Friends of HVNP Forest Restoration
Annual Report --- for NPS HVNP FY'17   (Oct. 01, 2016 - Sept. 30, 2017)

There were more invasive removal projects this year due to lack of rain for planting. Mark Johnson continues to be the liaison with Hawaii Volcanoes National Park Natural Resource Management, writing project announcements and scheduling projects since 2007. Patty Kupchak continues to maintain registration and participant lists since 2009. Linda Schubert is the Friends board member, FFR liaison and presents project reports to the board. Carol Johnson continues to maintain project records, write annual report, turn in volunteer hours and forms to NRM, take photos and write "mahalo" emails sent to participants and staff following each project since 2007. Paul Field is a committee member.

Projects: 11   (10 at Kilauea section,   1 at Kahuku unit)
All projects were held on Fridays. This continues to be a good day for NPS staff and the volunteers.
A fungus causing rapid ohia tree death has been identified at both sections of the park. Sanitation protocols were practiced for tools, vehicles, & clothing/shoes.

Invasive removal: 7   Over **5,967** invasive plants were removed plus **1,403** square meters kahili ginger.
The majority of this work has been done in two of the park's important Special Ecological (SEA) units, the Boundary Kipuka's and Manua Ulu. These efforts have allowed the park's invasive plant crews to work in other areas.
1,413 uprooted & 410 plus 15 square meters herbicide treated **blackberry** *(Rubus argutus)*
584 uprooted & 384 herbicide treated **faya** *(Morella faya)*
807 uprooted & 1,403 square meters herbicide treated **kahili ginger** *(Hedychium garnerianum)*
2,941 uprooted & 826 herbicide treated **strawberry guava** *(Psidium cattleianum)*
Other uprooted or herbicide treated cut stumps: 126 yellow raspberry *(Rubus ellipticus)*, 8 plus 1 square meter knotweed *(Polygonum capitatum)*, 6 green kyllinga, 7 thimbleberry, 12 *(Fuchsia magellanica)*, 1 *(Fuchsia paniculata)*, 4 poha, 5 common guava, 45 bull thistle, 8 jerusalem cherry

Planting native seedlings: 4 (including 1 at Kahuku unit) The general dry conditions reduced the
number of plantings this year. **1,087 plants** including: ohia, mamane, iliahi, maua, hau kuahiwi, pilo, aalii, olopua, *Phyllostegia*, Ha'iwale, *Cyanea*, and a'e were planted.

Seed collection & other: 0 projects. As part of the Sept. 8 invasive removal project half the group assisted
the nursery by washing and sanitizing hundreds of planting pots. Judging by the laughter they had a good time.

Volunteers: Participants were from Illinois, North Carolina, Texas, all around Hawaii Island & Oahu.
Number of volunteers: 56
Number who came to more than one project: 28 (20 came to 4 or more projects)
Number of volunteer hours: 926 hours
Number of committee hours (estimate, excluding projects): 150 hours
A huge mahalo to the following VIP for their continuing enthusiasm, knowledge, and support: Gloria & Paul Woofter (who attended all the projects this year), Ken & Patty Kupchak, Grace & Michael Haight, Joan Hughes, Jim Haefner & Alice Lindahl, Babette & Rich Morrow, Carol Timmons, Louise Hanna & Bob Kraus, Heidi Hill, Elaine Reed, Marilyn Nicholson.

Assisting the Native Plant Nursery and Fundraising:
FFR fund expenditures for the NRM vegetation program totaled $1,229.56. Funds are raised through the web site and at projects. Funds this year went toward the replacement of a tarp over plant tables, green house refurbishment supplies and a precision scale used to measure seed amounts.

Replaced tarp over plant tables

Precision scale used to weigh native plant seeds. Seed is stored and then propagated in the nursery and out planted back into the forest.