

United States Nuclear Tests

July 1945 through September 1992



U.S. Department of Energy,
National Nuclear Security Administration Nevada Field Office

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Front cover photos

Top: *Baker* was the third nuclear test conducted by the United States at Bikini Atoll on July 24, 1946. *Baker* was detonated underwater using a Mark 3 device similar to "Fat Man" with a yield of 21 kilotons. Visible in the spout are ships subjected to the effects of the underwater detonation.

Bottom left: *Grable* was the 42nd nuclear test conducted by the United States at the Nevada National Security Site on May 25, 1953. *Grable* was an airburst detonation fired from a 280 millimeter gun using a Mark 9 projectile, with a yield of 15 kilotons.

Bottom right: An aerial view of snow-covered Yucca Flat on the Nevada National Security Site. Visible are numerous subsidence craters that sometimes form when a collapse of the cavity created by an underground nuclear detonation continues all the way to the surface (more than 50 percent of the time).



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Prepared by the
U.S. Department of Energy,
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Introduction

This document lists chronologically and alphabetically by test name **all** nuclear detonations, regardless of nuclear yield (save those used in combat), conducted by the United States from July 1945 through September 1992.

Two nuclear weapons that the United States exploded over Japan ending World War II are not listed. These detonations were not “tests” in the sense that they were conducted to prove that the weapon would work as designed (as was the first test near Alamogordo, New Mexico, on July 16, 1945), or to advance nuclear weapon design, or to determine weapons effects, or to verify weapon safety, as were the more than 1,000 tests that have taken place since June 30, 1946.

The nuclear weapon (nicknamed “Little Boy”) dropped August 6, 1945, from a U.S. Army Air Forces B-29 bomber (the Enola Gay) and detonated over Hiroshima, Japan, had an energy-yield equivalent to that of 15,000 tons of TNT. The nuclear weapon (nicknamed “Fat Man” and similar to the “Trinity” device) exploded on August 9, 1945, over Nagasaki, Japan, had an energy-yield equivalent to that of 21,000 tons of TNT. Both detonations were intended to end World War II as quickly as possible.

Data on U.S. tests were obtained from, and verified by, the U.S. Department of Energy’s (DOE) three weapons laboratories—Los Alamos National Laboratory (LANL), Los Alamos, New Mexico; Lawrence Livermore National Laboratory (LLNL), Livermore, California; and Sandia National Laboratories (SNL), Albuquerque, New Mexico—and the Defense Threat Reduction Agency (DTRA). Additionally, data were obtained from public announcements issued by the Atomic Energy Commission (AEC) and its successors: the Energy Research and Development Administration (ERDA), and DOE, respectively.

Caveat

The information contained in this document was gleaned from multiple sources over time. Some of the data have been updated to reflect the most recent analyses conducted by the national weapons laboratories. When discrepancies were encountered, every attempt was made to use the most acceptable or verifiable information. In some instances, multiple spellings of test names were encountered, and the most commonly used name is included in this document (e.g., *Johnnie Boy* versus *Johnie Boy*). Once a “test” has been categorized as such, no attempt has been made to change its categorization based on the current definition of a “test” found in the 1990 Protocols to the 1974 Treaty on the Limitation of Underground Nuclear Weapons Tests (also known as the Threshold Test Ban Treaty) and the

1976 Treaty on Underground Nuclear Explosions for Peaceful Purposes (also known as the Peaceful Nuclear Explosions Treaty). For example, *Huron Landing* and *Diamond Ace* were conducted simultaneously on September 23, 1982, and were announced as individual tests. Based on the current definition of a “test,” they would be considered as “one test with two simultaneous detonations.”

Revision 16 Changes

Numerous changes have occurred since issuance of Revision 15 in December 2000, and a number of discrepancies were also discovered in the document. The Nevada Test Site was renamed the Nevada National Security Site (NNSS), and the Nellis Air Force Range is now the Nevada Test and Training Range (NTTR). Some reported parameters (e.g., latitude, longitude, and elevations) were found to be inaccurate, and there were requests to revise these elements. There was limited height of burst information in Revision 15 for the atmospheric nuclear tests, and this and other unclassified information was added. To make NV-209 an even more comprehensive reference document for U.S. nuclear tests, the following modifications were incorporated:

- Location coordinates were added to include all tests and were updated for accuracy.
- Height of burst or depth of burial were added for all detonations. (Height and depth values are from surface elevation to the working point of detonations.)
- Text paragraphs in the Introduction were expanded to cover additional related subjects (e.g., Plowshare tests in the *Treaties* section).
- Explanations for how some new or revised values were determined have been included.
- Inconsistencies (e.g., hole number designations, sponsor) and editorial errors were corrected.
- Figures and tables were revised for both comprehensiveness and editorial enhancements.
- A test reference column was added to the Detonations - By Name alphabetical listing (back section) to correlate between the Tests - By Date sequential tests/detonations listing (front section).
- Some test numbers were reordered to reflect the correct sequence of U.S. detonations.
- A symbol (‐) was added to depict underground detonations that resulted in a surface subsidence crater.
- Definitions for specific topics were added.

- Radionuclide release information was clarified and made consistent with the primary reference document on the subject (DOE, Nevada Operations Office [DOE/NV] publication *Radiological Effluents Released from U.S. Continental Tests 1961 through 1992*, DOE/NV-317).
- Information that was declassified subsequent to Revision 15 was added where relevant.
- Interesting facts were added to specific detonations as notes in the front sequential list of tests/detonations.

Detonation Times and Dates

Detonation time and date for all detonations listed in this document were converted from local time to Greenwich Mean Time (GMT). The date listed is the GMT date for the detonation. Times are given in the hundredth of a second where available; otherwise, a default value of 0.00 seconds is used.

Locations

The first test of a nuclear weapon was in the atmosphere on July 16, 1945, in a remote part of New Mexico on what was then the Alamogordo Bombing Range, now the White Sands Missile Range. The site is 55 miles northwest of Alamogordo, New Mexico.

The word “site” is defined as “the land area withdrawn for U.S. government testing purposes (e.g., NNSS, NTTR, Project Shoal) or the area secured to ensure no inadvertent public intrusion (e.g., Amchitka Island and Rulison test vicinity).” Almost all nuclear tests were conducted within an area withdrawn from public domain; however, this is not true for the Amchitka and Rulison underground nuclear tests, where no formal land withdrawal was recorded.

At various times between June 1946 and November 1962, atmospheric and underwater tests were conducted by the United States in the Marshall Islands (Bikini and Enewetak Atolls), Christmas Island, Johnston Atoll in the Pacific Ocean, and over the South Atlantic Ocean.

Between January 1951 and July 1962, atmospheric and underground nuclear tests were conducted at the NNSS.

Since June 1963, all nuclear tests conducted in the United States have been underground, and most of them have been at the NNSS. Some tests were conducted on the NTTR; in central and northwestern Nevada; in Colorado, New Mexico, and Mississippi; and on Amchitka, one of the Aleutian Islands off the Alaska coast.

Latitude and longitude locations are the surface ground zero location of the drill hole or other emplacement

location. Historical continental U.S. detonation coordinates were surveyed in the respective State Plane Coordinate systems using North American Datum 1927 and are precise to within 1 foot (ft). The coordinates were mathematically converted to the World Geodetic System 1984 reference model to be more consistent with modern surveying standards involving Global Positioning Systems (GPS). However, these conversions have known limitations; see <http://www.ngs.noaa.gov/TOOLS/Nadcon/Nadcon.shtml>.

All coordinates are presented in decimal degrees to six decimal places, indicating accuracies of better than 1 ft. Accuracy validation was not conducted on each individual detonation coordinate.

The following assumptions were made regarding horizontal GPS coordinates:

- Underground (tunnel and borehole) detonations on the NNSS are assumed to be accurate to 1–2 ft.
- Stationary (towers and surface platforms) atmospheric detonations on the NNSS and at other locations within the United States were assumed to be accurate to within 5 ft.
- Atmospheric detonations conducted from dynamic platforms within the United States (e.g., dropped from airplanes, suspended from balloons) are assumed to be accurate to within 10 ft.
- Detonations conducted at low elevations in the Pacific are assumed to be accurate to within 100 ft.

The following assumptions were made regarding surface elevation data (above sea level):

- Atmospheric detonations conducted on static platforms are assumed to be accurate to within 5 ft.
- Underground detonations are assumed to be accurate to within 1 ft.
- Barge and underwater detonations are assumed to be accurate to within 5 ft.
- Detonations conducted above or below the ocean surface were assigned a surface elevation of zero (0).

The following assumptions were made regarding height of burst, depth of burial, or depth underwater:

- Underground, underwater, and stationary atmospheric detonations are assumed to be accurate to within 5 ft.
- The distinction between surface and tower tests was set at 10 ft above the ground surface (see *Glossary*).
- For atmospheric tests conducted on dynamic platforms, the height of burst (when given) is assumed to be accurate to within 100 ft.

Moratorium

On October 31, 1958, the United States entered into a unilateral testing moratorium announced by President Dwight D. Eisenhower with the understanding that the Soviet Union also would refrain from conducting tests. The Soviet Union resumed testing in September 1961 with a series of the largest number of tests ever conducted.

On September 15, 1961, the United States resumed testing at the NNSS on a year-round basis.

On October 2, 1992, the United States entered into another unilateral moratorium on nuclear weapons testing announced by President George H.W. Bush. President Bill Clinton extended this moratorium in July 1993, and again in March 1994 until September 1995.

On August 11, 1995, President Clinton announced the decision to negotiate a comprehensive nuclear test ban treaty while continuing the cessation of nuclear testing by the United States.

On September 24, 1996, President Clinton signed the Comprehensive Nuclear Test Ban Treaty, which prohibits "any nuclear weapons test explosion" by any State Party. This treaty has not been ratified by Congress and is therefore not legally binding. (See *Treaties*.)

Purposes of U.S. Tests

Past tests have been described as being for one of six purposes: *Joint US-UK*, *Plowshare*, *Safety Experiment*, *Vela Uniform*, *Weapons Effects*, and *Weapons Related*. Revision 15 contained an additional purpose: *Storage-Transportation*. However, this was removed, as these tests were also *Joint US-UK*.

With the declassification of all previous simultaneous detonations, purpose is now attributed to each detonation. Weapons-related tests were conducted to gather data on nuclear devices; weapons-effects tests were conducted, usually by the U.S. Department of Defense (DoD), to determine the effects of nuclear detonations on military offensive and defensive systems; and tests conducted for the United Kingdom (UK) are shown as "Joint US-UK." Individual tests/detonations could have different or multiple purposes. The purpose listed is considered the primary.

Radiological Effluents Released from Nuclear Detonations

Unless otherwise noted, all nuclear tests at the NNSS or NTTR before September 15, 1961, produced radioactivity detected offsite. (See *Glossary* for definition of "offsite.") All tests before this date precede the testing moratorium that began October 31, 1958.

Unless otherwise noted, no test at the NNSS or NTTR on or after September 15, 1961, had a release of radioactivity that was detected offsite. The release of radioactivity from a test can occur

- accidentally as a result of a containment failure,
- accidentally or deliberately as a result of post-test operations (e.g., drillback, gas sampling, cementback), or
- deliberately as a result of post-test controlled purging of gases generally from a tunnel.

All releases resulting from a containment failure, even if not detected offsite, are reported. Radiation releases resulting from tunnel purging or normal operations are reported in this document regardless whether they were detected offsite or onsite only. These releases are listed in the DOE/NV publication *Radiological Effluents Released from U.S. Continental Tests 1961 through 1992*, DOE/NV-317.

Seismic Source Data

Detonation times and locations (latitude, longitude, and surface elevation) are included and are intended for use in the calibration of seismic stations that are part of the International Monitoring System called for in the 1996 Comprehensive Nuclear Test Ban Treaty.

Detonation time and location of past underground nuclear detonations are ideal quantities for calibrating a seismic network for accurate location of a new source. This ground truth information can be used, for example, to refine seismic velocity models and to determine station corrections for parts of North America.

Those detonations that could be especially valuable for International Monitoring System calibration are identified with **boldface** type. Included in this subgroup are 8 detonations that took place somewhere other than the NNSS and 14 that occurred at the NNSS. These 14 were selected because they

- occurred within the last 5 years of testing, therefore increasing the chance that the detonations were recorded on modern seismograph systems;
- are well distributed about the NNSS to include at least two from each of the major test regions (e.g., Pahute Mesa, Rainier Mesa, and Yucca Flat);
- are relatively large, allowing recording on multiple instruments; or
- were the subject of special study.

The seismic source data for underground nuclear detonations was gathered from all available official sources, including reports by DOE, its predecessors and contractors, and the Defense Nuclear Agency (DNA). All

reasonable effort has been expended to ensure the greatest possible accuracy of this seismic data.

Time calibrations are obtained from the National Institute of Standards and Technology WWV radio stations. Tests were typically planned to be detonated on the exact hour, minute, or second. However, the firing systems always introduce some delay so that the actual detonation time could be as much as 150 milliseconds later than intended. When information on this delay is available, detonation times are given to the nearest 0.01 second, uncorrected for WWV propagation; otherwise, a default value of 0.00 is given.

Series

Each series of tests is given a name, such as *Operation Crossroads*. U.S. nuclear tests were conducted on an intermittent basis from June 1946 to October 1958.

On September 15, 1961, when the United States resumed testing at the NNSS on a year-round basis with Operation Nougat, tests were grouped for fiscal and reporting purposes according to the fiscal year in which they took place. For example, fiscal year 1963 tests—which began July 1, 1962, and extended through June 30, 1963—were in the Operation Storax series.

Between April and November 1962, the United States conducted Operation Dominic, which included the DoD Operation Fishbowl high-altitude tests in the Pacific. The DoD also conducted four weapons-effects tests at the NNSS in July 1962 as Operation Sunbeam.

In 1976, the federal government changed the fiscal year to begin on October 1 and end on September 30. Accordingly, the fiscal year 1976 series (Operation Anvil) did not end on June 30 but was extended through September 30, 1976—a period of 15 months.

Treaties

On August 5, 1963, the United States and the Soviet Union signed the Limited Test Ban Treaty, which effectively banned testing of nuclear weapons in the atmosphere, oceans, and space. This treaty entered into force on October 10, 1963.

On July 1, 1968, the United States, the Soviet Union, and 60 other countries signed the Treaty on the Non-Proliferation of Nuclear Weapons (also known as the Nuclear Nonproliferation Treaty). This treaty entered into force on March 5, 1970, and represents the only binding commitment in a multilateral treaty to the goal of disarmament by the nuclear-weapon states.

On July 3, 1974, the United States and the Soviet Union signed the Threshold Test Ban Treaty, restricting all

underground nuclear test explosions to yields no greater than 150 kilotons (kt). On May 28, 1976, the nations also signed the Peaceful Nuclear Explosions Treaty, which stemmed from Article III of the Threshold Test Ban Treaty and restricts individual peaceful nuclear explosions to yields no greater than 150 kt. These treaties entered into force on December 11, 1990.

Discussion on peaceful uses for nuclear explosions began in the mid-1950s and culminated in a formal Plowshare Program under the Division of Military Application in June 1957. This program was publicly announced on June 6, 1958. No Plowshare nuclear detonations took place until December 10, 1961, (*Gnome*) due to a moratorium on nuclear testing; however, many plans and experiments using non-nuclear detonations were conducted during the period. From late 1961 through mid-1973, the United States conducted 27 Plowshare nuclear tests, including 36 individual nuclear device detonations. Additionally, there were several more tests listed as “weapons related” that were also related to Plowshare explosives. The Plowshare Program was discontinued at the end of 1975 due to economic and environmental concerns,

The Joint Verification Experiment was conducted in 1988 by the United States and the Soviet Union as a prelude to the signing of the 1990 Protocols to the Threshold Test Ban Treaty and the Peaceful Nuclear Explosion Treaty. Proposed treaty verification techniques and measurements were employed on the *Kearsarge* test conducted by the United States on August 17, 1988, at the NNSS; and on the *Shagan* test conducted by the Soviet Union on September 14, 1988, at the Semipalatinsk Test Site.

In May 1995, the United Nations reached consensus and indefinitely extended the Nuclear Nonproliferation Treaty. This action was a priority for the U.S. arms control agenda and critical to proceeding with a test ban treaty. On August 11, 1995, President Clinton announced the decision to negotiate a comprehensive nuclear test ban treaty while continuing the cessation of nuclear testing by the United States.

Even though President Clinton signed the Comprehensive Nuclear Test Ban Treaty on September 24, 1996, DOE has been directed to maintain an underground test readiness program in case it is in the “supreme national interest” to resume nuclear weapons testing.

Types and Purposes

The definition of terms used in this document appears in the *Glossary*. *Type* refers to the method of deployment of the nuclear device at time of detonation, such as *tower*, *tunnel*, or *airdrop*.

Purpose indicates whether the test was part of the weapons development program, a DoD effects test, a Joint US-UK test, or was part of some special program that involved the use of nuclear devices. In the *Summary*, the sum of all tests conducted underground (*tunnel*, *shaft*, and *crater*) appears as *Total Underground*. With the exception of five underwater tests, the remaining tests appear as *Total Atmospheric*.

Yields

The nomenclature for test yields varied according to information policy governing specific years. In some cases, no yield information has been released; in a few cases, the terms "very slight" and "slight" were used without amplification. For completeness, even underground nuclear detonations with little or no nuclear yield have been included. Except for tests where specific yields or relative specific yields such as "about 2 kt," "several Mt," or "less than 0.1 kt" were announced, test yields are given in these terms:

1945 through 1963

- Low (less than 20 kt)
- Intermediate (20 to 200 kt)
- Submegaton (less than 1 Mt, but more than 200 kt)
- Low Megaton (from 1 to several Mt)
- Megaton Range

1964 through February 1976

- Less than 20 kt
- 20 to 200 kt
- 200 to 1,000 kt

March 1976

During a series of high-yield tests conducted during this month, two ranges were added, and the 200 to 1,000 kt range was dropped.

- 200 to 500 kt
- 500 to 1,000 kt

Since March 1976

On March 31, 1976, the United States and the Soviet Union agreed to limit the maximum yield of underground tests to 150 kt.

- Less than 20 kt
- Less than 150 kt
- 20 to 150 kt

Joint Verification Experiment

Data exchanges provided for in the Protocol to the 1974 Threshold Test Ban Treaty required the exchange of historic explosion data on five detonations with yields within the 100 to 150 kt range. Under the Joint Verification Experiment of 1988, this yield range was added. However, this yield range now applies only to *Kearsarge*; the other detonations now have specified yields.

- 100 to 150 kt

Notes on Research

When using NV-209 as a research tool, there are a few hints and tricks that can develop better results. When researching a particular test, using names of locations and institutions at the date of the test often results in more and better data. The reason for this is that many archives and library databases have not been updated with current affiliations. For example, searching for "LASL" instead of "LANL" will often give different results in computer searches.

Some key dates and institutions that are particularly important for use with NV-209 are as follows:

Test Areas

- Site Mercury
1950–1951
- Nevada Test Site (NTS)
1951–1952
- Nevada Proving Ground
1952–1954
- NTS
1955–2010
- Nevada National Security Site (NNSS)
2010–present

Federal Agencies

- Atomic Energy Commission (AEC)
1946–1974
- Energy Research and Development Administration (ERDA) 1974–1977
- U.S. Department of Energy (DOE)
1977–2001
- DOE/National Nuclear Security Administration (NNSA) 2001–present

Laboratories

- Los Alamos (Manhattan Engineering District)
1943–1947
- Los Alamos Scientific Laboratory (LASL)
1947–1980
- Los Alamos National Laboratory (LANL)
1980–present
- University of California Radiation Laboratory (RL)
1952–1958
- Lawrence Radiation Laboratory (LRL)
1958–1971
- Lawrence Livermore Laboratory (LLL)
1971–1980
- Lawrence Livermore National Laboratory (LLNL)
1980–present

DTRA is another agency that is not specifically cited in NV-209 but is very relevant to nuclear testing. It, too, has had numerous name changes over the years, and associating the date of the test with the correct agency name will often give better research results.

- Armed Forces Special Weapons Project (AFSWP)
1947–1959
- Defense Atomic Support Agency (DASA)
1959–1971
- Defense Nuclear Agency (DNA)
1971–1996
- Defense Special Weapons Agency (DSWA)
1996–1998
- Defense Threat Reduction Agency (DTRA)
1998–present

One last hint to aid in research: Although the tests are listed by GMT, using local time will often assist in identifying details in associated photographs. Before 1966, time information is even more confusing, as there was no standard on the use of Daylight Saving Time. Many of the early tests were conducted at sunrise; thus, an hour or two difference can make a substantial difference in ambient lighting when trying to identify unknown photographs.

Table 1 - U.S. Nuclear Tests — Total — By Calendar Year

Calendar Year	US	US-UK
CY1945	1	0
CY1946	2	0
CY1947	0	0
CY1948	3	0
CY1949	0	0
CY1950	0	0
CY1951	16	0
CY1952	10	0
CY1953	11	0
CY1954	6	0
CY1955	18	0
CY1956	18	0
CY1957	32	0
CY1958	77	0
CY1959	0	0
CY1960	0	0
CY1961	10	0
CY1962	96	2
CY1963	43	4
CY1964	45	2
CY1965	38	1
CY1966	48	0
CY1967	42	0
CY1968	56	0

Calendar Year	US	US-UK
CY1969	46	0
CY1970	39	0
CY1971	24	0
CY1972	27	0
CY1973	24	0
CY1974	22	1
CY1975	22	0
CY1976	20	1
CY1977	20	0
CY1978	19	2
CY1979	15	1
CY1980	14	3
CY1981	16	1
CY1982	18	1
CY1983	18	1
CY1984	18	2
CY1985	17	1
CY1986	14	1
CY1987	14	1
CY1988	15	0
CY1989	11	1
CY1990	8	1
CY1991	7	1
CY1992	6	0

Total US Tests	1,026
Total US-UK	<u>28</u>
TOTAL TESTS	1,054

NOTE: Totals do not include two combat uses of nuclear weapons, which are not considered “tests.”
The first combat detonation was a 15-kt weapon airdropped August 6, 1945, at Hiroshima, Japan.
The second was a 21-kt weapon airdropped August 9, 1945, at Nagasaki, Japan.

Table 2 - U.S. Nuclear Tests — Total — By Type

Type	US	US-UK
Airburst	1	0
Airdrop	52	0
Balloon	25	0
Barge	36	0
Rocket	12	0
Surface	24	4
Tower	56	0
Total Atmospheric	206	4
Crater	9	0
Shaft	739	24
Tunnel	67	0
Total Underground	815	24
Total Underwater	5	0
TOTAL TESTS	1,026	28

Table 3 - U.S. Nuclear Tests — Total — By Location

Location	US	US-UK
Total South Atlantic	3	0
Bikini Atoll	23	0
Christmas Island	24	0
Enewetak Atoll	43	0
Johnston Island	12	0
Pacific	4	0
Total Pacific	106	0
near Alamogordo, New Mexico	1	0
Amchitka Island, Alaska	3	0
near Carlsbad, New Mexico	1	0
Central Nevada	1	0
near Fallon, Nevada	1	0
near Farmington, New Mexico	1	0
near Parachute, Colorado	1	0
near Hattiesburg, Mississippi	2	0
Nevada Test and Training Range	1	4
near Meeker, Colorado	1	0
Total Other	13	4
Atmospheric	100	0
Underground	804	24
Total NNSS	904	24
TOTAL TESTS	1,026	28

Table 4 - U.S. Nuclear Tests/Detonations — Total — By Location

A **test** is defined in the Threshold Test Ban Treaty as either a *single underground nuclear explosion* (detonation) conducted at a test site, or *two or more underground nuclear explosions* (detonations) conducted within an area delineated by a circle having a diameter of 2 kilometers (1.24 miles) and conducted within a total period of time not to exceed 0.1 second. Sixty-three of the 1,054 nuclear tests conducted by the United States consisted of more than one underground nuclear explosion (detonation).

Nevada National Security Site - 62 tests had simultaneous detonations
 Rifle, Colorado - 1 test had a simultaneous detonation

Location	Number of Tests	Number of Detonations
Total South Atlantic	3	3
Bikini Atoll	23	23
Christmas Island	24	24
Enewetak Atoll	43	43
Johnston Island	12	12
Pacific	4	4
Total Pacific	106	106
near Alamogordo, New Mexico	1	1
Amchitka Island, Alaska	3	3
near Carlsbad, New Mexico	1	1
Central Nevada	1	1
near Fallon, Nevada	1	1
near Farmington, New Mexico	1	1
near Parachute, Colorado	1	1
near Hattiesburg, Mississippi	2	2
Nevada Test and Training Range	5	5
near Meeker, Colorado	1	3
Total Other	17	19
Atmospheric	100	100
Underground	828	921
Total NNSS	928	1,021
TOTAL	1,054	1,149

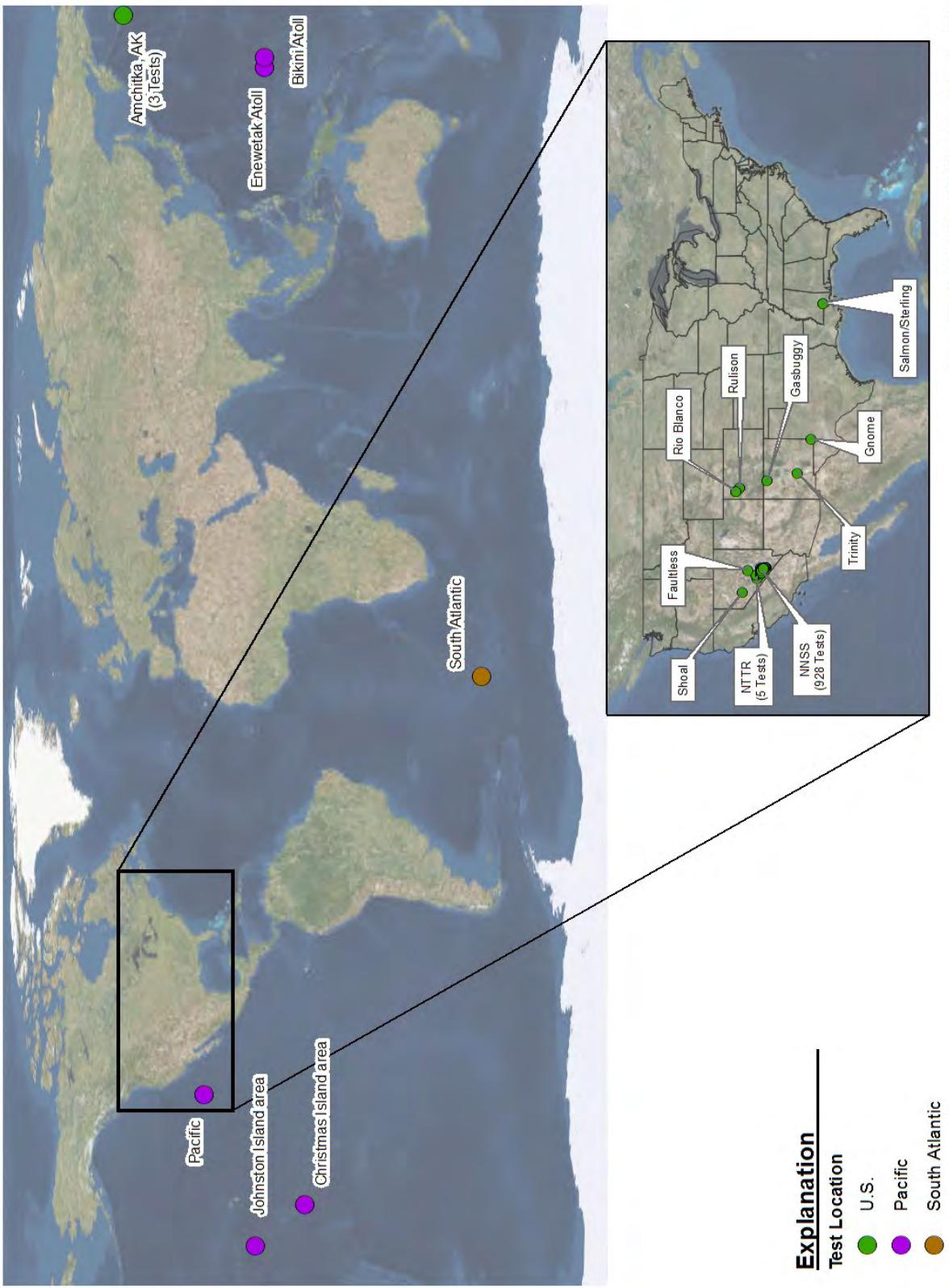


Figure 1. U.S. Nuclear Test Locations – NNSS and Other

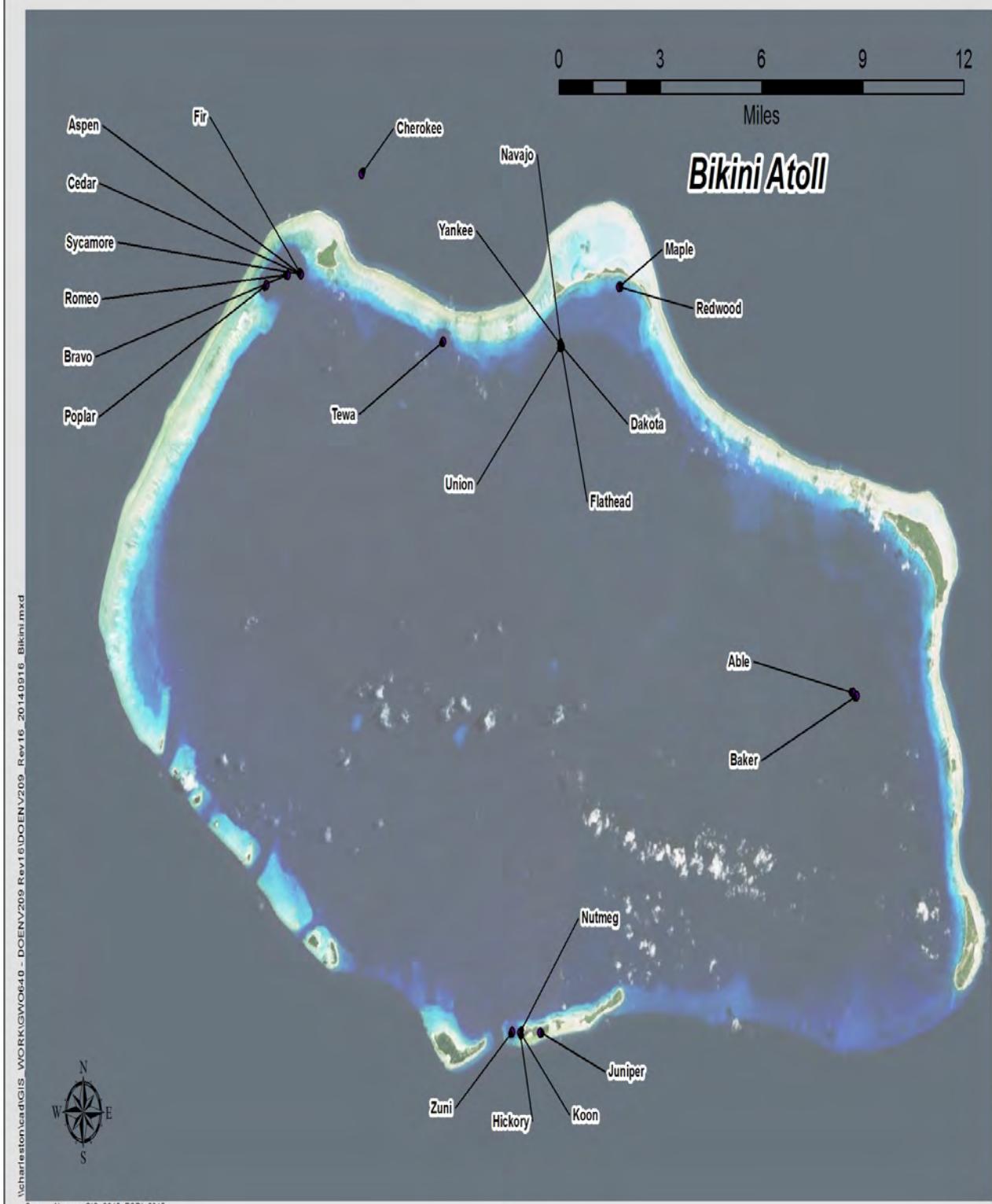


Figure 2. U.S. Nuclear Test Locations – Bikini Atoll

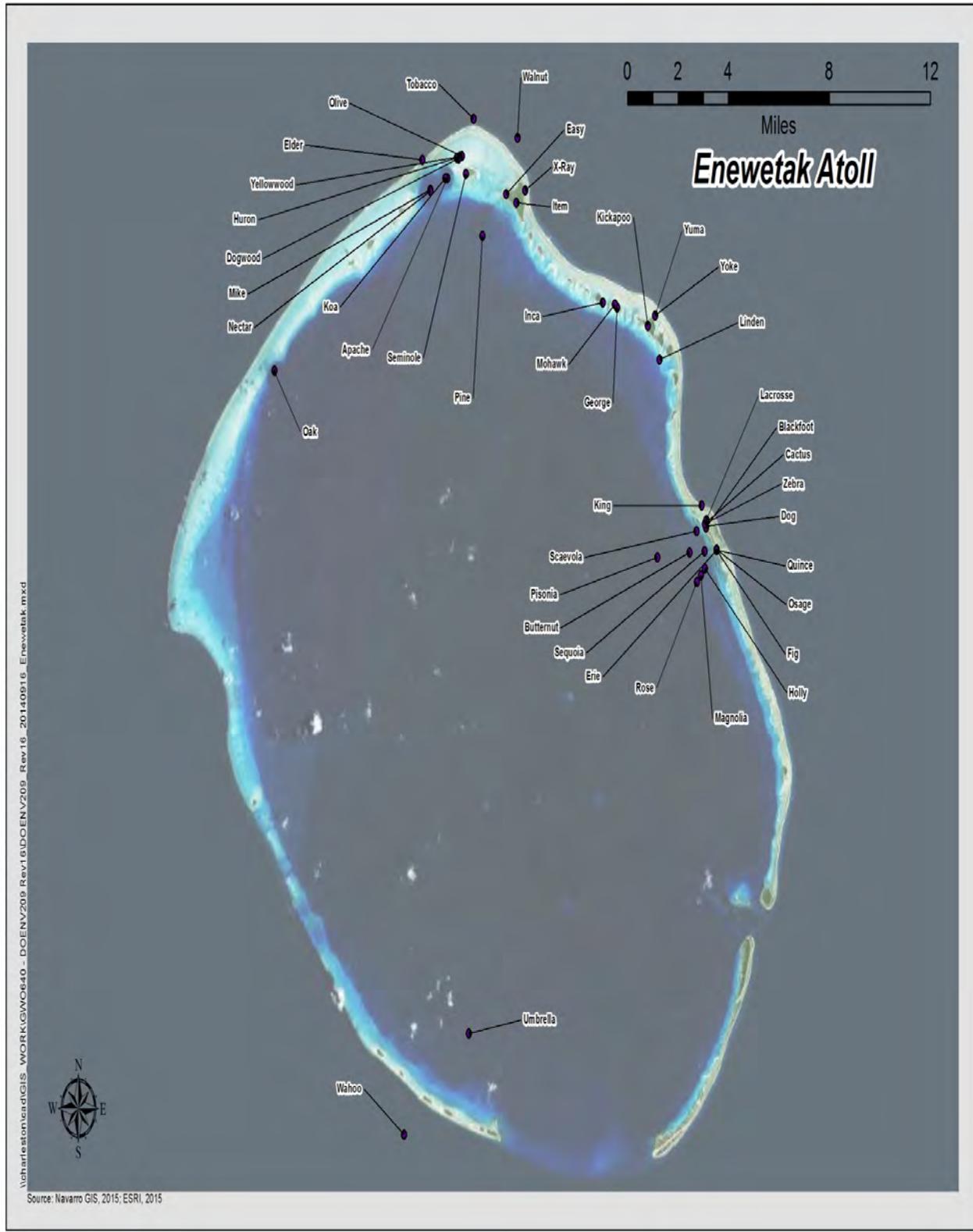


Figure 3. U.S. Nuclear Test Locations – Enewetak Atoll

Table 5 - U.S. Nuclear Detonations — Total — By Purpose

Purpose	Detonations
Joint US-UK	28*
Plowshare	36
Safety Experiment	88
Vela Uniform	7
Weapons Effects	100
Weapons Related	890
TOTAL DETONATIONS	1,149

* Four of the Joint US-UK tests were storage-transportation tests conducted on the Nevada Test and Training Range.



Priscilla was a test conducted on June 24, 1957, at the NNSS. It was a balloon, weapons related test that produced a yield of 37 kt.



Barnwell was a test conducted on December 8, 1989, underground at Pahute Mesa on the NNSS. *Barnwell* was a Joint US-UK test with a yield of 20 to 150 kt. Shown at right is the diagnostic rack ready for lowering down the emplacement hole.



Diamond Sculls was a test conducted on July 20, 1972, in a tunnel at Rainier Mesa on the NNSS. *Diamond Sculls* was a weapons effects test where the radiation from the detonation traveled 2,000 ft down a tapered horizontal line-of-sight pipe to the test chambers (shown above), which were 27 ft in diameter. Fast-closure doors in the pipe stopped flying debris after the radiation went by and protected the experiments from debris-impact damage.



Cannikin was a test conducted on November 6, 1971, at Amchitka Island, Alaska, one of the westernmost islands on the Aleutian Islands chain. *Cannikin* was a weapons related test of the W71 Spartan missile warhead. With a yield of less than 5 Mt, *Cannikin* is the largest underground detonation conducted by the United States and is important from a seismic data perspective.



Handley was conducted on March 26, 1970, in hole U20m in the northwestern part of the NNSS. The test yield was more than 1 Mt, one of the largest detonations conducted at the NNSS. The downhole emplacement of the *Handley* device and diagnostics rack is shown above.



Sedan crater was formed when a 104-kt explosion buried under 635 ft of desert alluvium was fired at the NNSS on July 6, 1962, displacing 12 million tons of earth. The crater is 320 ft deep and 1,280 ft in diameter.



Project 56 No. 4 was a test conducted on January 18, 1956, in Area 11 on the NNSS. *Project 56 No. 4* was a safety experiment with a yield of 1 ton. Part of the experiment included acquiring data about plutonium dispersal under conditions related to detonations where there could be little to no yield.

