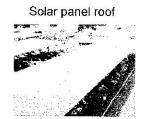


Implement Shed

Implement shed or workshop will be constructed for equipment and tools storage and farm machinery parking. Total area required for implement shed is 20m (L) x 8m (W), this building requires a very basic structure with solar panel roof on it, floor of the building will be 25Mpa (3626 psi) concrete.





ROOF RUNOFF STRUCTURE

Roof runoff structure will be designed to collect rain water from milking parlor building which is later used for irrigation. Roof runoff structure will be designed with a minimum design life of ten years and has minimum chances of damage by livestock and equipment. To design roof runoff structure, 25-years, 24-hour storm event has been taken into account. The maximum 24-hour, 25-years storm event at Mahaulepu is 6.6 inches or 168mm which was recorded on 03/02/1989.

Climate Data Online Extremes Products

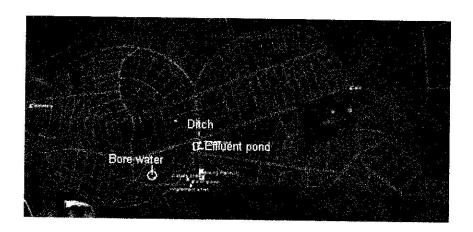
U.S. Department of Comments
National Oceanic & Abrigasphesis Administration

Precipitation; Daily Extreme Maximum; By Month Data Range Selected, 1988 to 2009 Page 10

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| 515710% null | 99999, Mahaulepu 941,1 | Station POR For Element EMXP: 1919 to 2010 | Let. 211.9'N, Lon. 159.4211111 Elev. 80 ft. abave sea lev | | |
|-----------------|------------------------|---|--|--|--|
| Month | Precipitation (inches) | Date(s) | | | |
| 1 | 3 90 01/12/19 | | | | |
| 2 | 2.15 026760 | | | | |
| 2 | 8.60,03.02/49 | 59 | | | |
| 4 | 1.10 04/10/20 | C3 | | | |
| ė, | 21,74 05/06/20 | 62 | | | |
| €- | 2.20 06/01/19 | 19 | | | |
| Ź | 0.80 07-23 20 | 33 | | | |
| -5 | 4.61 05.22/16 | 99 | | | |
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| 10 | 0.90, 10/19/19 | P | The second secon | | |
| 17 | 2.67 19/20/20 | 77 | | | |
| 12 | 3 30 12/01/20 | <u> </u> | | | |
| AG | 6.60 Sec Atan | * | Water the state of | | |

^{*}Data sourced from U.S. Department of Commerce National Oceanic & Atmospheric Administration



Weather station (GHCND: USC00515710) at Mahaulepu shows maximum 17 consecutive raining days ending on 08-01-1996 with a total rainfall of 48.3 mm. Lagoons will have 30 days storage capacity of effluent produced at farm. The effluent is irrigated only when there has been no heavy rain in the last two days and no rain is forecast for the next two days.

| | | | | | | DAPR [Number | MDPR [Multiday | |
|-------------------|-----------------------|---|----------|------------|----------|------------------|----------------------|---------------|
| | | | | | | of days included | precipitation total | Amount of |
| | | | | | | in the multiday | (tenths of mm; use | rain in |
| | | | | | | precipitation | with DAPR and | consecutive |
| | | •00000000000000000000000000000000000000 | | | | total (MDPR)] | DWPR, if available)] | days (mm) |
| | | | Latitu ੵ | LONGITUDE | DATE = | DAPR [Number 🖟 | MDPR [Multiday pr * | pitation to = |
| GHCND:USC00515710 | MAHAULEPU 941.1 HI US | 24.4 | 21.9 | -159.41667 | 19960108 | 17 | 483 | 48.3 |

Settling / solids pond: (solid/liquid waste separation facility)

All the manure that is collected from milking parlor and yards is transferred into settling pond. Once the settling pond is full, the liquid fraction overflows into the storage pond through screen pipes. The clear screens are fitted into the overflow pipes that do not allow solids to enter into storage pond. A stirrer pump is operated two hours per day to break up the solids in the settling pond. The size of the settling pond is 69' (21m) x 115' (35m) x 16'.4" (5m).

