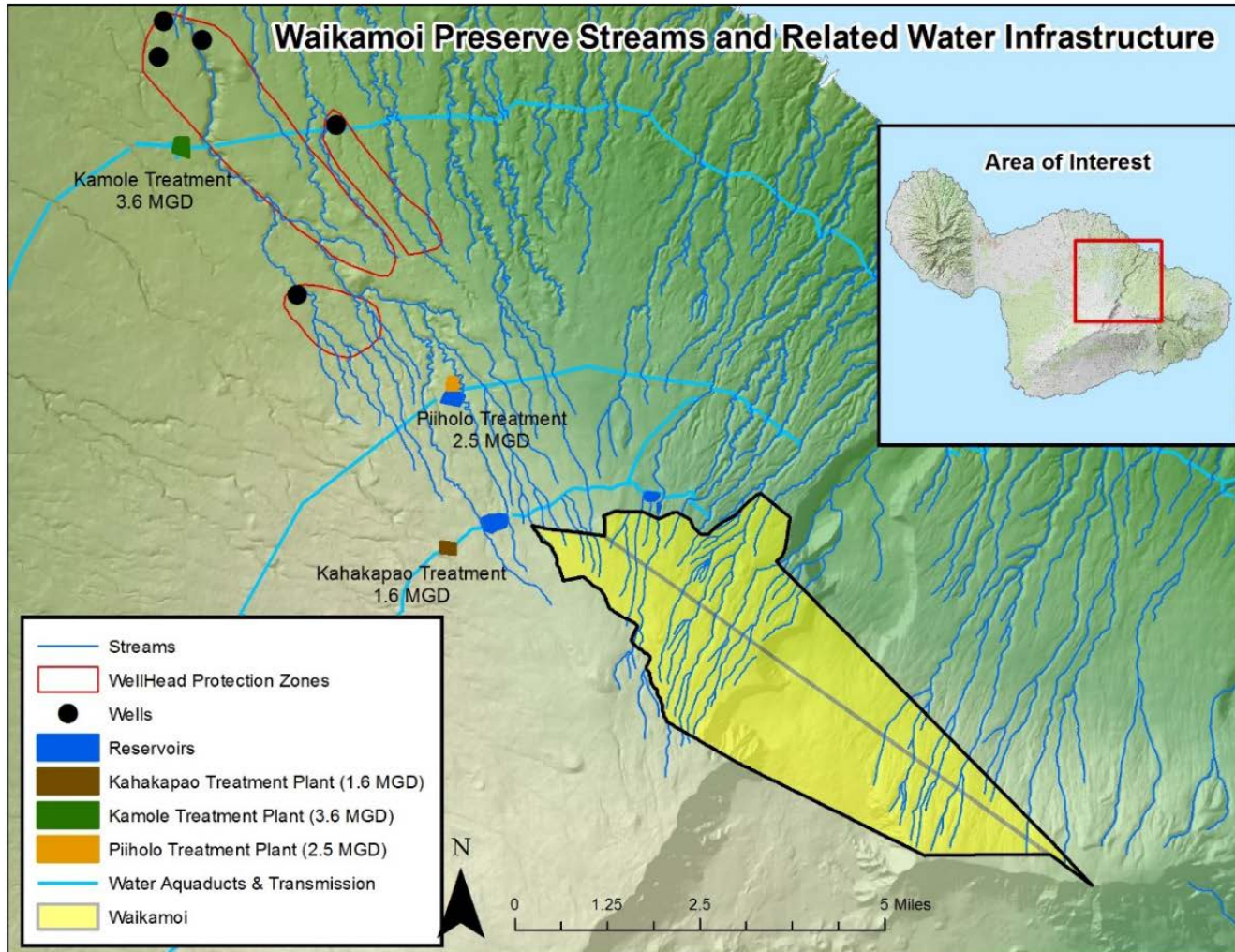
# East Maui Watershed Protection

- Upcountry residents and farmers from Haiku to Kanaio
- Active management of 11,600 acres
- Fencing, ungulate control, weed management, public outreach