**Table 6 - U.S. Nuclear Tests/Detonations Conducted
on the Nevada National Security Site — By Area**

Area on the NNSS	Number of Tests	Number of Detonations
1	8	9
2	144	169
3	266	288
4	40	44
5	19	19
6	4	6
7	92	92
8	13	15
9	115	133
10	57	71
11	9	9
12	61	62
15	3	3
16	6	6
18	5	5
19	36	36
20	49	49
30	1	5
TOTAL	928	1,021

Test Regions on the NNSS	
Region	Area(s) on the NNSS (see Figure 4)
Buckboard Mesa	18
Frenchman Flat	5, 11
Pahute Mesa	19, 20
Rainier Mesa	12
Mine Mountain	16
Timber Mountain	30
Yucca Flat	1, 2, 3, 4, 6, 7, 8, 9, 10, 15

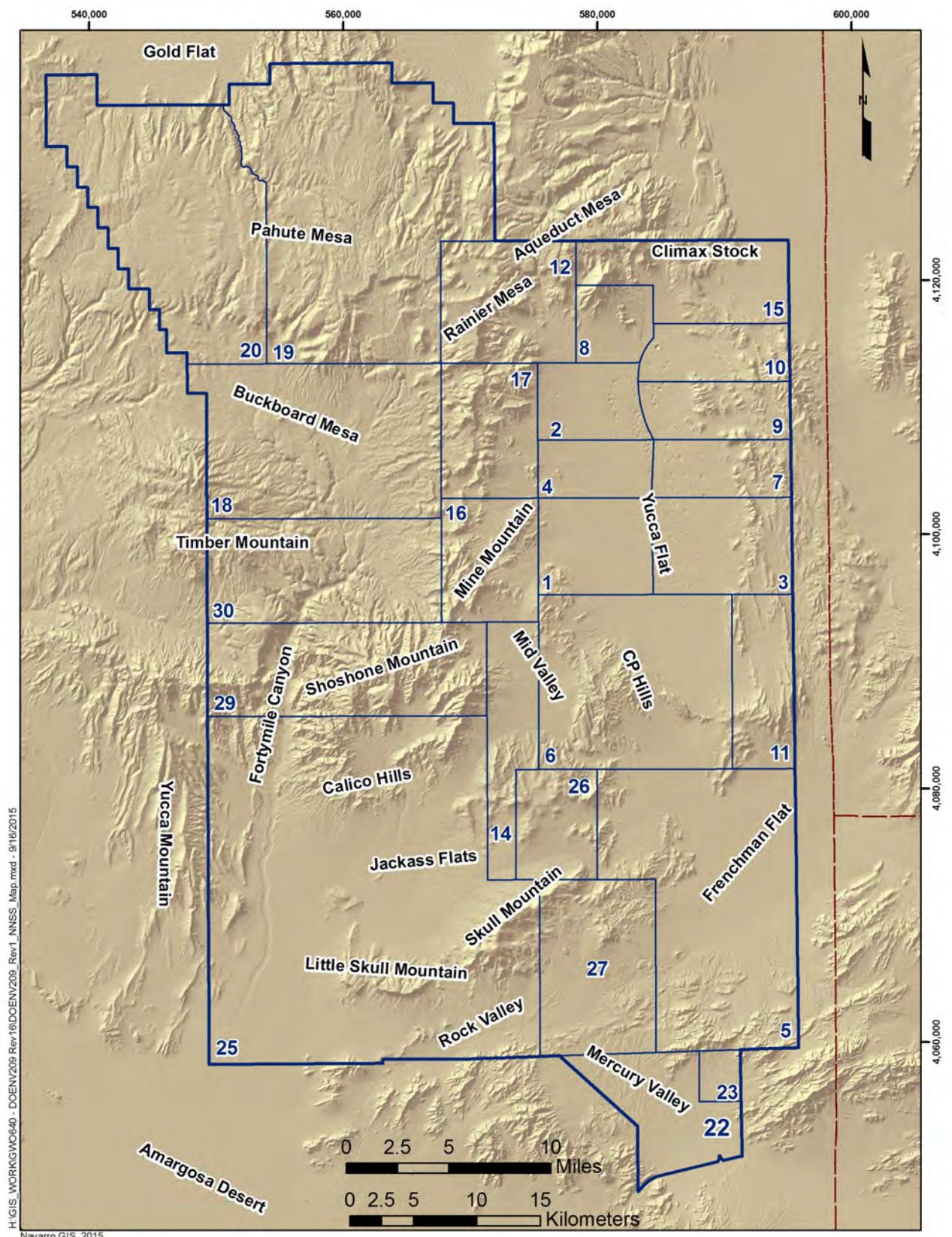


Figure 4. U.S. Nuclear Test Locations – Areas on the NNSS

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U.S. Nuclear Tests – By Date

U.S. Nuclear Tests - By Date							July 1945 through September 1992							
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
1	Trinity First test of a nuclear weapon ("Fat Man") Plutonium as sole fissile material	07/16/1945	LANL	near Alamogordo, New Mexico	-----	Tower	12:29:00.00	33.677280	-106.475378	4,624	100	Weapons Related	21 kt	1
Operation Crossroads							Operation Crossroads							
2	Able Plutonium as sole fissile material Mark 3 device similar to "Fat Man"	06/30/1946	LANL/DoD	Bikini Atoll	-----	Airdrop	22:00:00.00	11.590000	165.516700	0	523	Weapons Effects	21 kt	2
3	Baker Plutonium as sole fissile material Mark 3 device similar to "Fat Man"	07/24/1946	LANL/DoD	Bikini Atoll	-----	Underwater	21:35:00.00	11.589200	165.518200	0	-90	Weapons Effects	21 kt	3
Operation Sandstone							Operation Sandstone							
4	X-Ray	04/14/1948	LANL	Enewetak Atoll	-----	Tower	18:17:00.00	11.665300	162.234000	0	200	Weapons Related	37 kt	4
5	Yoke	04/30/1948	LANL	Enewetak Atoll	-----	Tower	18:09:00.00	11.619410	162.313825	0	200	Weapons Related	49 kt	5
6	Zebra	05/14/1948	LANL	Enewetak Atoll	-----	Tower	18:04:00.00	11.551450	162.348100	10	200	Weapons Related	18 kt	6
Operation Ranger							Operation Ranger							
7	Able	01/27/1951	LANL	NNSS	Area 5	Airdrop	13:45:00.00	36.805100	-115.950200	3,140	1,060	Weapons Related	1 kt	7
8	Baker	01/28/1951	LANL	NNSS	Area 5	Airdrop	13:52:00.00	36.805100	-115.950200	3,140	1,080	Weapons Related	8 kt	8
9	Easy	02/01/1951	LANL	NNSS	Area 5	Airdrop	13:47:00.00	36.805100	-115.950200	3,140	1,080	Weapons Related	1 kt	9
10	Baker-2	02/02/1951	LANL	NNSS	Area 5	Airdrop	13:49:00.00	36.805100	-115.950200	3,140	1,100	Weapons Related	8 kt	10
11	Fox	02/06/1951	LANL	NNSS	Area 5	Airdrop	13:47:00.00	36.805100	-115.950200	3,140	1,435	Weapons Related	22 kt	11
Operation Greenhouse							Operation Greenhouse							
12	Dog	04/07/1951	LANL	Enewetak Atoll	-----	Tower	18:34:00.00	11.551866	162.347893	10	300	Weapons Related	81 kt	12
13	Easy	04/20/1951	LANL	Enewetak Atoll	-----	Tower	18:27:00.00	11.665400	162.233800	10	300	Weapons Related	47 kt	13
14	George First thermonuclear test explosion	05/08/1951	LANL	Enewetak Atoll	-----	Tower	21:30:00.00	11.624300	162.303900	10	200	Weapons Related	225 kt	14
15	Item First test of the boosting principle	05/24/1951	LANL	Enewetak Atoll	-----	Tower	18:17:00.00	11.669300	162.241500	10	200	Weapons Related	45.5 kt	15
Operation Buster							Operation Buster							
16	Able Radioactivity not detected offsite	10/22/1951	LANL	NNSS	Area 7	Tower	14:00:00.00	37.083250	-116.024700	4,169	100	Weapons Related	Less than 0.1 kt	16
17	Baker	10/28/1951	LANL	NNSS	Area 7	Airdrop	15:20:00.00	37.084950	-116.021125	4,193	1,118	Weapons Related	3.5 kt	17
18	Charlie	10/30/1951	LANL	NNSS	Area 7	Airdrop	15:00:00.00	37.084950	-116.021250	4,193	1,132	Weapons Related	14 kt	18
19	Dog	11/01/1951	LANL	NNSS	Area 7	Airdrop	15:30:00.00	37.084550	-116.020850	4,193	1,417	Weapons Related	21 kt	19
20	Easy	11/05/1951	LANL	NNSS	Area 7	Airdrop	16:30:00.00	37.091900	-116.025300	4,224	1,314	Weapons Related	31 kt	20
Operation Jangle							Operation Jangle							
21	Sugar	11/19/1951	LANL/DoD	NNSS	Area 9	Surface	17:00:00.00	37.131467	-116.039417	4,215	4	Weapons Effects	1.2 kt	21
22	Uncle First underground test at the NNSS	11/29/1951	LANL/DoD	NNSS	U10 Uncle	Crater	20:00:00.00	37.169792	-116.043312	4,299	-17	Weapons Effects	1.2 kt	22
Operation Tumbler-Snapper							Operation Tumbler-Snapper							
23	Able	04/01/1952	LANL/DoD	NNSS	Area 5	Airdrop	17:00:00.00	36.797966	-115.936418	3,077	793	Weapons Effects	1 kt	23

U.S. Nuclear Tests - By Date							July 1945 through September 1992							
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Tumbler-Snapper – Continued							Operation Tumbler-Snapper – Continued							
24	Baker	04/15/1952	LANL/DoD	NNSS	Area 7	Airdrop	17:30:00.00	37.084120	-116.020306	4,193	1,109	Weapons Effects	1 kt	24
25	Charlie	04/22/1952	LANL/DoD	NNSS	Area 7	Airdrop	17:30:00.00	37.084400	-116.021143	4,193	3,447	Weapons Related	31 kt	25
26	Dog	05/01/1952	LANL	NNSS	Area 7	Airdrop	16:30:00.00	37.084120	-116.021140	4,193	1,040	Weapons Related	19 kt	26
27	Easy	05/07/1952	LANL	NNSS	Area 1	Tower	12:15:00.00	37.053040	-116.103504	4,329	300	Weapons Related	12 kt	27
28	Fox	05/25/1952	LANL	NNSS	Area 4	Tower	12:00:00.00	37.095488	-116.103616	4,309	300	Weapons Related	11 kt	28
29	George	06/01/1952	LANL	NNSS	Area 3	Tower	11:55:00.00	37.095488	-116.103616	4,028	300	Weapons Related	15 kt	29
30	How	06/05/1952	LANL	NNSS	Area 2	Tower	11:55:00.00	37.138372	-116.118258	4,492	300	Weapons Related	14 kt	30
Operation Ivy							Operation Ivy							
31	Mike Experimental thermonuclear device	10/31/1952	LANL	Enewetak Atoll	----	Surface	19:15:00.00	11.667000	162.189900	10	7	Weapons Related	10.4 Mt	31
32	King Largest fission device	11/15/1952	LANL	Enewetak Atoll	----	Airdrop	23:30:00.00	11.558800	162.345400	0	1,480	Weapons Related	500 kt	32
Operation Upshot-Knothole							Operation Upshot-Knothole							
33	Annie	03/17/1953	LANL	NNSS	Area 3	Tower	13:20:00.00	37.095488	-116.103616	4,026	300	Weapons Related	16 kt	33
34	Nancy	03/24/1953	LANL	NNSS	Area 4	Tower	13:10:00.00	37.095488	-116.103616	4,309	300	Weapons Related	24 kt	34
35	Ruth	03/31/1953	LLNL	NNSS	Area 7	Tower	13:00:00.00	37.085291	-116.022137	4,000	305	Weapons Related	200 tons	35
36	Dixie	04/06/1953	LANL	NNSS	Area 7	Airdrop	15:30:00.00	37.084604	-116.020654	4,025	6,022	Weapons Related	11 kt	36
37	Ray	04/11/1953	LLNL	NNSS	Area 4	Tower	12:45:00.00	37.098891	-116.093345	4,026	100	Weapons Related	200 tons	37
38	Badger	04/18/1953	LANL	NNSS	Area 2	Tower	12:35:00.00	37.138372	-116.118258	4,491	300	Weapons Related	23 kt	38
39	Simon	04/25/1953	LANL	NNSS	Area 1	Tower	12:30:00.00	37.053040	-116.103504	4,239	300	Weapons Related	43 kt	39
40	Encore	05/08/1953	LANL/DoD	NNSS	Area 5	Airdrop	15:30:00.00	36.797923	-115.929776	3,077	2,423	Weapons Effects	27 kt	40
41	Harry	05/19/1953	LANL	NNSS	Area 3	Tower	12:05:00.00	37.040342	-116.026241	4,006	300	Weapons Related	32 kt	41
42	Grable Fired from 280mm gun Test of the Mk9 nuclear weapon	05/25/1953	LANL	NNSS	Area 5	Airburst	15:30:00.00	36.797923	-115.929776	3,077	524	Weapons Related	15 kt	42
43	Climax	06/04/1953	LANL	NNSS	Area 7	Airdrop	11:15:00.00	37.087549	-116.019208	4,025	1,334	Weapons Related	61 kt	43
Operation Castle							Operation Castle							
44	Bravo Experimental thermonuclear device Highest-yield U.S. nuclear test	02/28/1954	LANL	Bikini Atoll	----	Surface	18:45:00.00	11.697130	165.274200	10	7	Weapons Related	15 Mt	44
45	Romeo	03/26/1954	LANL	Bikini Atoll	----	Barge	18:30:00.00	11.697130	165.274200	0	7	Weapons Related	11 Mt	45
46	Koon	04/06/1954	LLNL	Bikini Atoll	----	Surface	18:20:00.00	11.503166	165.369450	10	14	Weapons Related	110 kt	46
47	Union	04/25/1954	LANL	Bikini Atoll	----	Barge	18:05:00.00	11.679000	165.391500	0	7	Weapons Related	6.9 Mt	47
48	Yankee	05/04/1954	LANL	Bikini Atoll	----	Barge	18:10:00.00	11.679000	165.391500	0	7	Weapons Related	13.5 Mt	48
49	Nectar	05/13/1954	LANL	Enewetak Atoll	----	Barge	18:20:00.00	11.666600	162.190000	0	7	Weapons Related	1.69 Mt	49
Operation Teapot							Operation Teapot							
50	Wasp	02/18/1955	LANL	NNSS	Area 7	Airdrop	20:00:00.00	37.086535	-116.022735	4,195	762	Weapons Effects	1 kt	50
51	Moth	02/22/1955	LANL	NNSS	Area 3	Tower	13:45:00.00	37.095488	-116.103616	4,026	300	Weapons Related	2 kt	51
52	Tesla	03/01/1955	LLNL	NNSS	Area 9	Tower	13:30:00.00	37.125389	-116.048387	4,021	300	Weapons Related	7 kt	52
53	Turk	03/07/1955	LLNL	NNSS	Area 2	Tower	13:20:00.00	37.138372	-116.118258	4,491	500	Weapons Related	43 kt	53

U.S. Nuclear Tests - By Date							July 1945 through September 1992							
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Teapot – Continued							Operation Teapot – Continued							
54	Hornet	03/12/1955	LANL	NNSS	Area 3	Tower	13:20:00.00	37.040342	-116.026241	4,007	300	Weapons Related	4 kt	54
55	Bee	03/22/1955	LANL	NNSS	Area 7	Tower	13:05:00.00	37.094780	-116.024575	4,245	500	Weapons Related	8 kt	55
56	ESS (Effects SubSurface)	03/23/1955	LANL	NNSS	U10 ESS	Crater	20:30:00.00	37.168412	-116.044669	4,288	-67	Weapons Effects	1 kt	56
57	Apple-1	03/29/1955	LANL	NNSS	Area 4	Tower	12:55:00.00	37.095488	-116.103616	4,309	500	Weapons Related	14 kt	57
58	Wasp Prime	03/29/1955	LANL	NNSS	Area 7	Airdrop	18:00:00.00	37.086535	-116.022735	4,194	739	Weapons Related	3 kt	58
59	HA Named "HA" for "high altitude" in reference to its intended detonation at an altitude of 40,000 ft	04/06/1955	LANL	NNSS	Area 1	Airdrop	18:00:00.00	37.028664	-116.058714	4,038	40,000	Weapons Effects	3 kt	59
60	Post	04/09/1955	LLNL	NNSS	Area 9	Tower	12:30:00.00	37.122090	-116.035276	4,236	300	Weapons Related	2 kt	60
61	MET (Military Effects Test)	04/15/1955	LANL/DoD	NNSS	Area 5	Tower	19:15:00.00	36.797923	-115.929776	3,078	400	Weapons Effects	22 kt	61
62	Apple-2	05/05/1955	LANL	NNSS	Area 1	Tower	12:10:00.00	37.053040	-116.103504	4,236	500	Weapons Related	29 kt	62
63	Zucchini	05/15/1955	LANL	NNSS	Area 7	Tower	12:00:00.00	37.094780	-116.024575	4,245	500	Weapons Related	28 kt	63
Operation Wigwam							Operation Wigwam							
64	Wigwam	05/14/1955	LANL/DoD	Pacific	----	Underwater	20:00:00.00	28.733340	-126.266743	0	-2,000	Weapons Effects	30 kt	64
Operation Project 56							Operation Project 56							
65	Project 56 No. 1	11/01/1955	LANL	NNSS	Area 11a	Surface	22:10:00.00	36.984430	-115.961640	4,200	3	Safety Experiment	Zero	65
66	Project 56 No. 2 Plutonium dispersal	11/03/1955	LANL	NNSS	Area 11b	Surface	21:15:00.00	36.980075	--115.959525	4,200	3	Safety Experiment	Zero	66
67	Project 56 No. 3 Plutonium dispersal	11/05/1955	LANL	NNSS	Area 11c	Surface	19:55:00.00	36.975695	-115.957455	4,200	3	Safety Experiment	36 grams	67
68	Project 56 No. 4 Plutonium dispersal	01/18/1956	LANL	NNSS	Area 11d	Surface	21:30:00.00	36.971340	-115.955350	4,200	3	Safety Experiment	1 ton	68
Operation Redwing							Operation Redwing							
69	Lacrosse	05/04/1956	LANL	Enewetak Atoll	----	Surface	18:25:00.00	11.553878	162.348050	17	0	Weapons Related	40 kt	69
70	Cherokee First airdrop by U.S. of a thermonuclear weapon	05/20/1956	LANL/DoD	Bikini Atoll	----	Airdrop	17:51:00.00	11.723000	165.306000	0	4,350	Weapons Related	3.8 Mt	70
71	Zuni	05/27/1956	LLNL	Bikini Atoll	----	Surface	17:56:00.00	11.503166	165.370537	9	0	Weapons Related	3.5 Mt	71
72	Yuma	05/27/1956	LLNL	Enewetak Atoll	----	Tower	19:56:00.00	11.618730	162.314125	10	205	Weapons Related	190 tons	72
73	Erie	05/30/1956	LANL	Enewetak Atoll	----	Tower	18:15:00.00	11.540100	162.357950	10	300	Weapons Related	14.9 kt	73
74	Seminole	06/06/1956	LANL	Enewetak Atoll	----	Surface	00:55:00.00	11.672427	162.210365	4	0	Weapons Related	13.7 kt	74
75	Flathead	06/12/1956	LANL	Bikini Atoll	----	Barge	18:26:00.00	11.688500	165.390000	0	15	Weapons Related	365 kt	75
76	Blackfoot	06/12/1956	LANL	Enewetak Atoll	----	Tower	18:26:00.00	11.547200	162.352050	10	200	Weapons Related	8 kt	76
77	Kickapoo	06/13/1956	LLNL	Enewetak Atoll	----	Tower	23:26:00.00	11.623857	162.318780	10	300	Weapons Related	1.49 kt	77
78	Osage	06/16/1956	LANL	Enewetak Atoll	----	Airdrop	01:14:00.00	11.540150	162.356400	0	670	Weapons Related	1.7 kt	78
79	Inca	06/21/1956	LLNL	Enewetak Atoll	----	Tower	21:56:00.00	11.629300	162.285000	10	200	Weapons Related	15.2 kt	79
80	Dakota	06/25/1956	LANL	Bikini Atoll	----	Barge	18:06:00.00	11.679000	165.391500	0	10	Weapons Related	1.1 Mt	80
81	Mohawk	07/02/1956	LLNL	Enewetak Atoll	----	Tower	18:06:00.00	11.627589	162.295691	10	300	Weapons Related	360 kt	81

U.S. Nuclear Tests - By Date							July 1945 through September 1992							
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Redwing – Continued							Operation Redwing – Continued							
82	Apache	07/08/1956	LLNL	Enewetak Atoll	----	Barge	18:06:00.00	11.670900	162.199600	0	10	Weapons Related	1.85 Mt	82
83	Navajo	07/10/1956	LANL	Bikini Atoll	----	Barge	17:56:00.00	11.679000	165.391500	0	15	Weapons Related	4.5 Mt	83
84	Tewa	07/20/1956	LLNL	Bikini Atoll	----	Barge	17:46:00.00	11.680000	165.341000	0	15	Weapons Related	5 Mt	84
85	Huron	07/21/1956	LANL	Enewetak Atoll	----	Barge	18:16:00.00	11.677817	162.204974	0	15	Weapons Related	250 kt	85
Operation Plumbbob							Operation Plumbbob							
86	Project 57 No. 1 Plutonium dispersal Test is also considered under Operation Project 57	04/24/1957	LANL/DoD	NTTR	----	Surface	14:27:00.00	37.319302	-115.906141	4,585	0	Safety Experiment	Zero	86
87	Boltzmann	05/28/1957	LANL	NNSS	Area 7	Tower	11:55:00.00	37.094825	-116.024500	4,235	500	Weapons Related	12 kt	87
88	Franklin	06/02/1957	LANL	NNSS	Area 3	Tower	11:55:00.00	37.095488	-116.103616	4,026	300	Weapons Related	140 tons	88
89	Lassen Radioactivity not detected offsite	06/05/1957	LLNL	NNSS	Area 9	Balloon	11:45:00.00	37.134742	-116.041648	4,230	500	Weapons Related	0.5 tons	89
90	Wilson	06/18/1957	LLNL	NNSS	Area 9	Balloon	11:45:00.00	37.134742	-116.041648	4,230	500	Weapons Related	10 kt	90
91	Priscilla	06/24/1957	LANL/DoD	NNSS	Area 5	Balloon	13:30:00.00	36.797923	-115.929776	3,076	700	Weapons Related	37 kt	91
92	Coulomb-A Radioactivity not detected offsite	07/01/1957	LANL	NNSS	Area 3	Surface	17:30:00.00	37.041200	-116.026880	4,000	0	Safety Experiment	Zero	92
93	Hood Highest-yield NNSS atmospheric test	07/05/1957	LLNL	NNSS	Area 9	Balloon	11:40:00.00	37.134742	-116.041648	4,230	1,500	Weapons Related	74 kt	93
94	Diablo	07/15/1957	LLNL	NNSS	Area 2	Tower	11:30:00.00	37.150200	-116.109485	4,469	500	Weapons Related	17 kt	94
95	John W25 warhead on an air-to-air Genie rocket launched from an F-89J fighter aircraft	07/19/1957	LANL/DoD	NNSS	Area 10	Rocket	14:00:00.00	37.160350	-116.053805	4,280	14,830	Weapons Effects	About 2 kt	95
96	Kepler	07/24/1957	LANL	NNSS	Area 4	Tower	11:50:00.00	37.095488	-116.103616	4,309	500	Weapons Related	10 kt	96
97	Owens	07/25/1957	LLNL	NNSS	Area 9	Balloon	13:30:00.00	37.134742	-116.041648	4,215	500	Weapons Related	9.7 kt	97
98	Pascal-A Unstemmed hole (known as a Roman Candle test) First non-crater underground test on the NNSS	07/26/1957	LANL	NNSS	U3j	Shaft	08:00:00.00	37.051722	-116.034289	4,033	-500	Safety Experiment	56 tons	98
99	Stokes	08/07/1957	LANL	NNSS	Area 7	Balloon	12:25:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	19 kt	99
100	Saturn No radioactive release detected	08/10/1957	LLNL	NNSS	U12c.02	Tunnel	00:59:55.10	37.193818	-116.200738	6,845	-128	Safety Experiment	Zero	100
101	Shasta	08/18/1957	LLNL	NNSS	Area 2	Tower	12:00:00.00	37.127880	-116.107280	4,387	500	Weapons Related	17 kt	101
102	Doppler	08/23/1957	LANL	NNSS	Area 7	Balloon	12:00:00.00	37.086540	-116.024805	4,230	1,500	Weapons Related	11 kt	102
103	Pascal-B Unstemmed hole No radioactive release detected	08/27/1957	LANL	NNSS	U3d	Shaft	22:35:00.00	37.049000	-116.034810	4,028	-500	Safety Experiment	1 gram	103
104	Franklin Prime	08/30/1957	LANL	NNSS	Area 7	Balloon	12:40:00.00	37.086540	-116.024805	4,186	750	Weapons Related	4.7 kt	104
105	Smoky	08/31/1957	LLNL	NNSS	Area 8	Tower	12:30:00.00	37.187200	-116.068670	4,479	700	Weapons Related	44 kt	105
106	Galileo	09/02/1957	LANL	NNSS	Area 1	Tower	12:40:00.00	37.053040	-116.103504	4,250	500	Weapons Related	11 kt	106
107	Wheeler	09/06/1957	LLNL	NNSS	Area 9	Balloon	12:45:00.00	37.134742	-116.041648	4,230	500	Weapons Related	197 tons	107

U.S. Nuclear Tests - By Date							July 1945 through September 1992							
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Plumbbob – Continued							Operation Plumbbob – Continued							
108	Coulomb-B	09/06/1957	LANL	NNSS	S3g	Surface	20:05:00.00	37.042900	-116.027100	4,035	3	Safety Experiment	300 tons	108
109	Laplace	09/08/1957	LANL	NNSS	Area 7	Balloon	13:00:00.00	37.086540	-116.024805	4,186	750	Weapons Related	1 kt	109
110	Fizeau	09/14/1957	LANL	NNSS	Area 3	Tower	16:45:00.00	37.033430	-116.032243	4,030	500	Weapons Related	11 kt	110
111	Newton	09/16/1957	LANL	NNSS	Area 7	Balloon	12:50:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	12 kt	111
112	Rainier First detonation contained underground No radioactive release detected	09/19/1957	LLNL	NNSS	U12b	Tunnel	16:59:59.45	37.195732	-116.204029	7,515	-899	Weapons Related	1.7 kt	112
113	Whitney	09/23/1957	LLNL	NNSS	Area 2	Tower	12:30:00.00	37.138372	-116.118258	4,486	500	Weapons Related	19 kt	113
114	Charleston	09/28/1957	LLNL	NNSS	Area 9	Balloon	13:00:00.00	37.134742	-116.041648	4,215	1,500	Weapons Related	12 kt	114
115	Morgan	10/07/1957	LLNL	NNSS	Area 9	Balloon	13:00:00.00	37.134742	-116.041648	4,214	500	Weapons Related	8 kt	115
Operation Project 58							Operation Project 58							
116	Pascal-C Unstemmed hole Radioactivity not detected offsite	12/06/1957	LANL	NNSS	U3e	Shaft	22:15:00.00	37.049895	-116.031734	4,031	-250	Safety Experiment	38 tons	116
117	Coulomb-C	12/09/1957	LANL	NNSS	S3i	Surface	20:00:00.00	37.048200	-116.025200	4,050	0	Safety Experiment	500 tons	117
Operation Project 58A							Operation Project 58A							
118	Venus No radioactive release detected	02/22/1958	LLNL	NNSS	U12d.01	Tunnel	01:00:00.00	37.193204	-116.201085	6,820	-100	Safety Experiment	1 gram	118
119	Uranus No radioactive release detected	03/14/1958	LLNL	NNSS	U12c.01	Tunnel	22:00:00.00	37.193818	-116.200738	6,831	-114	Safety Experiment	726 grams	119
Operation Hardtack I							Operation Hardtack I							
Note: Three DoD high altitude tests were conducted in the Pacific during Operation Hardtack I.							These tests were conducted as Operation Newsreel							
120	Yucca Operation Newsreel High altitude - 86,000 ft	04/28/1958	LANL/DoD	Pacific	-----	Balloon	02:40:00.00	12.616667	163.016667	0	86,000	Weapons Effects	1.7 kt	120
121	Cactus	05/05/1958	LANL	Enewetak Atoll	-----	Surface	18:15:00.00	11.697130	165.274200	5	3	Weapons Related	18 kt	121
122	Fir	05/11/1958	LLNL	Bikini Atoll	-----	Barge	17:50:00.00	11.697275	165.280000	0	10	Weapons Related	1.36 Mt	122
123	Butternut	05/11/1958	LANL	Enewetak Atoll	-----	Barge	18:15:00.00	11.542700	162.338600	0	10	Weapons Related	81 kt	123
124	Koa	05/12/1958	LANL	Enewetak Atoll	-----	Surface	18:30:00.00	11.670990	162.198652	5	3	Weapons Related	1.37 Mt	124
125	Wahoo	05/16/1958	LANL/DoD	Enewetak Atoll	-----	Underwater	01:30:00.00	11.343500	162.174900	0	-500	Weapons Effects	9 kt	125
126	Holly	05/20/1958	LANL	Enewetak Atoll	-----	Barge	18:30:00.00	11.537300	162.347400	0	13	Weapons Related	5.9 kt	126
127	Nutmeg	05/21/1958	LLNL	Bikini Atoll	-----	Barge	21:20:00.00	11.503000	165.374000	0	12	Weapons Related	25.1 kt	127
128	Yellowwood	05/26/1958	LANL	Enewetak Atoll	-----	Barge	02:00:00.00	11.659775	162.223408	0	11	Weapons Related	330 kt	128
129	Magnolia	05/26/1958	LANL	Enewetak Atoll	-----	Barge	18:00:00.00	11.535000	162.345000	0	14	Weapons Related	57 kt	129
130	Tobacco	05/30/1958	LANL	Enewetak Atoll	-----	Barge	02:15:00.00	11.691220	162.214650	0	10	Weapons Related	11.6 kt	130
131	Sycamore	05/31/1958	LLNL	Bikini Atoll	-----	Barge	03:00:00.00	11.697275	165.280000	0	12	Weapons Related	92 kt	131
132	Rose	06/02/1958	LANL	Enewetak Atoll	-----	Barge	18:45:00.00	11.532600	162.342600	0	15	Weapons Related	15 kt	132
133	Umbrella	06/09/1958	LANL/DoD	Enewetak Atoll	-----	Underwater	23:15:00.00	11.378000	162.212000	0	-150	Weapons Effects	8 kt	133
134	Maple	06/10/1958	LLNL	Bikini Atoll	-----	Barge	17:30:00.00	11.693940	165.416375	0	12	Weapons Related	213 kt	134
135	Aspen	06/14/1958	LLNL	Bikini Atoll	-----	Barge	17:30:00.00	11.697275	165.280000	0	11	Weapons Related	319 kt	135
136	Walnut	06/14/1958	LANL	Enewetak Atoll	-----	Barge	18:30:00.00	11.684700	162.239850	0	7	Weapons Related	1.45 Mt	136

U.S. Nuclear Tests - By Date							July 1945 through September 1992							
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Hardtack I – Continued							Operation Hardtack I – Continued							
137	Linden	06/18/1958	LANL	Enewetak Atoll	----	Barge	03:00:00.00	11.608900	162.321300	0	8	Weapons Related	11 kt	137
138	Redwood	06/27/1958	LLNL	Bikini Atoll	----	Barge	17:30:00.00	11.693940	165.416375	0	11	Weapons Related	412 kt	138
139	Elder	06/27/1958	LANL	Enewetak Atoll	----	Barge	18:30:00.00	11.677200	162.185255	0	9	Weapons Related	880 kt	139
140	Oak	06/28/1958	LANL	Enewetak Atoll	----	Barge	19:30:00.00	11.605086	162.100486	0	6	Weapons Related	8.9 Mt	140
141	Hickory	06/29/1958	LLNL	Bikini Atoll	----	Barge	24:00:00.00	11.503000	165.374000	0	12	Weapons Related	14 kt	141
142	Sequoia	07/01/1958	LANL	Enewetak Atoll	----	Barge	18:30:00.00	11.543050	162.347000	0	6	Weapons Related	5.2 kt	142
143	Cedar	07/02/1958	LLNL	Bikini Atoll	----	Barge	17:30:00.00	11.697275	165.280000	0	11	Weapons Related	220 kt	143
144	Dogwood	07/05/1958	LLNL	Enewetak Atoll	----	Barge	18:30:00.00	11.677570	162.206157	0	12	Weapons Related	397 kt	144
145	Poplar	07/12/1958	LLNL	Bikini Atoll	----	Barge	03:30:00.00	11.694458	165.265189	0	12	Weapons Related	9.3 Mt	145
146	Scaevola	07/14/1958	LANL	Enewetak Atoll	----	Barge	04:00:00.00	11.550000	162.342500	0	20	Safety Experiment	Zero	146
147	Pisonia	07/17/1958	LANL	Enewetak Atoll	----	Barge	23:00:00.00	11.541000	162.320000	0	6	Weapons Related	255 kt	147
148	Juniper	07/22/1958	LLNL	Bikini Atoll	----	Barge	04:20:00.00	11.503000	165.374000	0	12	Weapons Related	65 kt	148
149	Olive	07/22/1958	LLNL	Enewetak Atoll	----	Barge	20:30:00.00	11.678501	162.208073	0	8	Weapons Related	202 kt	149
150	Pine	07/26/1958	LLNL	Enewetak Atoll	----	Barge	20:30:00.00	11.651260	162.219650	0	8	Weapons Related	2 Mt	150
151	Teak Operation Newsreel High altitude – 77 kilometers	08/01/1958	LANL/DoD	Johnston Island area	----	Rocket	10:50:00.00	16.743889	-169.533333	0	252,000	Weapons Effects	3.8 Mt	151
152	Quince	08/06/1958	LLNL/DoD	Enewetak Atoll	----	Surface	02:15:00.00	11.545500	162.352700	10	3	Weapons Related	Zero	152
153	Orange Operation Newsreel High altitude – 43 kilometers	08/12/1958	LANL/DoD	Johnston Island area	----	Rocket	10:30:00.00	16.358333	-169.535556	0	141,000	Weapons Effects	3.8 Mt	153
154	Fig	08/18/1958	LLNL/DoD	Enewetak Atoll	----	Surface	04:00:00.00	11.545500	162.352700	10	2	Weapons Related	20 tons	154
Operation Argus							Operation Argus							
155	Argus I About 300 miles altitude South 38.5 degrees, West 11.5 degrees	08/27/1958	LANL/DoD	South Atlantic	----	Rocket	02:28:00.00	-38.800000	-10.900000	0	~300 miles	Weapons Effects	1.7 kt	155
156	Argus II About 300 miles altitude South 49.5 degrees, West 8.2 degrees	08/30/1958	LANL/DoD	South Atlantic	----	Rocket	02:28:00.00	-49.400000	-8.700000	0	~300 miles	Weapons Effects	1.7 kt	156
157	Argus III About 300 miles altitude South 48.5 degrees, West 9.7 degrees	09/06/1958	LANL/DoD	South Atlantic	----	Rocket	22:13:00.00	-49.500000	-10.450000	0	~300 miles	Weapons Effects	1.7 kt	157
Operation Hardtack II							Operation Hardtack II							
158	Otero Unstemmed hole	09/12/1958	LANL	NNSS	U3q	Shaft	20:00:00.00	37.049848	-116.032715	4,032	-480	Safety Experiment	38 tons	158
159	Bernalillo Unstemmed hole Radioactivity not detected offsite	09/17/1958	LANL	NNSS	U3n	Shaft	19:30:00.00	37.049512	-116.034010	4,028	-456	Safety Experiment	15 tons	159
160	Eddy	09/19/1958	LANL	NNSS	Area 7	Balloon	14:00:00.00	37.086540	-116.024805	4,186	500	Weapons Related	83 tons	160
161	Luna Unstemmed hole Radioactivity not detected offsite	09/21/1958	LANL	NNSS	U3m	Shaft	19:00:00.00	37.049193	-116.034571	4,028	-484	Safety Experiment	1.5 tons	161

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Hardtack II – Continued						Operation Hardtack II – Continued								
162	Mercury No radioactive release detected	09/23/1958	LLNL	NNSS	U12f.01	Tunnel	22:00:00.00	37.193429	-116.201671	6,903	-183	Safety Experiment	1 gram	162
163	Valencia Unstemmed hole Radioactivity not detected offsite	09/26/1958	LANL	NNSS	U3r	Shaft	20:00:00.00	37.049538	-116.030696	4,029	-484	Safety Experiment	2 tons	163
164	Mars Slight venting Radioactivity not detected offsite	09/28/1958	LLNL	NNSS	U12f.02	Tunnel	00:00:00.00	37.193049	-116.201457	6,845	-125	Safety Experiment	13 tons	164
165	Mora	09/29/1958	LANL	NNSS	Area 7	Balloon	14:05:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	2 kt	165
166	Hidalgo	10/05/1958	LANL	NNSS	Area 7	Balloon	14:10:00.00	37.086540	-116.024805	4,186	377	Safety Experiment	77 tons	166
167	Colfax Unstemmed hole Radioactivity not detected offsite	10/05/1958	LANL	NNSS	U3k	Shaft	16:15:00.00	37.048795	-116.035040	4,029	-350	Safety Experiment	5.5 tons	167
168	Tamalpais Slight venting Radioactivity not detected offsite	10/08/1958	LLNL	NNSS	U12b.02	Tunnel	22:00:00.13	37.195257	-116.201330	6,947	-330	Weapons Related	72 tons	168
169	Quay	10/10/1958	LANL	NNSS	Area 7	Tower	14:30:00.00	37.094825	-116.024500	4,249	100	Weapons Related	79 tons	169
170	Lea	10/13/1958	LANL	NNSS	Area 7	Balloon	13:20:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	1.4 kt	170
171	Neptune Slight venting Radioactivity not detected offsite	10/14/1958	LLNL	NNSS	U12c.03	Tunnel	18:00:00.00	37.193809	-116.200563	6,814	-98	Safety Experiment	115 tons	171
172	Hamilton	10/15/1958	LLNL/DoD	NNSS	Area 5	Tower	16:00:00.00	36.802261	-115.933075	3,080	50	Weapons Related	1.2 tons	172
173	Logan No radioactive release detected	10/16/1958	LLNL	NNSS	U12e.02	Tunnel	06:00:00.14	37.184127	-116.201996	7,071	-930	Weapons Related	5 kt	173
174	Dona Ana	10/16/1958	LANL	NNSS	Area 7	Balloon	14:20:00.00	37.086540	-116.024805	4,186	450	Weapons Related	37 tons	174
175	Vesta Fired in surface structure	10/17/1958	LLNL	NNSS	S9e	Surface	23:00:00.00	37.122600	-116.035400	4,226	0	Safety Experiment	24 tons	175
176	Rio Arriba	10/18/1958	LANL	NNSS	Area 3	Tower	14:25:00.00	37.040875	-116.026750	4,010	73	Weapons Related	90 tons	176
177	San Juan Unstemmed hole No radioactive release detected	10/20/1958	LANL	NNSS	U3p	Shaft	14:30:00.00	37.049734	-116.033384	4,029	-234	Safety Experiment	Zero	177
178	Socorro	10/22/1958	LANL	NNSS	Area 7	Balloon	13:30:00.00	37.086540	-116.024805	1,450	1,450	Weapons Related	6 kt	178
179	Wrangell	10/22/1958	LLNL	NNSS	Area 5	Balloon	16:50:00.00	36.797923	-115.929776	3,077	1,500	Weapons Related	115 tons	179
180	Oberon No radioactive release detected	10/22/1958	LLNL	NNSS	Area 8	Tower	20:30:00.00	37.182847	-116.069270	4,446	25	Safety Experiment	Zero	180
181	Rushmore	10/22/1958	LLNL	NNSS	Area 9	Balloon	23:40:00.00	37.134742	-116.041648	4,244	500	Weapons Related	188 tons	181
182	Catron	10/24/1958	LANL	NNSS	Area 3	Tower	15:00:00.00	37.042800	-116.027800	4,026	73	Safety Experiment	21 tons	182
183	Juno Fired in surface structure Radioactivity not detected offsite	10/24/1958	LLNL	NNSS	S9f	Surface	16:01:00.00	37.123250	-116.038650	4,210	0	Safety Experiment	1.7 tons	183
184	Ceres Radioactivity not detected offsite	10/26/1958	LLNL	NNSS	Area 8	Tower	04:00:00.00	37.181329	-116.069535	4,428	25	Safety Experiment	0.7 tons	184
185	Sanford	10/26/1958	LLNL	NNSS	Area 5	Balloon	10:20:00.00	36.797923	-115.929776	3,077	1,500	Weapons Related	4.9 kt	185

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Hardtack II – Continued							Operation Hardtack II – Continued							
186	De Baca	10/26/1958	LANL	NNSS	Area 7	Balloon	16:00:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	2.2 kt	186
187	Chaves (Chavez)	10/27/1958	LANL	NNSS	Area 3	Tower	14:30:00.00	37.044600	-116.030650	4,025	52	Safety Experiment	0.6 tons	187
188	Evans Venting Radioactivity not detected offsite	10/29/1958	LLNL	NNSS	U12b.04	Tunnel	00:00:00.15	37.194804	-116.205604	7,472	-840	Weapons Related	55 tons	188
189	Mazama No radioactive release detected	10/29/1958	LLNL	NNSS	Area 9	Tower	11:20:00.00	37.126459	-116.041931	4,202	50	Weapons Related	Zero	189
190	Humboldt	10/29/1958	LLNL/DoD	NNSS	Area 3	Tower	14:45:00.00	37.047565	-116.025425	4,029	25	Weapons Related	7.8 tons	190
191	Santa Fe	10/30/1958	LANL	NNSS	Area 7	Balloon	03:00:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	1.3 kt	191
192	Ganymede Contained in surface structure No radioactive release detected	10/30/1958	LLNL	NNSS	S9g	Surface	11:00:00.00	37.125587	-116.047855	4,193	0	Safety Experiment	Zero	192
193	Blanca Slight venting	10/30/1958	LLNL	NNSS	U12e.05	Tunnel	15:00:00.15	37.185883	-116.202885	7,126	-987	Weapons Related	22 kt	193
194	Titania	10/30/1958	LLNL	NNSS	Area 8	Tower	20:34:00.00	37.177200	-116.070050	4,403	25	Safety Experiment	0.2 tons	194
Operation Nougat							Operation Nougat							
195	Antler Accidental release of radioactivity detected offsite	09/15/1961	LLNL	NNSS	U12e.03a	Tunnel	17:00:00.12	37.187905	-116.208633	7,483	-1,319	Weapons Related	2.6 kt	195
196	Shrew Accidental release of radioactivity detected onsite only	09/16/1961	LANL	NNSS	U3ac	Shaft	19:45:00.12	37.048408	-116.033673	4,027	-322	Weapons Related	Low	196
197	Boomer ▀ Accidental release of radioactivity detected onsite only	10/01/1961	LANL	NNSS	U3aa	Shaft	21:30:00.12	37.048294	-116.035380	4,028	-330	Weapons Related	Low	197
198	Chena Accidental release of radioactivity detected onsite only	10/10/1961	LLNL	NNSS	U12b.09	Tunnel	18:00:00.13	37.194242	-116.207891	7,472	-838	Weapons Related	Low	198
199	Mink ▀ First underground test to eventually result in a surface subsidence crater (years later) Accidental and drillback release of radioactivity detected onsite only	10/29/1961	LANL	NNSS	U3ae	Shaft	18:30:00.13	37.048520	-116.031965	4,028	-630	Weapons Related	Low	199
200	Fisher ▀ First surface subsidence crater to form at the NNSS Accidental and drillback release of radioactivity detected onsite only	12/03/1961	LANL	NNSS	U3ah	Shaft	23:04:59.63	37.045810	-116.028544	4,020	-1,193	Weapons Related	13.4 kt	200
201	Gnome Multiple-purpose experiment in salt Formed cavity 160–170 ft diameter, 60–80 ft high Accidental release of radioactivity detected offsite	12/10/1961	LLNL	near Carlsbad, New Mexico	-----	Shaft	19:00:00.00	32.263160	-103.866460	3,400	-1,184	Plowshare	3 kt	201

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Nougat – Continued						Operation Nougat – Continued								
202	Mad Accidental release of radioactivity detected onsite only	12/13/1961	LLNL	NNSS	U9a	Shaft	18:00:00.16	37.126555	-116.049629	4,204	-596	Weapons Related	500 tons	202
203	Ringtail ▾ Accidental release of radioactivity detected onsite only	12/17/1961	LANL	NNSS	U3ak	Shaft	16:35:00.13	37.043114	-116.026182	4,014	-1,191	Weapons Related	Low	203
204	Feather Accidental release of radioactivity detected offsite	12/22/1961	LLNL	NNSS	U12b.08	Tunnel	16:30:00.13	37.194884	-116.209161	7,443	-812	Weapons Related	150 tons	204
205	Stoat ▾ Accidental and drillback release of radioactivity detected onsite only	01/09/1962	LANL	NNSS	U3ap	Shaft	16:30:00.14	37.044592	-116.035932	4,021	-992	Weapons Related	5.1 kt	205
206	Agouti ▾	01/18/1962	LANL	NNSS	U3ao	Shaft	18:00:00.13	37.047200	-116.035232	4,027	-856	Weapons Related	6.4 kt	206
207	Dormouse ▾ Drillback release of radioactivity detected onsite only	01/30/1962	LANL	NNSS	U3aq	Shaft	18:00:00.13	37.046799	-116.040351	4,026	-1,191	Weapons Related	Low	207
208	Stillwater ▾ Drillback release of radioactivity detected onsite only	02/08/1962	LLNL	NNSS	U9c	Shaft	18:00:00.16	37.127202	-116.053524	4,209	-595	Weapons Related	3.07 kt	208
209	Armadillo ▾ Accidental and drillback release of radioactivity detected onsite only	02/09/1962	LANL	NNSS	U3ar	Shaft	16:30:00.13	37.043530	-116.039826	4,019	-786	Weapons Related	7.1 kt	209
210	Hard Hat Accidental and drillback release of radioactivity detected onsite only	02/15/1962	LANL/DoD/ SNL	NNSS	U15a	Shaft	18:00:00.10	37.226214	-116.060187	5,114	-943	Weapons Effects	5.7 kt	210
211	Chinchilla ▾ Accidental and drillback release of radioactivity detected onsite only	02/19/1962	LANL	NNSS	U3ag	Shaft	16:30:00.13	37.049006	-116.030398	4,030	-492	Weapons Related	1.9 kt	211
212	Codsaw ▾ Accidental release of radioactivity detected onsite only	02/19/1962	LLNL	NNSS	U9g	Shaft	17:50:00.16	37.127406	-116.037989	4,217	-696	Weapons Related	Low	212
213	Cimarron ▾ Drillback release of radioactivity detected onsite only	02/23/1962	LLNL	NNSS	U9h	Shaft	18:00:00.16	37.128808	-116.049178	4,208	-1,000	Weapons Related	11.9 kt	213
214	Platypus Accidental release of radioactivity detected onsite only	02/24/1962	LANL	NNSS	U3ad	Shaft	16:30:00.13	37.048288	-116.032772	4,026	-190	Weapons Related	Low	214
215	Pampas ▾ Accidental and drillback release of radioactivity detected offsite	03/01/1962	LANL/UK	NNSS	U3al	Shaft	19:10:00.09	37.041217	-116.029549	4,012	-1,191	Joint US-UK	9.5 kt	215
216	Danny Boy Crater diameter 265 ft, depth 84 ft in basalt Radioactivity detected offsite	03/05/1962	LLNL/DoD	NNSS	U18a	Crater	18:15:00.12	37.111003	-116.365835	5,384	-110	Weapons Effects	430 tons	216

