

Loko I'a Observation Log

Date: Malama (Hawaiiann Lunar Month):

Time: Pō Mahina (Hawaiian Moon Phase):

The Hawaiian lunar calendar is one of the best examples of place based learning. Every district of each island compiled knowledge through observation of the natural cycles and seasons of the environment and the activities of living organisms within the environment. Over time, tried and improved practices were incorporated to efficiently fish, farm and work with the natural rhythms of the environment in a sustainable manner.

This observation log was created so that the observer can begin to record and compare correlating activities with the environment, season, plant, animal and fish activities with the lunar phase and the lunar month. Learning the lunar cycle assists us in reconnecting ourselves with our environment.

Each data log requires the observer to record the date, time, lunar month and lunar phase. Weather activity is also noted to begin to observe climate and seasonal changes. Growth processes and cycles among the listed animal, fish and plants are pertinent to begin to see the correlating activities. Please note that the observation log lists common organisms at Hale O Lono fishpond at Keaukaha in the ahupua'a of Waiākea. Each district will have slight to dramatic differences. Please make adjustments accordingly.

For electronic versions of this observation log, which can be customized for other loko i'a, please go to www.ahamoku.org.

Notable Weather Activity:

Wind: _____ Rain: _____

Clouds/Cloud Cover: _____ Other: _____

Fauna Activity/Observations:



Mullet
Pua'Ama (Fingerling) Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____

Kahaha (Hand Length) Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____

'Ama'ama (8 inches) Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____

'Ana'e (12 inches +) Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



'O'opu Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



Āholehole Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



Puhi Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



Mosquito Fish Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



'Ōpae Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



Hapawai/Wī Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



Manu
'Auku'u: Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



Kōlea: Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



Honu Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



'A'ama Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____

Other Count: _____ Est. avg size: _____
Preferred habitat: _____ Behavior: _____
Other: _____



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Flora Activity/Observations:



Niu Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



Hala Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



False Kamani Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



Naupaka Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



Milo Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



La'i Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



Laukahi Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



Limu Height: _____
 Fruit/seed color: _____
 Flower color: _____
 Leaf fall: _____

Fruit/seed count: _____
 Flower count: _____
 Leaf color: _____
 Other: _____



Kupukupu Patch area: _____
 Height: _____

Spore presence: _____
 Other: _____



Laua'e Patch area: _____
 Height: _____

Spore presence: _____
 Other: _____

Notable Water Activity:

Height _____ft

- High/Rising:
 Low/Falling:

Salinity(ppt): _____
 Water flow: _____
 Water color: _____
 Temperature: _____
 pH: _____
 Dissolved oxygen (O₂) (mg/L): _____
 Carbon dioxide (CO₂) (mg/L): _____
 Phosphorous (PO₄⁻³) (mg/L): _____
 Nitrogen-Ammonia (NH₃) (mg/L): _____
 Nitrogen-Nitrate (NO₃) (mg/L): _____
 Bacteria cultures: _____
 Medium (%): _____
 E. coli colonies (%): _____
 Coliform colonies (%): _____

Other Parameters: _____

Evidence of Possible
 Correlations in Growth
 Processes & Cycles: _____