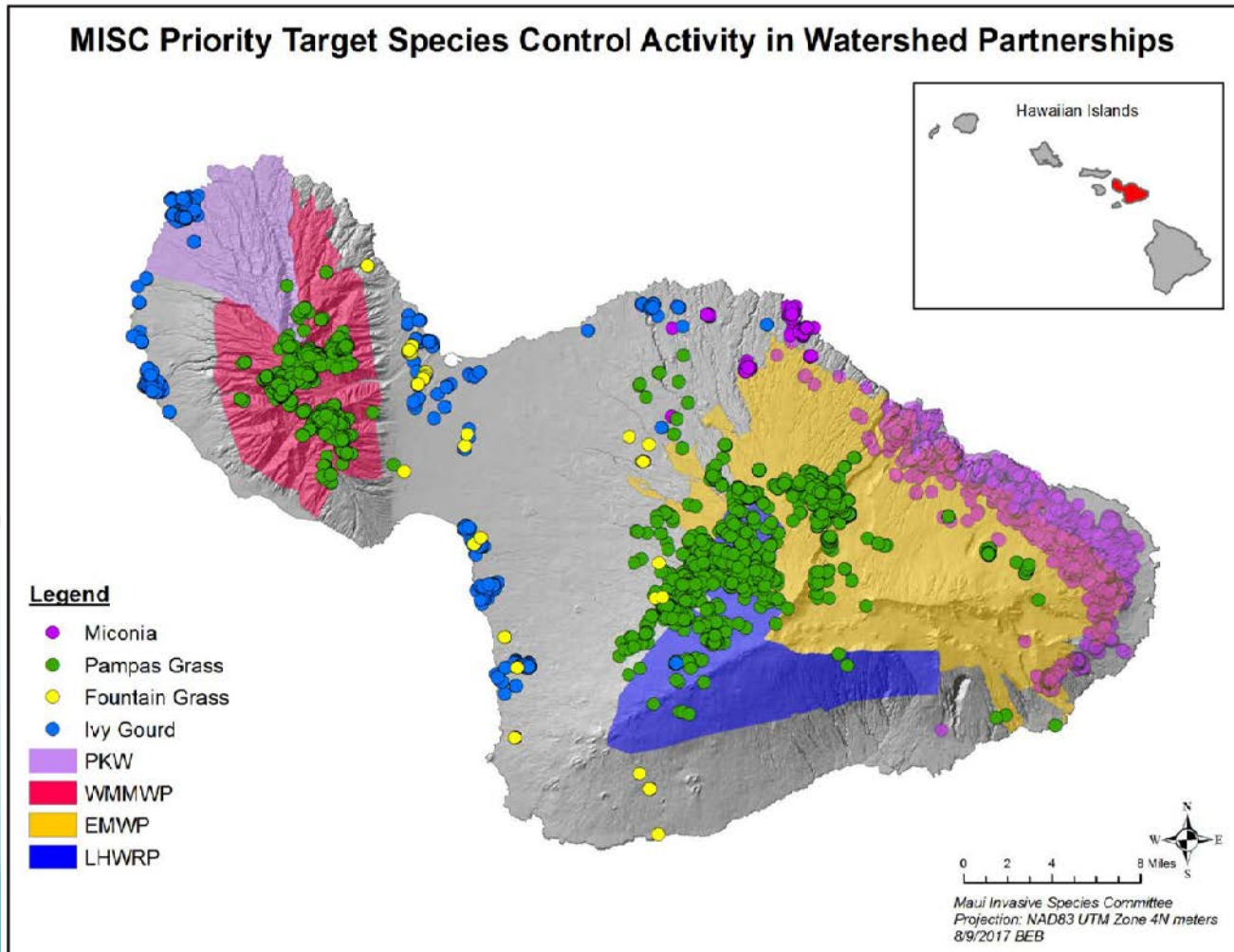
# East Maui Watershed Protection

- Waikamoi Preserve, 9000 acres ungulate free
- Protect major stream headwaters and groundwater for DWS customers
- Weed control and fence maintenance, public outreach



# Invasive Weed Containment

- Monitor and remove spread of miconia (*miconia calvescens*) and other invasive target species (pampas grass, fountain grass, ivy gourd)
- Public outreach





# Disease Resistant Koa and Ohia

- Seed reconnaissance surveys and collection
- 5 existing resistant Koa sites
- Develop disease resistant ohia populations