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Nougat – Continued						Operation Nougat – Continued								
217	Ermine Drillback release of radioactivity detected onsite only	03/06/1962	LANL	NNSS	U3ab	Shaft	16:30:00.13	37.048350	-116.034526	4,028	-240	Safety Experiment	Low	217
218	Brazos ▀ Accidental and drillback release of radioactivity detected onsite only	03/08/1962	LLNL	NNSS	U9d	Shaft	18:00:00.21	37.122117	-116.049750	4,201	-840	Weapons Related	8.4 kt	218
219	Hognose ▀ Drillback release of radioactivity detected onsite only	03/15/1962	LANL	NNSS	U3ai	Shaft	16:30:00.13	37.043914	-116.031904	4,019	-788	Weapons Related	Low	219
220	Hoosic ▀ Drillback release of radioactivity detected onsite only	03/28/1962	LLNL	NNSS	U9j	Shaft	18:00:00.16	37.124271	-116.034746	4,235	-614	Weapons Related	3.4 kt	220
221	Chinchilla II ▀ Accidental and drillback release of radioactivity detected onsite only	03/31/1962	LANL	NNSS	U3as	Shaft	18:00:00.13	37.046862	-116.037770	4,026	-448	Weapons Related	Low	221
222	Dormouse Prime ▀ Drillback release of radioactivity detected onsite only	04/05/1962	LANL	NNSS	U3az	Shaft	18:00:00.13	37.044458	-116.024402	4,016	-856	Weapons Related	10.6 kt	222
223	Passaic ▀ Drillback release of radioactivity detected onsite only	04/06/1962	LLNL	NNSS	U9l	Shaft	18:00:00.16	37.117628	-116.044882	4,183	-766	Weapons Related	Low	223
224	Hudson ▀ Drillback release of radioactivity detected onsite only	04/12/1962	LLNL	NNSS	U9n	Shaft	18:00:00.16	37.127131	-116.045737	4,200	-495	Weapons Related	Low	224
225	Platte Accidental release of radioactivity detected offsite	04/14/1962	LLNL	NNSS	U12k.01	Tunnel	18:00:00.13	37.221976	-116.158313	6,281	-631	Weapons Related	1.85 kt	225
226	Dead ▀ Drillback release of radioactivity detected onsite only	04/21/1962	LLNL	NNSS	U9k	Shaft	18:40:00.16	37.118958	-116.032393	4,261	-635	Weapons Related	Low	226
Note: Tests that were conducted during 1962 in Christmas and Johnston Island areas,							and elsewhere in the Pacific, were conducted as part of Operation Dominic.							
227	Adobe Operation Dominic	04/25/1962	LANL	Christmas Island area	-----	Airdrop	15:46:00.00	1.565000	-157.365000	0	2,900	Weapons Related	190 kt	227
228	Aztec Operation Dominic	04/27/1962	LANL	Christmas Island area	-----	Airdrop	16:02:00.00	1.565000	-157.365000	0	2,610	Weapons Related	410 kt	228
229	Black ▀ Drillback release of radioactivity detected onsite only	04/27/1962	LLNL	NNSS	U9p	Shaft	18:00:00.16	37.118411	-116.038640	4,217	-714	Weapons Related	Low	229
230	Arkansas Operation Dominic	05/02/1962	LLNL	Christmas Island area	-----	Airdrop	18:01:00.00	1.500000	-157.277000	0	5,030	Weapons Related	1.09 Mt	230
231	Questa Operation Dominic	05/04/1962	LANL	Christmas Island area	-----	Airdrop	19:04:00.00	1.565000	-157.365000	0	5,230	Weapons Related	670 kt	231

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Nougat – Continued						Operation Nougat – Continued								
232	Frigate Bird Operation Dominic North 4 degrees 50 minutes, West 149 degrees 25 minutes 11,000 ft altitude W47 warhead on a Polaris A1 missile launched from the USS Ethan Allen (SSB-608) as part of the system proof test	05/06/1962	LLNL/DoD	Pacific	----	Rocket	23:30:00.00	4.833333	-149.416667	0	11,000	Weapons Related	200 to 1,000 kt	232
233	Paca ▾ Accidental and drillback release of radioactivity detected onsite only	05/07/1962	LANL	NNSS	U3ax	Shaft	19:33:00.14	37.046518	-116.025875	4,021	-848	Weapons Related	Low	233
234	Yukon Operation Dominic	05/08/1962	LLNL	Christmas Island area	----	Airdrop	18:01:00.00	1.565000	-157.365000	0	2,880	Weapons Related	100 kt	234
235	Mesilla Operation Dominic	05/09/1962	LANL	Christmas Island area	----	Airdrop	17:01:00.00	1.565000	-157.365000	0	2,450	Weapons Related	100 kt	235
236	Arikaree ▾ Drillback release of radioactivity detected onsite only	05/10/1962	LLNL	NNSS	U9r	Shaft	15:00:00.16	37.127539	-116.049168	4,204	-546	Weapons Related	Low	236
237	Muskegon Operation Dominic	05/11/1962	LLNL	Christmas Island area	----	Airdrop	15:37:00.00	1.565000	-157.365000	0	2,995	Weapons Related	50 kt	237
238	Swordfish Operation Dominic North 31 degrees 14 minutes, West 124 degrees 13 minutes Antisubmarine rocket (ASROC-W44) system proof test	05/11/1962	LANL/DoD	Pacific	----	Underwater	20:02:00.00	31.233333	-124.216667	0	----	Weapons Effects	Low	238
239	Encino Operation Dominic	05/12/1962	LANL	Christmas Island area	----	Airdrop	17:02:00.00	1.565000	-157.365000	0	5,510	Weapons Related	500 kt	239
240	Aardvark ▾ Accidental and drillback release of radioactivity detected onsite only	05/12/1962	LANL	NNSS	U3amS	Shaft	19:00:00.10	37.065145	-116.031247	4,071	-1,424	Weapons Related	40 kt	240
241	Swanee Operation Dominic	05/14/1962	LLNL	Christmas Island area	----	Airdrop	15:21:00.00	1.570000	-157.365000	0	2,940	Weapons Related	97 kt	241
242	Eel ▾ Accidental release of radioactivity detected offsite	05/19/1962	LLNL	NNSS	U9m	Shaft	15:00:00.16	37.122589	-116.048079	4,200	-714	Weapons Related	4.5 kt	242
243	Chetco Operation Dominic	05/19/1962	LLNL	Christmas Island area	----	Airdrop	15:36:00.00	1.565000	-157.365000	0	6,945	Weapons Related	73 kt	243
244	White ▾ Drillback release of radioactivity detected onsite only	05/25/1962	LLNL	NNSS	U9b	Shaft	15:00:00.15	37.124812	-116.052860	4,201	-632	Weapons Related	Low	244
245	Tanana Operation Dominic	05/25/1962	LLNL	Christmas Island area	----	Airdrop	16:08:00.00	1.550000	-157.350000	0	9,030	Weapons Related	2.6 kt	245

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Nougat – Continued							Operation Nougat – Continued							
246	Nambe Operation Dominic	05/27/1962	LANL	Christmas Island area	----	Airdrop	17:02:00.00	1.550000	-157.350000	0	7,140	Weapons Related	43 kt	246
247	Raccoon ▾	06/01/1962	LANL	NNSS	U3ajS	Shaft	17:00:00.14	37.045566	-116.035331	4,021	-539	Weapons Related	Low	247
248	Packrat ▾ Drillback release of radioactivity detected onsite only	06/06/1962	LANL	NNSS	U3aw	Shaft	17:00:00.12	37.045669	-116.040155	4,022	-860	Weapons Related	Low	248
249	Alma Operation Dominic	06/08/1962	LANL	Christmas Island area	----	Airdrop	17:02:00.00	1.380000	-157.195000	0	8,865	Weapons Related	782 kt	249
250	Truckee Operation Dominic	06/09/1962	LLNL	Christmas Island area	----	Airdrop	15:37:00.00	1.490000	-157.327000	0	6,970	Weapons Related	210 kt	250
251	Yeso Operation Dominic	06/10/1962	LANL	Christmas Island area	----	Airdrop	16:01:00.00	1.380000	-157.195000	0	8,325	Weapons Related	3 Mt	251
252	Harlem Operation Dominic	06/12/1962	LLNL	Christmas Island area	----	Airdrop	15:37:00.00	1.470000	-157.195000	0	13,645	Weapons Related	1.2 Mt	252
253	Des Moines Accidental release of radioactivity detected offsite	06/13/1962	LLNL	NNSS	U12j.01	Tunnel	21:00:00.12	37.222177	-116.163010	6,312	-660	Weapons Related	2.9 kt	253
254	Rinconada Operation Dominic	06/15/1962	LANL	Christmas Island area	----	Airdrop	16:00:00.00	1.470000	-157.195000	0	9,105	Weapons Related	800 kt	254
255	Dulce Operation Dominic	06/17/1962	LANL	Christmas Island area	----	Airdrop	16:00:00.00	1.490000	-157.327000	0	9,090	Weapons Related	52 kt	255
256	Petit Operation Dominic	06/19/1962	LLNL	Christmas Island area	----	Airdrop	15:01:00.00	1.470000	-157.320000	0	14,995	Weapons Related	2.2 kt	256
257	Daman I ▾ Drillback release of radioactivity detected onsite only	06/21/1962	LANL	NNSS	U3be	Shaft	17:00:00.13	37.043017	-116.031123	4,016	-854	Weapons Related	Low	257
258	Otowi Operation Dominic	06/22/1962	LANL	Christmas Island area	----	Airdrop	16:00:00.00	1.550000	-157.350000	0	9,011	Weapons Related	81.5 kt	258
259	Bighorn Operation Dominic	06/27/1962	LLNL	Christmas Island area	----	Airdrop	15:19:00.00	1.230000	-157.220000	0	11,810	Weapons Related	7.65 Mt	259
260	Haymaker ▾ Accidental and drillback release of radioactivity detected onsite only	06/27/1962	LANL	NNSS	U3auS	Shaft	18:00:00.12	37.041549	-116.036114	4,014	-1,340	Weapons Related	67 kt	260
261	Marshmallow Accidental release of radioactivity detected onsite only	06/28/1962	LLNL/DoD	NNSS	U16a	Tunnel	17:00:00.11	37.009057	-116.201913	6,439	-1,020	Weapons Effects	Low	261
262	Bluestone Operation Dominic	06/30/1962	LLNL	Christmas Island area	----	Airdrop	15:21:00.00	1.380000	-157.195000	0	4,980	Weapons Related	1.27 Mt	262
263	Sacramento ▾ Drillback release of radioactivity detected onsite only	06/30/1962	LLNL	NNSS	U9v	Shaft	21:30:00.16	37.117366	-116.048287	4,177	-489	Weapons Related	Low	263

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Storax						Operation Storax								
264	Sedan Excavation experiment Crater 1,280 ft diameter, 320 ft deep Thermonuclear device with fission yield less than 30% Radioactivity detected offsite	07/06/1962	LLNL	NNSS	U10h	Crater	17:00:00.15	37.176960	-116.046256	4,317	-635	Plowshare	104 kt	264
Note: Four DoD weapons effects tests were conducted at the NNSS in July 1962.						These tests were conducted as Operation Sunbeam.								
265	Little Feller II Operation Sunbeam Slightly above ground Test of Davy Crockett Test of the W54 nuclear weapon Radioactivity detected onsite only	07/07/1962	SNL/DoD	NNSS	Area 18	Surface	17:00:00.00	37.119142	-116.303697	5,136	3	Weapons Effects	Low	265
Note: Five DoD high-altitude weapons effects tests were conducted during Operation Dominic.						These tests were conducted as Operation Fishbowl.								
266	Starfish Prime Operation Fishbowl High altitude - 250 miles	07/09/1962	LANL/DoD	Johnston Island area	-----	Rocket	09:00:00.00	16.468422	-169.630075	0	250 miles	Weapons Effects	1.4 Mt	266
267	Sunset Operation Dominic	07/10/1962	LANL	Christmas Island area	-----	Airdrop	16:33:00.00	1.520000	-157.280000	0	5,000	Weapons Related	1 Mt	267
268	Pamlico Operation Dominic	07/11/1962	LLNL	Christmas Island area	-----	Airdrop	15:37:00.00	1.230000	-157.180000	0	14,330	Weapons Related	3.88 Mt	268
269	Johnnie Boy Operation Sunbeam Slightly below ground Radioactivity detected offsite	07/11/1962	LLNL/DoD	NNSS	U18j2	Crater	16:45:00.09	37.122150	-116.333947	5,066	-23	Weapons Effects	500 tons	269
270	Merrimac - Accidental and drillback release of radioactivity detected onsite only	07/13/1962	LLNL	NNSS	U3bd	Shaft	16:00:00.15	37.055018	-116.034262	4,041	-1,356	Weapons Related	Intermediate	270
271	Small Boy Operation Sunbeam Slightly above ground With modern survey and GPS, it was discovered this test was actually conducted approximately 300 ft east of the Area 5 boundary; however, it is counted as an NNSS test Radioactivity detected offsite	07/14/1962	LANL/DoD	NNSS	Area 5	Tower	18:30:00.00	36.802465	-115.925910	3,078	10	Weapons Effects	Low	271
272	Little Feller I Operation Sunbeam Slightly above ground Test of Davy Crockett Test of the W54 nuclear weapon Last atmospheric test conducted at the NNSS Radioactivity detected offsite	07/17/1962	SNL/DoD	NNSS	Area 18	Surface	17:00:00.00	37.109551	-116.318154	5,178	3	Weapons Effects	Low	272

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Storax – Continued						Operation Storax – Continued								
273	Wichita ▾ Accidental release of radioactivity detected onsite only	07/27/1962	LLNL	NNSS	U9y	Shaft	21:00:00.16	37.129666	-116.057353	4,239	-493	Weapons Related	Low	273
274	York ▾ Drillback release of radioactivity detected onsite only	08/24/1962	LLNL	NNSS	U9z	Shaft	15:00:00.15	37.118588	-116.040353	4,208	-743	Weapons Related	Low	274
275	Bobac ▾ Drillback release of radioactivity detected onsite only	08/24/1962	LANL	NNSS	U3bl	Shaft	17:00:00.13	37.046097	-116.024707	4,021	-676	Weapons Related	Low	275
276	Raritan ▾ Drillback release of radioactivity detected onsite only	09/06/1962	LLNL	NNSS	U9u	Shaft	17:00:00.20	37.130265	-116.045605	4,204	-513	Weapons Related	Low	276
277	Hyrax ▾ Drillback release of radioactivity detected onsite only	09/14/1962	LANL	NNSS	U3bh	Shaft	17:10:00.12	37.043888	-116.021981	4,017	-711	Weapons Related	Low	277
278	Peba ▾	09/20/1962	LANL	NNSS	U3bb	Shaft	17:00:00.12	37.054996	-116.030153	4,043	-792	Weapons Related	Low	278
279	Allegheny ▾ Accidental and drillback release of radioactivity detected onsite only	09/29/1962	LLNL	NNSS	U9x	Shaft	17:00:00.15	37.116630	-116.033647	4,258	-692	Weapons Related	Low	279
280	Androscogggin Operation Dominic	10/02/1962	LLNL	Johnston Island area	-----	Airdrop	16:18:00.00	13.830000	-172.083000	0	10,260	Weapons Related	75 kt	280
281	Mississippi ▾ Drillback release of radioactivity detected onsite only	10/05/1962	LLNL	NNSS	U9ad	Shaft	17:00:00.16	37.139355	-116.051195	4,234	-1,622	Weapons Related	115 kt	281
282	Bumping Operation Dominic	10/06/1962	LLNL	Johnston Island area	-----	Airdrop	16:03:00.00	14.670000	-168.250000	0	9,900	Weapons Related	11.3 kt	282
283	Roanoke ▾ Accidental and drillback release of radioactivity detected onsite only	10/12/1962	LLNL	NNSS	U9q	Shaft	15:00:00.16	37.122688	-116.051680	4,198	-580	Weapons Related	Low	283
284	Wolverine Accidental release of radioactivity detected onsite only	10/12/1962	LANL	NNSS	U3av	Shaft	17:00:00.12	37.048734	-116.033427	4,027	-241	Weapons Related	Low	284
285	Tioga	10/18/1962	LLNL	NNSS	U9f	Shaft	15:00:00.15	37.128502	-116.041116	4,203	-195	Weapons Related	Low	285
286	Chama Operation Dominic	10/18/1962	LANL	Johnston Island area	-----	Airdrop	16:01:00.00	14.670000	-168.750000	0	11,970	Weapons Related	1.59 Mt	286
287	Bandicoot ▾ Accidental release of radioactivity detected offsite	10/19/1962	LANL	NNSS	U3bj	Shaft	18:00:00.08	37.039493	-116.022015	4,008	-792	Weapons Related	12.5 kt	287
288	Checkmate Operation Fishbowl High altitude – tens of miles	10/20/1962	LANL/DoD	Johnston Island area	-----	Rocket	08:30:00.00	16.072381	-169.609986	0	tens of miles	Weapons Effects	Low	288
289	Bluegill 3 Prime Operation Fishbowl High altitude – tens of miles	10/26/1962	LANL/DoD	Johnston Island area	-----	Rocket	09:59:00.00	16.468422	-169.630075	0	tens of miles	Weapons Effects	Submegaton	289

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Storax – Continued						Operation Storax – Continued								
290	Santee ▀ Drillback release of radioactivity detected onsite only	10/27/1962	LLNL	NNSS	U10f	Shaft	15:00:00.15	37.149260	-116.054375	4,254	-1,048	Weapons Related	Low	290
291	Calamity Operation Dominic	10/27/1962	LLNL	Johnston Island area	----	Airdrop	15:46:00.00	14.700000	-168.417000	0	11,780	Weapons Related	800 kt	291
292	Housatonic Operation Dominic	10/30/1962	LLNL	Johnston Island area	----	Airdrop	16:01:00.00	13.613333	-172.216667	0	12,130	Weapons Related	8.3 Mt	292
293	Kingfish Operation Fishbowl High altitude – tens of miles	11/01/1962	LANL/DoD	Johnston Island area	----	Rocket	12:10:00.00	16.113503	-169.680561	0	tens of miles	Weapons Effects	Submegaton	293
294	Tightrope Operation Fishbowl High altitude – tens of miles	11/04/1962	LANL/DoD	Johnston Island area	----	Rocket	07:30:00.00	16.707419	-169.542406	0	tens of miles	Weapons Effects	Low	294
295	St. Lawrence Accidental and drillback release of radioactivity detected onsite only	11/09/1962	LLNL	NNSS	U2b	Shaft	18:00:00.16	37.163767	-116.074164	4,384	-546	Weapons Related	Low	295
296	Gundi ▀	11/15/1962	LANL	NNSS	U3bm	Shaft	16:30:00.08	37.041705	-116.024740	4,010	-792	Weapons Related	Low	296
297	Anacostia ▀ Device development Accidental and drillback release of radioactivity detected onsite only	11/27/1962	LLNL	NNSS	U9i	Shaft	18:00:00.14	37.122762	-116.029888	4,268	-747	Plowshare	5.2 kt	297
298	Taunton ▀ Drillback release of radioactivity detected onsite only	12/04/1962	LLNL	NNSS	U9aa	Shaft	16:00:00.15	37.128037	-116.050875	4,209	-749	Weapons Related	Low	298
299	Tendrac ▀	12/07/1962	LANL/UK	NNSS	U3ba	Shaft	19:00:00.10	37.051697	-116.030177	4,033	-993	Joint US-UK	Low	299
300	Madison Drillback release of radioactivity detected onsite only	12/12/1962	LLNL	NNSS	U12g.01	Tunnel	17:25:00.12	37.168631	-116.206954	7,490	-1,320	Weapons Related	Low	300
301	Numbat ▀ Drillback release of radioactivity detected onsite only	12/12/1962	LANL	NNSS	U3bu	Shaft	18:45:00.12	37.046058	-116.016476	4,030	-761	Weapons Related	Low	301
302	Manatee Drillback release of radioactivity detected onsite only	12/14/1962	LLNL	NNSS	U9af	Shaft	18:00:00.16	37.124194	-116.040829	4,202	-196	Weapons Related	Low	302
303	Casselman ▀ Drillback release of radioactivity detected onsite only	02/08/1963	LLNL	NNSS	U10g	Shaft	16:00:00.16	37.148826	-116.052745	4,247	-994	Weapons Related	Low	303
304	Hatchie	02/08/1963	LLNL	NNSS	U9e	Shaft	16:00:01.15	37.125912	-116.039518	4,208	-200	Weapons Related	Low	304
305	Ferret	02/08/1963	LANL	NNSS	U3bf	Shaft	18:30:00.13	37.058292	-116.030132	4,052	-1,069	Weapons Related	Low	305
306	Acushi ▀	02/08/1963	LANL	NNSS	U3bg	Shaft	18:30:00.14	37.046085	-116.021966	4,022	-856	Weapons Related	Low	306
307	Chipmunk	02/15/1963	LANL	NNSS	U3ay	Shaft	17:00:00.13	37.048966	-116.032619	4,028	-195	Safety Experiment	Low	307

U.S. Nuclear Tests - By Date						July 1945 through September 1992								
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Storax – Continued						Operation Storax – Continued								
308	Kaweah ▀ Device development Drillback release of radioactivity detected onsite only	02/21/1963	LLNL	NNSS	U9ab	Shaft	19:47:00.14	37.120269	-116.046582	4,187	-745	Plowshare	3 kt	308
309	Carmel ▀ Drillback release of radioactivity detected onsite only	02/21/1963	LLNL	NNSS	U2h	Shaft	19:47:08.63	37.154760	-116.080754	4,390	-536	Weapons Related	Low	309
310	Jerboa ▀	03/01/1963	LANL	NNSS	U3at	Shaft	19:00:00.12	37.044463	-116.027363	4,016	-988	Weapons Related	Low	310
311	Toyah ▀ Drillback release of radioactivity detected onsite only	03/15/1963	LLNL	NNSS	U9ac	Shaft	16:22:53.14	37.125782	-116.045645	4,197	-429	Weapons Related	Low	311
312	Gerbil ▀	03/29/1963	LANL	NNSS	U3bp	Shaft	15:49:00.12	37.041675	-116.019265	4,012	-917	Weapons Related	Low	312
313	Ferret Prime ▀	04/05/1963	LANL	NNSS	U3by	Shaft	17:52:00.13	37.037310	-116.024781	4,002	-792	Weapons Related	Low	313
314	Coypu	04/10/1963	LANL	NNSS	U3af	Shaft	16:01:30.12	37.048763	-116.031182	4,028	-245	Safety Experiment	Low	314
315	Cumberland ▀ Drillback release of radioactivity detected onsite only	04/11/1963	LLNL	NNSS	U2e	Shaft	16:03:00.16	37.156630	-116.071834	4,352	-745	Weapons Related	Low	315
316	Kootanai ▀ Accidental and drillback release of radioactivity detected onsite only	04/24/1963	LLNL	NNSS	U9w	Shaft	16:09:30.14	37.120549	-116.037147	4,225	-597	Weapons Related	Low	316
317	Paisano ▀ Accidental release of radioactivity detected onsite only	04/24/1963	LLNL	NNSS	U9w1	Shaft	16:09:30.14	37.120479	-116.037045	4,225	-190	Weapons Related	Low	317
318	Gundi Prime ▀	05/09/1963	LANL	NNSS	U3db	Shaft	18:19:00.00	37.049351	-116.016455	4,043	-892	Weapons Related	Low	318
Note: Four storage-transportation tests were conducted on the Nevada Test and Training Range.						These tests were conducted during May and June 1963 as the joint US-UK Operation Roller Coaster.								
319	Double Tracks Operation Roller Coaster (Storage-Transportation) Plutonium dispersal Radioactivity detected outside withdrawn land off the NTTR	05/15/1963	LANL/DoD/UK	NTTR	-----	Surface	09:55:00.00	37.706091	-116.988191	4,972	1	Joint US-UK	Zero	319
320	Harkee ▀	05/17/1963	LANL	NNSS	U3bv	Shaft	14:55:00.00	37.043860	-116.016502	4,022	-792	Weapons Related	Low	320
321	Tejon	05/17/1963	LANL	NNSS	U3cg	Shaft	14:55:00.00	37.048291	-116.033225	4,026	-245	Safety Experiment	Low	321
322	Stones ▀ Drillback release of radioactivity detected onsite only	05/22/1963	LANL	NNSS	U9ae	Shaft	15:40:00.14	37.111002	-116.039936	4,213	-1,290	Weapons Related	Intermediate	322
323	Clean Slate I Operation Roller Coaster (Storage-Transportation) Plutonium dispersal Radioactivity detected outside withdrawn land off the NTTR	05/25/1963	LANL/DoD/UK	NTTR	-----	Surface	11:17:00.00	37.708495	-116.657860	5,380	1	Joint US-UK	Zero	323
324	Pleasant ▀ Accidental and drillback release of radioactivity detected onsite only	05/29/1963	LLNL	NNSS	U9ah	Shaft	15:03:30.16	37.128027	-116.044289	4,198	-692	Weapons Related	Low	324

U.S. Nuclear Tests - By Date						July 1945 through September 1992								
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Storax – Continued						Operation Storax – Continued								
325	Clean Slate II Operation Roller Coaster (Storage-Transportation) Plutonium dispersal Radioactivity not detected outside withdrawn land off the NTTR	05/31/1963	LANL/DoD/UK	NTTR	----	Surface	10:47:00.00	37.761125	-116.614428	5,390	1	Joint US-UK	Zero	325
326	Yuba Accidental release of radioactivity detected onsite only Accidental and drillback release of radioactivity detected offsite	06/05/1963	LLNL	NNSS	U12b.10	Tunnel	17:00:00.12	37.196527	-116.210043	7,438	-796	Weapons Related	3.1 kt	326
327	Hutia ▾	06/06/1963	LANL	NNSS	U3bc	Shaft	14:00:00.13	37.044236	-116.037230	4,019	-442	Weapons Related	Low	327
328	Apshapa Accidental and drillback release of radioactivity detected onsite only	06/06/1963	LLNL	NNSS	U9ai	Shaft	16:58:00.15	37.124606	-116.040853	4,204	-292	Weapons Related	Low	328
329	Clean Slate III Last atmospheric test conducted by the United States Operation Roller Coaster (Storage-Transportation) Plutonium dispersal Radioactivity detected outside withdrawn land off the NTTR	06/09/1963	LANL/DoD/UK	NTTR	----	Surface	10:33:00.00	37.759156	-116.681135	5,387	1	Joint US-UK	Zero	329
330	Mataco ▾	06/14/1963	LANL	NNSS	U3bk	Shaft	14:10:00.13	37.046073	-116.019218	4,026	-642	Weapons Related	Low	330
331	Kennebec ▾ Accidental and drillback release of radioactivity detected onsite only	06/25/1963	LLNL	NNSS	U2af	Shaft	23:00:00.15	37.131351	-116.068934	4,275	-742	Weapons Related	Low	331
Operation Niblick						Operation Niblick								
332	Pekan ▾ Drillback release of radioactivity detected onsite only	08/12/1963	LANL	NNSS	U3bw	Shaft	23:45:00.13	37.041660	-116.016517	4,015	-992	Weapons Related	Low	332
333	Satsop ▾	08/15/1963	LLNL	NNSS	U2g	Shaft	13:00:00.15	37.154044	-116.077499	4,373	-738	Weapons Related	Low	333
334	Kohocton Natches Simultaneous, separate holes Kohocton: Drillback release of radioactivity detected onsite only	08/23/1963 08/23/1963	LLNL LLNL	NNSS NNSS	U9ak U9ak1	Shaft Shaft	13:20:00.14 13:20:00.15	37.124914 37.124913	-116.036257 -116.036120	4,267 4,227	-836 -194	Weapons Related Weapons Related	Low Low	334
335	Ahtanum ▾ Drillback release of radioactivity detected onsite only	09/13/1963	LLNL	NNSS	U2l	Shaft	13:53:00.15	37.163323	-116.081512	4,419	-742	Weapons Related	Low	335
336	Bilby ▾ First underground test reported felt in Las Vegas, Nevada Drillback release of radioactivity detected onsite only	09/13/1963	LANL	NNSS	U3cn	Shaft	17:00:00.13	37.060371	-116.022530	4,074	-2,344	Weapons Related	249 kt	336

U.S. Nuclear Tests - By Date						July 1945 through September 1992								
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Niblick – Continued						Operation Niblick – Continued								
337	Carp Accidental and drillback release of radioactivity detected onsite only	09/27/1963	LANL	NNSS	U3cb	Shaft	14:20:00.13	37.037266	-116.016562	4,002	-1,081	Weapons Related	Low	337
338	Narraguagus Drillback release of radioactivity detected onsite only	09/27/1963	LLNL	NNSS	U2f	Shaft	17:30:00.15	37.154731	-116.074231	4,360	-493	Weapons Related	Low	338
339	Grunion ▀ Drillback release of radioactivity detected onsite only	10/11/1963	LANL	NNSS	U3bz	Shaft	14:00:00.11	37.037296	-116.022040	4,002	-857	Weapons Related	Low	339
340	Tornillo ▀ Device development Drillback release of radioactivity detected onsite only	10/11/1963	LLNL	NNSS	U9aq	Shaft	21:00:00.16	37.118693	-116.034731	4,244	-491	Plowshare	380 tons	340
341	Clearwater Drillback release of radioactivity detected onsite only	10/16/1963	LLNL	NNSS	U12q	Shaft	17:00:00.14	37.198125	-116.230391	7,402	-1,788	Weapons Related	Intermediate	341
342	Mullet	10/17/1963	LLNL	NNSS	U2ag	Shaft	15:00:00.15	37.130761	-116.067831	4,270	-198	Safety Experiment	Low	342
343	Shoal Nuclear test detection-research experiment Drillback release of radioactivity detected onsite only	10/26/1963	LANL/DoD	near Fallon, Nevada	-----	Shaft	17:00:00.10	39.200060	-118.381210	5,250	-1,211	Vela Uniform	12 kt	343
344	Anchovy ▀ Accidental and drillback release of radioactivity detected onsite only	11/14/1963	LANL	NNSS	U3bq	Shaft	16:00:00.12	37.039478	-116.019280	4,007	-854	Weapons Related	Low	344
345	Mustang ▀ Drillback release of radioactivity detected onsite only	11/15/1963	LLNL	NNSS	U9at	Shaft	15:00:00.15	37.132248	-116.047757	4,212	-544	Weapons Related	Low	345
346	Greys ▀ Drillback release of radioactivity detected onsite only	11/22/1963	LLNL	NNSS	U9ax	Shaft	17:30:00.15	37.119274	-116.046042	4,182	-988	Weapons Related	Intermediate	346
347	Barracuda Sardine ▀ Simultaneous, separate holes Barracuda, Sardine: Accidental and drillback release of radioactivity detected onsite only	12/04/1963 12/04/1963	LANL LANL	NNSS NNSS	U3cr U3ch	Shaft Shaft	16:38:30.13 16:38:30.13	37.043839 37.039537	-116.013076 -116.030248	4,031 4,007	-864 -860	Weapons Related Weapons Related	Low Low	347
348	Eagle ▀ Accidental and drillback release of radioactivity detected offsite	12/12/1963	LLNL	NNSS	U9av	Shaft	16:02:00.15	37.130971	-116.044749	4,203	-541	Weapons Related	5.3 kt	348
349	Tuna Accidental release of radioactivity detected onsite only	12/20/1963	LANL	NNSS	U3de	Shaft	15:24:00.13	37.052743	-116.034247	4,035	-1,359	Weapons Related	Low	349
350	Fore ▀ Drillback release of radioactivity detected onsite only	01/16/1964	LLNL	NNSS	U9ao	Shaft	16:00:00.15	37.142233	-116.049975	4,231	-1,611	Weapons Related	20 to 200 kt	350

U.S. Nuclear Tests - By Date						July 1945 through September 1992								
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Niblick – Continued						Operation Niblick – Continued								
351	Oconto ▾ Drillback release of radioactivity detected offsite by aircraft only	01/23/1964	LLNL	NNSS	U9ay	Shaft	16:00:00.15	37.126372	-116.037164	4,221	-868	Weapons Related	10.5 kt	351
352	Club ▾ Accidental and drillback release of radioactivity detected onsite only	01/30/1964	LLNL	NNSS	U2aa	Shaft	16:00:00.15	37.136163	-116.071528	4,296	-592	Weapons Related	Less than 20 kt	352
353	Solendon ▾ Accidental release of radioactivity detected onsite only	02/12/1964	LANL	NNSS	U3cz	Shaft	15:38:00.12	37.056564	-116.030109	4,046	-493	Weapons Related	Less than 20 kt	353
354	Bunker ▾ Accidental and drillback release of radioactivity detected onsite only	02/13/1964	LLNL	NNSS	U9bb	Shaft	15:30:00.15	37.131968	-116.033210	4,254	-743	Weapons Related	Less than 20 kt	354
355	Bonefish ▾ Drillback release of radioactivity detected onsite only	02/18/1964	LANL	NNSS	U3bt	Shaft	15:37:19.12	37.059338	-116.034192	4,050	-987	Weapons Related	Less than 20 kt	355
356	Mackerel	02/18/1964	LANL	NNSS	U4b	Shaft	15:37:37.12	37.095580	-116.051591	4,145	-1,095	Weapons Related	Less than 20 kt	356
357	Klickitat ▾ Device development Drillback release of radioactivity detected onsite only	02/20/1964	LLNL	NNSS	U10e	Shaft	15:30:00.15	37.150838	-116.040983	4,266	-1,613	Plowshare	70 kt	357
358	Handicap ▾ Accidental and drillback release of radioactivity detected onsite only	03/12/1964	LLNL	NNSS	U9ba	Shaft	15:00:00.01	37.129888	-116.037207	4,225	-471	Weapons Related	Less than 20 kt	358
359	Pike ▾ Accidental release of radioactivity detected offsite	03/13/1964	LANL	NNSS	U3cy	Shaft	16:02:00.12	37.050421	-116.012330	4,060	-376	Weapons Related	Less than 20 kt	359
360	Hook ▾ Accidental and drillback release of radioactivity detected onsite only	04/14/1964	LLNL	NNSS	U9bc	Shaft	14:40:00.15	37.128878	-116.030698	4,274	-670	Weapons Related	Less than 20 kt	360
361	Sturgeon ▾ Drillback release of radioactivity detected onsite only	04/15/1964	LANL	NNSS	U3bo	Shaft	14:30:00.12	37.043873	-116.019236	4,019	-491	Weapons Related	Less than 20 kt	361
362	Bogey Accidental and drillback release of radioactivity detected onsite only	04/17/1964	LLNL	NNSS	U9au	Shaft	15:29:52.28	37.119437	-116.034762	4,238	-391	Weapons Related	Less than 20 kt	362
363	Turf ▾ Drillback release of radioactivity detected onsite only	04/24/1964	LLNL	NNSS	U10c	Shaft	20:10:00.15	37.149544	-116.056260	4,322	-1,661	Weapons Related	20 to 200 kt	363
364	Pipefish ▾ Accidental release of radioactivity detected onsite only	04/29/1964	LANL	NNSS	U3co	Shaft	20:47:00.12	37.039520	-116.027503	4,006	-859	Weapons Related	Less than 20 kt	364
365	Driver Accidental and drillback release of radioactivity detected onsite only	05/07/1964	LLNL	NNSS	U9ar	Shaft	13:00:00.15	37.120213	-116.041167	4,200	-486	Weapons Related	Less than 20 kt	365

U.S. Nuclear Tests - By Date						July 1945 through September 1992								
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Niblick – Continued						Operation Niblick – Continued								
366	Backswing ▾ Accidental and drillback release of radioactivity detected onsite only	05/14/1964	LLNL	NNSS	U9aw	Shaft	14:40:00.15	37.117305	-116.039815	4,213	-536	Weapons Related	Less than 20 kt	366
367	Minnow ▾	05/15/1964	LANL	NNSS	U3cv	Shaft	16:15:00.12	37.041639	-116.013094	4,022	-792	Weapons Related	Less than 20 kt	367
368	Ace ▾ Device development Accidental and drillback release of radioactivity detected onsite only	06/11/1964	LLNL	NNSS	U2n	Shaft	16:45:00.15	37.148555	-116.076866	4,353	-874	Plowshare	3 kt	368
369	Bitterling ▾	06/12/1964	LANL	NNSS	U3cu	Shaft	14:01:00.10	37.038898	-116.013121	4,039	-632	Weapons Related	Less than 20 kt	369
370	Duffer ▾ Drillback release of radioactivity detected onsite only	06/18/1964	LLNL	NNSS	U10ds	Shaft	13:30:00.20	37.165947	-116.039283	4,312	-1,466	Weapons Related	Less than 20 kt	370
371	Fade ▾ Accidental and drillback release of radioactivity detected onsite only	06/25/1964	LLNL	NNSS	U9be	Shaft	13:30:00.14	37.111087	-116.029646	4,288	-673	Weapons Related	Less than 20 kt	371
372	Dub ▾ Device development Accidental and drillback release of radioactivity detected onsite only	06/30/1964	LLNL	NNSS	U10a	Shaft	13:33:00.14	37.174380	-116.057265	4,293	-848	Plowshare	11.7 kt	372
Operation Whetstone						Operation Whetstone								
373	Bye ▾ Drillback release of radioactivity detected onsite only	07/16/1964	LLNL	NNSS	U10i	Shaft	13:15:00.15	37.182162	-116.046217	4,335	-1,282	Weapons Related	20 to 200 kt	373
374	Cormorant Accidental and drillback release of radioactivity detected onsite only	07/17/1964	LANL/UK	NNSS	U3df	Shaft	17:18:30.03	37.017564	-116.030428	3,975	-891	Joint US-UK	Less than 20 kt	374
375	Links Accidental and drillback release of radioactivity detected onsite only	07/23/1964	LLNL	NNSS	U9bf	Shaft	13:30:00.15	37.113711	-116.032882	4,265	-395	Weapons Related	Less than 20 kt	375
376	Trogon	07/24/1964	LANL	NNSS	U3dj	Shaft	18:30:00.04	37.046036	-116.013053	4,039	-633	Weapons Related	Less than 20 kt	376
377	Alva ▾ Accidental and drillback release of radioactivity detected offsite by aircraft only	08/19/1964	LLNL	NNSS	U2j	Shaft	16:00:00.14	37.158968	-116.083968	4,420	-545	Weapons Related	4.4 kt	377
378	Canvasback Drillback release of radioactivity detected onsite only	08/22/1964	LANL	NNSS	U3cp	Shaft	22:17:00.06	37.065281	-116.016319	4,113	-1,469	Weapons Related	Less than 20 kt	378
379	Player	08/27/1964	LLNL	NNSS	U9cc	Shaft	14:30:00.15	37.117311	-116.041530	4,201	-296	Safety Experiment	Less than 20 kt	379
380	Haddock	08/28/1964	LANL	NNSS	U3dl	Shaft	17:06:00.04	37.066970	-116.023153	4,097	-1,193	Weapons Related	Less than 20 kt	380
381	Guanay ▾	09/04/1964	LANL	NNSS	U3di	Shaft	18:15:00.08	37.017527	-116.023574	3,975	-856	Weapons Related	Less than 20 kt	381
382	Spoon ▾ Drillback release of radioactivity detected onsite only	09/11/1964	LLNL	NNSS	U9bd	Shaft	14:00:00.10	37.113676	-116.026366	4,316	-590	Weapons Related	Less than 20 kt	382
383	Courser	09/25/1964	LANL/UK	NNSS	U3do	Shaft	17:02:00.03	37.072423	-116.016258	4,148	-1,178	Joint US-UK	Zero	383

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Whetstone – Continued							Operation Whetstone – Continued							
384	Auk	10/02/1964	LANL	NNSS	U7b	Shaft	20:03:00.04	37.077878	-116.009355	4,203	-1,484	Weapons Related	Less than 20 kt	384
385	Par ▾ Isotope production and explosive development Drillback release of radioactivity detected onsite only	10/09/1964	LLNL	NNSS	U2p	Shaft	14:00:00.12	37.151301	-116.077864	4,368	-1,331	Plowshare	38 kt	385
386	Turnstone Barbel Simultaneous, separate holes Barbel: Drillback release of radioactivity detected onsite only	10/16/1964 10/16/1964	LANL LANL	NNSS NNSS	U3dt U3bx	Shaft Shaft	15:59:30.03 15:59:30.04	37.033470 37.039550	-116.025670 -116.016800	3,996 4,007	-412 -849	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	386
387	Salmon Nuclear test detection research experiment	10/22/1964	LLNL/DoD	near Hattiesburg, Mississippi	-----	Shaft	16:00:00.00	31.142300	-89.570000	265	-2,710	Vela Uniform	5.3 kt	387
388	Garden	10/23/1964	LLNL	NNSS	U9aj	Shaft	15:00:00.94	37.116986	-116.032018	4,269	-491	Weapons Related	Less than 20 kt	388
389	Forest Drillback release of radioactivity detected onsite only	10/31/1964	LLNL	NNSS	U7a	Shaft	17:04:58.61	37.107161	-116.033112	4,255	-1,269	Weapons Related	Less than 20 kt	389
390	Handcar Effects of contained explosion in carbonate rock Accidental and drillback release of radioactivity detected onsite only	11/05/1964	LLNL	NNSS	U10b	Shaft	15:00:00.11	37.174324	-116.067903	4,375	-1,322	Plowshare	12 kt	390
391	Crepe ▾ Drillback release of radioactivity detected onsite only	12/05/1964	LLNL	NNSS	U2q	Shaft	21:15:00.10	37.114376	-116.054313	4,195	-1,326	Weapons Related	20 to 200 kt	391
392	Drill (Source-Lower) ▾ Drill (Target-Upper) ▾ Simultaneous, same hole Drill (Source-Lower): Accidental and drillback release of radioactivity detected offsite	12/05/1964 12/05/1964	LLNL LLNL	NNSS NNSS	U2ai U2ai	Shaft Shaft	21:15:00.16 21:15:00.16	37.134236 37.134236	-116.070624 -116.070624	4,286 4,286	-725 -624	Weapons Related Weapons Related	Less than 20 kt 3.4 kt	392
393	Parrot ▾ Accidental release of radioactivity detected offsite	12/16/1964	LANL	NNSS	U3dk	Shaft	20:00:00.04	37.034775	-116.013150	4,001	-592	Weapons Related	1.3 kt	393
394	Cassowary Hoopoe Simultaneous, separate holes	12/16/1964 12/16/1964	LANL LANL	NNSS NNSS	U3bn U3cf	Shaft Shaft	20:00:00.07 20:00:00.07	37.039511 37.048378	-116.024762 -116.034098	4,005 4,026	-493 -231	Weapons Related Safety Experiment	Less than 20 kt Less than 20 kt	394
395	Mudpack ▾ Drillback release of radioactivity detected onsite only	12/16/1964	LLNL/DoD	NNSS	U10n	Shaft	20:10:00.10	37.177757	-116.067879	4,386	-498	Weapons Effects	2.7 kt	395
396	Sulky Excavation test of explosive buried at greater depth than crater-type tests in relation to yield Produced mound of broken rock (a "retarc") Radioactivity detected offsite	12/18/1964	LLNL	NNSS	U18d	Shaft	19:35:00.09	37.082661	-116.343440	5,329	-89	Plowshare	92 tons	396

