System Overview Slides
System Overview:

**Kekaha-Waimea**

- **Supply**
  - 2000: Adequate once well comes on-line
  - 2020: Rehabilitate Waimea Shaft #9 to get 200 gpm or develop another well

- **Storage**
  - 2000: Install 0.6 MG tank at Kapilimao Well site
  - 2020: Install 0.5 MG in Waimea 196 Zone

- **Distribution:**
  - Fire flow deficient in commercial, residential areas that are served by undersized and older pipes
  - Many pipes installed in 1924
  - Remainder installed in 1950s and later
System Overview:

Hanapepe-Eleele

- **Supply**
  - 2000: Adequate
  - 2020: Institute conservation measures

- **Storage**
  - 2000: Adequate. Rehab/replace tanks
  - 2020: Install PRV stations. Institute conservation measures

- **Distribution:**
  - Salt Pond area is deficient in fire flow
  - Hanapepe Town pipe installed in 1920s
  - Hanapepe Valley pipe, 1933
  - Hanapepe Heights pipe, 1946
System Overview:

Kalaheo

- **Supply**
  - Adequate. Connected to Lawai

- **Storage**
  - 2000: Adequate once new 0.5 MG tank on-line. Install PRV station
  - 2020: Adequate

- **Distribution:**
  - Ag/Open areas are deficient in fire flow.
  - Oldest pipe installed 1942 to 1953.
System Overview:

Puhi-Lihue-Hanamaulu

- **Supply**
  - 2000: Adequate once Hanamaulu 1, 3, 4, Pukaki, & Puhi 5a & 5b on-line
  - 2020: Adequate

- **Storage**
  - Adequate

- **Distribution:**
  - Fire flow is deficient in commercial, school & older subdivisions.
  - Oldest pipe installed in 1926 - 1935, remainder after 1946
System Overview:
Wailua-Kapaa

- **Supply**
  - 2000: Adequate; however, surplus cannot be moved due to system limitations. Install piping & boosters or rehab Akulikuli Tunnel & acquire new 400 gpm source
  - 2020: Adequate

- **Storage**
  - 2000: Construct new 0.9 MG tank, new 0.35 MG tank, & new 0.9 MG tank
  - 2020: Adequate
System Overview:
Wailua-Kapaa

- Distribution:
  - Vivian Heights & upper Wailua Homesteads has low pressure
  - Fire flow deficient in Waipouli makai area, ag/open & older subdivisions.
  - Some pipe installed before 1930.
  - Wailua Homesteads main - 1937
  - Kawaihau Road cast iron main - 1945
System Overview:
Lawai-Omao

- **Supply**
  - Adequate. Connected to Kalaheo

- **Storage**
  - 2000: Needs 0.25 MG tank in 677 Zone
  - 2020: Adequate

- **Distribution:**
  - Hailima Road area has low pressure.
  - Fire flow is deficient in the commercial, ag/open areas and private roads.
  - Oldest pipe installed in Omao in 1953, others after 1960.
System Overview:
Koloa-Poipu

- **Supply**
  - Adequate

- **Storage**
  - 2000: Rehab Omao Tank or construct new 0.5 MG tank
  - 2020: Construct new 1.0 MG tank. If Omao repaired, construct 0.25 MG in 366 Zone

- **Distribution:**
  - Fire flow deficient in Koloa Town and ag/open areas.
  - Koloa Town pipe installed in 1924-1937
  - Older pipes are galvanized steel and cast iron.
System Overview:

Anahola

- **Supply**
  - 2000: Need new 300 gpm source
  - 2020: Adequate

- **Storage**
  - 2000: Adequate
  - 2020: Need 0.4 MG tank

- **Distribution:**
  - Fire flow is deficient in Anahola village.
  - Anahola Road pipe installed in 1929.
  - Remainder after 1956
System Overview: Moloaa

- **Supply**
  - Currently purchases water

- **Storage**
  - 2000: Construct new 0.015 MG tank
  - 2020: Adequate

- **Distribution:**
  - PVC pipe was installed in 1985
System Overview:

Kilauea-Waipake-Kaliihiwai

- **Supply**
  - 2000: Need new 400 gpm source
  - 2020: Adequate

- **Storage**
  - 2000: Construct new 0.65 MG tank. Install PRV stations
  - 2020: Adequate

- **Distribution:**
  - Sea Cliff Plantation has low pressure.
  - Fire flow is deficient for commercial, schools and Kalihiwai Valley.
  - Oldest pipe was installed in 1972
System Overview:

Anini

- **Supply**
  - Currently purchases water

- **Storage**
  - No DOW facilities

- **Distribution:**
  - Fire flow is deficient at the end of the system.
  - Oldest pipe (PVC) was installed in 1984
System Overview: Hanalei

- **Supply**
  - 2000: Need new 200 gpm source for redundancy
  - 2020: Adequate

- **Storage**
  - 2000: Need new 0.1 MG tank
  - 2020: Adequate

- **Distribution:**
  - Fire flow is deficient for commercial, school, Weke Road areas.
  - Oldest pipe installed in 1924
  - Remainder after 1962
System Overview:

Wainiha-Haena

- **Supply**
  - 2000: Need new 100 gpm source
  - 2020: Adequate

- **Storage**
  - 2000: Construct new 0.2 MG tank & new 0.01 MG tank
  - 2020: Adequate

- **Distribution:**
  - Wainiha Valley is fire flow deficient.
  - Pipes installed in 1960 and later.