Table 17.25-- ASTRONOMY AND RELATED FACILITIES AT THE SUMMITS OF MAUNAKEA AND HALEAKALA: 2015

Facility	Capital cost 1/	Annual operating cost	County based	
(mirror diameter in meters)	(\$ mil)	(\$ mil)	staff	Operational
Maunakea observatories				
Total	601	72.4	484	(X)
UH 2.2-m (Optical/Infrared) Canada-France-Hawaii 3.6-m (Optical/Infrared) NASA IRTF 3.0-m (Infrared) UKIRT 3.8-m (Infrared) James Clerk Maxwell 15-m Submillimeter VLBA Antenna 25-m (Radio) W.M. Keck Observatory (Keck I & II) 10-m x 2 (Optical/Infrared) Subaru 8-m (Optical/Infrared) Fredrick C. Gillett Gemini 8-m (Optical/Infrared) Submillimeter Array 8x6-m Maunakea Observatories Support Services	5 30 10 5 32 7 170 170 92 80 (X)	1.0 7.4 5.1 2.2 4.7 0.4 13.5 17.0 13.7 5.5 2/5.4	6 45 19 6 35 2 120 101 83 23 44	1970 1979 1979 1979 1986 1992 1992/1996 1999 1999 2003 1980
Total	749	40.73	202	(X)
Mees Solar Observatory Haleakala Observatories Projects Maui Space Surveillance Site (MSSS) 3/ Ground-Based Electro-Optical Deep Space Surveillance (GEODSS) Faulkes 2-m Telescope Transportable Laser Ranging System (TLRS4) Panoramic Survey Telescope And Rapid Response System (Pan-STARRS) Haleakala Support Facilities Daniel K. Inouye Solar Telescope (DKIST)	1 (NA) 250 25 10 1 110 9 344	0.2 0.2 26.3 6.1 0.6 0.5 5.6 1.2 4/18.0	1 2 117 16 2 5 11 13 35	1963 (NA) 1965 1983 2003 2005 2009 1962/2008 (5/)

X Not applicable.

Source: University of Hawaii at Manoa, Institute for Astronomy, records.

NA Not available.

^{1/} Historical cost, not adjusted for inflation, and not including subsequent capital improvements for Mauna-kea Observation.

^{2/} Only \$1.9 million of this included in total as the other \$3.5 million are part of facility operating costs.

^{3/} Formerly Air Force Maui Optical Station (AMOS).

^{4/} Operational cost of 18 million not included in the total.

^{5/} Daniel K. Inouye Solar Telescope scheduled to be operational by 2019.