U.S. Nuclear Tests - By Date						July 1945 through September 1992								
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Whetstone – Continued						Operation Whetstone – Continued								
397	Wool ▀ Drillback release of radioactivity detected onsite only	01/14/1965	LLNL	NNSS	U9bh	Shaft	16:00:00.14	37.118976	-116.025639	4,310	-709	Weapons Related	Less than 20 kt	397
398	Tern ▀ Accidental release of radioactivity detected onsite only	01/29/1965	LANL	NNSS	U3dw	Shaft	18:22:00.03	37.044943	-116.014094	4,032	-691	Weapons Related	Less than 20 kt	398
399	Cashmere ▀ Drillback release of radioactivity detected onsite only	02/04/1965	LLNL	NNSS	U2ad	Shaft	15:30:00.11	37.130698	-116.062466	4,256	-762	Weapons Related	Less than 20 kt	399
400	Alpaca Accidental release of radioactivity detected offsite	02/12/1965	LLNL	NNSS	U2a	Shaft	15:10:29.49	37.164484	-116.077415	4,402	-738	Weapons Related	330 tons	400
401	Merlin ▀ Accidental release of radioactivity detected onsite only	02/16/1965	LANL	NNSS	U3ct	Shaft	17:30:00.04	37.051593	-116.024664	4,038	-972	Weapons Related	10.1 kt	401
402	Wishbone ▀ Accidental and drillback release of radioactivity detected onsite only	02/18/1965	LLNL/DoD	NNSS	U5a	Shaft	16:18:47.15	36.817963	-115.950093	3,086	-574	Weapons Effects	Less than 20 kt	402
403	Seersucker Accidental and drillback release of radioactivity detected onsite only	02/19/1965	LLNL	NNSS	U9bm	Shaft	15:28:54.11	37.117230	-116.031855	4,269	-473	Weapons Related	Less than 20 kt	403
404	Wagtail Drillback release of radioactivity detected onsite only	03/03/1965	LANL	NNSS	U3an	Shaft	19:13:00.03	37.064465	-116.038050	4,060	-2,459	Weapons Related	20 to 200 kt	404
405	Suede Drillback release of radioactivity detected onsite only	03/20/1965	LLNL	NNSS	U9bk	Shaft	15:30:49.10	37.115376	-116.027364	4,307	-470	Weapons Related	Less than 20 kt	405
406	Cup ▀ Drillback release of radioactivity detected onsite only	03/26/1965	LLNL	NNSS	U9cb	Shaft	15:34:08.16	37.147554	-116.043762	4,245	-1,775	Weapons Related	20 to 200 kt	406
407	Kestrel ▀ Drillback release of radioactivity detected onsite only	04/05/1965	LANL	NNSS	U3dd	Shaft	21:00:00.04	37.025767	-116.023511	3,985	-1,466	Weapons Related	Less than 20 kt	407
408	Palanquin Radioactivity detected offsite	04/14/1965	LLNL	NNSS	U20k	Crater	13:14:00.10	37.280320	-116.524449	6,194	-280	Plowshare	4.3 kt	408
409	Gum Drop Controlled and drillback release of radioactivity detected onsite only	04/21/1965	LLNL/DoD	NNSS	U16a.02	Tunnel	22:00:00.03	37.007111	-116.202949	6,425	-1,000	Weapons Effects	Less than 20 kt	409
410	Chenille ▀ Accidental and drillback release of radioactivity detected onsite only	04/22/1965	LLNL	NNSS	U9bg	Shaft	13:39:00.10	37.111374	-116.031359	4,276	-462	Weapons Related	Less than 20 kt	410
411	Muscovy ▀	04/23/1965	LANL	NNSS	U3dx	Shaft	21:44:00.04	37.017373	-115.996175	3,991	-592	Weapons Related	Less than 20 kt	411
412	Tee ▀ Accidental and drillback release of radioactivity detected offsite	05/07/1965	LLNL	NNSS	U2ab	Shaft	15:47:11.15	37.140318	-116.067522	4,297	-624	Weapons Effects	7 kt	412

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Operation Whetstone – Continued						Operation Whetstone – Continued								
413	Buteo	05/12/1965	LANL	NNSS	U20a	Shaft	18:15:00.10	37.242607	-116.431741	6,520	-2,282	Weapons Related	Less than 20 kt	413
414	Cambric	05/14/1965	LLNL	NNSS	U5e	Shaft	14:57:52.15	36.823339	-115.967700	3,137	-967	Weapons Related	750 tons	414
415	Scaup	05/14/1965	LANL	NNSS	U3daS	Shaft	17:32:36.23	37.058797	-116.011408	4,098	-1,401	Weapons Related	Less than 20 kt	415
416	Tweed	05/21/1965	LLNL	NNSS	U9bn	Shaft	13:08:52.11	37.118498	-116.028555	4,292	-933	Weapons Related	Less than 20 kt	416
417	Petrel	06/11/1965	LANL	NNSS	U3dy	Shaft	19:45:00.04	37.042764	-116.017885	4,016	-593	Weapons Related	1.3 kt	417
418	Organdy	06/11/1965	LLNL	NNSS	U9bo	Shaft	20:28:37.11	37.115727	-116.024123	4,332	-568	Weapons Related	Less than 20 kt	418
419	Diluted Waters	06/16/1965	LLNL/DoD	NNSS	U5b	Shaft	16:30:00.15	36.818004	-115.956925	3,095	-632	Weapons Effects	Less than 20 kt	419
420	Tiny Tot	06/17/1965	LLNL/DoD	NNSS	U15e	Tunnel	17:00:00.09	37.223368	-116.057840	5,022	-364	Weapons Effects	Less than 20 kt	420
Operation Flintlock						Operation Flintlock								
421	Izzer	07/16/1965	LLNL	NNSS	U9bp	Shaft	13:04:24.10	37.114951	-116.033044	4,264	-537	Weapons Related	Less than 20 kt	421
422	Pongee	07/22/1965	LLNL	NNSS	U2ah	Shaft	13:21:08.11	37.131746	-116.067724	4,270	-440	Weapons Related	Less than 20 kt	422
423	Bronze	07/23/1965	LANL	NNSS	U7f	Shaft	17:00:00.04	37.097785	-116.033872	4,213	-1,742	Weapons Related	20 to 200 kt	423
424	Mauve	08/06/1965	LANL	NNSS	U3dp	Shaft	17:23:30.04	37.017616	-116.040704	3,978	-1,053	Weapons Related	Less than 20 kt	424
425	Ticking	08/21/1965	LLNL	NNSS	U9bj	Shaft	13:43:08.15	37.112583	-116.026890	4,314	-690	Weapons Related	Less than 20 kt	425
426	Centaur	08/27/1965	LLNL	NNSS	U2ak	Shaft	13:51:13.11	37.137259	-116.070943	4,299	-564	Weapons Related	Less than 20 kt	426
427	Moa	09/01/1965	LANL	NNSS	U3ed	Shaft	20:08:00.04	37.037256	-116.014845	4,005	-635	Weapons Related	Less than 20 kt	427
	Screamer	09/01/1965	LANL	NNSS	U3dg	Shaft	20:08:00.04	37.022945	-116.009829	3,975	-991	Weapons Effects	Less than 20 kt	
428	Charcoal	09/10/1965	LANL/UK	NNSS	U7g	Shaft	17:12:00.03	37.077921	-116.017582	4,172	-1,494	Joint US-UK	20 to 200 kt	428
429	Elkhart	09/17/1965	LLNL	NNSS	U9bs	Shaft	15:08:23.10	37.110981	-116.035477	4,245	-723	Weapons Related	Less than 20 kt	429
430	Long Shot	10/29/1965	LANL/DoD	Amchitka, Alaska	----	Shaft	21:00:00.08	51.436120	179.179220	125	-2,297	Vela Uniform	80 kt	430

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Operation Flintlock – Continued						Operation Flintlock – Continued								
431	Sepia ▀ Drillback release of radioactivity detected onsite only	11/12/1965	LANL	NNSS	U3en	Shaft	18:00:00.05	37.049936	-116.022961	4,033	-791	Weapons Related	Less than 20 kt	431
432	Kermet ▀ Accidental and drillback release of radioactivity detected onsite only	11/23/1965	LLNL	NNSS	U2c	Shaft	18:17:32.10	37.161846	-116.071790	4,368	-644	Weapons Related	Less than 20 kt	432
433	Corduroy ▀ Drillback release of radioactivity detected onsite only	12/03/1965	LLNL	NNSS	U10k	Shaft	15:13:02.10	37.164690	-116.053221	4,273	-2,227	Weapons Related	20 to 200 kt	433
434	Emerson ▀ Accidental and drillback release of radioactivity detected onsite only	12/16/1965	LLNL	NNSS	U2al	Shaft	15:39:18.15	37.140792	-116.064050	4,289	-853	Weapons Related	Less than 20 kt	434
435	Buff ▀	12/16/1965	LANL	NNSS	U3dh	Shaft	19:15:00.04	37.072497	-116.029969	4,102	-1,642	Weapons Related	20 to 200 kt	435
436	Maxwell Drillback release of radioactivity detected onsite only	01/13/1966	LLNL	NNSS	U9br	Shaft	15:37:43.10	37.116165	-116.028403	4,298	-600	Weapons Related	Less than 20 kt	436
437	Lampblack	01/18/1966	LANL	NNSS	U7i	Shaft	18:35:00.04	37.091654	-116.019550	4,246	-1,842	Weapons Related	20 to 200 kt	437
438	Sienna ▀ Drillback release of radioactivity detected onsite only	01/18/1966	LANL	NNSS	U3cj	Shaft	18:35:00.04	37.037278	-116.019303	4,003	-902	Weapons Related	Less than 20 kt	438
439	Dovekie ▀	01/21/1966	LANL	NNSS	U3cd	Shaft	18:28:00.04	37.031770	-116.016605	3,991	-1,093	Weapons Related	Less than 20 kt	439
440	Reo ▀ Accidental and drillback release of radioactivity detected onsite only	01/22/1966	LLNL	NNSS	U10m	Shaft	15:17:19.10	37.157159	-116.039558	4,296	-683	Weapons Related	Less than 20 kt	440
441	Plaid II ▀ Accidental and drillback release of radioactivity detected onsite only	02/03/1966	LLNL	NNSS	U2r	Shaft	18:17:37.10	37.126269	-116.070340	4,260	-881	Weapons Related	Less than 20 kt	441
442	Rex Drillback release of radioactivity detected onsite only	02/24/1966	LLNL	NNSS	U20h	Shaft	15:55:07.04	37.271783	-116.434726	6,557	-2,202	Weapons Related	19 kt	442
443	Red Hot Accidental release of radioactivity detected offsite	03/05/1966	LANL/DoD	NNSS	U12g.06	Tunnel	18:15:00.10	37.174446	-116.209226	7,551	-1,330	Weapons Effects	Less than 20 kt	443
444	Cinnamon Finfoot ▀ Simultaneous, separate holes Finfoot: Accidental release of radioactivity detected onsite only	03/07/1966 03/07/1966	LANL LANL	NNSS NNSS	U3dm U3du	Shaft Shaft	18:41:00.04 18:41:00.07	37.034601 37.037340	-116.031660 -116.030263	4,000 4,004	-393 -642	Safety Experiment Weapons Related	Less than 20 kt Less than 20 kt	444
445	Clymer ▀ Drillback release of radioactivity detected onsite only	03/12/1966	LLNL	NNSS	U9ce	Shaft	18:04:13.11	37.143627	-116.053391	4,242	-1,303	Weapons Related	Less than 20 kt	445
446	Purple ▀	03/18/1966	LANL	NNSS	U3ds	Shaft	19:00:00.04	37.009209	-116.009951	3,959	-1,092	Weapons Related	Less than 20 kt	446

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Operation Flintlock – Continued						Operation Flintlock – Continued								
447	Templar Excavation device development Drillback release of radioactivity detected onsite only	03/24/1966	LLNL	NNSS	U9bt	Shaft	14:55:28.14	37.113290	-116.032221	4,271	-492	Plowshare	370 tons	447
448	Lime	04/01/1966	LANL	NNSS	U7j	Shaft	18:40:00.04	37.102659	-116.020804	4,326	-1,842	Weapons Related	Less than 20 kt	448
449	Stutz ▀ Drillback release of radioactivity detected onsite only	04/06/1966	LLNL	NNSS	U2ca	Shaft	13:57:17.10	37.139472	-116.141747	4,872	-742	Weapons Related	Less than 20 kt	449
450	Tomato ▀	04/07/1966	LANL	NNSS	U3ek	Shaft	22:27:30.04	37.017361	-115.993093	4,010	-742	Weapons Related	Less than 20 kt	450
451	Duryea Drillback release of radioactivity detected onsite only	04/14/1966	LLNL	NNSS	U20a-1	Shaft	14:13:43.10	37.242607	-116.431741	6,520	-1,784	Weapons Related	70 kt	451
452	Fenton ▀ Accidental and drillback release of radioactivity detected offsite by aircraft only	04/23/1966	LLNL	NNSS	U2m1	Shaft	14:55:26.14	37.160491	-116.083743	4,423	-549	Weapons Related	1.4 kt	452
453	Pin Stripe Accidental release of radioactivity detected offsite	04/25/1966	LANL/DoD	NNSS	U11b	Shaft	18:38:00.14	36.887407	-115.941661	3,586	-970	Weapons Effects	Less than 20 kt	453
454	Ochre	04/29/1966	LANL	NNSS	U3ec	Shaft	13:33:00.04	37.043620	-116.023357	4,013	-414	Safety Experiment	Less than 20 kt	454
455	Traveler ▀ Drillback release of radioactivity detected onsite only	05/04/1966	LLNL	NNSS	U2cd	Shaft	13:32:17.09	37.137027	-116.138007	4,781	-648	Weapons Related	Less than 20 kt	455
456	Cyclamen ▀ Included heavy element experiment	05/05/1966	LANL	NNSS	U3cx	Shaft	14:00:00.04	37.050572	-116.038720	4,036	-1,001	Weapons Related	12 kt	456
457	Chartreuse	05/06/1966	LANL	NNSS	U19d	Shaft	15:00:00.08	37.347938	-116.322827	6,861	-2,188	Weapons Related	73 kt	457
458	Tapestry ▀ Accidental and drillback release of radioactivity detected onsite only	05/12/1966	LLNL	NNSS	U2an	Shaft	19:37:26.20	37.134240	-116.071989	4,291	-816	Weapons Related	Less than 20 kt	458
459	Piranha ▀	05/13/1966	LANL	NNSS	U7e	Shaft	13:30:00.04	37.086803	-116.034310	4,146	-1,800	Weapons Related	20 to 200 kt	459
460	Dumont ▀ Drillback release of radioactivity detected onsite only	05/19/1966	LLNL	NNSS	U2t	Shaft	13:56:28.14	37.111103	-116.058798	4,195	-2,201	Weapons Related	20 to 200 kt	460
461	Discus Thrower ▀	05/27/1966	LANL/DoD	NNSS	U8a	Shaft	20:00:00.04	37.178340	-116.098631	4,615	-1,106	Weapons Effects	22 kt	461
462	Pile Driver Accidental release of radioactivity detected onsite only	06/02/1966	LANL/DoD	NNSS	U15a.01	Tunnel	15:30:00.09	37.227022	-116.056412	5,090	-1,518	Weapons Effects	62 kt	462
463	Tan ▀	06/03/1966	LANL	NNSS	U7k	Shaft	14:00:00.04	37.068410	-116.036173	4,070	-1,840	Weapons Related	20 to 200 kt	463
464	Puce	06/10/1966	LANL	NNSS	U3bs	Shaft	14:30:00.04	37.059367	-116.039682	4,053	-1,593	Weapons Related	Less than 20 kt	464
465	Double Play Accidental release of radioactivity detected offsite Controlled and drillback release of radioactivity detected onsite only	06/15/1966	LLNL/DoD	NNSS	U16a.03	Tunnel	17:00:00.04	37.009611	-116.203797	6,499	-1,075	Weapons Effects	Less than 20 kt	465

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Operation Flintlock – Continued						Operation Flintlock – Continued								
466	Kankakee ▾ Drillback release of radioactivity detected onsite only	06/15/1966	LLNL	NNSS	U10p	Shaft	18:02:47.13	37.171487	-116.049744	4,292	-1,492	Weapons Related	20 to 200 kt	466
467	Vulcan ▾ Device development Heavy element production Drillback release of radioactivity detected onsite only	06/25/1966	LLNL	NNSS	U2bd	Shaft	17:13:00.07	37.155257	-116.073029	4,354	-1,057	Plowshare	25 kt	467
468	Halfbeak	06/30/1966	LANL	NNSS	U19b	Shaft	22:15:00.07	37.315753	-116.299858	6,792	-2,688	Weapons Related	365 kt	468
Operation Latchkey						Operation Latchkey								
469	Saxon ▾ Excavation device development Drillback release of radioactivity detected onsite only	07/28/1966	LLNL	NNSS	U2cc	Shaft	15:33:30.13	37.140440	-116.134038	4,719	-504	Plowshare	1.2 kt	469
470	Rovena ▾ Drillback release of radioactivity detected onsite only	08/10/1966	LLNL	NNSS	U10s	Shaft	13:16:00.07	37.168619	-116.048635	4,281	-635	Weapons Related	Less than 20 kt	470
471	Tangerine	08/12/1966	LANL	NNSS	U3eb	Shaft	15:36:00.05	37.046264	-116.030188	4,021	-288	Safety Experiment	Less than 20 kt	471
472	Derringer Accidental release of radioactivity detected offsite	09/12/1966	LANL/SNL/DoD	NNSS	U5i	Shaft	15:30:00.05	36.875842	-115.951559	3,395	-837	Weapons Effects	7.8 kt	472
473	Daiquiri	09/23/1966	LANL	NNSS	U7o	Shaft	18:00:00.04	37.103299	-116.036570	4,223	-1,841	Weapons Related	Less than 20 kt	473
474	Newark ▾ Drillback release of radioactivity detected onsite only	09/29/1966	LLNL	NNSS	U10u	Shaft	14:45:30.09	37.168610	-116.046919	4,285	-750	Weapons Related	Less than 20 kt	474
475	Khaki	10/15/1966	LANL	NNSS	U3et	Shaft	19:00:00.05	37.047027	-116.017846	4,031	-763	Weapons Related	Less than 20 kt	475
476	Simms ▾ Excavation device development Drillback release of radioactivity detected onsite only	11/05/1966	LLNL	NNSS	U10w	Shaft	14:45:00.00	37.169907	-116.048082	4,286	-652	Plowshare	2.3 kt	476
477	Ajax ▾ Accidental and drillback release of radioactivity detected onsite only	11/11/1966	LLNL	NNSS	U9al	Shaft	12:00:00.14	37.134409	-116.050724	4,202	-782	Weapons Related	Less than 20 kt	477
478	Cerise ▾ Accidental release of radioactivity detected onsite only	11/18/1966	LANL	NNSS	U3eu	Shaft	15:02:00.04	37.042727	-116.011200	4,031	-693	Weapons Related	Less than 20 kt	478
479	Vigil Accidental release of radioactivity detected onsite only	11/22/1966	LLNL	NNSS	U10ad	Shaft	15:00:00.13	37.169336	-116.049185	4,281	-307	Safety Experiment	Less than 20 kt	479
480	Sterling Nuclear test detection experiment Detonation in the same cavity created by the Salmon test	12/03/1966	LLNL/DoD	near Hattiesburg, Mississippi	-----	Shaft	12:15:00.05	31.142300	-89.570000	265	-2,710	Vela Uniform	380 tons	480

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Operation Latchkey – Continued						Operation Latchkey – Continued								
481	Sidecar ▀ Accidental release of radioactivity detected onsite only	12/13/1966	LANL	NNSS	U3ez	Shaft	17:50:00.04	37.034742	-116.007668	4,010	-788	Weapons Related	Less than 20 kt	481
482	New Point ▀ Accidental release of radioactivity detected onsite only	12/13/1966	LLNL/DoD	NNSS	U11c	Shaft	21:00:00.08	36.877209	-115.938776	3,381	-785	Weapons Effects	Less than 20 kt	482
483	Greeley ▀	12/20/1966	LLNL	NNSS	U20g	Shaft	15:30:00.08	37.302021	-116.409182	6,470	-3,991	Weapons Related	870 kt	483
484	Rivet I	01/18/1967	LLNL	NNSS	U10aa	Shaft	14:55:00.00	37.165072	-116.047418	4,273	-498	Weapons Related	Less than 20 kt	484
485	Nash ▀ Accidental release of radioactivity detected offsite	01/19/1967	LLNL	NNSS	U2ce	Shaft	16:45:00.14	37.143608	-116.136077	4,764	-1,194	Weapons Related	39 kt	485
486	Bourbon ▀	01/20/1967	LANL	NNSS	U7nS	Shaft	17:40:04.41	37.099826	-116.004708	4,374	-1,836	Weapons Related	20 to 200 kt	486
487	Rivet II ▀ Accidental release of radioactivity detected onsite only	01/26/1967	LLNL	NNSS	U10z	Shaft	16:30:00.00	37.164751	-116.048930	4,267	-648	Weapons Related	Less than 20 kt	487
488	Ward ▀	02/08/1967	LLNL	NNSS	U10x	Shaft	15:15:00.13	37.167476	-116.048002	4,278	-853	Weapons Related	Less than 20 kt	488
489	Persimmon ▀	02/23/1967	LANL	NNSS	U3dn	Shaft	18:34:00.04	37.017493	-116.016727	3,972	-981	Weapons Related	Less than 20 kt	489
490	Agile ▀	02/23/1967	LLNL	NNSS	U2v	Shaft	18:50:00.13	37.126802	-116.067248	4,256	-2,406	Weapons Related	20 to 200 kt	490
491	Rivet III ▀ Drillback release of radioactivity detected onsite only	03/02/1967	LLNL	NNSS	U10y	Shaft	15:00:00.00	37.165822	-116.049570	4,270	-898	Weapons Related	Less than 20 kt	491
492	Mushroom ▀ Accidental release of radioactivity detected onsite only	03/03/1967	LANL	NNSS	U3ef	Shaft	15:19:00.04	37.039433	-116.011061	4,019	-589	Weapons Related	Less than 20 kt	492
493	Fizz	03/10/1967	LANL	NNSS	U3fr	Shaft	15:00:00.04	37.046079	-116.030642	4,022	-386	Safety Experiment	Less than 20 kt	493
494	Oakland Drillback release of radioactivity detected onsite only	04/04/1967	LLNL	NNSS	U2bi	Shaft	14:20:00.15	37.161930	-116.083098	4,423	-543	Weapons Related	Less than 20 kt	494
495	Heilman Accidental and drillback release of radioactivity detected onsite only	04/06/1967	LLNL	NNSS	U2cg	Shaft	15:00:00.12	37.137276	-116.133552	4,699	-501	Weapons Related	Less than 20 kt	495
496	Fawn ▀	04/07/1967	LANL	NNSS	U3eo	Shaft	15:00:00.04	37.054329	-116.023095	4,047	-889	Weapons Related	Less than 20 kt	496
497	Chocolate ▀	04/21/1967	LANL	NNSS	U3es	Shaft	15:09:00.04	37.019257	-116.038296	3,979	-789	Weapons Related	Less than 20 kt	497
498	Effendi ▀	04/27/1967	LLNL	NNSS	U2ap	Shaft	14:45:00.00	37.138735	-116.064073	4,284	-725	Weapons Related	Less than 20 kt	498
499	Mickey ▀	05/10/1967	LANL	NNSS	U7m	Shaft	13:40:00.04	37.077804	-115.996158	4,280	-1,639	Weapons Related	20 to 200 kt	499
500	Commodore ▀ Drillback release of radioactivity detected onsite only	05/20/1967	LLNL	NNSS	U2am	Shaft	15:00:00.20	37.130361	-116.064819	4,258	-2,445	Weapons Related	250 kt	500
501	Scotch	05/23/1967	LANL	NNSS	U19aS	Shaft	14:00:00.04	37.275028	-116.370854	6,761	-3,207	Weapons Related	155 kt	501
502	Absinthe	05/26/1967	LANL	NNSS	U3ep	Shaft	12:30:00.03	37.044975	-116.019919	4,022	-389	Safety Experiment	Less than 20 kt	502
503	Knickerbocker Drillback release of radioactivity detected onsite only	05/26/1967	LLNL	NNSS	U20d	Shaft	15:00:01.50	37.247887	-116.481068	6,252	-2,075	Weapons Related	76 kt	503

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Latchkey – Continued						Operation Latchkey – Continued								
504	Switch Excavation device development Drillback release of radioactivity detected onsite only	06/22/1967	LLNL	NNSS	U9bv	Shaft	13:10:00.00	37.125507	-116.029525	4,277	-991	Plowshare	3.1 kt	504
505	Midi Mist Controlled release of radioactivity detected offsite by aircraft only Drillback release of radioactivity detected onsite only	06/26/1967	LLNL/DoD	NNSS	U12n.02	Tunnel	16:00:00.08	37.202059	-116.208708	7,306	-1,237	Weapons Effects	Less than 20 kt	505
506	Umber ▀ Accidental release of radioactivity detected offsite	06/29/1967	LANL	NNSS	U3em	Shaft	11:25:00.04	37.028519	-116.023488	3,988	-1,018	Weapons Effects	10 kt	506
Operation Crosstie						Operation Crosstie								
507	Vito	07/14/1967	LLNL	NNSS	U10ab	Shaft	13:30:00.08	37.165201	-116.045800	4,280	-317	Safety Experiment	Less than 20 kt	507
508	Stanley ▀ Drillback release of radioactivity detected onsite only	07/27/1967	LLNL	NNSS	U10q	Shaft	13:00:00.12	37.148685	-116.049404	4,237	-1,587	Weapons Related	20 to 200 kt	508
509	Gibson ▀	08/04/1967	LANL	NNSS	U3ew	Shaft	14:00:00.04	37.024338	-116.013239	3,980	-790	Weapons Related	Less than 20 kt	509
510	Washer Drillback release of radioactivity detected onsite only	08/10/1967	LLNL	NNSS	U10r	Shaft	14:10:00.00	37.156644	-116.048142	4,257	-1,534	Weapons Related	Less than 20 kt	510
511	Bordeaux ▀	08/18/1967	LANL	NNSS	U3dr	Shaft	20:12:30.04	37.012107	-116.037327	3,970	-1,089	Weapons Related	Less than 20 kt	511
512	Lexington ▀ Gas sampling and drillback release of radioactivity detected onsite only	08/24/1967	LLNL	NNSS	U2bm	Shaft	13:30:00.00	37.162684	-116.075033	4,386	-743	Weapons Related	Less than 20 kt	512
513	Door Mist Controlled and accidental release of radioactivity detected offsite	08/31/1967	LANL/DoD	NNSS	U12g.07	Tunnel	16:30:00.04	37.177511	-116.209811	7,625	-1,463	Weapons Effects	Less than 20 kt	513
514	Yard ▀ Drillback release of radioactivity detected onsite only	09/07/1967	LLNL	NNSS	U10af	Shaft	13:45:00.00	37.153110	-116.053654	4,257	-1,708	Weapons Related	20 to 200 kt	514
515	Gilroy Drillback release of radioactivity detected onsite only	09/15/1967	LANL	NNSS	U3ex	Shaft	17:30:00.04	37.034822	-116.021715	3,998	-789	Weapons Related	Less than 20 kt	515
516	Marvel ▀ Emplacement technique experiment Accidental and drillback release of radioactivity detected onsite only	09/21/1967	LLNL	NNSS	U10dS1	Shaft	20:45:00.00	37.165768	-116.039213	4,312	-577	Plowshare	2.2 kt	516
517	Zaza ▀	09/27/1967	LANL	NNSS	U4c	Shaft	17:00:00.04	37.098718	-116.054096	4,158	-2,188	Weapons Related	20 to 200 kt	517
518	Lanpher ▀ Drillback release of radioactivity detected onsite only	10/18/1967	LLNL	NNSS	U2x	Shaft	14:30:00.08	37.115537	-116.058505	4,206	-2,346	Weapons Related	20 to 200 kt	518
519	Sazerac ▀ Drillback release of radioactivity detected onsite only	10/25/1967	LANL	NNSS	U3fa	Shaft	14:30:00.06	37.031558	-116.027224	3,995	-989	Weapons Related	Less than 20 kt	519

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Crosstie – Continued						Operation Crosstie – Continued								
520	Cognac Accidental release of radioactivity detected onsite only	10/25/1967	LANL	NNSS	U3fm	Shaft	14:30:00.14	37.049749	-116.040443	4,034	-789	Weapons Related	Less than 20 kt	520
521	Worth Drillback release of radioactivity detected onsite only	10/25/1967	LLNL	NNSS	U10ag	Shaft	14:45:00.08	37.156291	-116.049466	4,251	-646	Weapons Related	Less than 20 kt	521
522	Cobbler	11/08/1967	LANL	NNSS	U7u	Shaft	15:00:00.04	37.091760	-116.036669	4,164	-2,189	Weapons Related	Less than 20 kt	522
523	Polka Gas sampling and drillback release of radioactivity detected onsite only	12/06/1967	LLNL	NNSS	U10ai	Shaft	13:00:00.00	37.159219	-116.053821	4,263	-640	Weapons Related	Less than 20 kt	523
524	Gasbuggy Joint Government/industry gas stimulation experiment	12/10/1967	LLNL	near Farmington, New Mexico	-----	Shaft	19:30:00.14	36.677905	-107.209025	7,204	-4,227	Plowshare	29 kt	524
525	Stilt	12/15/1967	LANL	NNSS	U3fh	Shaft	15:00:00.04	37.036640	-116.002858	4,038	-1,091	Weapons Related	Less than 20 kt	525
526	Hupmobile ▀ Accidental release of radioactivity detected offsite	01/18/1968	LLNL	NNSS	U2y	Shaft	16:30:00.13	37.145534	-116.066548	4,310	-810	Weapons Effects	7.4 kt	526
527	Staccato ▀ Drillback release of radioactivity detected onsite only	01/19/1968	LLNL	NNSS	U10ah	Shaft	15:00:00.00	37.156337	-116.054750	4,261	-1,455	Weapons Related	20 to 200 kt	527
528	Faultless Seismic calibration	01/19/1968	LLNL	Central Nevada	-----	Shaft	18:15:00.08	38.634221	-116.216221	6,030	-3,200	Weapons Related	200 to 1,000 kt	528
529	Brush Accidental release of radioactivity detected onsite only	01/24/1968	LANL	NNSS	U3eq	Shaft	15:00:00.04	37.042747	-116.014798	4,021	-388	Weapons Related	Less than 20 kt	529
530	Cabriolet Radioactivity detected offsite	01/26/1968	LLNL	NNSS	U20l	Crater	16:00:00.11	37.280797	-116.515339	6,197	-170	Plowshare	2.3 kt	530
531	Mallet ▀	01/31/1968	LANL	NNSS	U3fv	Shaft	15:30:00.04	37.000975	-116.010018	3,951	-788	Weapons Related	Less than 20 kt	531
532	Torch	02/21/1968	LANL	NNSS	U3fj	Shaft	15:00:00.04	37.041584	-116.002819	4,059	-789	Weapons Related	Less than 20 kt	532
533	Knox ▀ Drillback release of radioactivity detected onsite only	02/21/1968	LLNL	NNSS	U2at	Shaft	15:30:00.00	37.116509	-116.054567	4,199	-2,116	Weapons Related	20 to 200 kt	533
534	Dorsal Fin	02/29/1968	LANL/DoD	NNSS	U12e.10	Tunnel	17:08:30.04	37.184571	-116.212312	7,505	-1,345	Weapons Effects	Less than 20 kt	534
535	Russet Accidental and Special Packaging Operation release of radioactivity detected onsite only	03/05/1968	LANL/DoD	NNSS	U6a	Shaft	15:30:00.04	36.969998	-116.056680	3,930	-393	Weapons Related	Less than 20 kt	535

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Crosstie – Continued						Operation Crosstie – Continued								
536	Buggy-A Buggy-B Buggy-C Buggy-D Buggy-E Simultaneous, separate holes Row charge experiment – five simultaneous detonations Buggy-A, -B, -C, -D, -E: Radioactivity detected offsite	03/12/1968 03/12/1968 03/12/1968 03/12/1968 03/12/1968	LLNL LLNL LLNL LLNL NNSS	NNSS U30b U30c U30d U30e	U30a Crater Crater Crater Crater	17:04:00.11 17:04:00.11 17:04:00.11 17:04:00.11 17:04:00.11	37.007336 37.007471 37.007617 37.007772 37.007913	-116.370794 -116.371259 -116.371740 -116.372234 -116.372713	5,210 5,210 5,210 5,210 5,210	-165 -165 -165 -165 -165	Plowshare Plowshare Plowshare Plowshare Plowshare	1.08 kt 1.08 kt 1.08 kt 1.08 kt 1.08 kt	536	
537	Pommard	03/14/1968	LANL	NNSS	U3ee	Shaft	15:19:00.06	37.047677	-116.011675	4,053	-686	Weapons Related	1.5 kt	537
538	Stinger	03/22/1968	LANL	NNSS	U19I	Shaft	15:00:00.04	37.332546	-116.311550	6,766	-2,191	Weapons Related	20 to 200 kt	538
539	Milk Shake Accidental release of radioactivity detected onsite only	03/25/1968	LLNL/DoD	NNSS	U5k	Shaft	18:44:27.04	36.871674	-115.931994	3,349	-868	Weapons Effects	Less than 20 kt	539
540	Bevel	04/04/1968	LANL	NNSS	U3fu	Shaft	15:02:00.04	37.052264	-116.021742	4,043	-790	Weapons Related	Less than 20 kt	540
541	Noor ▀ Throw ▀ Simultaneous, separate holes Noor: Drillback release of radioactivity detected onsite only	04/10/1968 04/10/1968	LLNL LLNL	NNSS NNSS	U2be U2bg	Shaft Shaft	14:00:00.00 14:00:00.00	37.154329 37.156631	-116.079724 -116.083142	4,385 4,408	-1,253 -757	Weapons Related Weapons Related	20 to 200 kt Less than 20 kt	541
542	Shuffle ▀ Drillback release of radioactivity detected onsite only	04/18/1968	LLNL	NNSS	U10t	Shaft	14:05:00.00	37.152467	-116.037881	4,285	-1,619	Weapons Related	20 to 200 kt	542
543	Scroll Nuclear test detection experiment Accidental release of radioactivity detected onsite only	04/23/1968	LLNL/DoD	NNSS	U19n	Shaft	17:01:30.08	37.337655	-116.376459	6,754	-740	Vela Uniform	Less than 20 kt	543
544	Boxcar	04/26/1968	LLNL	NNSS	U20i	Shaft	15:00:00.07	37.295373	-116.456591	6,370	-3,825	Weapons Related	1.3 Mt	544
545	Hatchet ▀	05/03/1968	LANL	NNSS	U3fz	Shaft	16:00:00.04	37.028499	-116.020744	3,987	-789	Weapons Related	Less than 20 kt	545
546	Crock ▀ Drillback release of radioactivity detected onsite only	05/08/1968	LLNL	NNSS	U10ak	Shaft	14:10:00.00	37.157276	-116.035786	4,317	-596	Weapons Related	Less than 20 kt	546
547	Clarksmobile ▀	05/17/1968	LLNL	NNSS	U2as	Shaft	13:00:00.00	37.120001	-116.059701	4,218	-1,551	Weapons Related	20 to 200 kt	547
548	Adze Accidental release of radioactivity detected onsite only	05/28/1968	LANL	NNSS	U3fw	Shaft	14:45:00.04	37.008586	-115.996256	3,987	-788	Weapons Related	Less than 20 kt	548
549	Wembley ▀	06/05/1968	LANL	NNSS	U3ey	Shaft	14:21:30.34	37.034796	-116.016922	3,998	-781	Weapons Related	Less than 20 kt	549
550	Tub-A ▀ Tub-B ▀ Tub-C Tub-D Tub-F Simultaneous, separate holes Tub-D: Gas sampling release of radioactivity detected onsite only	06/06/1968 06/06/1968 06/06/1968 06/06/1968 06/06/1968	LLNL LLNL LLNL LLNL LLNL	NNSS NNSS NNSS NNSS NNSS	U10aj C U10aj B U10aj F U10aj D U10aj A	Shaft Shaft Shaft Shaft Shaft	21:30:00.00 21:30:00.00 21:30:00.00 21:30:00.00 21:30:00.00	37.167432 37.165358 37.165346 37.166936 37.166925	-116.043359 -116.044309 -116.041550 -116.045676 -116.042920	4,294 4,285 4,298 4,282 4,294	-620 -620 -620 -896 -620	Weapons Related Weapons Related Weapons Related Weapons Related Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt Less than 20 kt Less than 20 kt	550

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Crosstie – Continued							Operation Crosstie – Continued							
551	Rickey ▾	06/15/1968	LANL	NNSS	U19c	Shaft	13:59:59.97	37.264858	-116.315533	7,032	-2,242	Weapons Related	20 to 200 kt	551
552	Funnel Accidental release of radioactivity detected onsite only	06/25/1968	LANL	NNSS	U3ga	Shaft	15:30:00.04	37.046302	-116.031075	4,023	-389	Weapons Related	Less than 20 kt	552
553	Sevilla Accidental release of radioactivity detected onsite only	06/25/1968	LANL	NNSS	U3fk	Shaft	15:30:00.04	37.041530	-115.993218	4,111	-1,177	Weapons Related	Less than 20 kt	553
554	Chateaugay	06/28/1968	LLNL	NNSS	U20t	Shaft	12:22:00.08	37.245458	-116.483751	6,245	-1,992	Weapons Related	20 to 200 kt	554
Operation Bowline							Operation Bowline							
555	Spud ▾	07/17/1968	LANL	NNSS	U3fy	Shaft	14:00:00.04	37.000912	-115.999744	3,956	-788	Weapons Related	Less than 20 kt	555
556	Tanya ▾ Drillback release of radioactivity detected onsite only	07/30/1968	LLNL	NNSS	U2dt	Shaft	13:00:00.00	37.116718	-116.083109	4,257	-1,250	Weapons Related	20 to 200 kt	556
557	Imp ▾ Accidental release of radioactivity detected onsite only	08/09/1968	LLNL	NNSS	U2bj	Shaft	13:00:00.00	37.161740	-116.078057	4,399	-586	Weapons Related	Less than 20 kt	557
558	Rack ▾ Gas sampling and drillback release of radioactivity detected onsite only	08/15/1968	LLNL	NNSS	U9ap	Shaft	17:00:00.00	37.123685	-116.049093	4,201	-655	Weapons Related	Less than 20 kt	558
559	Diana Moon Accidental release of radioactivity detected onsite only	08/27/1968	LLNL/DoD	NNSS	U11e	Shaft	16:30:00.04	36.877167	-115.931938	3,385	-794	Weapons Effects	Less than 20 kt	559
560	Sled	08/29/1968	LANL	NNSS	U19i	Shaft	22:45:00.04	37.250267	-116.347773	6,836	-2,391	Weapons Related	20 to 200 kt	560
561	Noggin ▾ Drillback release of radioactivity detected onsite only	09/06/1968	LLNL	NNSS	U9bx	Shaft	14:00:00.13	37.136018	-116.048028	4,220	-1,909	Weapons Related	20 to 200 kt	561
562	Knife A	09/12/1968	LANL	NNSS	U3fb	Shaft	14:00:00.04	37.031750	-116.012497	3,994	-1,089	Weapons Related	Less than 20 kt	562
563	Stoddard ▾ Excavation device development Drillback release of radioactivity detected onsite only	09/17/1968	LLNL	NNSS	U2cmS	Shaft	14:00:00.04	37.119816	-116.128344	4,583	-1,535	Plowshare	31 kt	563
564	Hudson Seal	09/24/1968	LLNL/DoD	NNSS	U12n.04	Tunnel	17:05:01.09	37.204715	-116.207275	7,200	-1,130	Weapons Effects	Less than 20 kt	564
565	Welder ▾	10/03/1968	LANL	NNSS	U3fs	Shaft	14:00:00.04	37.046478	-116.030608	4,022	-386	Safety Experiment	Less than 20 kt	565
566	Knife C ▾	10/03/1968	LANL	NNSS	U3er	Shaft	14:29:00.04	37.025877	-115.993703	4,030	-989	Weapons Related	Less than 20 kt	566
567	Vat ▾	10/10/1968	LLNL	NNSS	U9cf	Shaft	14:30:00.00	37.133265	-116.043183	4,208	-640	Weapons Related	Less than 20 kt	567
568	Hula ▾ Accidental, gas sampling, and drillback release of radioactivity detected onsite only	10/29/1968	LLNL	NNSS	U9bu	Shaft	15:36:08.60	37.113212	-116.041804	4,202	-651	Weapons Related	Less than 20 kt	568
569	Bit-A Bit-B Simultaneous, same hole	10/31/1968 10/31/1968	LANL LANL	NNSS NNSS	U3gt U3gt	Shaft Shaft	18:30:00.04 18:30:00.04	37.046984 37.046984	-116.030333 -116.030333	4,022 4,022	-487 -387	Safety Experiment Safety Experiment	Less than 20 kt Less than 20 kt	569
570	File ▾	10/31/1968	LANL	NNSS	U3gb	Shaft	18:30:00.04	37.017048	-116.036598	3,977	-751	Weapons Related	Less than 20 kt	570
571	Crew ▾	11/04/1968	LLNL	NNSS	U2db	Shaft	15:15:00.09	37.130426	-116.087381	4,312	-1,977	Weapons Related	20 to 200 kt	571

