

EXTRANEOUS MATERIAL DELETED

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WEAPONS



EXTRANEOUS MATERIAL DELETED

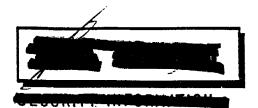
Operations Upshot and Knothole (Nevada, March to June 1953)

This series of full-scale weapon tests included 11 devices, two of which (Operation Knothole) were for the purposes of the DOD and the balance (Operation Upshot) for the Commission. As indicated in Table 1, the first shot of the Knothole series, on May 8, was for weapon-effects purposes; the second, on May 25, was an operational test of the artillery projectile fired from the 280-mm cannon.

The series of nine shots for the Commission was conducted primarily to further thermonuclear development and to provide experimental data on hollow implosion, external initiators, initiation with deuterium, and boosting with deuterium. (See Table 1.)

Future Tests

As an extensive test series, Operation Domino, originally scheduled for the fall of 1953 in Nevada, has been cancelled. This was made possible in large part by the addition of an eleventh shot at the end of the 10-shot series this spring. Full-scale fission- and thermonuclear-weapon tests have been scheduled to begin early in 1954 (Operation Castle) at Eniwetok. The schedule of future tests, as well as the respective participation in each by the Los Alamos Scientific Laborator; and the University of California Radiation Laboratory, is shown in Table 2.



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FULL-SCALE WEAPON TESTS

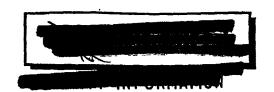
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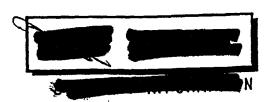
DOE ARCHIVES

WEAPON

Table 1 -- Operations Upshot-Knothole, Nevada Proving Grounds, March to June 1953

Shot No.	Date	Delivery	Height of burst, ft	Predicted yield, kt	Observed yield (preliminary), kt	Purpose of test
1	March 17	Tower	300	DELETER	16-18	DELETED
2	March 24	Tower	300		24 – 25	Trends and the state of the sta
3	March 31	Tower	300	BELETEL	0.2	And the state of t
4	April 6	Airdrop	6150 ± 200		About 11	BELETED
5	April 11	Tower	100	Man constald	0.2	The second secon
6	April 18	Tower	300	After the contrasting	22 – 28	A. Lake
7	April 25	Tower	300	The second secon	42 – 51	GELETED
8*	May 8	Airdrop	2420 ± 25	DELETED	About 26	
9	May 19	Tower	300	14. 115.4	About 32	Marine S.
10*	May 25	280-mm cannon	500 ± 100		About 15	- A-A
11	June 4	Airdrop	1150±150		64 ± 6	¥ in the second

^{*}Operation Knothole, conducted on Frenchman Flat.



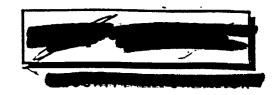


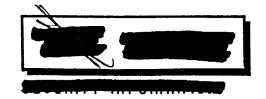
Table 2-Schedule of Full-scale Weapons Tests, 1953 to 1956

	Agency -	Date	Total No.	Scientific operations participation		
Test				No. of shots ar	d delivery	
Continental	:					
Teapot	AEC	Fall 1954 or Spring 1955	8	5, Tower; 1, Airdrop	1, Tower; 1, Airdrop	
Julep	AEC	Fall 1955 or Spring 1956	8	5, Tower; 1, Airdrop	1, Tower; 1, Airdrop	
Overseas						
Castle	AEC/DOD	Early 1954	6 or 7	1, Ground; 3, Barge	2, Ground	
Redwing	AEC/DOD	Spring 1955	4	3, Ground	1, Ground	
Wigwam	DOD	Spring 1955	1	1, Deep underwater test		
Hardtack	AEC/DOD	Spring 1956	4	3, Ground	1, Ground	

WEAPON PRODUCTION AND STOCKPILING

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