

**MANNED SPACE FLIGHT
RESEARCH AND DEVELOPMENT
APOLLO APPLICATIONS
FY 1968 BUDGET ESTIMATES
(MILLIONS OF DOLLARS)**

	FY66	FY67	FY68
SPACE VEHICLES	\$ 8.5	\$ 38.6	\$ 263.7
EXPERIMENTS	40.3	35.6	140.7
MISSION SUPPORT	2.4	5.8	50.3
TOTAL	\$ 51.2	\$ 80.0	\$ 454.7

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FIGURE 133

Apollo Applications builds upon the strong base of flight experience, ground facilities, and trained manpower developed in past and current programs. Each mission is designed to take full advantage of the Apollo Saturn system to make significant contributions to a wide range of objectives. Missions are planned to concurrently gain experience, test theory, perform experiments, and collect data. By establishing multiple objectives for each flight mission, a program limited to a minimum economical launch rate can achieve rapid progress and make great gains at low cost. Planning includes the decision to use, modify, and expand present Apollo systems capabilities rather than move toward whole new developments, the strategy of reusing basic hardware for many missions by storing it in orbit and returning later with fresh crews and expendables, and the approach of designing experiments that will gather important data while at the same time testing the experimental concepts themselves.

The program of investigations and development to be carried forward in the Apollo Applications program will meet two basic objectives; to make unique contributions to practical applications, operational capabilities, science, and technology; and, at the same time, to place the nation in a position to assess, on the basis of valid scientific experimentation and actual experience, the value and feasibility of future space flight and the interrelated roles of manned and unmanned systems.

In support of these objectives, the principal areas toward which the fiscal year 1968 effort will be directed are the development of an extended flight capability, the conduct of manned astronomical and earth observations from space, and the continued exploration of the moon.

Specific program elements have been selected for initiation in FY 1967 and 1968 that, in combination, provide the greatest contribution to the Nation's space objectives at the lowest cost. These are:

The spent, orbiting 2nd stage of an uprated Saturn I will be converted into a habitable, 10,000 cubic foot orbital workshop. Provided with an airlock, the workshop will provide in 1968 an economical long duration manned shelter for many experimental activities and will be revisited and reused during the course of the program.

The support systems of the basic Apollo Command and Service Modules will be modified for long duration operations.

The Lunar Module will be modified to serve as a base for manned lunar investigations of up to two weeks.