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Bowline – Continued							Operation Bowline – Continued							
572	Crew-2nd Crew-3rd Simultaneous, same hole	11/04/1968 11/04/1968	LLNL LLNL	NNSS NNSS	U2db U2db	Shaft Shaft	15:16:00.09 15:16:00.09	37.130426 37.130426	-116.087381 -116.087381	4,312 4,312	-1,177 -1,177	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	572
573	Auger	11/15/1968	LANL	NNSS	U3fx	Shaft	15:30:00.04	37.047616	-116.000707	4,097	-789	Weapons Related	Less than 20 kt	573
574	Knife B	11/15/1968	LANL	NNSS	U3dz	Shaft	15:45:00.04	37.026099	-116.034128	3,987	-1,191	Weapons Related	Less than 20 kt	574
575	Ming Vase	11/20/1968	LANL/DoD	NNSS	U16a.04	Tunnel	18:00:00.03	37.009784	-116.207296	6,445	-1,010	Weapons Effects	Less than 20 kt	575
576	Tinderbox Drillback release of radioactivity detected onsite only	11/22/1968	LLNL	NNSS	U9az	Shaft	16:19:00.04	37.139862	-116.043129	4,225	-1,442	Weapons Related	Less than 20 kt	576
577	Schooner Radioactivity detected offsite	12/08/1968	LLNL	NNSS	U20u	Crater	16:00:00.14	37.343363	-116.566766	5,563	-365	Plowshare	30 kt	577
578	Bay Leaf	12/12/1968	LANL	NNSS	U3gq	Shaft	15:00:00.04	37.046988	-116.031070	4,023	-427	Safety Experiment	Less than 20 kt	578
579	Tyg-A Tyg-B Tyg-C Tyg-D Tyg-E Tyg-F Simultaneous, separate holes Tyg-A and -B: Accidental release of radioactivity detected onsite only Tyg-C: Drillback release of radioactivity detected onsite only	12/12/1968 12/12/1968 12/12/1968 12/12/1968 12/12/1968 12/12/1968	LLNL LLNL LLNL LLNL LLNL LLNL	NNSS NNSS NNSS NNSS NNSS NNSS	U2dc #4 U2dc #5 U2dc #3 U2dc #2 U2dc #1 U2dc #6	Shaft Shaft Shaft Shaft Shaft Shaft	15:10:00.08 15:10:00.08 15:10:00.08 15:10:00.08 15:10:00.08 15:10:00.08	37.120775 37.117543 37.118001 37.121234 37.119849 37.118828	-116.081431 -116.080434 -116.078105 -116.079102 -116.077439 -116.082599	4,265 4,254 4,249 4,261 4,254 4,264	-749 -824 -749 -679 -649 -869	Weapons Related Weapons Related Weapons Related Weapons Related Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	579
580	Scissors Accidental release of radioactivity detected onsite only	12/12/1968	LANL	NNSS	U3gh	Shaft	15:20:00.04	37.003882	-116.040135	3,965	-789	Weapons Related	Less than 20 kt	580
581	Benham	12/19/1968	LLNL	NNSS	U20c	Shaft	16:30:00.04	37.231424	-116.474461	6,281	-4,600	Weapons Related	1.15 Mt	581
582	Packard Accidental release of radioactivity detected onsite only	01/15/1969	LLNL	NNSS	U2u	Shaft	19:00:00.07	37.147869	-116.066530	4,315	-810	Weapons Effects	10 kt	582
583	Wineskin	01/15/1969	LLNL	NNSS	U12r	Shaft	19:30:00.04	37.209080	-116.226276	7,514	-1,700	Weapons Related	20 to 200 kt	583
584	Shave	01/22/1969	LANL	NNSS	U3gk	Shaft	15:00:00.04	37.015444	-115.995165	3,996	-790	Weapons Related	Less than 20 kt	584
585	Vise	01/30/1969	LANL	NNSS	U3ej	Shaft	15:00:00.04	37.053271	-116.030130	4,038	-1,490	Weapons Related	20 to 200 kt	585
586	Biggin	01/30/1969	LLNL	NNSS	U9bz	Shaft	15:17:00.12	37.133257	-116.041124	4,212	-795	Weapons Related	Less than 20 kt	586
587	Nipper	02/04/1969	LANL	NNSS	U3gl	Shaft	15:00:00.04	37.002620	-116.010004	3,953	-790	Weapons Related	Less than 20 kt	587
588	Winch	02/04/1969	LANL	NNSS	U3gf	Shaft	15:00:00.04	37.009391	-116.043169	3,977	-789	Weapons Related	Less than 20 kt	588
589	Cypress	02/12/1969	LLNL/SNL/DoD	NNSS	U12g.09	Tunnel	16:18:20.88	37.169003	-116.211623	7,519	-1,350	Weapons Effects	Less than 20 kt	589
590	Valise Gas sampling release of radioactivity detected onsite only	03/18/1969	LLNL	NNSS	U9by	Shaft	14:30:00.12	37.139091	-116.041715	4,225	-300	Safety Experiment	Less than 20 kt	590
591	Chatty Drillback release of radioactivity detected onsite only	03/18/1969	LLNL	NNSS	U2bn	Shaft	14:40:00.43	37.162228	-116.076753	4,394	-639	Weapons Related	Less than 20 kt	591

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Bowline – Continued						Operation Bowline – Continued								
592	Barsac ▾ Accidental release of radioactivity detected onsite only	03/20/1969	LANL	NNSS	U3gc	Shaft	18:12:00.04	37.021962	-116.031076	3,982	-998	Weapons Related	Less than 20 kt	592
593	Coffer ▾ Drillback release of radioactivity detected onsite only	03/21/1969	LLNL	NNSS	U2de	Shaft	14:30:00.41	37.133171	-116.087531	4,323	-1,525	Weapons Related	Less than 100 kt	593
594	Gourd-Amber ▾ Gourd-Brown ▾ Simultaneous, separate holes	04/24/1969 04/24/1969	LLNL NNSS	NNSS NNSS	U2bf U2bl	Shaft Shaft	13:04:00.14 13:04:00.14	37.163922 37.159915	-116.080512 -116.081744	4,418 4,409	-595 -744	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	594
595	Blenton ▾ Accidental release of radioactivity detected onsite only	04/30/1969	LANL	NNSS	U7p	Shaft	17:00:00.04	37.081476	-116.014810	4,205	-1,830	Weapons Related	20 to 200 kt	595
596	Thistle	04/30/1969	LANL	NNSS	U7t	Shaft	17:00:00.04	37.090220	-116.006509	4,291	-1,839	Weapons Related	20 to 200 kt	596
597	Purse ▾	05/07/1969	LLNL	NNSS	U20v	Shaft	13:45:00.04	37.282839	-116.501537	6,088	-1,964	Weapons Related	20 to 200 kt	597
598	Aliment	05/15/1969	LANL	NNSS	U3gj	Shaft	18:00:00.04	37.011826	-115.985945	4,049	-789	Weapons Related	Less than 20 kt	598
599	Ipecac-A Ipecac-B Simultaneous, separate holes Ipecac-A: Accidental release of radioactivity detected onsite only (trace)	05/27/1969 05/27/1969	LANL LANL	NNSS NNSS	U3hk-a U3hk-b	Shaft Shaft	14:00:00.04 14:00:00.04	37.014942 37.014793	-116.003044 -116.000993	3,965 3,968	-407 -408	Safety Experiment Safety Experiment	Less than 20 kt Less than 20 kt	599
600	Torrido ▾	05/27/1969	LANL	NNSS	U7w	Shaft	14:15:00.04	37.075055	-115.996182	4,256	-1,689	Weapons Related	20 to 200 kt	600
601	Tapper ▾ Accidental release of radioactivity detected onsite only	06/12/1969	LANL	NNSS	U3go	Shaft	14:00:00.04	37.008778	-116.031186	3,965	-994	Weapons Related	Less than 20 kt	601
602	Bowl-1 ▾ Bowl-2 ▾ Simultaneous, separate holes	06/26/1969 06/26/1969	LLNL LLNL	NNSS NNSS	U2bo #1 U2bo #2	Shaft Shaft	16:00:00.13 16:00:00.13	37.162437 37.160733	-116.079494 -116.080021	4,407 4,402	-650 -750	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	602
Operation Mandrel						Operation Mandrel								
603	Illdrim ▾	07/16/1969	LLNL	NNSS	U2au	Shaft	13:02:30.04	37.119384	-116.055988	4,209	-1,346	Weapons Related	20 to 200 kt	603
604	Hutch ▾ Drillback release of radioactivity detected onsite only	07/16/1969	LLNL	NNSS	U2df	Shaft	14:55:00.04	37.139465	-116.088314	4,354	-1,798	Weapons Related	20 to 200 kt	604
605	Spider-A ▾ Spider-B ▾ Simultaneous, separate holes Spider-A, -B: Drillback release of radioactivity detected onsite only	08/14/1969 08/14/1969	LLNL LLNL	NNSS NNSS	U2bp #1 U2bp #2	Shaft Shaft	14:30:00.04 14:30:00.04	37.160197 37.158140	-116.064476 -116.064657	4,326 4,325	-700 -747	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	605
606	Horehound	08/27/1969	LANL	NNSS	U3gm	Shaft	13:45:00.04	36.992656	-115.996396	3,942	-1,089	Weapons Related	Less than 20 kt	606
607	Pliers ▾ Accidental release of radioactivity detected onsite only	08/27/1969	LANL	NNSS	U3gn	Shaft	13:45:00.04	37.021455	-116.038959	3,984	-784	Weapons Related	Less than 20 kt	607

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Mandrel – Continued						Operation Mandrel – Continued								
608	Rulison Joint Government/industry gas stimulation experiment Drillback release of radioactivity detected outside operational boundary (gas flaring)	09/10/1969	LLNL	near Parachute, Colorado	----	Shaft	21:00:00.01	39.405350	-107.948470	8,200	-8,425	Plowshare	40 kt	608
609	Minute Steak ▀ Accidental release of radioactivity detected onsite only	09/12/1969	LLNL/DoD	NNSS	U11f	Shaft	18:02:20.42	36.877168	-115.929364	3,393	-868	Weapons Effects	Less than 20 kt	609
610	Jorum	09/16/1969	LLNL	NNSS	U20e	Shaft	14:30:00.04	37.314092	-116.461577	6,316	-3,802	Weapons Related	Less than 1 Mt	610
611	Kyack-A ▀ Kyack-B ▀ Simultaneous, separate holes Kyack-B: Accidental release of radioactivity detected onsite only	09/20/1969 09/20/1969	LLNL LLNL	NNSS NNSS	U2bq1 U2bq2	Shaft Shaft	14:30:00.04 14:30:00.04	37.158699 37.157372	-116.068599 -116.067041	4,342 4,331	-630 -610	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	611
612	Seaweed-C Seaweed-D Seaweed-E Simultaneous, separate holes Seaweed-D: Accidental release of radioactivity detected onsite only	10/01/1969 10/01/1969 10/01/1969	LANL LANL LANL	NNSS NNSS NNSS	U3hk-e U3hk-f U3hk-c	Shaft Shaft Shaft	14:30:00.04 14:30:00.04 14:30:00.04	37.011379 37.010461 37.013686	-115.999485 -116.000435 -115.999465	3,974 3,971 3,974	-389 -389 -408	Safety Experiment Safety Experiment Safety Experiment	Less than 20 kt Less than 20 kt Less than 20 kt	612
613	Milrow Seismic calibration	10/02/1969	LANL	Amchitka, Alaska	----	Shaft	22:06:00.04	51.415670	179.179870	130	-4,003	Weapons Related	About 1 Mt	613
614	Pipkin Drillback release of radioactivity detected onsite only	10/08/1969	LLNL	NNSS	U20b	Shaft	14:30:00.14	37.256661	-116.441629	6,534	-2,046	Weapons Related	200 to 1,000 kt	614
615	Seaweed B Accidental release of radioactivity detected onsite only	10/16/1969	LANL	NNSS	U3hk-d	Shaft	14:00:00.04	37.012530	-115.999129	3,976	-389	Safety Experiment	Less than 20 kt	615
616	Cruet ▀	10/29/1969	LLNL	NNSS	U2cn	Shaft	19:30:00.04	37.121466	-116.128621	4,589	-865	Weapons Related	11 kt	616
617	Pod-A Pod-B Pod-C Pod-D ▀ Simultaneous, separate holes Pod-D: Accidental release of radioactivity detected offsite Pod-A, -D: Drillback release of radioactivity detected onsite only	10/29/1969 10/29/1969 10/29/1969 10/29/1969	LLNL LLNL LLNL LLNL	NNSS NNSS NNSS NNSS	U2ch U2ci U2cj U2ck	Shaft Shaft Shaft Shaft	20:00:00.04 20:00:00.04 20:00:00.04 20:00:00.04	37.140159 37.140399 37.136282 37.135291	-116.131374 -116.142708 -116.140839 -116.136825	4,672 4,894 4,839 4,761	-875 -816 -560 -1,025	Weapons Related Weapons Related Weapons Related Weapons Related	16.7 kt (Total)	617
618	Calabash ▀	10/29/1969	LLNL	NNSS	U2av	Shaft	22:01:51.04	37.143270	-116.064717	4,298	-2,050	Weapons Related	110 kt	618
619	Scuttle Accidental release of radioactivity detected offsite by aircraft only	11/13/1969	LLNL	NNSS	U2bh	Shaft	15:15:00.13	37.164582	-116.075702	4,394	-540	Weapons Related	1.7 kt	619
620	Piccalilli ▀	11/21/1969	LANL	NNSS	U3fc	Shaft	14:52:00.04	37.031147	-116.002910	4,010	-1,292	Weapons Related	20 to 200 kt	620
621	Planer	11/21/1969	LANL	NNSS	U3el	Shaft	14:52:00.08	37.014780	-116.023600	3,971	-1,240	Weapons Related	Less than 20 kt	621
622	Diesel Train	12/05/1969	LANL/DoD	NNSS	U12e.11	Tunnel	17:00:00.04	37.179930	-116.211733	7,540	-1,375	Weapons Effects	Less than 20 kt	622

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Mandrel – Continued							Operation Mandrel – Continued							
623	Culantro-A Culantro-B Simultaneous, separate holes	12/10/1969 12/10/1969	LANL LANL	NNSS NNSS	U3hi-a U3hi-b	Shaft Shaft	15:00:00.04 15:00:00.04	37.014671 37.014865	-116.003735 -116.002020	3,964 3,967	-440 -490	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	623
624	Tun-A Tun-B Tun-C Tun-D Simultaneous, separate holes Tun-B, -C: Accidental and gas sampling release of radioactivity detected onsite only Tun-C, -D: Drillback release of radioactivity detected onsite only	12/10/1969 12/10/1969 12/10/1969 12/10/1969	LLNL LLNL LLNL LLNL	NNSS NNSS NNSS NNSS	U10am #1 U10am #2 U10am #3 U10am #4	Shaft Shaft Shaft Shaft	15:30:00.07 15:30:00.07 15:30:00.07 15:30:00.07	37.167656 37.169441 37.167642 37.169427	-116.080143 -116.080129 -116.077912 -116.077891	4,429 4,434 4,415 4,420	-655 -636 -636 -841	Weapons Related Weapons Related Weapons Related Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt Less than 20 kt	624
625	Grape A	12/17/1969	LANL	NNSS	U7s	Shaft	15:00:00.04	37.083333	-116.002451	4,268	-1,807	Weapons Related	20 to 200 kt	625
626	Lovage	12/17/1969	LANL	NNSS	U3fe	Shaft	15:15:00.04	37.006540	-116.023673	3,963	-1,240	Weapons Related	Less than 20 kt	626
627	Terrine-White Terrine-Yellow Simultaneous, separate holes Terrine-White, -Yellow: Drillback release of radioactivity detected onsite only	12/18/1969 12/18/1969	LLNL LLNL	NNSS NNSS	U9bi #1 U9bi #2	Shaft Shaft	19:00:00.04 19:00:00.04	37.120431 37.120640	-116.035642 -116.029477	4,235 4,278	-1,500 -1,370	Weapons Related Weapons Related	20 to 200 kt 20 to 200 kt	627
628	Fob-Blue Fob-Green Fob-Red Simultaneous, separate holes	01/23/1970 01/23/1970 01/23/1970	LLNL LLNL LLNL	NNSS NNSS NNSS	U9ITS Y-27 U9ITS V-27 U9ITS V-24	Shaft Shaft Shaft	16:30:00.21 16:30:00.21 16:30:00.21	37.140633 37.140657 37.137364	-116.033512 -116.037636 -116.037663	4,264 4,242 4,232	-330 -802 -872	Weapons Related Weapons Related Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt	628
629	Ajo In mined shaft	01/30/1970	LANL	NNSS	U3gd	Shaft	17:00:00.04	37.030776	-116.035631	3,998	-998	Weapons Related	Less than 20 kt	629
630	Grape B	02/04/1970	LANL	NNSS	U7v	Shaft	17:00:00.04	37.098028	-116.027355	4,253	-1,819	Weapons Related	20 to 200 kt	630
631	Belen	02/04/1970	LANL	NNSS	U3br	Shaft	17:00:00.07	37.054972	-116.039711	4,045	-1,381	Weapons Related	20 to 200 kt	631
632	Labis	02/05/1970	LLNL	NNSS	U10an	Shaft	15:00:00.04	37.163914	-116.039702	4,308	-1,450	Weapons Related	25 kt	632
633	Diana Mist	02/11/1970	LANL/DoD	NNSS	U12n.06	Tunnel	19:15:00.04	37.201239	-116.206094	7,391	-1,319	Weapons Effects	Less than 20 kt	633
634	Cumarin	02/25/1970	LANL	NNSS	U3gz	Shaft	14:28:38.04	37.036627	-116.000460	4,045	-1,340	Weapons Related	20 to 200 kt	634
635	Yannigan-Blue Yannigan-Red Yannigan-White Simultaneous, separate holes Yannigan-Blue, -Red, -White: Drillback release of radioactivity detected onsite only	02/26/1970 02/26/1970 02/26/1970	LLNL LLNL LLNL	NNSS NNSS NNSS	U2ay #3 U2ay #1 U2ay #2	Shaft Shaft Shaft	15:30:00.04 15:30:00.04 15:30:00.04	37.113755 37.116315 37.118002	-116.066669 -116.062313 -116.067318	4,214 4,214 4,227	-1,193 -1,286 -1,295	Weapons Related Weapons Related Weapons Related	20 to 200 kt 20 to 200 kt 20 to 200 kt	635
636	Cyathus Drillback release of radioactivity detected onsite only	03/06/1970	LLNL	NNSS	U8b	Shaft	14:24:00.94	37.173070	-116.092626	4,527	-964	Weapons Related	8.7 kt	636
637	Arabis-Blue Arabis-Green Arabis-Red Simultaneous, separate holes	03/06/1970 03/06/1970 03/06/1970	LLNL LLNL LLNL	NNSS NNSS NNSS	U9ITS Z-26 U9ITS X-28 U9ITS V-26	Shaft Shaft Shaft	15:00:00.21 15:00:00.21 15:00:00.21	37.139529 37.141741 37.139559	-116.032156 -116.034879 -116.037645	4,275 4,256 4,238	-330 -849 -820	Safety Experiment Weapons Related Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt	637
638	Jal	03/19/1970	LANL	NNSS	U3hh	Shaft	14:03:30.34	37.001047	-116.023716	3,955	-989	Weapons Related	Less than 20 kt	638
639	Shaper	03/23/1970	LANL	NNSS	U7r	Shaft	23:05:00.04	37.086185	-116.021966	4,195	-1,839	Weapons Related	20 to 200 kt	639

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Mandrel – Continued							Operation Mandrel – Continued							
640	Handley	03/26/1970	LLNL	NNSS	U20m	Shaft	19:00:00.20	37.300424	-116.535014	5,903	-3,967	Weapons Related	More than 1 Mt	640
641	Snubber Accidental release of radioactivity detected offsite	04/21/1970	LANL	NNSS	U3ev 2S	Shaft	14:30:00.04	37.054842	-115.988992	4,199	-1,127	Weapons Effects	12.7 kt	641
642	Can-Green ▀ Can-Red ▀ Simultaneous, separate holes	04/21/1970 04/21/1970	LLNL LLNL	NNSS NNSS	U2dd #1 U2dd #4	Shaft Shaft	15:00:00.04 15:00:00.04	37.112323 37.115532	-116.082967 -116.081005	4,243 4,249	-900 -1,310	Weapons Related Weapons Related	20 to 200 kt 20 to 200 kt	642
643	Beebalm	05/01/1970	LANL	NNSS	U3fn	Shaft	14:13:00.04	37.059170	-116.029052	4,054	-1,280	Weapons Related	Less than 20 kt	643
644	Hod-C (Blue)	05/01/1970	LLNL	NNSS	U9ITS Z-25	Shaft	14:25:00.00	37.138431	-116.032162	4,273	-330	Safety Experiment	Less than 20 kt	644
645	Hod-A (Green) ▀ Hod-B (Red) ▀ Simultaneous, separate holes Hod-B (Red): Accidental release of radioactivity detected onsite only Hod-A (Green), -B (Red): Drillback release of radioactivity detected onsite only	05/01/1970 05/01/1970	LLNL LLNL	NNSS NNSS	U9ITS X-23 U9ITS X-20	Shaft Shaft	14:40:00.17 14:40:00.17	37.136251 37.132952	-116.034924 -116.034948	4,248 4,242	-790 -870	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	645
646	Mint Leaf Controlled release of radioactivity detected offsite	05/05/1970	LLNL/DoD	NNSS	U12t.01	Tunnel	15:30:00.17	37.216486	-116.184897	6,957	-1,330	Weapons Effects	Less than 20 kt	646
647	Diamond Dust Nuclear test detection experiment Controlled release of radioactivity detected onsite only	05/12/1970	LANL/DoD	NNSS	U16a.05	Tunnel	14:00:00.04	37.010400	-116.202764	6,265	-830	Vela Uniform	Less than 20 kt	647
648	Cornice-Green ▀ Cornice-Yellow ▀ Simultaneous, separate holes	05/15/1970 05/15/1970	LLNL LLNL	NNSS NNSS	U10ap #3 U10ap #1	Shaft Shaft	13:30:00.17 13:30:00.17	37.161873 37.165879	-116.039722 -116.036360	4,306 4,329	-1,455 -1,280	Weapons Related Weapons Related	20 to 200 kt 20 to 200 kt	648
649	Manzanas Accidental release of radioactivity detected onsite only	05/21/1970	LANL	NNSS	U3gr	Shaft	14:00:00.04	37.012140	-115.992813	4,008	-790	Weapons Related	Less than 20 kt	649
650	Morrones	05/21/1970	LANL	NNSS	U3ei	Shaft	14:15:00.03	37.070762	-116.013873	4,148	-1,584	Weapons Related	20 to 200 kt	650
651	Hudson Moon Controlled and accidental release of radioactivity detected onsite only	05/26/1970	LLNL/DoD	NNSS	U12e.12	Tunnel	14:16:00.17	37.182560	-116.214271	7,550	-1,386	Weapons Effects	Less than 20 kt	651
652	Flask-Green ▀ Flask-Red Flask-Yellow Simultaneous, separate holes Flask-Red: Accidental release of radioactivity detected onsite only Flask-Green, -Yellow: Drillback release of radioactivity detected onsite only	05/26/1970 05/26/1970 05/26/1970	LLNL LLNL LLNL	NNSS NNSS NNSS	U2az #1 U2az #3 U2az #2	Shaft Shaft Shaft	15:00:00.05 15:00:00.05 15:00:00.05	37.113320 37.116147 37.118084	-116.063205 -116.067572 -116.064436	4,192 4,220 4,220	-1,734 -500 -1,100	Plowshare Plowshare Plowshare	105 kt 35 tons 90 tons	652
653	Piton-C Accidental release of radioactivity detected onsite only	05/28/1970	LLNL	NNSS	U9ITS AA-25	Shaft	11:45:00.20	37.138423	-116.030786	4,284	-331	Weapons Related	Less than 20 kt	653

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Mandrel – Continued							Operation Mandrel – Continued							
654	Piton-A Piton-B	05/28/1970 05/28/1970	LLNL LLNL	NNSS NNSS	U9ITS Y-30 U9ITS X-27	Shaft Shaft	12:00:00.16 12:00:00.16	37.143931 37.140640	-116.033488 -116.034881	4,268 4,255	-776 -754	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	654
655	Arnica-Violet Arnica-Yellow	06/26/1970 06/26/1970	LLNL LLNL	NNSS NNSS	U2dd #3 U2dd #2	Shaft Shaft	13:00:00.04 13:00:00.04	37.117085 37.113881	-116.085023 -116.087003	4,261 4,255	-865 -1,015	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	655
Operation Emery							Operation Emery							
656	Scree-Acajou Scree-Alhambra Scree-Chamois Simultaneous, separate holes Scree-Acajou: Accidental release of radioactivity detected onsite only Scree-Acajou, -Alhambra: Drillback release of radioactivity detected onsite only	10/13/1970 10/13/1970 10/13/1970	LLNL LLNL LLNL	NNSS NNSS NNSS	U9ITS X-24 U9ITS Z-21 U9ITS Z-24	Shaft Shaft Shaft	15:05:00.02 15:05:00.02 15:05:00.02	37.137402 37.134039 37.137302	-116.034915 -116.032198 -116.032171	4,252 4,265 4,271	-818 -631 -330	Weapons Related Weapons Related Safety Experiment	Less than 20 kt Less than 20 kt Less than 20 kt	656
657	Tijeras	10/14/1970	LANL	NNSS	U7y	Shaft	14:30:00.04	37.070608	-116.005994	4,187	-1,839	Weapons Related	20 to 200 kt	657
658	Truchas-Chacon Truchas-Chamisal Truchas-Rodarte Simultaneous, separate holes Truchas-Chamisal: Accidental release of radioactivity detected onsite only	10/28/1970 10/28/1970 10/28/1970	LANL LANL LANL	NNSS NNSS NNSS	U3hn U3ho U3hm	Shaft Shaft Shaft	14:30:00.03 14:30:00.04 14:30:00.04	37.013969 37.013968 37.014762	-116.018812 -116.018127 -116.020175	3,968 3,968 3,970	-389 -388 -874	Safety Experiment Safety Experiment Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt	658
659	Abeytas	11/05/1970	LANL	NNSS	U3gx	Shaft	15:00:00.04	37.029416	-116.012685	3,987	-1,291	Weapons Related	20 to 200 kt	659
660	Penasco	11/19/1970	LANL	NNSS	U3hl	Shaft	15:00:00.04	37.014743	-116.016750	3,969	-889	Weapons Related	Less than 20 kt	660
661	Carrizozo Corazon Simultaneous, separate holes	12/03/1970 12/03/1970	LANL LANL	NNSS NNSS	U3hr U3ha	Shaft Shaft	15:07:00.00 15:07:00.04	37.006083 37.001952	-116.040798 -116.038777	3,970 3,961	-916 -791	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	661
662	Canjilon	12/16/1970	LANL	NNSS	U3fq	Shaft	16:00:00.05	37.072475	-116.025859	4,116	-991	Weapons Related	Less than 20 kt	662
663	Artesia	12/16/1970	LANL	NNSS	U7x	Shaft	16:00:00.09	37.100121	-116.008824	4,360	-1,591	Weapons Related	20 to 200 kt	663
664	Avens-Alkermes Avens-Andorre Avens-Asmalte Avens-Cream Simultaneous, separate holes Avens-Cream: Plowshare device development; accidental release of radioactivity detected onsite only	12/16/1970 12/16/1970 12/16/1970 12/16/1970	LLNL LLNL LLNL LLNL	NNSS NNSS NNSS NNSS	U9ITS U-24 U9ITS T-28 U9ITS W-21 U9ITS X-29	Shaft Shaft Shaft Shaft	16:00:00.17 16:00:00.17 16:00:00.17 16:00:00.17	37.137371 37.141771 37.134061 37.142837	-116.039032 -116.040368 -116.036318 -116.034866	4,227 4,236 4,234 4,260	-1,004 -1,245 -1,009 -961	Weapons Related Weapons Related Weapons Related Plowshare	Less than 20 kt Less than 20 kt Less than 20 kt Less than 20 kt	664
665	Carpetbag Drillback release of radioactivity detected onsite only	12/17/1970	LLNL	NNSS	U2dg	Shaft	16:05:00.16	37.129083	-116.083868	4,302	-2,170	Weapons Related	220 kt	665

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Emery – Continued						Operation Emery – Continued								
666	Baneberry ▀ Accidental release of radioactivity detected offsite	12/18/1970	LLNL	NNSS	U8d	Shaft	15:30:00.20	37.173082	-116.099735	4,574	-912	Weapons Related	10 kt	666
667	Embudo ▀	06/16/1971	LANL	NNSS	U3hd	Shaft	14:50:00.04	37.033134	-116.014538	3,996	-994	Weapons Related	Less than 20 kt	667
668	Dexter	06/23/1971	LANL	NNSS	U3hs	Shaft	14:00:00.04	37.013167	-116.017284	3,968	-394	Safety Experiment	Less than 20 kt	668
669	Laguna ▀	06/23/1971	LANL	NNSS	U3fd	Shaft	15:30:00.04	37.021919	-116.023540	3,981	-1,493	Weapons Related	20 to 200 kt	669
670	Harebell ▀ Drillback release of radioactivity detected onsite only	06/24/1971	LLNL	NNSS	U2br	Shaft	14:00:00.16	37.146647	-116.067709	4,312	-1,702	Weapons Related	20 to 200 kt	670
671	Camphor Accidental and controlled release of radioactivity detected onsite only	06/29/1971	LLNL/SNL/DoD	NNSS	U12g.10	Tunnel	18:30:00.16	37.176732	-116.212366	7,557	-1,390	Weapons Effects	Less than 20 kt	671
Operation Grommet						Operation Grommet								
672	Diamond Mine Nuclear test detection experiment	07/01/1971	LANL/DoD	NNSS	U16a.06	Tunnel	14:00:00.04	37.011491	-116.204268	6,310	-873	Vela Uniform	Less than 20 kt	672
673	Miniatia ▀ Device development experiment Drillback release of radioactivity detected onsite only	07/08/1971	LLNL	NNSS	U2bu	Shaft	14:00:00.08	37.110078	-116.052290	4,179	-1,735	Plowshare	83 kt	673
674	Bracken Drillback release of radioactivity detected onsite only	07/09/1971	LLNL	NNSS	U10aq	Shaft	14:00:00.16	37.164403	-116.033602	4,342	-1,000	Weapons Related	Less than 20 kt	674
675	Apodaca	07/21/1971	LANL	NNSS	U3gs	Shaft	13:33:00.05	37.014335	-115.992794	4,009	-792	Weapons Related	Less than 20 kt	675
676	Barranca	08/04/1971	LANL	NNSS	U3he	Shaft	13:30:00.04	37.026025	-116.020422	3,984	-888	Weapons Related	Less than 20 kt	676
677	Nama-Amarylis Nama-Mephisto Simultaneous, separate holes	08/05/1971 08/05/1971	LLNL LLNL	NNSS NNSS	U9ITS XY-31 U9ITS Z-27	Shaft Shaft	18:07:45.20 18:07:45.20	37.145034 37.140628	-116.034165 -116.032143	4,266 4,275	-895 -800	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	677
678	Baltic	08/06/1971	LLNL	NNSS	U9ITS S-25	Shaft	14:31:00.16	37.138482	-116.041768	4,222	-1,351	Weapons Related	Less than 20 kt	678
679	Algodones ▀	08/18/1971	LANL	NNSS	U3jn	Shaft	14:00:00.03	37.057143	-116.037199	4,046	-1,731	Weapons Related	20 to 200 kt	679
680	Frijoles-Deming Frijoles-Espuela Frijoles-Guaje Frijoles-Petaca ▀ Simultaneous, separate holes	09/22/1971 09/22/1971 09/22/1971 09/22/1971	LANL LANL LANL LANL	NNSS NNSS NNSS NNSS	U3jw U3ju U3hf U3hz	Shaft Shaft Shaft Shaft	14:00:00.04 14:00:00.04 14:00:00.04 14:00:00.04	37.021557 37.022656 37.024354 37.021901	-116.017069 -116.017197 -116.016154 -116.019772	3,977 3,979 3,980 3,980	-492 -490 -843 -741	Safety Experiment Safety Experiment Weapons Related Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt Less than 20 kt	680
681	Pederal	09/29/1971	LANL	NNSS	U3hg	Shaft	14:00:00.04	37.010988	-116.008219	3,961	-1,242	Weapons Related	Less than 20 kt	681
682	Chantilly ▀	09/29/1971	LLNL	NNSS	U2di	Shaft	14:30:00.14	37.124433	-116.087848	4,288	-1,085	Weapons Related	Less than 20 kt	682
683	Cathay	10/08/1971	LLNL	NNSS	U9ch	Shaft	14:30:00.15	37.113742	-116.038198	4,226	-1,240	Weapons Related	Less than 20 kt	683
684	Lagoon ▀	10/14/1971	LLNL	NNSS	U10ar	Shaft	14:30:00.16	37.179733	-116.053961	4,307	-1,000	Weapons Related	Less than 20 kt	684
685	Cannikin Proof test of warhead for Spartan missile (W71)	11/06/1971	LLNL	Amchitka, Alaska	-----	Shaft	22:00:00.06	51.470200	179.103800	208	-5,873	Weapons Related	Less than 5 Mt	685
686	Diagonal Line Accidental release of radioactivity detected offsite by aircraft only	11/24/1971	LLNL/DoD	NNSS	U11g	Shaft	20:15:00.17	36.879181	-115.935571	3,405	-868	Weapons Effects	Less than 20 kt	686

U.S. Nuclear Tests - By Date							July 1945 through September 1992							
	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Grommet – Continued							Operation Grommet – Continued							
687	Parnassia ▾	11/30/1971	LLNL	NNSS	U2bc	Shaft	15:45:00.15	37.160401	-116.071105	4,360	-1,085	Weapons Related	Less than 20 kt	687
688	Chaenactis ▾	12/14/1971	LLNL	NNSS	U2dl	Shaft	21:09:59.16	37.123899	-116.090425	4,291	-1,086	Weapons Related	20 to 200 kt	688
689	Hospah ▾	12/14/1971	LANL	NNSS	U3je	Shaft	21:10:01.04	37.025802	-116.030016	3,987	-991	Weapons Related	Less than 20 kt	689
690	Yerba ▾	12/14/1971	LANL	NNSS	U1c	Shaft	21:10:01.04	37.023210	-116.059499	4,031	-1,089	Weapons Related	Less than 20 kt	690
691	Mescalero	01/05/1972	LANL	NNSS	U3gu	Shaft	15:10:00.04	37.045609	-116.030413	4,020	-394	Weapons Related	Less than 20 kt	691
692	Cowles ▾	02/03/1972	LANL	NNSS	U3hx	Shaft	21:45:00.04	37.001028	-116.020291	3,955	-990	Weapons Related	Less than 20 kt	692
693	Dianthus ▾ Gas sampling release of radioactivity detected onsite only	02/17/1972	LLNL	NNSS	U10at	Shaft	19:02:00.16	37.165655	-116.057109	4,285	-1,000	Weapons Related	Less than 20 kt	693
694	Sappho Drillback release of radioactivity detected onsite only	03/23/1972	LLNL	NNSS	U2dh #2	Shaft	18:50:00.16	37.113001	-116.081690	4,241	-649	Weapons Related	Less than 20 kt	694
695	Onaja ▾ Ocate ▾ Simultaneous, separate holes	03/30/1972 03/30/1972	LANL LANL	NNSS NNSS	U3js U3jp	Shaft Shaft	21:00:00.04 21:00:00.08	37.005427 37.004445	-116.020939 -116.015738	3,960 3,958	-915 -689	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	695
696	Longchamps ▾	04/19/1972	LLNL	NNSS	U2dm	Shaft	16:32:00.16	37.121890	-116.084712	4,275	-1,071	Weapons Related	Less than 20 kt	696
697	Jicarilla	04/19/1972	LANL	NNSS	U3jm	Shaft	16:42:00.05	37.006567	-116.017474	3,960	-486	Weapons Related	Less than 20 kt	697
698	Misty North	05/02/1972	LANL/DoD	NNSS	U12n.05	Tunnel	19:15:00.04	37.207611	-116.209613	7,303	-1,234	Weapons Effects	Less than 20 kt	698
699	Kara Drillback release of radioactivity detected onsite only	05/11/1972	LLNL	NNSS	U2dh #3	Shaft	14:00:00.16	37.112445	-116.085367	4,247	-850	Weapons Related	Less than 20 kt	699
700	Zinnia ▾ Drillback release of radioactivity detected onsite only	05/17/1972	LLNL	NNSS	U2dk	Shaft	14:10:00.16	37.120509	-116.088767	4,279	-1,059	Weapons Related	Less than 20 kt	700
701	Monero	05/19/1972	LANL	NNSS	U3jq	Shaft	17:00:00.05	37.064656	-116.002614	4,175	-1,763	Weapons Related	Less than 20 kt	701
702	Merida ▾ Drillback release of radioactivity detected onsite only	06/07/1972	LLNL	NNSS	U2dn	Shaft	15:20:00.16	37.115841	-116.086199	4,258	-670	Weapons Related	Less than 20 kt	702
703	Capitan	06/28/1972	LANL	NNSS	U3jj	Shaft	14:41:00.19	36.992556	-116.023017	3,946	-441	Weapons Related	Less than 20 kt	703
704	Tajique	06/28/1972	LANL	NNSS	U7aa	Shaft	16:30:00.07	37.069546	-115.992974	4,267	-1,090	Weapons Related	Less than 20 kt	704
705	Haplopappus	06/28/1972	LLNL	NNSS	U9ITS W-22	Shaft	16:30:03.16	37.135156	-116.036134	4,237	-605	Weapons Related	Less than 20 kt	705
Operation Toggle							Operation Toggle							
706	Diamond Sculls	07/20/1972	LLNL/DoD	NNSS	U12t.02	Tunnel	17:16:00.16	37.214484	-116.184243	7,020	-1,391	Weapons Effects	Less than 20 kt	706
707	Atarque ▾ Cementback release of radioactivity detected onsite only	07/25/1972	LANL	NNSS	U3ht	Shaft	13:30:00.06	37.012445	-116.015917	3,967	-966	Weapons Related	Less than 20 kt	707
708	Cebolla Cuchillo Solano Simultaneous, separate holes Cebolla: Drillback release of radioactivity detected onsite only	08/09/1972 08/09/1972 08/09/1972	LANL LANL LANL	NNSS NNSS NNSS	U3jc U3jt U3jx	Shaft Shaft Shaft	13:31:10.04 13:31:10.04 13:31:10.04	37.007141 37.003705 37.003153	-116.019897 -116.019923 -116.017568	3,962 3,957 3,957	-941 -652 -440	Weapons Related Weapons Related Safety Experiment	Less than 20 kt Less than 20 kt Less than 20 kt	708
709	Oscuro ▾	09/21/1972	LANL	NNSS	U7z	Shaft	15:30:00.19	37.082010	-116.037435	4,108	-1,838	Weapons Related	20 to 200 kt	709
710	Delphinium ▾	09/26/1972	LLNL	NNSS	U2dp	Shaft	14:30:00.16	37.121323	-116.086603	4,276	-970	Weapons Related	15 kt	710

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Toggle – Continued							Operation Toggle – Continued							
711	Akbar ▾	11/09/1972	LLNL	NNSS	U10ax	Shaft	15:15:00.16	37.161994	-116.034024	4,337	-875	Weapons Related	Less than 20 kt	711
712	Arsenate Gas sampling release of radioactivity detected onsite only	11/09/1972	LLNL	NNSS	U9ci	Shaft	18:15:00.16	37.121398	-116.033196	4,249	-821	Weapons Related	Less than 20 kt	712
713	Canna-Limoges Canna-Umbrinus Simultaneous, same hole	11/17/1972 11/17/1972	LLNL LLNL	NNSS NNSS	U9ITS YZ-26 U9ITS YZ-26	Shaft Shaft	18:00:00.16 18:00:00.16	37.139535 37.139535	-116.033233 -116.033233	4,265 4,265	-700 -600	Safety Experiment Weapons Related	Less than 20 kt Less than 20 kt	713
714	Tuloso	12/12/1972	LANL	NNSS	U3gi	Shaft	16:30:00.04	37.031253	-116.022094	3,991	-889	Weapons Related	Less than 20 kt	714
715	Solanum Drillback release of radioactivity detected onsite only	12/14/1972	LLNL	NNSS	U9ITS W-24.5	Shaft	15:30:00.16	37.138037	-116.035596	4,246	-600	Weapons Related	Less than 20 kt	715
716	Flax-Source ▾	12/21/1972	LLNL	NNSS	U2dj	Shaft	20:15:00.24	37.139909	-116.084124	4,341	-2,260	Weapons Related	Less than 20 kt	716
717	Flax-Backup ▾ Flax-Test ▾ Simultaneous, same hole	12/21/1972 12/21/1972	LLNL LLNL	NNSS NNSS	U2dj U2dj	Shaft Shaft	20:15:24.35 20:15:24.35	37.139909 37.139909	-116.084124 -116.084124	4,341 4,341	-1,460 -1,430	Weapons Effects Weapons Effects	Less than 20 kt 20 to 200 kt	717
718	Alumroot	02/14/1973	LLNL	NNSS	U9cj	Shaft	15:30:00.16	37.147045	-116.050962	4,237	-600	Weapons Related	Less than 20 kt	718
719	Miera ▾ Cementback release of radioactivity detected onsite only	03/08/1973	LANL	NNSS	U7ad	Shaft	16:10:00.19	37.103545	-116.027600	4,285	-1,865	Weapons Related	20 to 200 kt	719
720	Gazook ▾ Drillback release of radioactivity detected onsite only	03/23/1973	LLNL	NNSS	U2do	Shaft	20:15:00.17	37.117223	-116.087903	4,268	-1,070	Weapons Related	Less than 20 kt	720
721	Natoma	04/05/1973	LLNL	NNSS	U10aw	Shaft	14:50:00.16	37.177828	-116.054766	4,297	-800	Weapons Related	Less than 20 kt	721
722	Angus ▾ Velarde ▾ Simultaneous, separate holes Angus: Drillback release of radioactivity detected onsite only Velarde: Cementback and drillback release of radioactivity detected onsite only	04/25/1973 04/25/1973	LANL LANL	NNSS NNSS	U3jg U3jk	Shaft Shaft	22:25:00.03 22:25:00.07	37.004786 36.993607	-116.029336 -116.021912	3,962 3,948	-1,485 -908	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	722
723	Colmor ▾ Cementback release of radioactivity detected onsite only	04/26/1973	LANL	NNSS	U3hv	Shaft	15:15:00.04	37.012101	-116.020835	3,968	-806	Weapons Related	Less than 20 kt	723
724	Starwort ▾ Drillback release of radioactivity detected onsite only	04/26/1973	LLNL	NNSS	U2bs	Shaft	17:15:00.17	37.122999	-116.059385	4,226	-1,850	Weapons Related	90 kt	724
725	Mesita Cementback release of radioactivity detected onsite only	05/09/1973	LANL	NNSS	U3jd	Shaft	13:30:00.04	37.006221	-116.016942	3,960	-490	Weapons Related	Less than 20 kt	725
726	Rio Blanco-1 Rio Blanco-2 Rio Blanco-3 Simultaneous, same hole Joint Government/industry gas stimulation experiment	05/17/1973 05/17/1973 05/17/1973	LLNL LLNL LLNL	near Meeker, Colorado near Meeker, Colorado near Meeker, Colorado	----- ----- -----	Shaft Shaft Shaft	16:00:00.12 16:00:00.12 16:00:00.12	39.793250 39.793250 39.793250	-108.367210 -108.367210 -108.367210	6,630 6,630 6,630	-5,840 -6,230 -6,690	Plowshare Plowshare Plowshare	33 kt 33 kt 33 kt	726

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Toggle – Continued							Operation Toggle – Continued							
727	Cabresto	05/24/1973	LANL	NNSS	U7h	Shaft	13:30:00.04	37.078000	-116.031637	4,118	-649	Weapons Related	Less than 20 kt	727
728	Kashan ▾ Drillback release of radioactivity detected onsite only	05/24/1973	LLNL	NNSS	U10av	Shaft	13:30:00.16	37.162182	-116.056845	4,278	-870	Weapons Related	Less than 20 kt	728
729	Dido Queen	06/05/1973	LLNL/DoD	NNSS	U12e.14	Tunnel	17:00:00.17	37.184978	-116.215970	7,461	-1,284	Weapons Effects	Less than 20 kt	729
730	Almendro	06/06/1973	LANL	NNSS	U19v	Shaft	13:00:00.08	37.245010	-116.346905	6,876	-3,499	Weapons Related	200 to 1,000 kt	730
731	Potrillo ▾ Cementback release of radioactivity detected onsite only	06/21/1973	LANL	NNSS	U7af	Shaft	14:45:00.08	37.091989	-116.028092	4,207	-1,860	Weapons Related	20 to 200 kt	731
732	Portulaca ▾ Drillback release of radioactivity detected onsite only	06/28/1973	LLNL	NNSS	U2bv	Shaft	19:15:12.40	37.148376	-116.086726	4,388	-1,528	Weapons Related	20 to 200 kt	732
733	Silene	06/28/1973	LLNL	NNSS	U9ck	Shaft	19:45:00.16	37.114860	-116.041790	4,202	-650	Weapons Related	Less than 20 kt	733
Operation Arbor							Operation Arbor							
734	Polygonum	10/02/1973	LLNL	NNSS	U2by	Shaft	14:30:00.17	37.158739	-116.073860	4,366	-700	Weapons Related	Less than 20 kt	734
735	Waller Drillback and gas sampling release of radioactivity detected onsite only	10/02/1973	LLNL	NNSS	U2bz	Shaft	15:15:00.16	37.153864	-116.068579	4,333	-1,020	Weapons Related	Less than 20 kt	735
736	Husky Ace	10/12/1973	LANL/DoD	NNSS	U12n.07	Tunnel	17:00:00.08	37.200338	-116.204063	7,430	-1,364	Weapons Effects	Less than 20 kt	736
737	Bernal ▾ Cementback release of radioactivity detected onsite only	11/28/1973	LANL	NNSS	U3jy	Shaft	15:30:00.08	37.010944	-116.025345	3,969	-936	Weapons Related	Less than 20 kt	737
738	Pajara ▾ Cementback release of radioactivity detected onsite only	12/12/1973	LANL	NNSS	U3ji	Shaft	19:00:00.10	36.991440	-116.024995	3,945	-913	Weapons Related	Less than 20 kt	738
739	Seafoam Gas sampling release of radioactivity detected onsite only	12/13/1973	LLNL	NNSS	U2ea	Shaft	15:17:00.17	37.161349	-116.073925	4,374	-650	Weapons Related	Less than 20 kt	739
740	Spar	12/19/1973	LANL	NNSS	U3jr	Shaft	17:30:00.04	37.005723	-116.019762	3,960	-487	Safety Experiment	Less than 20 kt	740
741	Elida Cementback release of radioactivity detected onsite only	12/19/1973	LANL	NNSS	U3hy	Shaft	19:16:00.11	37.001093	-116.032277	3,955	-1,251	Weapons Related	Less than 20 kt	741
742	Pinedrops-Bayou Pinedrops-Sloat Pinedrops-Tawny Simultaneous, same hole Pinedrops-Bayou: Drillback release of radioactivity detected onsite only	01/10/1974 01/10/1974 01/10/1974	LLNL LLNL LLNL	NNSS NNSS NNSS	U10as U10as U10as	Shaft Shaft Shaft	15:38:00.17 15:38:00.17 15:38:00.17	37.174076 37.174076 37.174076	-116.051669 -116.051669 -116.051669	4,298 4,298 4,298	-1,125 -700 -925	Weapons Related Weapons Related Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt	742
743	Latir ▾	02/27/1974	LANL	NNSS	U4d	Shaft	17:00:00.09	37.104210	-116.053709	4,167	-2,102	Weapons Related	20 to 200 kt	743
744	Hulsea Drillback release of radioactivity detected onsite only	03/14/1974	LLNL	NNSS	U2bx	Shaft	17:00:00.17	37.155082	-116.064966	4,319	-640	Weapons Related	Less than 20 kt	744
745	Sapello	04/12/1974	LANL	NNSS	U3ge	Shaft	15:15:00.08	37.014894	-116.045008	3,989	-593	Weapons Related	Less than 20 kt	745
746	Potrero ▾	04/23/1974	LLNL	NNSS	U2eb	Shaft	15:13:00.16	37.159923	-116.077282	4,387	-692	Weapons Related	Less than 20 kt	746

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Arbor – Continued							Operation Arbor – Continued							
747	Plomo	05/01/1974	LANL	NNSS	U3ff	Shaft	14:02:00.21	37.031057	-115.986466	4,114	-490	Weapons Related	Less than 20 kt	747
748	Jib	05/08/1974	LANL	NNSS	U3hb	Shaft	16:55:00.09	37.000933	-116.002487	3,951	-592	Weapons Related	Less than 20 kt	748
749	Grove ▀ Drillback release of radioactivity detected onsite only	05/22/1974	LLNL	NNSS	U2ds	Shaft	14:15:00.17	37.114758	-116.075575	4,236	-1,031	Weapons Related	Less than 20 kt	749
750	Fallon ▀ Drillback release of radioactivity detected onsite only	05/23/1974	LLNL/UK	NNSS	U2dv	Shaft	13:38:30.16	37.124448	-116.079753	4,274	-1,530	Joint US-UK	20 to 200 kt	750
751	Jara ▀ Cementback release of radioactivity detected onsite only	06/06/1974	LANL	NNSS	U3hp	Shaft	14:40:00.08	37.003797	-116.024378	3,960	-1,240	Weapons Related	Less than 20 kt	751
752	Ming Blade	06/19/1974	LANL/DoD	NNSS	U12n.08	Tunnel	16:00:00.08	37.210258	-116.208127	7,344	-1,272	Weapons Effects	Less than 20 kt	752
Operation Bedrock							Operation Bedrock							
753	Escabosa ▀	07/10/1974	LANL	NNSS	U7ac	Shaft	16:00:00.09	37.074984	-116.032691	4,102	-2,095	Weapons Related	20 to 200 kt	753
754	Crestlake-Briar ▀ Crestlake-Tansan ▀ Simultaneous, same hole Crestlake-Briar, -Tansan: Drillback release of radioactivity detected onsite only	07/18/1974 07/18/1974	LLNL LLNL	NNSS NNSS	U2dw U2dw	Shaft Shaft	14:00:01.20 14:00:01.20	37.119205 37.119205	-116.086002 -116.086002	4,269 4,269	-1,226 -891	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	754
755	Puye ▀ Drillback and cementback release of radioactivity detected onsite only	08/14/1974	LANL	NNSS	U3jl	Shaft	14:00:00.11	37.023366	-116.037231	3,987	-1,411	Weapons Related	Less than 20 kt	755
756	Portmanteau ▀	08/30/1974	LLNL	NNSS	U2ax	Shaft	15:00:00.16	37.152431	-116.084203	4,397	-2,150	Weapons Related	20 to 200 kt	756
757	Pratt ▀	09/25/1974	LANL	NNSS	U3hq	Shaft	14:00:00.08	37.012074	-116.031159	3,970	-1,030	Weapons Related	Less than 20 kt	757
758	Trumbull	09/26/1974	LLNL	NNSS	U4aa	Shaft	14:30:00.16	37.093157	-116.095630	4,251	-863	Weapons Related	Less than 20 kt	758
759	Stanyan ▀	09/26/1974	LLNL	NNSS	U2aw	Shaft	15:05:00.17	37.132581	-116.069261	4,271	-1,880	Weapons Related	20 to 200 kt	759
760	Estaca	10/17/1974	LANL	NNSS	U3ja	Shaft	17:13:00.12	37.006354	-116.015722	3,959	-1,053	Weapons Related	Less than 20 kt	760
761	Hybla Fair Controlled release of radioactivity detected onsite only	10/28/1974	LLNL/DoD	NNSS	U12n.09	Tunnel	15:00:00.17	37.201085	-116.204811	7,394	-1,325	Weapons Effects	Less than 20 kt	761
762	Temescal Gas sampling release of radioactivity detected onsite only	11/02/1974	LLNL	NNSS	U4ab	Shaft	15:30:00.16	37.093142	-116.092544	4,234	-862	Weapons Related	Less than 20 kt	762
763	Puddle	11/26/1974	LANL	NNSS	U3kg	Shaft	15:00:00.90	37.000983	-116.012073	4,002	-604	Safety Experiment	Less than 20 kt	763
764	Keel ▀	12/16/1974	LANL	NNSS	U3hu	Shaft	17:30:00.09	37.011253	-116.018496	3,966	-1,000	Weapons Related	Less than 20 kt	764
765	Portola-Larkin Portola Simultaneous, same hole Portola-Larkin, Portola: Drillback release of radioactivity detected onsite only	02/06/1975 02/06/1975	LLNL LLNL	NNSS NNSS	U10bb U10bb	Shaft Shaft	15:30:00.16 15:30:00.17	37.178360 37.178360	-116.052424 -116.052424	4,305 4,305	-901 -651	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	765
766	Teleme ▀	02/06/1975	LLNL	NNSS	U9cl	Shaft	16:13:00.17	37.114067	-116.021904	4,354	-1,001	Weapons Related	Less than 20 kt	766

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Bedrock – Continued						Operation Bedrock – Continued								
767	Bilge Cementback release of radioactivity detected onsite only	02/19/1975	LANL	NNSS	U3kc	Shaft	20:10:00.22	37.002155	-116.025429	3,957	-1,044	Weapons Related	Less than 20 kt	767
768	Topgallant ▾	02/28/1975	LANL	NNSS	U4e	Shaft	15:15:00.09	37.106153	-116.057123	4,173	-2,340	Weapons Related	20 to 200 kt	768
769	Cabrillo ▾ Drillback release of radioactivity detected onsite only	03/07/1975	LLNL	NNSS	U2dr	Shaft	15:00:00.17	37.133964	-116.085117	4,313	-1,970	Weapons Related	20 to 200 kt	769
770	Dining Car	04/05/1975	LLNL/DoD	NNSS	U12e.18	Tunnel	19:45:00.19	37.187868	-116.214751	7,430	-1,257	Weapons Effects	Less than 20 kt	770
771	Edam ▾	04/24/1975	LLNL	NNSS	U2dy	Shaft	14:10:00.17	37.115640	-116.088262	4,263	-1,350	Weapons Related	20 to 200 kt	771
772	Obar	04/30/1975	LANL	NNSS	U7ag	Shaft	15:00:01.90	37.108805	-116.029665	4,286	-1,866	Weapons Related	20 to 200 kt	772
773	Tybo	05/14/1975	LLNL	NNSS	U20y	Shaft	14:00:00.16	37.220730	-116.475069	6,257	-2,510	Weapons Related	200 to 1,000 kt	773
774	Stilton Test also known as Stilton/Hushed Echo	06/03/1975	LLNL/DoD	NNSS	U20p	Shaft	14:20:00.17	37.340002	-116.523770	5,560	-2,400	Weapons Related	20 to 200 kt	774
775	Mizzen ▾	06/03/1975	LANL	NNSS	U7ah	Shaft	14:40:00.11	37.094783	-116.036976	4,180	-2,090	Weapons Related	20 to 200 kt	775
776	Alviso	06/11/1975	LLNL	NNSS	U2du	Shaft	13:00:00.17	37.111732	-116.074569	4,225	-600	Safety Experiment	Less than 20 kt	776
777	Futtock	06/18/1975	LANL	NNSS	U3eh	Shaft	11:49:00.09	37.065592	-116.022829	4,094	-612	Safety Experiment	Less than 20 kt	777
778	Mast	06/19/1975	LANL	NNSS	U19u	Shaft	13:00:00.09	37.350295	-116.321103	6,873	-2,988	Weapons Related	200 to 1,000 kt	778
779	Camembert	06/26/1975	LLNL	NNSS	U19q	Shaft	12:30:00.16	37.278875	-116.369471	6,758	-4,304	Weapons Related	200 to 1,000 kt	779
Operation Anvil						Operation Anvil								
780	Marsh ▾	09/06/1975	LANL	NNSS	U3kb	Shaft	17:00:00.11	37.023603	-116.029178	3,983	-1,402	Weapons Related	Less than 20 kt	780
781	Husky Pup	10/24/1975	LLNL/DoD	NNSS	U12t.03	Tunnel	17:11:26.09	37.221588	-116.180561	6,703	-1,076	Weapons Effects	Less than 20 kt	781
782	Kasseri Drillback release of radioactivity detected onsite only	10/28/1975	LLNL	NNSS	U20z	Shaft	14:30:00.16	37.289997	-116.412434	6,509	-4,150	Weapons Related	200 to 1,000 kt	782
783	Deck ▾	11/18/1975	LANL	NNSS	U3kd	Shaft	15:30:00.11	37.020263	-116.021499	3,958	-1,070	Weapons Related	Less than 20 kt	783
784	Inlet	11/20/1975	LANL	NNSS	U19f	Shaft	15:00:00.09	37.224903	-116.368447	6,734	-2,685	Weapons Related	200 to 1,000 kt	784
785	Leyden	11/26/1975	LLNL	NNSS	U9cm	Shaft	15:30:00.16	37.117214	-116.019751	4,363	-1,070	Weapons Related	Less than 20 kt	785
786	Chiberta ▾	12/20/1975	LLNL	NNSS	U2ek	Shaft	20:00:00.16	37.127602	-116.062439	4,237	-2,350	Weapons Related	20 to 200 kt	786
787	Muenster	01/03/1976	LLNL	NNSS	U19e	Shaft	19:15:00.16	37.296498	-116.334072	6,919	-4,765	Weapons Related	200 to 1,000 kt	787
788	Keelson ▾	02/04/1976	LANL	NNSS	U7ai	Shaft	14:20:00.11	37.069209	-116.031028	4,084	-2,098	Weapons Related	20 to 200 kt	788
789	Esrom ▾ Drillback release of radioactivity detected onsite only	02/04/1976	LLNL	NNSS	U7ak	Shaft	14:40:00.16	37.106546	-116.038295	4,216	-2,149	Weapons Related	20 to 200 kt	789
790	Fontina	02/12/1976	LLNL	NNSS	U20f	Shaft	14:45:00.16	37.271354	-116.489338	6,117	-3,997	Weapons Related	200 to 1,000 kt	790
791	Cheshire	02/14/1976	LLNL	NNSS	U20n	Shaft	11:30:00.16	37.242582	-116.421101	6,477	-3,829	Weapons Related	200 to 500 kt	791
792	Shallows ▾ Cementback release of radioactivity detected onsite only	02/26/1976	LANL	NNSS	U3jf	Shaft	14:50:00.09	37.028476	-116.016633	3,987	-803	Weapons Related	Less than 20 kt	792
793	Estuary	03/09/1976	LANL	NNSS	U19g	Shaft	14:00:00.09	37.309910	-116.365105	6,734	-2,811	Weapons Related	200 to 500 kt	793
794	Colby Mudpit release of radioactivity detected onsite only	03/14/1976	LLNL	NNSS	U20aa	Shaft	12:30:00.16	37.305939	-116.472375	6,337	-4,174	Weapons Related	500 to 1,000 kt	794

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Anvil – Continued							Operation Anvil – Continued							
795	Pool	03/17/1976	LANL	NNSS	U19p	Shaft	14:15:00.09	37.255836	-116.329461	6,899	-2,891	Weapons Related	200 to 500 kt	795
796	Strait ▀	03/17/1976	LANL	NNSS	U4a	Shaft	14:45:00.09	37.107238	-116.053345	4,169	-2,567	Weapons Related	200 to 500 kt	796
797	Mighty Epic	05/12/1976	LLNL/DoD	NNSS	U12n.10	Tunnel	19:50:00.17	37.209010	-116.213330	7,378	-1,306	Weapons Effects	Less than 20 kt	797
798	Rivoli Accidental release of radioactivity detected onsite only	05/20/1976	LLNL	NNSS	U2eg	Shaft	17:30:00.16	37.137153	-116.067448	4,284	-656	Weapons Related	Less than 20 kt	798
799	Billet Drillback release of radioactivity detected onsite only	07/27/1976	LANL	NNSS	U7an	Shaft	20:30:00.08	37.075322	-116.044686	4,100	-2,088	Weapons Related	20 to 150 kt	799
800	Banon ▀ Drillback release of radioactivity detected onsite only	08/26/1976	LLNL/UK	NNSS	U2dz	Shaft	14:30:00.17	37.124960	-116.082867	4,273	-1,761	Joint US-UK	20 to 150 kt	800
Operation Fulcrum							Operation Fulcrum							
801	Gouda	10/06/1976	LLNL	NNSS	U2ef	Shaft	14:30:00.16	37.134514	-116.063146	4,260	-656	Weapons Related	Less than 20 kt	801
802	Sprit	11/10/1976	LANL	NNSS	U3hc	Shaft	14:58:00.08	37.035902	-116.018283	4,000	-601	Weapons Related	Less than 20 kt	802
803	Chevre ▀	11/23/1976	LLNL	NNSS	U10ay	Shaft	15:15:00.16	37.171658	-116.053542	4,281	-1,040	Weapons Related	Less than 20 kt	803
804	Redmud ▀	12/08/1976	LANL	NNSS	U7ab	Shaft	14:49:30.08	37.079216	-116.002487	4,251	-1,400	Weapons Related	Less than 20 kt	804
805	Asiago ▀	12/21/1976	LLNL	NNSS	U2ar	Shaft	15:09:00.17	37.123863	-116.068328	4,239	-1,083	Weapons Related	Less than 20 kt	805
806	Sutter	12/21/1976	LLNL	NNSS	U2bw	Shaft	15:58:00.16	37.151851	-116.064305	4,312	-657	Weapons Related	Less than 20 kt	806
807	Rudder ▀	12/28/1976	LANL	NNSS	U7ajS	Shaft	18:00:00.08	37.100446	-116.037331	4,205	-2,095	Weapons Related	20 to 150 kt	807
808	Oarlock ▀ Cove ▀ Simultaneous, separate holes	02/16/1977 02/16/1977	LANL LANL	NNSS NNSS	U3km U3ki	Shaft Shaft	17:53:00.07 17:53:00.16	37.013438 37.006589	-116.029435 -116.032235	3,970 3,963	-1,042 -1,098	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	808
809	Dofino Dofino-Lawton Simultaneous, same hole Dofino, -Dofino-Lawton: Drillback release of radioactivity detected onsite only	03/08/1977 03/08/1977	LLNL LLNL	NNSS NNSS	U10ba U10ba	Shaft Shaft	14:24:00.16 14:24:00.16	37.176147 37.176147	-116.053825 -116.053825	4,296 4,296	-600 -926	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	809
810	Marsilly ▀ Drillback release of radioactivity detected onsite only	04/05/1977	LLNL	NNSS	U2el	Shaft	15:00:00.17	37.120187	-116.063150	4,220	-2,260	Weapons Related	20 to 150 kt	810
811	Bulkhead	04/27/1977	LANL	NNSS	U7am	Shaft	15:00:00.08	37.094739	-116.028751	4,219	-1,950	Weapons Related	20 to 150 kt	811
812	Crewline	05/25/1977	LANL	NNSS	U7ap	Shaft	17:00:00.08	37.094280	-116.045731	4,148	-1,851	Weapons Related	20 to 150 kt	812
813	Forefoot	06/02/1977	LANL	NNSS	U3kf	Shaft	17:15:00.10	37.054895	-116.025832	4,047	-635	Weapons Related	Less than 20 kt	813
814	Carnelian ▀ Drillback release of radioactivity detected onsite only	07/28/1977	LLNL	NNSS	U4af	Shaft	14:07:00.16	37.097534	-116.091825	4,238	-684	Weapons Related	Less than 20 kt	814
815	Strake ▀	08/04/1977	LANL	NNSS	U7ae	Shaft	16:40:00.07	37.086522	-116.007738	4,266	-1,698	Weapons Related	20 to 150 kt	815
816	Gruyere Gruyere-Gradino Simultaneous, same hole Gruyere-Gradino: Drillback release of radioactivity detected onsite only	08/16/1977 08/16/1977	LLNL LLNL	NNSS NNSS	U9cg U9cg	Shaft Shaft	14:41:00.16 14:41:00.16	37.145117 37.145117	-116.049948 -116.049948	4,232 4,232	-680 -1,050	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	816

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Fulcrum – Continued						Operation Fulcrum – Continued								
817	Flotost ▀ Drillback release of radioactivity detected onsite only	08/16/1977	LLNL	NNSS	U2ao	Shaft	15:49:00.17	37.146672	-116.063983	4,301	-903	Weapons Related	Less than 20 kt	817
818	Scupper	08/19/1977	LANL	NNSS	U3hj	Shaft	17:32:00.10	37.017575	-116.032483	3,976	-1,475	Weapons Related	Less than 20 kt	818
819	Scantling ▀	08/19/1977	LANL	NNSS	U4h	Shaft	17:55:00.10	37.109987	-116.055377	4,175	-2,300	Weapons Related	20 to 150 kt	819
820	Ebbtide ▀	09/15/1977	LANL	NNSS	U3kt	Shaft	14:36:30.08	37.032743	-116.044006	4,005	-1,245	Weapons Related	Less than 20 kt	820
821	Coulommiers ▀ Drillback release of radioactivity detected onsite only	09/27/1977	LLNL	NNSS	U2ei	Shaft	14:00:00.16	37.151117	-116.068429	4,327	-1,740	Weapons Related	20 to 150 kt	821
Operation Cresset						Operation Cresset								
822	Bobstay ▀ Cementback release of radioactivity detected onsite only	10/26/1977	LANL	NNSS	U3jb	Shaft	14:15:00.08	37.007554	-116.017572	3,961	-1,251	Weapons Related	Less than 20 kt	822
823	Hybla Gold Controlled release of radioactivity detected onsite only	11/01/1977	LANL/DoD	NNSS	U12e.20	Tunnel	18:06:00.07	37.187733	-116.213832	7,434	-1,263	Weapons Effects	Less than 20 kt	823
824	Sandreef ▀	11/09/1977	LANL	NNSS	U7aq	Shaft	22:00:00.08	37.072058	-116.050879	4,094	-2,299	Weapons Related	20 to 150 kt	824
825	Seamount ▀	11/17/1977	LANL	NNSS	U3kp	Shaft	19:30:00.08	37.020556	-116.025943	3,979	-1,214	Weapons Related	Less than 20 kt	825
826	Rib ▀	12/14/1977	LANL	NNSS	U3jv	Shaft	15:00:00.17	37.017504	-116.018778	3,973	-698	Weapons Related	Less than 20 kt	826
827	Farallones ▀ Drillback release of radioactivity detected onsite only	12/14/1977	LLNL	NNSS	U2fa	Shaft	15:30:00.07	37.135821	-116.086900	4,322	-2,189	Weapons Related	20 to 150 kt	827
828	Campos Drillback release of radioactivity detected onsite only	02/13/1978	LLNL	NNSS	U9cp	Shaft	21:53:00.16	37.126070	-116.032608	4,253	-1,049	Weapons Related	Less than 20 kt	828
829	Reblochon ▀ Drillback release of radioactivity detected onsite only	02/23/1978	LLNL	NNSS	U2en	Shaft	17:00:00.16	37.123631	-116.064701	4,226	-2,160	Weapons Related	20 to 150 kt	829
830	Karab ▀ Drillback release of radioactivity detected onsite only	03/16/1978	LLNL	NNSS	U4ah	Shaft	15:00:00.07	37.085125	-116.082490	4,182	-1,086	Weapons Related	Less than 20 kt	830
831	Topmast	03/23/1978	LANL	NNSS	U7ay	Shaft	16:30:00.11	37.098815	-116.020490	4,296	-1,502	Weapons Related	Less than 20 kt	831
832	Iceberg ▀	03/23/1978	LANL	NNSS	U4g	Shaft	16:30:00.20	37.101729	-116.052018	4,152	-2,101	Weapons Related	20 to 150 kt	832
833	Fondutta	04/11/1978	LLNL/UK	NNSS	U19zS	Shaft	15:30:00.16	37.299575	-116.327584	6,888	-2,077	Joint US-UK	20 to 150 kt	833
834	Backbeach	04/11/1978	LANL	NNSS	U19x	Shaft	17:45:00.07	37.233439	-116.369355	6,781	-2,204	Weapons Related	20 to 150 kt	834
835	Asco	04/25/1978	LLNL	NNSS	U10bc	Shaft	14:35:00.16	37.154518	-116.035630	4,305	-600	Safety Experiment	Less than 20 kt	835
836	Transom No nuclear yield Device was destroyed by Hearts detonation on 09/06/1979	05/10/1978	LANL	NNSS	U4f	Shaft	15:00:00.07	37.087728	-116.053499	4,129	-2,100	Weapons Related	Zero	836
837	Jackpots	06/01/1978	LANL	NNSS	U3kj	Shaft	17:00:00.08	37.020598	-116.032814	3,979	-998	Weapons Related	Less than 20 kt	837
838	Satz ▀ Gas sampling release of radioactivity detected onsite only	07/07/1978	LLNL	NNSS	U2dq	Shaft	14:00:00.17	37.111749	-116.078002	4,232	-1,033	Weapons Related	Less than 20 kt	838

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Cresset – Continued							Operation Cresset – Continued							
839	Lowball ▀	07/12/1978	LANL	NNSS	U7av	Shaft	17:00:00.08	37.078621	-116.044656	4,109	-1,853	Weapons Related	20 to 150 kt	839
840	Panir	08/31/1978	LLNL	NNSS	U19yS	Shaft	14:00:00.16	37.275877	-116.358226	6,694	-2,234	Weapons Related	20 to 150 kt	840
841	Diablo Hawk	09/13/1978	LLNL/DoD	NNSS	U12n.10a	Tunnel	15:15:00.16	37.208750	-116.211642	7,346	-1,273	Weapons Effects	Less than 20 kt	841
842	Cremino Cremino-Caerphilly Simultaneous, same hole	09/27/1978	LLNL	NNSS	U8e	Shaft	16:30:00.17	37.170963	-116.088036	4,488	-688	Weapons Related	Less than 20 kt	842
		09/27/1978			U8e	Shaft	16:30:00.17	37.170963	-116.088036	4,488	-1,377	Weapons Related	Less than 20 kt	
843	Draughts ▀	09/27/1978	LANL	NNSS	U7al	Shaft	17:00:00.07	37.073820	-116.020703	4,139	-1,449	Weapons Related	20 to 150 kt	843
844	Rummy ▀	09/27/1978	LANL	NNSS	U7au	Shaft	17:20:00.08	37.079756	-116.052192	4,111	-2,099	Weapons Related	20 to 150 kt	844
Operation Quicksilver							Operation Quicksilver							
845	Emmenthal	11/02/1978	LLNL	NNSS	U19t	Shaft	15:25:00.17	37.287894	-116.298378	6,991	-1,891	Weapons Related	Less than 20 kt	845
846	Quargel ▀ Drillback release of radioactivity detected onsite only	11/18/1978	LLNL/UK	NNSS	U2fb	Shaft	19:00:00.17	37.126821	-116.084743	4,271	-1,778	Joint US-UK	20 to 150 kt	846
847	Concentration ▀	12/01/1978	LANL	NNSS	U3kn	Shaft	17:07:30.07	37.029621	-116.025000	3,991	-812	Weapons Related	Less than 20 kt	847
848	Farm Gas sampling release of radioactivity detected onsite only	12/16/1978	LLNL	NNSS	U20ab	Shaft	15:30:00.16	37.273338	-116.411164	6,581	-2,260	Weapons Related	20 to 150 kt	848
849	Baccarat ▀	01/24/1979	LANL	NNSS	U7ax	Shaft	18:00:00.10	37.105363	-116.012547	4,389	-1,071	Weapons Related	Less than 20 kt	849
850	Quinella ▀	02/08/1979	LANL	NNSS	U4l	Shaft	20:00:00.09	37.102435	-116.055712	4,159	-1,900	Weapons Related	20 to 150 kt	850
851	Kloster ▀ Drillback release of radioactivity detected onsite only	02/15/1979	LLNL	NNSS	U2eo	Shaft	18:05:00.16	37.151962	-116.072708	4,344	-1,760	Weapons Related	20 to 150 kt	851
852	Memory ▀	03/14/1979	LANL	NNSS	U3kq	Shaft	18:30:00.10	37.027781	-116.040620	3,995	-1,197	Weapons Related	Less than 20 kt	852
853	Freezeout ▀	05/11/1979	LANL	NNSS	U3kw	Shaft	16:00:00.10	36.998135	-116.018604	3,951	-1,100	Weapons Related	Less than 20 kt	853
854	Pepato Drillback release of radioactivity detected onsite only	06/11/1979	LLNL	NNSS	U20ad	Shaft	14:00:00.17	37.289635	-116.456143	6,366	-2,239	Weapons Related	20 to 150 kt	854
855	Chess	06/20/1979	LANL	NNSS	U7at	Shaft	15:00:13.54	37.107580	-116.015958	4,384	-1,100	Weapons Related	Less than 20 kt	855
856	Fajy ▀ Drillback and gas sampling release of radioactivity detected onsite only	06/28/1979	LLNL	NNSS	U2fc	Shaft	14:44:00.17	37.143116	-116.088389	4,364	-1,760	Weapons Related	20 to 150 kt	856
857	Burzet ▀ Gas sampling release of radioactivity detected onsite only	08/03/1979	LLNL	NNSS	U4ai	Shaft	15:07:30.16	37.083902	-116.070757	4,142	-1,475	Weapons Related	20 to 150 kt	857
858	Offshore ▀	08/08/1979	LANL	NNSS	U3ks	Shaft	15:00:00.11	37.014700	-116.008872	3,966	-1,301	Weapons Related	20 to 150 kt	858
859	Nessel ▀ Gas sampling release of radioactivity detected onsite only	08/29/1979	LLNL/UK	NNSS	U2ep	Shaft	15:08:00.17	37.121173	-116.067457	4,221	-1,522	Joint US-UK	20 to 150 kt	859
860	Hearts ▀ Detonation destroyed undetonated Transom device from 05/10/1978	09/06/1979	LANL	NNSS	U4n	Shaft	15:00:00.09	37.088064	-116.053654	4,130	-2,100	Weapons Related	140 kt	860
861	Pera ▀	09/08/1979	LLNL	NNSS	U10bd	Shaft	17:02:00.09	37.154948	-116.039058	4,289	-656	Weapons Related	Less than 20 kt	861
862	Sheepshead	09/26/1979	LANL	NNSS	U19aa	Shaft	15:00:00.09	37.229014	-116.364938	6,758	-2,100	Weapons Related	20 to 150 kt	862

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Tinderbox							Operation Tinderbox							
863	Backgammon	11/29/1979	LANL	NNSS	U3jh	Shaft	15:00:00.10	36.993912	-116.024975	3,948	-750	Weapons Related	Less than 20 kt	863
864	Azul Detonation destroyed Peninsula device that was damaged during emplacement on 10/23/1975 Peninsula device was not tested	12/14/1979	LLNL	NNSS	U2erm	Shaft	18:00:00.09	37.137325	-116.063944	4,273	-672	Weapons Related	Less than 20 kt	864
865	Tarko Drillback and gas sampling release of radioactivity detected onsite only	02/28/1980	LLNL	NNSS	U2fd	Shaft	15:00:00.09	37.126500	-116.089376	4,287	-1,209	Weapons Related	Less than 20 kt	865
866	Norbo Accidental and gas sampling release of radioactivity detected onsite only	03/08/1980	LLNL	NNSS	U8c	Shaft	15:35:00.09	37.179898	-116.083993	4,515	-889	Weapons Related	Less than 20 kt	866
867	Liptauer	04/03/1980	LLNL	NNSS	U2eh	Shaft	14:00:00.09	37.149828	-116.083132	4,368	-1,368	Weapons Related	20 to 150 kt	867
868	Pyramid	04/16/1980	LANL	NNSS	U7be	Shaft	20:00:00.09	37.101071	-116.031400	4,241	-1,900	Weapons Related	20 to 150 kt	868
869	Colwick Gas sampling release of radioactivity detected onsite only	04/26/1980	LLNL/UK	NNSS	U20ac	Shaft	17:00:00.08	37.248374	-116.423288	6,473	-2,077	Joint US-UK	20 to 150 kt	869
870	Canfield	05/02/1980	LANL	NNSS	U3kx	Shaft	18:46:30.09	37.055962	-116.019826	4,060	-1,150	Weapons Related	Less than 20 kt	870
871	Flora Drillback release of radioactivity detected onsite only	05/22/1980	LANL	NNSS	U3lg	Shaft	13:00:00.09	37.003016	-116.032261	3,958	-1,100	Weapons Related	Less than 20 kt	871
872	Kash Gas sampling release of radioactivity detected onsite only	06/12/1980	LLNL	NNSS	U20af	Shaft	17:15:00.09	37.281604	-116.454743	6,360	-2,116	Weapons Related	20 to 150 kt	872
873	Huron King	06/24/1980	LANL/DoD	NNSS	U3ky	Shaft	15:10:00.07	37.023247	-116.035005	3,985	-1,050	Weapons Effects	Less than 20 kt	873
874	Tafi Gas sampling release of radioactivity detected onsite only	07/25/1980	LLNL	NNSS	U20ae	Shaft	19:05:00.08	37.256269	-116.478298	6,189	-2,232	Weapons Related	20 to 150 kt	874
875	Verdello Drillback and cementback release of radioactivity detected onsite only	07/31/1980	LANL	NNSS	U3ku	Shaft	18:19:00.09	37.012995	-116.023615	3,970	-1,200	Weapons Related	Less than 20 kt	875
876	Bonarda	09/25/1980	LANL	NNSS	U3gv	Shaft	14:45:00.09	37.056117	-116.048955	4,057	-1,250	Weapons Related	20 to 150 kt	876
877	Riola Accidental release of radioactivity detected offsite Gas sampling release of radioactivity detected onsite only	09/25/1980	LLNL	NNSS	U2eq	Shaft	15:26:30.08	37.115814	-116.065438	4,203	-1,391	Weapons Related	1.07 kt	877
Operation Guardian							Operation Guardian							
878	Dutchess	10/24/1980	LANL/UK	NNSS	U7bm	Shaft	19:15:00.12	37.074528	-116.000132	4,238	-1,400	Joint US-UK	Less than 20 kt	878
879	Miners Iron Controlled release of radioactivity detected onsite only	10/31/1980	LANL/DoD	NNSS	U12n.11	Tunnel	18:00:00.09	37.211210	-116.206250	7,354	-1,278	Weapons Effects	Less than 20 kt	879
880	Dauphin	11/14/1980	LLNL	NNSS	U9cq	Shaft	16:50:00.08	37.111444	-116.019526	4,372	-1,050	Weapons Related	Less than 20 kt	880
881	Serpa	12/17/1980	LLNL/UK	NNSS	U19ai	Shaft	15:10:00.09	37.324737	-116.316055	6,742	-1,879	Joint US-UK	20 to 150 kt	881
882	Baseball	01/15/1981	LANL	NNSS	U7ba	Shaft	20:25:00.09	37.087042	-116.045619	4,129	-1,850	Weapons Related	20 to 150 kt	882

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Guardian – Continued							Operation Guardian – Continued							
883	Clairette	02/05/1981	LANL	NNSS	U3kr	Shaft	18:00:00.12	37.010848	-116.033049	3,968	-1,160	Weapons Related	Less than 20 kt	883
884	Seco	02/25/1981	LLNL	NNSS	U8l	Shaft	15:00:00.08	37.181851	-116.085121	4,538	-656	Weapons Related	Less than 20 kt	884
885	Vide Gas sampling release of radioactivity detected onsite only	04/30/1981	LLNL	NNSS	U8k	Shaft	14:35:00.08	37.177285	-116.085633	4,506	-1,061	Weapons Related	Less than 20 kt	885
886	Aligote	05/29/1981	LANL	NNSS	U7bg	Shaft	16:00:00.09	37.101805	-116.004931	4,388	-1,050	Weapons Related	Less than 20 kt	886
887	Harzer	06/06/1981	LLNL	NNSS	U19aj	Shaft	18:00:00.08	37.303343	-116.326480	6,891	-2,090	Weapons Related	20 to 150 kt	887
888	Niza □ Drillback and gas sampling release of radioactivity detected onsite only	07/10/1981	LLNL	NNSS	U9cr	Shaft	14:00:00.10	37.128556	-116.034645	4,242	-1,120	Weapons Related	Less than 20 kt	888
889	Pineau	07/16/1981	LANL	NNSS	U7ao	Shaft	15:00:00.10	37.088650	-116.020237	4,220	-680	Weapons Related	Less than 20 kt	889
890	Havarti □	08/05/1981	LLNL	NNSS	U10bg	Shaft	13:41:00.09	37.153695	-116.035946	4,298	-656	Weapons Related	Less than 20 kt	890
891	Islay □ Drillback release of radioactivity detected onsite only	08/27/1981	LLNL	NNSS	U2er	Shaft	14:31:00.09	37.160368	-116.067395	4,342	-965	Weapons Related	Less than 20 kt	891
892	Trebbiano □ Drillback release of radioactivity detected onsite only	09/04/1981	LANL	NNSS	U3lj	Shaft	15:00:00.10	37.058040	-116.048943	4,062	-1,002	Weapons Related	Less than 20 kt	892
893	Cernada	09/24/1981	LANL	NNSS	U3kk	Shaft	15:00:00.09	37.008471	-116.024667	3,964	-699	Weapons Related	Less than 20 kt	893
Operation Praetorian							Operation Praetorian							
894	Paliza □	10/01/1981	LANL	NNSS	U7bd	Shaft	19:00:00.10	37.081571	-116.009622	4,224	-1,549	Weapons Related	20 to 150 kt	894
895	Tilci □ Gas sampling release of radioactivity detected onsite only	11/11/1981	LLNL	NNSS	U4ak	Shaft	20:00:09.09	37.076273	-116.069360	4,131	-1,460	Weapons Related	20 to 150 kt	895
896	Rousanne □	11/12/1981	LANL/UK	NNSS	U4p	Shaft	15:00:00.10	37.108104	-116.049847	4,166	-1,697	Joint US-UK	20 to 150 kt	896
897	Akavi □ Gas sampling release of radioactivity detected onsite only	12/03/1981	LLNL	NNSS	U2es	Shaft	15:00:00.10	37.148387	-116.071710	4,332	-1,621	Weapons Related	20 to 150 kt	897
898	Caboc □ Drillback and gas sampling release of radioactivity detected onsite only	12/16/1981	LLNL	NNSS	U2cp	Shaft	21:05:00.09	37.114478	-116.123752	4,510	-1,099	Weapons Related	Less than 20 kt	898
899	Jornada □	01/28/1982	LANL	NNSS	U4j	Shaft	16:00:00.10	37.091295	-116.052102	4,134	-2,096	Weapons Related	139 kt	899
900	Molbo Gas sampling release of radioactivity detected onsite only	02/12/1982	LLNL	NNSS	U20ag	Shaft	14:55:00.08	37.224276	-116.463540	6,234	-2,093	Weapons Related	20 to 150 kt	900
901	Hosta	02/12/1982	LANL	NNSS	U19ak	Shaft	15:25:00.09	37.347921	-116.316986	6,898	-2,098	Weapons Related	20 to 150 kt	901
902	Tenaja □	04/17/1982	LANL	NNSS	U3lh	Shaft	18:00:00.09	37.016770	-116.010735	3,952	-1,169	Weapons Related	Less than 20 kt	902
903	Gibne Drillback release of radioactivity detected onsite only	04/25/1982	LLNL/UK	NNSS	U20ah	Shaft	18:05:00.09	37.255785	-116.423251	6,445	-1,869	Joint US-UK	20 to 150 kt	903
904	Kryddost	05/06/1982	LLNL	NNSS	U2co	Shaft	20:00:00.08	37.116792	-116.127779	4,562	-1,100	Weapons Related	Less than 20 kt	904

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Praetorian – Continued						Operation Praetorian – Continued								
905	Bouschet ▾ Cementback release of radioactivity detected onsite only	05/07/1982	LANL	NNSS	U3la	Shaft	18:17:00.11	37.069013	-116.046331	4,083	-1,850	Weapons Related	20 to 150 kt	905
906	Kesti	06/16/1982	LLNL	NNSS	U9cn	Shaft	14:00:00.08	37.114180	-116.017448	4,391	-945	Weapons Related	Less than 20 kt	906
907	Nebbiolo	06/24/1982	LANL	NNSS	U19ae	Shaft	14:15:00.09	37.236163	-116.371062	6,775	-2,098	Weapons Related	20 to 150 kt	907
908	Monterey ▾ Drillback release of radioactivity detected onsite only	07/29/1982	LLNL	NNSS	U4aj	Shaft	20:05:00.08	37.102259	-116.075843	4,200	-1,312	Weapons Related	20 to 150 kt	908
909	Atrisco ▾	08/05/1982	LANL	NNSS	U7bp	Shaft	14:00:00.09	37.084158	-116.007415	4,248	-2,099	Weapons Related	138 kt	909
910	Queso	08/11/1982	LLNL	NNSS	U10bf	Shaft	15:00:00.00	37.189744	-116.048555	4,387	-710	Weapons Related	Less than 20 kt	910
911	Cerro	09/02/1982	LANL	NNSS	U3lf	Shaft	14:00:00.09	37.019686	-116.016537	3,975	-750	Weapons Related	Less than 20 kt	911
912	Diamond Ace Simultaneous with Huron Landing Controlled release of radioactivity detected onsite only	09/23/1982	LLNL/DoD	NNSS	U12n.15	Tunnel	16:00:00.09	37.211995	-116.207512	7,466	-1,390	Weapons Effects	Less than 20 kt	912
913	Huron Landing Simultaneous with Diamond Ace Controlled release of radioactivity detected onsite only	09/23/1982	LANL/DoD	NNSS	U12n.15	Tunnel	16:00:00.09	37.211973	-116.207639	7,417	-1,339	Weapons Effects	Less than 20 kt	913
914	Frisco ▾ Drillback release of radioactivity detected onsite only	09/23/1982	LLNL	NNSS	U8m	Shaft	17:00:00.09	37.174702	-116.088666	4,507	-1,480	Weapons Related	20 to 150 kt	914
915	Borrego	09/29/1982	LANL	NNSS	U7br	Shaft	13:30:00.10	37.091256	-116.045756	4,137	-1,848	Weapons Related	Less than 150 kt	915
Operation Phalanx						Operation Phalanx								
916	Seyval ▾	11/12/1982	LANL	NNSS	U3lm	Shaft	19:17:00.10	37.023620	-116.032947	3,984	-1,201	Weapons Related	Less than 20 kt	916
917	Manteca ▾ Drillback release of radioactivity detected onsite only	12/10/1982	LLNL	NNSS	U4al	Shaft	15:20:00.09	37.080135	-116.072758	4,144	-1,350	Weapons Related	20 to 150 kt	917
918	Coalora ▾	02/11/1983	LANL	NNSS	U3lo	Shaft	16:00:00.10	37.056103	-116.046214	4,058	-899	Weapons Related	Less than 20 kt	918
919	Cheedam ▾ Drillback and gas sampling release of radioactivity detected onsite only	02/17/1983	LLNL	NNSS	U2et	Shaft	17:00:00.09	37.162769	-116.064219	4,332	-1,125	Weapons Related	Less than 20 kt	919
920	Cabra	03/26/1983	LLNL	NNSS	U20aj	Shaft	20:20:00.09	37.300630	-116.460926	6,345	-1,781	Weapons Related	20 to 150 kt	920
921	Turquoise ▾ Cementback release of radioactivity detected onsite only	04/14/1983	LANL	NNSS	U7bu	Shaft	19:05:00.12	37.072790	-116.046825	4,088	-1,749	Weapons Related	Less than 150 kt	921
922	Armada ▾ Drillback release of radioactivity detected onsite only	04/22/1983	LLNL/UK	NNSS	U9cs	Shaft	13:53:00.08	37.111465	-116.023298	4,339	-869	Joint US-UK	Less than 20 kt	922
923	Crowdie ▾ Drillback and gas sampling release of radioactivity detected onsite only	05/05/1983	LLNL	NNSS	U2fe	Shaft	15:20:00.08	37.145593	-116.090089	4,383	-1,280	Weapons Related	Less than 20 kt	923

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Operation Phalanx – Continued						Operation Phalanx – Continued								
924	Mini Jade Controlled release of radioactivity detected onsite only	05/26/1983	LANL/DoD	NNSS	U12n.12	Tunnel	14:30:00.09	37.208676	-116.205904	7,330	-1,244	Weapons Effects	Less than 20 kt	924
925	Fahada	05/26/1983	LANL	NNSS	U7bh	Shaft	15:00:00.09	37.102858	-116.006568	4,392	-1,261	Weapons Related	Less than 20 kt	925
926	Danablu ▀ Drillback release of radioactivity detected onsite only	06/09/1983	LLNL	NNSS	U2eu	Shaft	17:10:00.09	37.157569	-116.090101	4,441	-1,050	Weapons Related	Less than 20 kt	926
927	Laban ▀ Drillback release of radioactivity detected onsite only	08/03/1983	LLNL	NNSS	U2ff	Shaft	13:33:00.10	37.118948	-116.089777	4,275	-1,070	Weapons Related	Less than 20 kt	927
928	Sabado	08/11/1983	LANL	NNSS	U3lc	Shaft	14:00:00.12	36.997640	-116.003537	3,946	-1,050	Weapons Related	Less than 20 kt	928
929	Jarlsberg ▀ Drillback release of radioactivity detected onsite only	08/27/1983	LLNL	NNSS	U10ca	Shaft	14:00:00.09	37.192891	-116.034909	4,411	-655	Weapons Related	Less than 20 kt	929
930	Chancellor	09/01/1983	LANL	NNSS	U19ad	Shaft	14:00:00.08	37.272710	-116.355916	6,692	-2,046	Weapons Related	143 kt	930
931	Tomme/Midnight Zephyr	09/21/1983	LLNL/DoD	NNSS	U12n.18	Tunnel	15:00:00.09	37.209695	-116.210129	7,401	-1,328	Weapons Effects	Less than 20 kt	931
932	Branco ▀ Branco-Herkimer ▀ Simultaneous, same hole	09/21/1983 09/21/1983	LLNL LLNL	NNSS NNSS	U2ew U2ew	Shaft Shaft	16:25:00.08 16:25:00.08	37.121309 37.121309	-116.056452 -116.056452	4,209 4,209	-960 -1,400	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	932
933	Techado	09/22/1983	LANL	NNSS	U4o	Shaft	15:00:00.12	37.105563	-116.050269	4,159	-1,747	Weapons Related	Less than 150 kt	933
934	Navata	09/29/1983	LANL	NNSS	U3lb	Shaft	15:00:00.09	37.053360	-116.021222	4,048	-600	Safety Experiment	Less than 20 kt	934
Operation Fusileer						Operation Fusileer								
935	Muggins ▀	12/09/1983	LANL	NNSS	U3ls	Shaft	16:00:00.11	37.012705	-116.046567	3,987	-800	Weapons Related	Less than 20 kt	935
936	Romano ▀ Cementback release of radioactivity detected onsite only	12/16/1983	LLNL	NNSS	U2ex	Shaft	18:30:00.09	37.140400	-116.072939	4,311	-1,690	Weapons Related	20 to 150 kt	936
937	Gorbea Drillback and gas sampling release of radioactivity detected onsite only	01/31/1984	LLNL	NNSS	U2cq	Shaft	15:30:00.08	37.112649	-116.122575	4,499	-1,273	Weapons Related	20 to 150 kt	937
938	Midas Myth/Milagro ▀	02/15/1984	LANL/DoD	NNSS	U12t.04	Tunnel	17:00:00.11	37.221336	-116.181950	6,804	-1,184	Weapons Effects	Less than 20 kt	938
939	Tortugas ▀	03/01/1984	LANL	NNSS	U3gg	Shaft	17:45:00.09	37.065718	-116.047164	4,079	-2,095	Weapons Related	20 to 150 kt	939
940	Agrini ▀ Accidental, controlled, and drillback release of radioactivity detected onsite only	03/31/1984	LLNL	NNSS	U2ev	Shaft	14:30:00.08	37.146392	-116.084933	4,366	-1,050	Weapons Related	Less than 20 kt	940
941	Mundo ▀	05/01/1984	LANL/UK	NNSS	U7bo	Shaft	19:05:00.09	37.106175	-116.023250	4,328	-1,857	Joint US-UK	20 to 150 kt	941
942	Orkney Drillback release of radioactivity detected onsite only	05/02/1984	LLNL	NNSS	U10be	Shaft	13:50:00.09	37.198428	-116.054836	4,522	-688	Weapons Related	Less than 20 kt	942
943	Bellow ▀	05/16/1984	LLNL	NNSS	U4ac	Shaft	16:00:00.08	37.092463	-116.094092	4,241	-680	Weapons Related	Less than 20 kt	943
944	Caprock ▀ Gas sampling release of radioactivity detected onsite only	05/31/1984	LANL	NNSS	U4q	Shaft	13:04:00.10	37.103086	-116.048917	4,146	-1,968	Weapons Related	20 to 150 kt	944
945	Duoro ▀	06/20/1984	LANL	NNSS	U3lv	Shaft	15:15:00.09	37.000331	-116.043928	3,961	-1,250	Weapons Related	20 to 150 kt	945

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Operation Fusileer – Continued							Operation Fusileer – Continued							
946	Normanna ▾	07/12/1984	LLNL	NNSS	U10cb	Shaft	14:00:00.09	37.191937	-116.035247	4,404	-656	Weapons Related	Less than 20 kt	946
947	Kappeli Accidental release of radioactivity detected onsite only	07/25/1984	LLNL	NNSS	U20am	Shaft	15:30:00.08	37.267711	-116.411530	6,593	-2,100	Weapons Related	20 to 150 kt	947
948	Correo ▾	08/02/1984	LANL	NNSS	U3lw	Shaft	15:00:00.09	37.016758	-116.008512	3,967	-1,096	Weapons Related	Less than 20 kt	948
949	Wexford ▾	08/30/1984	LLNL	NNSS	U2cr	Shaft	14:45:00.00	37.143840	-116.126129	4,604	-1,030	Weapons Related	Less than 20 kt	949
950	Dolcetto ▾	08/30/1984	LANL	NNSS	U7bi	Shaft	14:45:00.10	37.089748	-116.000235	4,324	-1,198	Weapons Related	Less than 20 kt	950
951	Breton ▾ Drillback and gas sampling release of radioactivity detected onsite only	09/13/1984	LLNL	NNSS	U4ar	Shaft	14:00:00.00	37.086639	-116.072046	4,149	-1,585	Weapons Related	20 to 150 kt	951
Operation Grenadier							Operation Grenadier							
952	Vermejo ▾	10/02/1984	LANL	NNSS	U4r	Shaft	18:14:00.10	37.085180	-116.053674	4,119	-1,149	Weapons Related	Less than 20 kt	952
953	Villita ▾	11/10/1984	LANL	NNSS	U3ld	Shaft	16:40:00.09	37.000056	-116.018245	3,952	-1,221	Weapons Related	Less than 20 kt	953
954	Egmont	12/09/1984	LLNL/UK	NNSS	U20al	Shaft	19:40:00.09	37.270022	-116.498473	6,124	-1,792	Joint US-UK	20 to 150 kt	954
955	Tierra Accidental release of radioactivity detected onsite only	12/15/1984	LLNL	NNSS	U19ac	Shaft	14:45:00.00	37.281310	-116.306296	7,038	-2,100	Weapons Related	20 to 150 kt	955
956	Minero ▾	12/20/1984	LANL	NNSS	U3lt	Shaft	16:20:00.11	37.011898	-116.045573	3,985	-803	Weapons Related	Less than 20 kt	956
957	Vaughn Drillback release of radioactivity detected onsite only	03/15/1985	LANL	NNSS	U3lr	Shaft	16:31:00.10	37.058025	-116.046198	4,062	-1,396	Weapons Related	20 to 150 kt	957
958	Cottage ▾	03/23/1985	LLNL	NNSS	U8j	Shaft	18:30:00.08	37.179926	-116.089828	4,556	-1,690	Weapons Related	20 to 150 kt	958
959	Hermosa	04/02/1985	LANL	NNSS	U7bs	Shaft	20:00:00.09	37.094763	-116.033212	4,192	-2,094	Weapons Related	20 to 150 kt	959
960	Misty Rain Controlled release of radioactivity detected offsite	04/06/1985	LLNL/DoD	NNSS	U12n.17	Tunnel	23:15:00.09	37.200782	-116.208047	7,345	-1,275	Weapons Effects	Less than 20 kt	960
961	Towanda	05/02/1985	LANL	NNSS	U19ab	Shaft	15:20:00.08	37.253352	-116.326091	6,928	-2,166	Weapons Related	20 to 150 kt	961
962	Salut Drillback and gas sampling release of radioactivity detected onsite only	06/12/1985	LLNL	NNSS	U20ak	Shaft	15:15:00.08	37.247799	-116.489947	6,235	-1,995	Weapons Related	20 to 150 kt	962
963	Ville ▾ Drillback and gas sampling release of radioactivity detected onsite only	06/12/1985	LLNL	NNSS	U4am	Shaft	17:30:00.09	37.088265	-116.084808	4,189	-955	Weapons Related	Less than 20 kt	963
964	Maribo Drillback release of radioactivity detected onsite only	06/26/1985	LLNL	NNSS	U2cs	Shaft	18:03:00.08	37.124049	-116.122860	4,526	-1,250	Weapons Related	Less than 20 kt	964
965	Serena Drillback release of radioactivity detected onsite only	07/25/1985	LLNL	NNSS	U20an	Shaft	14:00:00.09	37.297192	-116.438962	6,462	-1,960	Weapons Related	20 to 150 kt	965
966	Cebbrero Gas sampling release of radioactivity detected onsite only	08/14/1985	LLNL	NNSS	U9cw	Shaft	13:00:00.08	37.111034	-116.015246	4,405	-599	Weapons Related	Less than 20 kt	966
967	Chamita ▾	08/17/1985	LANL	NNSS	U3lz	Shaft	16:25:00.09	37.002253	-116.043912	3,964	-1,088	Weapons Related	Less than 20 kt	967

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Operation Grenadier – Continued						Operation Grenadier – Continued								
968	Ponil ▾	09/27/1985	LANL	NNSS	U7bv	Shaft	14:15:00.08	37.089762	-116.002635	4,300	-1,197	Weapons Related	Less than 20 kt	968
Operation Charioteer						Operation Charioteer								
969	Mill Yard Controlled release of radioactivity detected onsite only	10/09/1985	LANL/DoD	NNSS	U12n.20	Tunnel	21:40:00.13	37.209113	-116.205988	7,304	-1,217	Weapons Effects	Less than 20 kt	969
970	Diamond Beech Controlled release of radioactivity detected onsite only	10/09/1985	LLNL/DoD	NNSS	U12n.19	Tunnel	23:20:00.09	37.209621	-116.210960	7,403	-1,326	Weapons Effects	Less than 20 kt	970
971	Roquefort ▾ Gas sampling release of radioactivity detected onsite only	10/16/1985	LLNL	NNSS	U4as	Shaft	21:35:00.09	37.109900	-116.122255	4,488	-1,363	Weapons Related	20 to 150 kt	971
972	Abo Drillback release of radioactivity detected onsite only	10/30/1985	LANL	NNSS	U3mc	Shaft	16:00:00.09	37.050560	-116.037006	4,032	-644	Weapons Related	Less than 20 kt	972
973	Kinibito ▾	12/05/1985	LANL/UK	NNSS	U3me	Shaft	15:00:00.07	37.053219	-116.046237	4,052	-1,901	Joint US-UK	20 to 150 kt	973
974	Goldstone	12/28/1985	LLNL	NNSS	U20ao	Shaft	19:01:00.09	37.237751	-116.473638	6,279	-1,800	Weapons Related	20 to 150 kt	974
975	Glencoe ▾ Drillback release of radioactivity detected offsite	03/22/1986	LANL	NNSS	U4i	Shaft	16:15:00.08	37.082957	-116.066908	4,136	-2,000	Weapons Related	29 kt	975
976	Mighty Oak Controlled release of radioactivity detected offsite	04/10/1986	LLNL/DoD	NNSS	U12t.08	Tunnel	14:08:30.10	37.218276	-116.183982	6,915	-1,294	Weapons Effects	Less than 20 kt	976
977	Mogollon ▾	04/20/1986	LANL	NNSS	U3li	Shaft	15:12:30.07	37.011608	-116.046918	3,985	-851	Weapons Related	Less than 20 kt	977
978	Jefferson Drillback release of radioactivity detected onsite only	04/22/1986	LLNL	NNSS	U20ai	Shaft	14:30:00.09	37.264063	-116.441091	6,503	-1,992	Weapons Related	20 to 150 kt	978
979	Panamint Drillback and gas sampling release of radioactivity detected onsite only	05/21/1986	LLNL	NNSS	U2gb	Shaft	13:59:00.08	37.124987	-116.061260	4,219	-1,575	Weapons Related	Less than 20 kt	979
980	Tajo ▾	06/05/1986	LANL	NNSS	U7bl	Shaft	15:04:00.06	37.098243	-116.016380	4,317	-1,700	Weapons Related	20 to 150 kt	980
981	Darwin	06/25/1986	LLNL/UK	NNSS	U20aq	Shaft	20:27:45.09	37.264530	-116.500200	6,155	-1,801	Joint US-UK	20 to 150 kt	981
982	Cybar Cementback release of radioactivity detected onsite only	07/17/1986	LANL	NNSS	U19ar	Shaft	21:00:00.06	37.278620	-116.356493	6,707	-2,057	Weapons Related	119 kt	982
983	Cornucopia ▾ Gas sampling release of radioactivity detected onsite only	07/24/1986	LLNL	NNSS	U2gas	Shaft	15:05:00.09	37.142700	-116.071988	4,312	-1,248	Weapons Related	Less than 20 kt	983
984	Galveston	09/04/1986	LANL	NNSS	U19af	Shaft	16:09:00.06	37.239678	-116.368643	6,710	-1,598	Weapons Related	Less than 20 kt	984
985	Aleman	09/11/1986	LANL	NNSS	U3kz	Shaft	14:57:00.11	37.069032	-116.050561	4,085	-1,649	Weapons Related	Less than 20 kt	985
986	Labquark Accidental release of radioactivity detected onsite only	09/30/1986	LLNL	NNSS	U19an	Shaft	22:30:00.10	37.300029	-116.308310	6,978	-2,020	Weapons Related	20 to 150 kt	986

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Musketeer						Operation Musketeer								
987	Belmont Drillback and gas sampling release of radioactivity detected onsite only	10/16/1986	LLNL	NNSS	U20as	Shaft	19:25:00.09	37.220157	-116.462524	6,227	-1,985	Weapons Related	20 to 150 kt	987
988	Gascon ▾ Gas sampling release of radioactivity detected onsite only	11/14/1986	LANL	NNSS	U4t	Shaft	16:00:00.07	37.100381	-116.048939	4,144	-1,946	Weapons Related	20 to 150 kt	988
989	Bodie Drillback and accidental release of radioactivity detected onsite only	12/13/1986	LLNL	NNSS	U20ap	Shaft	17:50:05.09	37.262907	-116.412571	6,621	-2,083	Weapons Related	20 to 150 kt	989
990	Hazebrook-Apricot (Orange) Hazebrook-Checkerberry (Red) Hazebrook-Emerald (Green) Simultaneous, same hole Hazebrook-Apricot (Orange), -Checkerberry (Red), -Emerald (Green): Gas sampling release of radioactivity detected onsite only	02/03/1987 02/03/1987 02/03/1987	LLNL LLNL LLNL	NNSS NNSS NNSS	U10bh U10bh U10bh	Shaft Shaft Shaft	15:20:00.08 15:20:00.08 15:20:00.08	37.181096 37.181096 37.181096	-116.049312 -116.049312 -116.049312	4,322 4,322 4,322	-860 -740 -610	Safety Experiment Weapons Related Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt	990
991	Tornero ▾	02/11/1987	LANL	NNSS	U3II	Shaft	16:45:00.07	37.010640	-116.045556	3,981	-979	Weapons Related	Less than 20 kt	991
992	Middle Note	03/18/1987	LLNL/DoD	NNSS	U12n.21	Tunnel	18:28:00.09	37.210189	-116.209439	7,383	-1,308	Weapons Effects	Less than 20 kt	992
993	Delamar	04/18/1987	LLNL	NNSS	U20at	Shaft	13:40:00.00	37.247830	-116.510033	6,240	-1,785	Weapons Related	20 to 150 kt	993
994	Presidio	04/22/1987	LANL	NNSS	U6d	Shaft	15:00:00.09	36.983093	-116.005447	3,932	-1,049	Weapons Related	Less than 20 kt	994
995	Hardin Gas sampling release of radioactivity detected onsite only	04/30/1987	LLNL	NNSS	U20av	Shaft	13:30:00.09	37.232994	-116.424011	6,464	-2,051	Weapons Related	20 to 150 kt	995
996	Brie ▾	06/18/1987	LLNL	NNSS	U10cc	Shaft	15:20:00.08	37.193506	-116.035883	4,413	-666	Weapons Related	Less than 20 kt	996
997	Mission Ghost Controlled release of radioactivity detected onsite only	06/20/1987	LANL/DoD	NNSS	U12t.09	Tunnel	16:00:00.18	37.219905	-116.178662	6,689	-1,054	Weapons Effects	Less than 20 kt	997
998	Panchuela ▾ Drillback release of radioactivity detected onsite only	06/30/1987	LANL	NNSS	U3mg	Shaft	16:05:00.10	36.998545	-116.043942	3,957	-1,047	Weapons Related	Less than 20 kt	998
999	Midland	07/16/1987	LANL/UK	NNSS	U7by	Shaft	19:00:00.08	37.103504	-116.024223	4,300	-1,597	Joint US-UK	20 to 150 kt	999
1000	Tahoka ▾	08/13/1987	LANL	NNSS	U3mf	Shaft	14:00:00.09	37.060912	-116.046175	4,067	-2,095	Weapons Related	20 to 150 kt	1000
1001	Lockney Drillback release of radioactivity detected onsite only	09/24/1987	LANL	NNSS	U19aq	Shaft	15:00:00.06	37.227939	-116.375590	6,799	-2,015	Weapons Related	20 to 150 kt	1001
Operation Touchstone						Operation Touchstone								
1002	Borate ▾ Drillback release of radioactivity detected onsite only	10/23/1987	LLNL	NNSS	U2ge	Shaft	16:00:00.09	37.141850	-116.079570	4,335	-1,780	Weapons Related	20 to 150 kt	1002
1003	Waco	12/01/1987	LANL	NNSS	U3lu	Shaft	16:30:00.09	36.996362	-116.005332	3,946	-600	Weapons Related	Less than 20 kt	1003
1004	Mission Cyber	12/02/1987	LLNL/DoD	NNSS	U12p.02	Tunnel	16:30:00.08	37.234603	-116.164246	6,407	-888	Weapons Effects	Less than 20 kt	1004
1005	Kernville	02/15/1988	LLNL	NNSS	U20ar	Shaft	18:10:00.09	37.314382	-116.472374	6,319	-1,777	Weapons Related	20 to 150 kt	1005
1006	Abilene ▾	04/07/1988	LANL	NNSS	U3mn	Shaft	17:15:00.08	37.013110	-116.045193	3,985	-804	Weapons Related	Less than 20 kt	1006

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Touchstone – Continued						Operation Touchstone – Continued								
1007	Schellbourne ▀ Drillback and gas sampling release of radioactivity detected onsite only	05/13/1988	LLNL	NNSS	U2gf	Shaft	15:35:00.11	37.124387	-116.072996	4,249	-1,519	Weapons Related	Less than 150 kt	1007
1008	Laredo ▀	05/21/1988	LANL	NNSS	U3mh	Shaft	22:30:00.14	37.032437	-115.988170	4,092	-1,153	Weapons Related	Less than 150 kt	1008
1009	Comstock Gas sampling release of radioactivity detected onsite only	06/02/1988	LLNL	NNSS	U20ay	Shaft	13:00:00.09	37.260082	-116.441965	6,521	-2,035	Weapons Related	Less than 150 kt	1009
1010	Nightingale Same hole with Rhyolite	06/22/1988	LLNL	NNSS	U2ey	Shaft	14:00:00.08	37.166110	-116.073116	4,384	-780	Safety Experiment	Less than 150 kt	1010
1011	Rhyolite Same hole with Nightingale	06/22/1988	LLNL	NNSS	U2ey	Shaft	14:00:00.08	37.166110	-116.073116	4,384	-680	Weapons Related	Less than 150 kt	1011
1012	Alamo	07/07/1988	LANL	NNSS	U19au	Shaft	15:05:30.07	37.252392	-116.377565	6,534	-2,041	Weapons Related	Less than 150 kt	1012
1013	Kearsarge The only Joint Verification Experiment conducted on the NNSS	08/17/1988	LLNL	NNSS	U19ax	Shaft	17:00:00.09	37.297104	-116.307420	6,986	-2,020	Weapons Related	100 to 150 kt	1013
1014	Harlingen-A ▀ Harlingen-B Simultaneous, separate holes	08/23/1988 08/23/1988	LANL LANL	NNSS NNSS	U6g U6h	Shaft Shaft	18:30:00.08 18:30:00.08	36.991132 36.988660	-116.018872 -116.018890	3,945 3,943	-950 -950	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	1014
1015	Bullfrog ▀ Drillback and gas sampling release of radioactivity detected onsite only	08/30/1988	LLNL	NNSS	U4au	Shaft	18:00:00.09	37.085884	-116.069388	4,145	-1,605	Weapons Related	Less than 150 kt	1015
Operation Cornerstone						Operation Cornerstone								
1016	Dalhart ▀	10/13/1988	LANL	NNSS	U4u	Shaft	14:00:00.08	37.088950	-116.050132	4,120	-2,099	Weapons Related	Less than 150 kt	1016
1017	Monahans-A ▀ Monahans-B Simultaneous, separate holes	11/09/1988 11/09/1988	LANL LANL	NNSS NNSS	U3lk U6i	Shaft Shaft	20:15:00.08 20:15:00.08	36.991144 36.988677	-116.021947 -116.021971	3,945 3,942	-951 -951	Weapons Related Weapons Related	Less than 20 kt Less than 20 kt	1017
1018	Kawich A-Blue Kawich A-White Simultaneous, same hole	12/09/1988 12/09/1988	LLNL LLNL	NNSS NNSS	U8n U8n	Shaft Shaft	15:15:00.08 15:15:00.08	37.175270 37.175270	-116.092609 -116.092609	4,542 4,542	-1,260 -1,210	Safety Experiment Safety Experiment	Less than 20 kt Less than 20 kt	1018
1019	Misty Echo Gas sampling release of radioactivity detected onsite only	12/10/1988	LANL/DoD	NNSS	U12n.23	Tunnel	20:30:00.06	37.198995	-116.210314	7,413	-1,312	Weapons Effects	Less than 150 kt	1019
1020	Texarkana ▀	02/10/1989	LANL	NNSS	U7ca	Shaft	20:06:00.06	37.076736	-116.001481	4,244	-1,654	Weapons Related	20 to 150 kt	1020
1021	Kawich-Black ▀ Kawich-Red ▀ Simultaneous, same hole Kawich-Black, -Red: Drillback release of radioactivity detected onsite only	02/24/1989 02/24/1989	LLNL LLNL	NNSS NNSS	U2cu U2cu	Shaft Shaft	16:15:00.08 16:15:00.08	37.128444 37.128444	-116.122829 -116.122829	4,526 4,526	-1,415 -1,215	Safety Experiment Weapons Related	Less than 20 kt Less than 20 kt	1021
1022	Ingot	03/09/1989	LLNL	NNSS	U2gg	Shaft	14:05:00.09	37.142791	-116.067808	4,289	-1,640	Weapons Related	20 to 150 kt	1022

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Cornerstone – Continued							Operation Cornerstone – Continued							
1023	Palisade-1 Palisade-2 Palisade-3 Simultaneous, same hole Palisade-1, -2, -3: Gas sampling release of radioactivity detected onsite only	05/15/1989 05/15/1989 05/15/1989	LLNL LLNL LLNL	NNSS NNSS NNSS	U4at U4at U4at	Shaft Shaft Shaft	13:10:00.09 13:10:00.09 13:10:00.09	37.107563 37.107563 37.107563	-116.121757 -116.121757 -116.121757	4,479 4,479 4,479	-1,100 -1,280 -1,324	Weapons Related Safety Experiment Safety Experiment	Less than 20 kt Less than 20 kt Less than 20 kt	1023
1024	Tulia	05/26/1989	LANL	NNSS	U4s	Shaft	18:07:00.02	37.085818	-116.056000	4,125	-1,305	Weapons Related	Less than 20 kt	1024
1025	Contact	06/22/1989	LLNL	NNSS	U20aw	Shaft	21:15:00.08	37.282822	-116.413194	6,585	-1,785	Weapons Related	20 to 150 kt	1025
1026	Amarillo	06/27/1989	LANL	NNSS	U19ay	Shaft	15:30:00.02	37.275406	-116.354444	6,712	-2,100	Weapons Related	20 to 150 kt	1026
1027	Disko Elm Controlled and gas sampling release of radioactivity detected onsite only	09/14/1989	LLNL/DoD	NNSS	U12p.03	Tunnel	15:00:00.10	37.235839	-116.163771	6,377	-857	Weapons Effects	Less than 20 kt	1027
Operation Aqueduct							Operation Aqueduct							
1028	Hornitos	10/31/1989	LLNL	NNSS	U20bc	Shaft	15:30:00.09	37.263049	-116.491615	6,146	-1,850	Weapons Related	20 to 150 kt	1028
1029	Muleshoe	11/15/1989	LANL	NNSS	U7bk	Shaft	20:20:00.12	37.106469	-116.014246	4,391	-802	Weapons Related	Less than 20 kt	1029
1030	Barnwell Drillback and accidental release of radioactivity detected onsite only	12/08/1989	LLNL/UK	NNSS	U20az	Shaft	15:00:00.09	37.231040	-116.410277	6,573	-1,971	Joint US-UK	20 to 150 kt	1030
1031	Whiteface-A Whiteface-B Simultaneous, same hole	12/20/1989 12/20/1989	LANL LANL	NNSS NNSS	U3lp U3lp	Shaft Shaft	22:00:00.06 22:00:00.06	37.025813 37.025813	-116.032072 -116.032072	3,985 3,985	-646 -599	Safety Experiment Safety Experiment	Less than 20 kt Less than 20 kt	1031
1032	Metropolis Drillback release of radioactivity detected onsite only	03/10/1990	LLNL	NNSS	U2gh	Shaft	16:00:00.08	37.112457	-116.056047	4,177	-1,540	Weapons Related	20 to 150 kt	1032
1033	Bowie	04/06/1990	LANL	NNSS	U3mk	Shaft	17:00:00.04	37.067623	-115.992991	4,257	-700	Weapons Related	Less than 20 kt	1033
1034	Bullion	06/13/1990	LLNL	NNSS	U20bd	Shaft	16:00:00.09	37.261551	-116.421002	6,486	-2,211	Weapons Related	20 to 150 kt	1034
1035	Austin	06/21/1990	LANL	NNSS	U6e	Shaft	18:15:00.00	36.992788	-116.005363	3,942	-1,150	Weapons Related	Less than 20 kt	1035
1036	Randsburg Mineral Quarry Simultaneous, separate drifts Mineral Quarry: Controlled and gas sampling release of radioactivity detected onsite only	07/25/1990 07/25/1990	LLNL/DoD LLNL/DoD	NNSS NNSS	U12n.22a U12n.22	Tunnel Tunnel	15:00:00.00 15:00:00.06	37.206910 37.206822	-116.215115 -116.215129	7,359 7,359	-1,278 -1,278	Weapons Related Weapons Effects	Less than 20 kt Less than 20 kt	1036
1037	Sundown-A Sundown-B Simultaneous, same hole	09/20/1990 09/20/1990	LANL LANL	NNSS NNSS	U1d U1d	Shaft Shaft	16:15:00.00 16:15:00.00	37.038170 37.038170	-116.057667 -116.057667	4,047 4,047	-887 -840	Safety Experiment Safety Experiment	Less than 20 kt Less than 20 kt	1037
1038	Ledoux	09/27/1990	LANL	NNSS	U1a.01	Shaft	18:02:46.00	37.007098	-116.059089	3,995	-955	Weapons Related	Less than 20 kt	1038
Operation Sculpin							Operation Sculpin							
1039	Tenabo Drillback release of radioactivity detected onsite only	10/12/1990	LLNL	NNSS	U20bb	Shaft	17:30:00.08	37.247807	-116.495104	6,226	-1,969	Weapons Related	20 to 150 kt	1039
1040	Houston Drillback release of radioactivity detected onsite only	11/14/1990	LANL/UK	NNSS	U19az	Shaft	19:17:00.07	37.227365	-116.372127	6,753	-1,950	Joint US-UK	20 to 150 kt	1040

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	Test	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
Operation Sculpin – Continued							Operation Sculpin – Continued							
1041	Coso-Bronze ▀ Coso-Gray ▀ Coso-Silver ▀ Simultaneous, same hole	03/08/1991 03/08/1991 03/08/1991	LLNL LLNL LLNL	NNSS NNSS NNSS	U4an U4an U4an	Shaft Shaft Shaft	21:02:45.08 21:02:45.08 21:02:45.08	37.104317 37.104317 37.104317	-116.074901 -116.074901 -116.074901	4,204 4,204 4,204	-1,093 -1,450 -1,559	Weapons Related Weapons Related Safety Experiment	Less than 20 kt Less than 20 kt Less than 20 kt	1041
1042	Bexar Cementback release of radioactivity detected onsite only	04/04/1991	LANL	NNSS	U19ba	Shaft	19:00:00.00	37.296027	-116.313786	7,037	-2,065	Weapons Related	20 to 150 kt	1042
1043	Montello	04/16/1991	LLNL	NNSS	U20bf	Shaft	15:30:00.07	37.245385	-116.442525	6,522	-2,105	Weapons Related	20 to 150 kt	1043
1044	Floydada	08/15/1991	LANL	NNSS	U7cb	Shaft	16:00:00.00	37.087287	-116.002657	4,288	-1,650	Weapons Related	Less than 20 kt	1044
1045	Hoya Threshold Test Ban Treaty test; yield measurements taken by the Soviet Union as part of the treaty	09/14/1991	LLNL	NNSS	U20be	Shaft	19:00:00.08	37.225586	-116.429019	6,493	-2,159	Weapons Related	20 to 150 kt	1045
1046	Distant Zenith Controlled and gas sampling release of radioactivity detected onsite only	09/19/1991	LANL/DoD	NNSS	U12p.04	Tunnel	16:30:00.07	37.235678	-116.167307	6,392	-865	Weapons Effects	Less than 20 kt	1046
Operation Julin							Operation Julin							
1047	Lubbock ▀ Drillback release of radioactivity detected onsite only	10/18/1991	LANL	NNSS	U3mt	Shaft	19:12:00.00	37.063384	-116.046158	4,067	-1,500	Weapons Related	20 to 150 kt	1047
1048	Bristol	11/26/1991	LLNL/UK	NNSS	U4av	Shaft	18:35:00.07	37.096440	-116.070481	4,177	-1,500	Joint US-UK	Less than 20 kt	1048
1049	Junction Threshold Test Ban Treaty test; yield measurements taken by the Soviet Union as part of the treaty	03/26/1992	LANL	NNSS	U19bg	Shaft	16:30:00.00	37.272398	-116.360660	6,694	-2,041	Weapons Related	20 to 150 kt	1049
1050	Diamond Fortune Controlled release of radioactivity detected onsite only	04/30/1992	LANL/DoD	NNSS	U12p.05	Tunnel	16:30:00.00	37.234140	-116.158224	6,307	-774	Weapons Effects	Less than 20 kt	1050
1051	Victoria	06/19/1992	LANL	NNSS	U3kv	Shaft	16:45:00.00	37.005372	-116.011008	3,956	-801	Weapons Related	Less than 20 kt	1051
1052	Galena-Green Galena-Orange Galena-Yellow Simultaneous, same hole	06/23/1992 06/23/1992 06/23/1992	LLNL LLNL LLNL	NNSS NNSS NNSS	U9cv U9cv U9cv	Shaft Shaft Shaft	15:00:00.07 15:00:00.07 15:00:00.07	37.123873 37.123873 37.123873	-116.032112 -116.032112 -116.032112	4,251 4,251 4,251	-1,312 -1,247 -951	Safety Experiment Safety Experiment Weapons Related	Less than 20 kt Less than 20 kt Less than 20 kt	1052
1053	Hunters Trophy Test to ensure reliability of U.S. deterrent forces Gas sampling release of radioactivity detected onsite only	09/18/1992	LLNL/DoD	NNSS	U12n.24	Tunnel	17:00:00.08	37.206877	-116.210853	7,346	-1,264	Weapons Effects	Less than 20 kt	1053
1054	Divider Test to ensure the safety of U.S. deterrent forces Drillback release of radioactivity detected onsite only	09/23/1992	LANL	NNSS	U3ml	Shaft	15:04:00.00	37.020632	-115.988778	4,051	-1,115	Weapons Related	Less than 20 kt	1054

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U.S. Nuclear Detonations – By Name

	U.S. Nuclear Detonations - By Name											July 1945 through September 1992			
Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
240	Aardvark	05/12/1962	LANL	NNSS	U3amS	Shaft	19:00:00.10	37.065145	-116.031247	4,071	-1,424	Weapons Related	40 kt	240	
659	Abeytas	11/05/1970	LANL	NNSS	U3gx	Shaft	15:00:00.04	37.029416	-116.012685	3,987	-1,291	Weapons Related	20 to 200 kt	659	
1006	Abilene	04/07/1988	LANL	NNSS	U3mn	Shaft	17:15:00.08	37.013110	-116.045193	3,985	-804	Weapons Related	Less than 20 kt	1006	
2	Able (Operation Crossroads)	06/30/1946	LANL/DoD	Bikini Atoll	-----	Airdrop	22:00:00.00	11.590000	165.516700	0	523	Weapons Effects	21 kt	2	
7	Able (Operation Ranger)	01/27/1951	LANL	NNSS	Area 5	Airdrop	13:45:00.00	36.805100	-115.950200	3,140	1,060	Weapons Related	1 kt	7	
16	Able (Operation Buster)	10/22/1951	LANL	NNSS	Area 7	Tower	14:00:00.00	37.083250	-116.024700	4,169	100	Weapons Related	Less than 0.1 kt	16	
23	Able (Operation Tumbler-Snapper)	04/01/1952	LANL/DoD	NNSS	Area 5	Airdrop	17:00:00.00	36.797966	-115.936418	3,077	793	Weapons Effects	1 kt	23	
972	Abo	10/30/1985	LANL	NNSS	U3mc	Shaft	16:00:00.09	37.050560	-116.037006	4,032	-644	Weapons Related	Less than 20 kt	972	
502	Absinthe	05/26/1967	LANL	NNSS	U3ep	Shaft	12:30:00.03	37.044975	-116.019919	4,022	-389	Safety Experiment	Less than 20 kt	502	
368	Ace	06/11/1964	LLNL	NNSS	U2n	Shaft	16:45:00.15	37.148555	-116.076866	4,353	-874	Plowshare	3 kt	368	
306	Acushi	02/08/1963	LANL	NNSS	U3bg	Shaft	18:30:00.14	37.046085	-116.021966	4,022	-856	Weapons Related	Low	306	
227	Adobe	04/25/1962	LANL	Christmas Island area	-----	Airdrop	15:46:00.00	1.565000	-157.365000	0	2,900	Weapons Related	190 kt	227	
548	Adze	05/28/1968	LANL	NNSS	U3fw	Shaft	14:45:00.04	37.008586	-115.996256	3,987	-788	Weapons Related	Less than 20 kt	548	
490	Agile	02/23/1967	LLNL	NNSS	U2v	Shaft	18:50:00.13	37.126802	-116.067248	4,256	-2,406	Weapons Related	20 to 200 kt	490	
206	Agouti	01/18/1962	LANL	NNSS	U3ao	Shaft	18:00:00.13	37.047200	-116.035232	4,027	-856	Weapons Related	6.4 kt	206	
940	Agrini	03/31/1984	LLNL	NNSS	U2ev	Shaft	14:30:00.08	37.146392	-116.084933	4,366	-1,050	Weapons Related	Less than 20 kt	940	
335	Ahtanum	09/13/1963	LLNL	NNSS	U2l	Shaft	13:53:00.15	37.163323	-116.081512	4,419	-742	Weapons Related	Low	335	
477	Ajax	11/11/1966	LLNL	NNSS	U9al	Shaft	12:00:00.14	37.134409	-116.050724	4,202	-782	Weapons Related	Less than 20 kt	477	
629	Ajo	01/30/1970	LANL	NNSS	U3gd	Shaft	17:00:00.04	37.030776	-116.035631	3,998	-998	Weapons Related	Less than 20 kt	629	
897	Akavi	12/03/1981	LLNL	NNSS	U2es	Shaft	15:00:00.10	37.148387	-116.071710	4,332	-1,621	Weapons Related	20 to 150 kt	897	
711	Akbar	11/09/1972	LLNL	NNSS	U10ax	Shaft	15:15:00.16	37.161994	-116.034024	4,337	-875	Weapons Related	Less than 20 kt	711	
1012	Alamo	07/07/1988	LANL	NNSS	U19au	Shaft	15:05:30.07	37.252392	-116.377565	6,534	-2,041	Weapons Related	Less than 150 kt	1012	
985	Aleman	09/11/1986	LANL	NNSS	U3kz	Shaft	14:57:00.11	37.069032	-116.050561	4,085	-1,649	Weapons Related	Less than 20 kt	985	
679	Algodones	08/18/1971	LANL	NNSS	U3jn	Shaft	14:00:00.03	37.057143	-116.037199	4,046	-1,731	Weapons Related	20 to 200 kt	679	
886	Aligote	05/29/1981	LANL	NNSS	U7bg	Shaft	16:00:00.09	37.101805	-116.004931	4,388	-1,050	Weapons Related	Less than 20 kt	886	
598	Aliment	05/15/1969	LANL	NNSS	U3gi	Shaft	18:00:00.04	37.011826	-115.985945	4,049	-789	Weapons Related	Less than 20 kt	598	
279	Allegheny	09/29/1962	LLNL	NNSS	U9x	Shaft	17:00:00.15	37.116630	-116.033647	4,258	-692	Weapons Related	Low	279	
249	Alma	06/08/1962	LANL	Christmas Island area	-----	Airdrop	17:02:00.00	1.380000	-157.195000	0	8,865	Weapons Related	782 kt	249	
730	Almendro	06/06/1973	LANL	NNSS	U19v	Shaft	13:00:00.08	37.245010	-116.346905	6,876	-3,499	Weapons Related	200 to 1,000 kt	730	
400	Alpaca	02/12/1965	LLNL	NNSS	U2a	Shaft	15:10:29.49	37.164484	-116.077415	4,402	-738	Weapons Related	330 tons	400	
718	Alumroot	02/14/1973	LLNL	NNSS	U9cj	Shaft	15:30:00.16	37.147045	-116.050962	4,237	-600	Weapons Related	Less than 20 kt	718	
377	Alva	08/19/1964	LLNL	NNSS	U2j	Shaft	16:00:00.14	37.158968	-116.083968	4,420	-545	Weapons Related	4.4 kt	377	
776	Alviso	06/11/1975	LLNL	NNSS	U2du	Shaft	13:00:00.17	37.111732	-116.074569	4,225	-600	Safety Experiment	Less than 20 kt	776	
1026	Amarillo	06/27/1989	LANL	NNSS	U19ay	Shaft	15:30:00.02	37.275406	-116.354444	6,712	-2,100	Weapons Related	20 to 150 kt	1026	
297	Anacostia	11/27/1962	LLNL	NNSS	U9i	Shaft	18:00:00.14	37.122762	-116.029888	4,268	-747	Plowshare	5.2 kt	297	
344	Anchovy	11/14/1963	LANL	NNSS	U3bq	Shaft	16:00:00.12	37.039478	-116.019280	4,007	-854	Weapons Related	Low	344	

	U.S. Nuclear Detonations - By Name											July 1945 through September 1992			
Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
280	Androscoggin	10/02/1962	LLNL	Johnston Island area	- - -	Airdrop	16:18:00.00	13.830000	-172.083000	0	10,260	Weapons Related	75 kt	280	
722	Angus ▀	04/25/1973	LANL	NNSS	U3jg	Shaft	22:25:00.03	37.004786	-116.029336	3,962	-1,485	Weapons Related	Less than 20 kt	722	
33	Annie	03/17/1953	LANL	NNSS	Area 3	Tower	13:20:00.00	37.095488	-116.103616	4,026	300	Weapons Related	16 kt	33	
195	Antler	09/15/1961	LLNL	NNSS	U12e.03a	Tunnel	17:00:00.12	37.187905	-116.208633	7,483	-1,319	Weapons Related	2.6 kt	195	
82	Apache	07/08/1956	LLNL	Enewetak Atoll	- - -	Barge	18:06:00.00	11.670900	162.199600	0	10	Weapons Related	1.85 Mt	82	
675	Apodaca	07/21/1971	LANL	NNSS	U3gs	Shaft	13:33:00.05	37.014335	-115.992794	4,009	-792	Weapons Related	Less than 20 kt	675	
57	Apple-1	03/29/1955	LANL	NNSS	Area 4	Tower	12:55:00.00	37.095488	-116.103616	4,309	500	Weapons Related	14 kt	57	
62	Apple-2	05/05/1955	LANL	NNSS	Area 1	Tower	12:10:00.00	37.053040	-116.103504	4,236	500	Weapons Related	29 kt	62	
328	Apshapa	06/06/1963	LLNL	NNSS	U9ai	Shaft	16:58:00.15	37.124606	-116.040853	4,204	-292	Weapons Related	Low	328	
637	Arabis-Blue	03/06/1970	LLNL	NNSS	U9ITS Z-26	Shaft	15:00:00.21	37.139529	-116.032156	4,275	-330	Safety Experiment	Less than 20 kt	637	
637	Arabis-Green	03/06/1970	LLNL	NNSS	U9ITS X-28	Shaft	15:00:00.21	37.141741	-116.034879	4,256	-849	Weapons Related	Less than 20 kt	637	
637	Arabis-Red ▀	03/06/1970	LLNL	NNSS	U9ITS V-26	Shaft	15:00:00.21	37.139559	-116.037645	4,238	-820	Weapons Related	Less than 20 kt	637	
155	Argus I	08/27/1958	LANL/DoD	South Atlantic	- - -	Rocket	02:28:00.00	-38.800000	-10.900000	0	-300 miles	Weapons Effects	1.7 kt	155	
156	Argus II	08/30/1958	LANL/DoD	South Atlantic	- - -	Rocket	02:28:00.00	-49.400000	-8.700000	0	-300 miles	Weapons Effects	1.7 kt	156	
157	Argus III	09/06/1958	LANL/DoD	South Atlantic	- - -	Rocket	22:13:00.00	-49.500000	-10.450000	0	-300 miles	Weapons Effects	1.7 kt	157	
236	Arikaree ▀	05/10/1962	LLNL	NNSS	U9r	Shaft	15:00:00.16	37.127539	-116.049168	4,204	-546	Weapons Related	Low	236	
230	Arkansas	05/02/1962	LLNL	Christmas Island area	- - -	Airdrop	18:01:00.00	1.500000	-157.277000	0	5,030	Weapons Related	1.09 Mt	230	
922	Armada ▀	04/22/1983	LLNL/UK	NNSS	U9cs	Shaft	13:53:00.08	37.111465	-116.023298	4,339	-869	Joint US-UK	Less than 20 kt	922	
209	Armadillo ▀	02/09/1962	LANL	NNSS	U3ar	Shaft	16:30:00.13	37.043530	-116.039826	4,019	-786	Weapons Related	7.1 kt	209	
655	Arnica-Violet ▀	06/26/1970	LLNL	NNSS	U2dd #3	Shaft	13:00:00.04	37.117085	-116.085023	4,261	-865	Weapons Related	Less than 20 kt	655	
655	Arnica-Yellow ▀	06/26/1970	LLNL	NNSS	U2dd #2	Shaft	13:00:00.04	37.113881	-116.087003	4,255	-1,015	Weapons Related	Less than 20 kt	655	
712	Arsenate	11/09/1972	LLNL	NNSS	U9ci	Shaft	18:15:00.16	37.121398	-116.033196	4,249	-821	Weapons Related	Less than 20 kt	712	
663	Artesia ▀	12/16/1970	LANL	NNSS	U7x	Shaft	16:00:00.09	37.100121	-116.008824	4,360	-1,591	Weapons Related	20 to 200 kt	663	
835	Asco	04/25/1978	LLNL	NNSS	U10bc	Shaft	14:35:00.16	37.154518	-116.035630	4,305	-600	Safety Experiment	Less than 20 kt	835	
805	Asiago ▀	12/21/1976	LLNL	NNSS	U2ar	Shaft	15:09:00.17	37.123863	-116.068328	4,239	-1,083	Weapons Related	Less than 20 kt	805	
135	Aspen	06/14/1958	LLNL	Bikini Atoll	- - -	Barge	17:30:00.00	11.697275	165.280000	0	11	Weapons Related	319 kt	135	
707	Ataque ▀	07/25/1972	LANL	NNSS	U3ht	Shaft	13:30:00.06	37.012445	-116.015917	3,967	-966	Weapons Related	Less than 20 kt	707	
909	Atrisco ▀	08/05/1982	LANL	NNSS	U7bp	Shaft	14:00:00.09	37.084158	-116.007415	4,248	-2,099	Weapons Related	138 kt	909	
573	Auger	11/15/1968	LANL	NNSS	U3fx	Shaft	15:30:00.04	37.047616	-116.000707	4,097	-789	Weapons Related	Less than 20 kt	573	
384	Auk	10/02/1964	LANL	NNSS	U7b	Shaft	20:03:00.04	37.077878	-116.009355	4,203	-1,484	Weapons Related	Less than 20 kt	384	
1035	Austin	06/21/1990	LANL	NNSS	U6e	Shaft	18:15:00.00	36.992788	-116.005363	3,942	-1,150	Weapons Related	Less than 20 kt	1035	
664	Avens-Alkermes	12/16/1970	LLNL	NNSS	U9ITS U-24	Shaft	16:00:00.17	37.137371	-116.039032	4,227	-1,004	Weapons Related	Less than 20 kt	664	
664	Avens-Andorre ▀	12/16/1970	LLNL	NNSS	U9ITS T-28	Shaft	16:00:00.17	37.141771	-116.040368	4,236	-1,245	Weapons Related	Less than 20 kt	664	
664	Avens-Asmalte ▀	12/16/1970	LLNL	NNSS	U9ITS W-21	Shaft	16:00:00.17	37.134061	-116.036318	4,234	-1,009	Weapons Related	Less than 20 kt	664	
664	Avens-Cream ▀	12/16/1970	LLNL	NNSS	U9ITS X-29	Shaft	16:00:00.17	37.142837	-116.034866	4,260	-961	Plowshare	Less than 20 kt	664	
228	Aztec	04/27/1962	LANL	Christmas Island area	- - -	Airdrop	16:02:00.00	1.565000	-157.365000	0	2,610	Weapons Related	410 kt	228	
864	Azul	12/14/1979	LLNL	NNSS	U2em	Shaft	18:00:00.09	37.137325	-116.063944	4,273	-672	Weapons Related	Less than 20 kt	864	
849	Baccarat ▀	01/24/1979	LANL	NNSS	U7ax	Shaft	18:00:00.10	37.105363	-116.012547	4,389	-1,071	Weapons Related	Less than 20 kt	849	
834	Backbeach	04/11/1978	LANL	NNSS	U19x	Shaft	17:45:00.07	37.233439	-116.369355	6,781	-2,204	Weapons Related	20 to 150 kt	834	
863	Backgammon ▀	11/29/1979	LANL	NNSS	U3jh	Shaft	15:00:00.10	36.993912	-116.024975	3,948	-750	Weapons Related	Less than 20 kt	863	

	U.S. Nuclear Detonations - By Name											July 1945 through September 1992			
Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
366	Backswing ▾	05/14/1964	LLNL	NNSS	U9aw	Shaft	14:40:00.15	37.117305	-116.039815	4,213	-536	Weapons Related	Less than 20 kt	366	
38	Badger	04/18/1953	LANL	NNSS	Area 2	Tower	12:35:00.00	37.138372	-116.118258	4,491	300	Weapons Related	23 kt	38	
17	Baker (Operation Buster)	10/28/1951	LANL	NNSS	Area 7	Airdrop	15:20:00.00	37.084950	-116.021125	4,193	1,118	Weapons Related	3.5 kt	17	
3	Baker (Operation Crossroads)	07/24/1946	LANL/DoD	Bikini Atoll	-----	Underwater	21:35:00.00	11.589200	165.518200	0	-90	Weapons Effects	21 kt	3	
8	Baker (Operation Ranger)	01/28/1951	LANL	NNSS	Area 5	Airdrop	13:52:00.00	36.805100	-115.950200	3,140	1,080	Weapons Related	8 kt	8	
24	Baker (Operation Tumbler-Snapper)	04/15/1952	LANL/DoD	NNSS	Area 7	Airdrop	17:30:00.00	37.084120	-116.020306	4,193	1,109	Weapons Effects	1 kt	24	
10	Baker-2	02/02/1951	LANL	NNSS	Area 5	Airdrop	13:49:00.00	36.805100	-115.950200	3,140	1,100	Weapons Related	8 kt	10	
678	Baltic	08/06/1971	LLNL	NNSS	U9ITS S-25	Shaft	14:31:00.16	37.138482	-116.041768	4,222	-1,351	Weapons Related	Less than 20 kt	678	
287	Bandicoot ▾	10/19/1962	LANL	NNSS	U3bj	Shaft	18:00:00.08	37.039493	-116.022015	4,008	-792	Weapons Related	12.5 kt	287	
666	Baneberry ▾	12/18/1970	LLNL	NNSS	U8d	Shaft	15:30:00.20	37.173082	-116.099735	4,574	-912	Weapons Related	10 kt	666	
800	Banon ▾	08/26/1976	LLNL/UK	NNSS	U2dz	Shaft	14:30:00.17	37.124960	-116.082867	4,273	-1,761	Joint US-UK	20 to 150 kt	800	
386	Barbel	10/16/1964	LANL	NNSS	U3bx	Shaft	15:59:30.04	37.039550	-116.016800	4,007	-849	Weapons Related	Less than 20 kt	386	
1030	Barnwell	12/08/1989	LLNL/UK	NNSS	U20az	Shaft	15:00:00.09	37.231040	-116.410277	6,573	-1,971	Joint US-UK	20 to 150 kt	1030	
347	Barracuda	12/04/1963	LANL	NNSS	U3cr	Shaft	16:38:30.13	37.043839	-116.013076	4,031	-864	Weapons Related	Low	347	
676	Barranca	08/04/1971	LANL	NNSS	U3he	Shaft	13:30:00.04	37.026025	-116.020422	3,984	-888	Weapons Related	Less than 20 kt	676	
592	Barsac ▾	03/20/1969	LANL	NNSS	U3gc	Shaft	18:12:00.04	37.021962	-116.031076	3,982	-998	Weapons Related	Less than 20 kt	592	
882	Baseball ▾	01/15/1981	LANL	NNSS	U7ba	Shaft	20:25:00.09	37.087042	-116.045619	4,129	-1,850	Weapons Related	20 to 150 kt	882	
578	Bay Leaf	12/12/1968	LANL	NNSS	U3gq	Shaft	15:00:00.04	37.046988	-116.031070	4,023	-427	Safety Experiment	Less than 20 kt	578	
55	Bee	03/22/1955	LANL	NNSS	Area 7	Tower	13:05:00.00	37.094780	-116.024575	4,245	500	Weapons Related	8 kt	55	
643	Beebalm	05/01/1970	LANL	NNSS	U3fn	Shaft	14:13:00.04	37.059170	-116.029052	4,054	-1,280	Weapons Related	Less than 20 kt	643	
631	Belen ▾	02/04/1970	LANL	NNSS	U3br	Shaft	17:00:00.07	37.054972	-116.039711	4,045	-1,381	Weapons Related	20 to 200 kt	631	
943	Bellow ▾	05/16/1984	LLNL	NNSS	U4ac	Shaft	16:00:00.08	37.092463	-116.094092	4,241	-680	Weapons Related	Less than 20 kt	943	
987	Belmont	10/16/1986	LLNL	NNSS	U20as	Shaft	19:25:00.09	37.220157	-116.462524	6,227	-1,985	Weapons Related	20 to 150 kt	987	
581	Benham	12/19/1968	LLNL	NNSS	U20c	Shaft	16:30:00.04	37.231424	-116.474461	6,281	-4,600	Weapons Related	1.15 Mt	581	
737	Bernal ▾	11/28/1973	LANL	NNSS	U3jy	Shaft	15:30:00.08	37.010944	-116.025345	3,969	-936	Weapons Related	Less than 20 kt	737	
159	Bernalillo	09/17/1958	LANL	NNSS	U3n	Shaft	19:30:00.00	37.049512	-116.034010	4,028	-456	Safety Experiment	15 tons	159	
540	Bevel	04/04/1968	LANL	NNSS	U3fu	Shaft	15:02:00.04	37.052264	-116.021742	4,043	-790	Weapons Related	Less than 20 kt	540	
1042	Bexar	04/04/1991	LANL	NNSS	U19ba	Shaft	19:00:00.00	37.296027	-116.313786	7,037	-2,065	Weapons Related	20 to 150 kt	1042	
586	Biggin	01/30/1969	LLNL	NNSS	U9bz	Shaft	15:17:00.12	37.133257	-116.041124	4,212	-795	Weapons Related	Less than 20 kt	586	
259	Bighorn	06/27/1962	LLNL	Christmas Island area	-----	Airdrop	15:19:00.00	1.230000	-157.220000	0	11,810	Weapons Related	7.65 Mt	259	
336	Bilby ▾	09/13/1963	LANL	NNSS	U3cn	Shaft	17:00:00.13	37.060371	-116.022530	4,074	-2,344	Weapons Related	249 kt	336	
767	Bilge	02/19/1975	LANL	NNSS	U3kc	Shaft	20:10:00.22	37.002155	-116.025429	3,957	-1,044	Weapons Related	Less than 20 kt	767	
799	Billet	07/27/1976	LANL	NNSS	U7an	Shaft	20:30:00.08	37.075322	-116.044686	4,100	-2,088	Weapons Related	20 to 150 kt	799	
569	Bit-A	10/31/1968	LANL	NNSS	U3gt	Shaft	18:30:00.04	37.046984	-116.030333	4,022	-487	Safety Experiment	Less than 20 kt	569	
569	Bit-B	10/31/1968	LANL	NNSS	U3gt	Shaft	18:30:00.04	37.046984	-116.030333	4,022	-387	Safety Experiment	Less than 20 kt	569	
369	Bitterling ▾	06/12/1964	LANL	NNSS	U3cu	Shaft	14:01:00.10	37.038898	-116.013121	4,039	-632	Weapons Related	Less than 20 kt	369	

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
229	Black ▾	04/27/1962	LLNL	NNSS	U9p	Shaft	18:00:00.16	37.118411	-116.038640	4,217	-714	Weapons Related	Low	229
76	Blackfoot	06/12/1956	LANL	Enewetak Atoll	-----	Tower	18:26:00.00	11.547200	162.352050	10	200	Weapons Related	8 kt	76
193	Blanca	10/30/1958	LLNL	NNSS	U12e.05	Tunnel	15:00:00.15	37.185883	-116.202885	7,126	-987	Weapons Related	22 kt	193
595	Blenton ▾	04/30/1969	LANL	NNSS	U7p	Shaft	17:00:00.04	37.081476	-116.014810	4,205	-1,830	Weapons Related	20 to 200 kt	595
289	Bluegill 3 Prime	10/26/1962	LANL/DoD	Johnston Island area	-----	Rocket	09:59:00.00	16.468422	-169.630075	0	tens of miles	Weapons Effects	Submegaton	289
262	Bluestone	06/30/1962	LLNL	Christmas Island area	-----	Airdrop	15:21:00.00	1.380000	-157.195000	0	4,980	Weapons Related	1.27 Mt	262
275	Bobac ▾	08/24/1962	LANL	NNSS	U3bl	Shaft	17:00:00.13	37.046097	-116.024707	4,021	-676	Weapons Related	Low	275
822	Bobstay ▾	10/26/1977	LANL	NNSS	U3jb	Shaft	14:15:00.08	37.007554	-116.017572	3,961	-1,251	Weapons Related	Less than 20 kt	822
989	Bodie	12/13/1986	LLNL	NNSS	U20ap	Shaft	17:50:05.09	37.262907	-116.412571	6,621	-2,083	Weapons Related	20 to 150 kt	989
362	Bogey	04/17/1964	LLNL	NNSS	U9au	Shaft	15:29:52.28	37.119437	-116.034762	4,238	-391	Weapons Related	Less than 20 kt	362
87	Boltzmann	05/28/1957	LANL	NNSS	Area 7	Tower	11:55:00.00	37.094825	-116.024500	4,235	500	Weapons Related	12 kt	87
876	Bonarda ▾	09/25/1980	LANL	NNSS	U3gv	Shaft	14:45:00.09	37.056117	-116.048955	4,057	-1,250	Weapons Related	20 to 150 kt	876
355	Bonefish ▾	02/18/1964	LANL	NNSS	U3bt	Shaft	15:37:19.12	37.059338	-116.034192	4,050	-987	Weapons Related	Less than 20 kt	355
197	Boomer ▾	10/01/1961	LANL	NNSS	U3aa	Shaft	21:30:00.12	37.048294	-116.035380	4,028	-330	Weapons Related	Low	197
1002	Borate ▾	10/23/1987	LLNL	NNSS	U2ge	Shaft	16:00:00.09	37.141850	-116.079570	4,335	-1,780	Weapons Related	20 to 150 kt	1002
511	Bordeaux ▾	08/18/1967	LANL	NNSS	U3dr	Shaft	20:12:30.04	37.012107	-116.037327	3,970	-1,089	Weapons Related	Less than 20 kt	511
915	Borrego	09/29/1982	LANL	NNSS	U7br	Shaft	13:30:00.10	37.091256	-116.045756	4,137	-1,848	Weapons Related	Less than 150 kt	915
486	Bourbon ▾	01/20/1967	LANL	NNSS	U7ns	Shaft	17:40:04.41	37.099826	-116.004708	4,374	-1,836	Weapons Related	20 to 200 kt	486
905	Bouschet ▾	05/07/1982	LANL	NNSS	U3la	Shaft	18:17:00.11	37.069013	-116.046331	4,083	-1,850	Weapons Related	20 to 150 kt	905
1033	Bowie	04/06/1990	LANL	NNSS	U3mk	Shaft	17:00:00.04	37.067623	-115.992991	4,257	-700	Weapons Related	Less than 20 kt	1033
602	Bowl-1 ▾	06/26/1969	LLNL	NNSS	U2bo #1	Shaft	16:00:00.13	37.162437	-116.079494	4,407	-650	Weapons Related	Less than 20 kt	602
602	Bowl-2 ▾	06/26/1969	LLNL	NNSS	U2bo #2	Shaft	16:00:00.13	37.160733	-116.080021	4,402	-750	Weapons Related	Less than 20 kt	602
544	Boxcar	04/26/1968	LLNL	NNSS	U20i	Shaft	15:00:00.07	37.295373	-116.456591	6,370	-3,825	Weapons Related	1.3 Mt	544
674	Bracken	07/09/1971	LLNL	NNSS	U10aq	Shaft	14:00:00.16	37.164403	-116.033602	4,342	-1,000	Weapons Related	Less than 20 kt	674
932	Branco ▾	09/21/1983	LLNL	NNSS	U2ew	Shaft	16:25:00.08	37.121309	-116.056452	4,209	-960	Weapons Related	Less than 20 kt	932
932	Branco-Herkimer ▾	09/21/1983	LLNL	NNSS	U2ew	Shaft	16:25:00.08	37.121309	-116.056452	4,209	-1,400	Weapons Related	Less than 20 kt	932
44	Bravo	02/28/1954	LANL	Bikini Atoll	-----	Surface	18:45:00.00	11.697130	165.274200	10	7	Weapons Related	15 Mt	44
218	Brazos ▾	03/08/1962	LLNL	NNSS	U9d	Shaft	18:00:00.21	37.122117	-116.049750	4,201	-840	Weapons Related	8.4 kt	218
951	Bretton ▾	09/13/1984	LLNL	NNSS	U4ar	Shaft	14:00:00.00	37.086639	-116.072046	4,149	-1,585	Weapons Related	20 to 150 kt	951
996	Brie ▾	06/18/1987	LLNL	NNSS	U10cc	Shaft	15:20:00.08	37.193506	-116.035883	4,413	-666	Weapons Related	Less than 20 kt	996
1048	Bristol	11/26/1991	LLNL/UK	NNSS	U4av	Shaft	18:35:00.07	37.096440	-116.070481	4,177	-1,500	Joint US-UK	Less than 20 kt	1048
423	Bronze ▾	07/23/1965	LANL	NNSS	U7f	Shaft	17:00:00.04	37.097785	-116.033872	4,213	-1,742	Weapons Related	20 to 200 kt	423
529	Brush	01/24/1968	LANL	NNSS	U3eq	Shaft	15:00:00.04	37.042747	-116.014798	4,021	-388	Weapons Related	Less than 20 kt	529
435	Buff ▾	12/16/1965	LANL	NNSS	U3dh	Shaft	19:15:00.04	37.072497	-116.029969	4,102	-1,642	Weapons Related	20 to 200 kt	435
536	Buggy-A	03/12/1968	LLNL	NNSS	U30a	Crater	17:04:00.11	37.007336	-116.370794	5,210	-165	Plowshare	1.08 kt	536
536	Buggy-B	03/12/1968	LLNL	NNSS	U30b	Crater	17:04:00.11	37.007471	-116.371259	5,210	-165	Plowshare	1.08 kt	536
536	Buggy-C	03/12/1968	LLNL	NNSS	U30c	Crater	17:04:00.11	37.007617	-116.371740	5,210	-165	Plowshare	1.08 kt	536
536	Buggy-D	03/12/1968	LLNL	NNSS	U30d	Crater	17:04:00.11	37.007772	-116.372234	5,210	-165	Plowshare	1.08 kt	536
536	Buggy-E	03/12/1968	LLNL	NNSS	U30e	Crater	17:04:00.11	37.007913	-116.372713	5,210	-165	Plowshare	1.08 kt	536
811	Bulkhead	04/27/1977	LANL	NNSS	U7am	Shaft	15:00:00.08	37.094739	-116.028751	4,219	-1,950	Weapons Related	20 to 150 kt	811

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
1015	Bullfrog	08/30/1988	LLNL	NNSS	U4au	Shaft	18:00:00.09	37.085884	-116.069388	4,145	-1,605	Weapons Related	Less than 150 kt	1015	
1034	Bullion	06/13/1990	LLNL	NNSS	U20bd	Shaft	16:00:00.09	37.261551	-116.421002	6,486	-2,211	Weapons Related	20 to 150 kt	1034	
282	Bumping	10/06/1962	LLNL	Johnston Island area	-----	Airdrop	16:03:00.00	14.670000	-168.250000	0	9,900	Weapons Related	11.3 kt	282	
354	Bunker	02/13/1964	LLNL	NNSS	U9bb	Shaft	15:30:00.15	37.131968	-116.033210	4,254	-743	Weapons Related	Less than 20 kt	354	
857	Burzet	08/03/1979	LLNL	NNSS	U4ai	Shaft	15:07:30.16	37.083902	-116.070757	4,142	-1,475	Weapons Related	20 to 150 kt	857	
413	Buteo	05/12/1965	LANL	NNSS	U20a	Shaft	18:15:00.10	37.242607	-116.431741	6,520	-2,282	Weapons Related	Less than 20 kt	413	
123	Butternut	05/11/1958	LANL	Enewetak Atoll	-----	Barge	18:15:00.00	11.542700	162.338600	0	10	Weapons Related	81 kt	123	
373	Bye	07/16/1964	LLNL	NNSS	U10i	Shaft	13:15:00.15	37.182162	-116.046217	4,335	-1,282	Weapons Related	20 to 200 kt	373	
898	Caboc	12/16/1981	LLNL	NNSS	U2cp	Shaft	21:05:00.09	37.114478	-116.123752	4,510	-1,099	Weapons Related	Less than 20 kt	898	
920	Cabra	03/26/1983	LLNL	NNSS	U20aj	Shaft	20:20:00.09	37.300630	-116.460926	6,345	-1,781	Weapons Related	20 to 150 kt	920	
727	Cabresto	05/24/1973	LANL	NNSS	U7h	Shaft	13:30:00.04	37.078000	-116.031637	4,118	-649	Weapons Related	Less than 20 kt	727	
769	Cabrillo	03/07/1975	LLNL	NNSS	U2dr	Shaft	15:00:00.17	37.133964	-116.085117	4,313	-1,970	Weapons Related	20 to 200 kt	769	
530	Cabriolet	01/26/1968	LLNL	NNSS	U20l	Crater	16:00:00.11	37.280797	-116.515339	6,197	-170	Plowshare	2.3 kt	530	
121	Cactus	05/05/1958	LANL	Enewetak Atoll	-----	Surface	18:15:00.00	11.697130	165.274200	5	3	Weapons Related	18 kt	121	
618	Calabash	10/29/1969	LLNL	NNSS	U2av	Shaft	22:01:51.04	37.143270	-116.064717	4,298	-2,050	Weapons Related	110 kt	618	
291	Calamity	10/27/1962	LLNL	Johnston Island area	-----	Airdrop	15:46:00.00	14.700000	-168.417000	0	11,780	Weapons Related	800 kt	291	
414	Cambric	05/14/1965	LLNL	NNSS	U5e	Shaft	14:57:52.15	36.823339	-115.967700	3,137	-967	Weapons Related	750 tons	414	
779	Camembert	06/26/1975	LLNL	NNSS	U19q	Shaft	12:30:00.16	37.278875	-116.369471	6,758	-4,304	Weapons Related	200 to 1,000 kt	779	
671	Camphor	06/29/1971	LLNL/SNL/DoD	NNSS	U12g.10	Tunnel	18:30:00.16	37.176732	-116.212366	7,557	-1,390	Weapons Effects	Less than 20 kt	671	
828	Campos	02/13/1978	LLNL	NNSS	U9cp	Shaft	21:53:00.16	37.126070	-116.032608	4,253	-1,049	Weapons Related	Less than 20 kt	828	
870	Canfield	05/02/1980	LANL	NNSS	U3kx	Shaft	18:46:30.09	37.055962	-116.019826	4,060	-1,150	Weapons Related	Less than 20 kt	870	
642	Can-Green	04/21/1970	LLNL	NNSS	U2dd #1	Shaft	15:00:00.04	37.112323	-116.082967	4,243	-900	Weapons Related	20 to 200 kt	642	
642	Can-Red	04/21/1970	LLNL	NNSS	U2dd #4	Shaft	15:00:00.04	37.115532	-116.081005	4,249	-1,310	Weapons Related	20 to 200 kt	642	
662	Canjilon	12/16/1970	LANL	NNSS	U3fq	Shaft	16:00:00.05	37.072475	-116.025859	4,116	-991	Weapons Related	Less than 20 kt	662	
713	Canna-Limoges	11/17/1972	LLNL	NNSS	U9ITS YZ-26	Shaft	18:00:00.16	37.139535	-116.033233	4,265	-700	Safety Experiment	Less than 20 kt	713	
713	Canna-Umbrinus	11/17/1972	LLNL	NNSS	U9ITS YZ-26	Shaft	18:00:00.16	37.139535	-116.033233	4,265	-600	Weapons Related	Less than 20 kt	713	
685	Cannikin	11/06/1971	LLNL	Amchitka, Alaska	-----	Shaft	22:00:00.06	51.470200	179.103800	208	-5,873	Weapons Related	Less than 5 Mt	685	
378	Canvasback	08/22/1964	LANL	NNSS	U3cp	Shaft	22:17:00.06	37.065281	-116.016319	4,113	-1,469	Weapons Related	Less than 20 kt	378	
703	Capitan	06/28/1972	LANL	NNSS	U3jj	Shaft	14:41:00.19	36.992556	-116.023017	3,946	-441	Weapons Related	Less than 20 kt	703	
944	Caprock	05/31/1984	LANL	NNSS	U4q	Shaft	13:04:00.10	37.103086	-116.048917	4,146	-1,968	Weapons Related	20 to 150 kt	944	
309	Carmel	02/21/1963	LLNL	NNSS	U2h	Shaft	19:47:08.63	37.154760	-116.080754	4,390	-536	Weapons Related	Low	309	
814	Carnelian	07/28/1977	LLNL	NNSS	U4af	Shaft	14:07:00.16	37.097534	-116.091825	4,238	-684	Weapons Related	Less than 20 kt	814	
337	Carp	09/27/1963	LANL	NNSS	U3cb	Shaft	14:20:00.13	37.037266	-116.016562	4,002	-1,081	Weapons Related	Low	337	
665	Carpetbag	12/17/1970	LLNL	NNSS	U2dg	Shaft	16:05:00.16	37.129083	-116.083868	4,302	-2,170	Weapons Related	220 kt	665	
661	Carrizozo	12/03/1970	LANL	NNSS	U3hr	Shaft	15:07:00.00	37.006083	-116.040798	3,970	-916	Weapons Related	Less than 20 kt	661	
399	Cashmere	02/04/1965	LLNL	NNSS	U2ad	Shaft	15:30:00.11	37.130698	-116.062466	4,256	-762	Weapons Related	Less than 20 kt	399	
303	Casselman	02/08/1963	LLNL	NNSS	U10g	Shaft	16:00:00.16	37.148826	-116.052745	4,247	-994	Weapons Related	Low	303	
394	Cassowary	12/16/1964	LANL	NNSS	U3bn	Shaft	20:00:00.07	37.039511	-116.024762	4,005	-493	Weapons Related	Less than 20 kt	394	
683	Cathay	10/08/1971	LLNL	NNSS	U9ch	Shaft	14:30:00.15	37.113742	-116.038198	4,226	-1,240	Weapons Related	Less than 20 kt	683	
182	Catron	10/24/1958	LANL	NNSS	Area 3	Tower	15:00:00.00	37.042800	-116.027800	4,026	73	Safety Experiment	21 tons	182	

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708	Cebolla	08/09/1972	LANL	NNSS	U3jc	Shaft	13:31:10.04	37.007141	-116.019897	3,962	-941	Weapons Related	Less than 20 kt	708	
966	Cembrero	08/14/1985	LLNL	NNSS	U9cw	Shaft	13:00:00.08	37.111034	-116.015246	4,405	-599	Weapons Related	Less than 20 kt	966	
143	Cedar	07/02/1958	LLNL	Bikini Atoll	----	Barge	17:30:00.00	11.697275	165.280000	0	11	Weapons Related	220 kt	143	
426	Centaur ▀	08/27/1965	LLNL	NNSS	U2ak	Shaft	13:51:13.11	37.137259	-116.070943	4,299	-564	Weapons Related	Less than 20 kt	426	
184	Ceres	10/26/1958	LLNL	NNSS	Area 8	Tower	04:00:00.00	37.181329	-116.069535	4,428	25	Safety Experiment	0.7 tons	184	
478	Cerise ▀	11/18/1966	LANL	NNSS	U3eu	Shaft	15:02:00.04	37.042727	-116.011200	4,031	-693	Weapons Related	Less than 20 kt	478	
893	Cernada	09/24/1981	LANL	NNSS	U3kk	Shaft	15:00:00.09	37.008471	-116.024667	3,964	-699	Weapons Related	Less than 20 kt	893	
911	Cerro	09/02/1982	LANL	NNSS	U3lf	Shaft	14:00:00.09	37.019686	-116.016537	3,975	-750	Weapons Related	Less than 20 kt	911	
688	Chaenactis ▀	12/14/1971	LLNL	NNSS	U2dl	Shaft	21:09:59.16	37.123899	-116.090425	4,291	-1,086	Weapons Related	20 to 200 kt	688	
286	Chama	10/18/1962	LANL	Johnston Island area	----	Airdrop	16:01:00.00	14.670000	-168.750000	0	11,970	Weapons Related	1.59 Mt	286	
967	Chamita ▀	08/17/1985	LANL	NNSS	U3lz	Shaft	16:25:00.09	37.002253	-116.043912	3,964	-1,088	Weapons Related	Less than 20 kt	967	
930	Chancellor	09/01/1983	LANL	NNSS	U19ad	Shaft	14:00:00.08	37.272710	-116.355916	6,692	-2,046	Weapons Related	143 kt	930	
682	Chantilly ▀	09/29/1971	LLNL	NNSS	U2di	Shaft	14:30:00.14	37.124433	-116.087848	4,288	-1,085	Weapons Related	Less than 20 kt	682	
428	Charcoal ▀	09/10/1965	LANL/UK	NNSS	U7g	Shaft	17:12:00.03	37.077921	-116.017582	4,172	-1,494	Joint US-UK	20 to 200 kt	428	
114	Charleston	09/28/1957	LLNL	NNSS	Area 9	Balloon	13:00:00.00	37.134742	-116.041648	4,215	1,500	Weapons Related	12 kt	114	
18	Charlie (Operation Buster)	10/30/1951	LANL	NNSS	Area 7	Airdrop	15:00:00.00	37.084950	-116.021250	4,193	1,132	Weapons Related	14 kt	18	
25	Charlie (Operation Tumbler-Snapper)	04/22/1952	LANL/DoD	NNSS	Area 7	Airdrop	17:30:00.00	37.084400	-116.021143	4,193	3,447	Weapons Related	31 kt	25	
457	Chartreuse	05/06/1966	LANL	NNSS	U19d	Shaft	15:00:00.08	37.347938	-116.322827	6,861	-2,188	Weapons Related	73 kt	457	
554	Chateaugay	06/28/1968	LLNL	NNSS	U20t	Shaft	12:22:00.08	37.245458	-116.483751	6,245	-1,992	Weapons Related	20 to 200 kt	554	
591	Chatty ▀	03/18/1969	LLNL	NNSS	U2bn	Shaft	14:40:00.43	37.162228	-116.076753	4,394	-639	Weapons Related	Less than 20 kt	591	
187	Chaves (Chavez)	10/27/1958	LANL	NNSS	Area 3	Tower	14:30:00.00	37.044600	-116.030650	4,025	52	Safety Experiment	0.6 tons	187	
288	Checkmate	10/20/1962	LANL/DoD	Johnston Island area	----	Rocket	08:30:00.00	16.072381	-169.609986	0	tens of miles	Weapons Effects	Low	288	
919	Cheedam ▀	02/17/1983	LLNL	NNSS	U2et	Shaft	17:00:00.09	37.162769	-116.064219	4,332	-1,125	Weapons Related	Less than 20 kt	919	
198	Chena	10/10/1961	LLNL	NNSS	U12b.09	Tunnel	18:00:00.13	37.194242	-116.207891	7,472	-838	Weapons Related	Low	198	
410	Chenille ▀	04/22/1965	LLNL	NNSS	U9bg	Shaft	13:39:00.10	37.111374	-116.031359	4,276	-462	Weapons Related	Less than 20 kt	410	
70	Cherokee	05/20/1956	LANL/DoD	Bikini Atoll	----	Airdrop	17:51:00.00	11.723000	165.306000	0	4,350	Weapons Related	3.8 Mt	70	
791	Cheshire	02/14/1976	LLNL	NNSS	U20n	Shaft	11:30:00.16	37.242582	-116.421101	6,477	-3,829	Weapons Related	200 to 500 kt	791	
855	Chess	06/20/1979	LANL	NNSS	U7at	Shaft	15:00:13.54	37.107580	-116.015958	4,384	-1,100	Weapons Related	Less than 20 kt	855	
243	Chetco	05/19/1962	LLNL	Christmas Island area	----	Airdrop	15:36:00.00	1.565000	-157.365000	0	6,945	Weapons Related	73 kt	243	
803	Chevre ▀	11/23/1976	LLNL	NNSS	U10ay	Shaft	15:15:00.16	37.171658	-116.053542	4,281	-1,040	Weapons Related	Less than 20 kt	803	
786	Chiberta ▀	12/20/1975	LLNL	NNSS	U2ek	Shaft	20:00:00.16	37.127602	-116.062439	4,237	-2,350	Weapons Related	20 to 200 kt	786	
211	Chinchilla ▀	02/19/1962	LANL	NNSS	U3ag	Shaft	16:30:00.13	37.049006	-116.030398	4,030	-492	Weapons Related	1.9 kt	211	
221	Chinchilla II ▀	03/31/1962	LANL	NNSS	U3as	Shaft	18:00:00.13	37.046862	-116.037770	4,026	-448	Weapons Related	Low	221	
307	Chipmunk	02/15/1963	LANL	NNSS	U3ay	Shaft	17:00:00.13	37.048966	-116.032619	4,028	-195	Safety Experiment	Low	307	
497	Chocolate ▀	04/21/1967	LANL	NNSS	U3es	Shaft	15:09:00.04	37.019257	-116.038296	3,979	-789	Weapons Related	Less than 20 kt	497	
213	Cimarron ▀	02/23/1962	LLNL	NNSS	U9h	Shaft	18:00:00.16	37.128808	-116.049178	4,208	-1,000	Weapons Related	11.9 kt	213	
444	Cinnamon	03/07/1966	LANL	NNSS	U3dm	Shaft	18:41:00.04	37.034601	-116.031660	4,000	-393	Safety Experiment	Less than 20 kt	444	
883	Clairette	02/05/1981	LANL	NNSS	U3kr	Shaft	18:00:00.12	37.010848	-116.033049	3,968	-1,160	Weapons Related	Less than 20 kt	883	

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
547	Clarksmobile ▾	05/17/1968	LLNL	NNSS	U2as	Shaft	13:00:00.00	37.120001	-116.059701	4,218	-1,551	Weapons Related	20 to 200 kt	547	
323	Clean Slate I	05/25/1963	LANL/DoD/UK	NTTR	-----	Surface	11:17:00.00	37.708495	-116.657860	5,380	1	Joint US-UK (Storage Transportation)	Zero	323	
325	Clean Slate II	05/31/1963	LANL/DoD/UK	NTTR	-----	Surface	10:47:00.00	37.761125	-116.614428	5,390	1	Joint US-UK (Storage Transportation)	Zero	325	
329	Clean Slate III	06/09/1963	LANL/DoD/UK	NTTR	-----	Surface	10:33:00.00	37.759156	-116.681135	5,387	1	Joint US-UK (Storage Transportation)	Zero	329	
341	Clearwater	10/16/1963	LLNL	NNSS	U12q	Shaft	17:00:00.14	37.198125	-116.230391	7,402	-1,788	Weapons Related	Intermediate	341	
43	Climax	06/04/1953	LANL	NNSS	Area 7	Airdrop	11:15:00.00	37.087549	-116.019208	4,025	1,334	Weapons Related	61 kt	43	
352	Club ▾	01/30/1964	LLNL	NNSS	U2aa	Shaft	16:00:00.15	37.136163	-116.071528	4,296	-592	Weapons Related	Less than 20 kt	352	
445	Clymer ▾	03/12/1966	LLNL	NNSS	U9ce	Shaft	18:04:13.11	37.143627	-116.053391	4,242	-1,303	Weapons Related	Less than 20 kt	445	
918	Coalora ▾	02/11/1983	LANL	NNSS	U3lo	Shaft	16:00:00.10	37.056103	-116.046214	4,058	-899	Weapons Related	Less than 20 kt	918	
522	Cobbler	11/08/1967	LANL	NNSS	U7u	Shaft	15:00:00.04	37.091760	-116.036669	4,164	-2,189	Weapons Related	Less than 20 kt	522	
212	Codsaw ▾	02/19/1962	LLNL	NNSS	U9g	Shaft	17:50:00.16	37.127406	-116.037989	4,217	-696	Weapons Related	Low	212	
593	Coffer ▾	03/21/1969	LLNL	NNSS	U2de	Shaft	14:30:00.41	37.133171	-116.087531	4,323	-1,525	Weapons Related	Less than 100 kt	593	
520	Cognac	10/25/1967	LANL	NNSS	U3fm	Shaft	14:30:00.14	37.049749	-116.040443	4,034	-789	Weapons Related	Less than 20 kt	520	
794	Colby	03/14/1976	LLNL	NNSS	U20aa	Shaft	12:30:00.16	37.305939	-116.472375	6,337	-4,174	Weapons Related	500 to 1,000 kt	794	
167	Colfax	10/05/1958	LANL	NNSS	U3k	Shaft	16:15:00.00	37.048795	-116.035040	4,029	-350	Safety Experiment	5.5 tons	167	
723	Colmor ▾	04/26/1973	LANL	NNSS	U3hv	Shaft	15:15:00.04	37.012101	-116.020835	3,968	-806	Weapons Related	Less than 20 kt	723	
869	Colwick	04/26/1980	LLNL/UK	NNSS	U20ac	Shaft	17:00:00.08	37.248374	-116.423288	6,473	-2,077	Joint US-UK	20 to 150 kt	869	
500	Comodore ▾	05/20/1967	LLNL	NNSS	U2am	Shaft	15:00:00.20	37.130361	-116.064819	4,258	-2,445	Weapons Related	250 kt	500	
1009	Comstock	06/02/1988	LLNL	NNSS	U20ay	Shaft	13:00:00.09	37.260082	-116.441965	6,521	-2,035	Weapons Related	Less than 150 kt	1009	
847	Concentration ▾	12/01/1978	LANL	NNSS	U3kn	Shaft	17:07:30.07	37.029621	-116.025000	3,991	-812	Weapons Related	Less than 20 kt	847	
1025	Contact	06/22/1989	LLNL	NNSS	U20aw	Shaft	21:15:00.08	37.282822	-116.413194	6,585	-1,785	Weapons Related	20 to 150 kt	1025	
661	Corazon	12/03/1970	LANL	NNSS	U3ha	Shaft	15:07:00.04	37.001952	-116.038777	3,961	-791	Weapons Related	Less than 20 kt	661	
433	Corduroy ▾	12/03/1965	LLNL	NNSS	U10k	Shaft	15:13:02.10	37.164690	-116.053221	4,273	-2,227	Weapons Related	20 to 200 kt	433	
374	Cormorant	07/17/1964	LANL/UK	NNSS	U3df	Shaft	17:18:30.03	37.017564	-116.030428	3,975	-891	Joint US-UK	Less than 20 kt	374	
648	Cornice-Green ▾	05/15/1970	LLNL	NNSS	U10ap #3	Shaft	13:30:00.17	37.161873	-116.039722	4,306	-1,455	Weapons Related	20 to 200 kt	648	
648	Cornice-Yellow ▾	05/15/1970	LLNL	NNSS	U10ap #1	Shaft	13:30:00.17	37.165879	-116.036360	4,329	-1,280	Weapons Related	20 to 200 kt	648	
983	Cornucopia ▾	07/24/1986	LLNL	NNSS	U2gaS	Shaft	15:05:00.09	37.142700	-116.071988	4,312	-1,248	Weapons Related	Less than 20 kt	983	
948	Correo ▾	08/02/1984	LANL	NNSS	U3lw	Shaft	15:00:00.09	37.016758	-116.008512	3,967	-1,096	Weapons Related	Less than 20 kt	948	
1041	Coso-Bronze ▾	03/08/1991	LLNL	NNSS	U4an	Shaft	21:02:45.08	37.104317	-116.074901	4,204	-1,093	Weapons Related	Less than 20 kt	1041	
1041	Coso-Gray ▾	03/08/1991	LLNL	NNSS	U4an	Shaft	21:02:45.08	37.104317	-116.074901	4,204	-1,450	Weapons Related	Less than 20 kt	1041	
1041	Coso-Silver ▾	03/08/1991	LLNL	NNSS	U4an	Shaft	21:02:45.08	37.104317	-116.074901	4,204	-1,559	Safety Experiment	Less than 20 kt	1041	
958	Cottage ▾	03/23/1985	LLNL	NNSS	U8j	Shaft	18:30:00.08	37.179926	-116.089828	4,556	-1,690	Weapons Related	20 to 150 kt	958	
92	Coulomb-A	07/01/1957	LANL	NNSS	Area 3	Surface	17:30:00.00	37.041200	-116.026880	4,000	0	Safety Experiment	Zero	92	
108	Coulomb-B	09/06/1957	LANL	NNSS	S3g	Surface	20:05:00.00	37.042900	-116.027100	4,035	3	Safety Experiment	300 tons	108	
117	Coulomb-C	12/09/1957	LANL	NNSS	S3i	Surface	20:00:00.00	37.048200	-116.025200	4,050	0	Safety Experiment	500 tons	117	
821	Coulommiers ▾	09/27/1977	LLNL	NNSS	U2ei	Shaft	14:00:00.16	37.151117	-116.068429	4,327	-1,740	Weapons Related	20 to 150 kt	821	
383	Courser	09/25/1964	LANL/UK	NNSS	U3do	Shaft	17:02:00.03	37.072423	-116.016258	4,148	-1,178	Joint US-UK	Zero	383	

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808	Cove	02/16/1977	LANL	NNSS	U3ki	Shaft	17:53:00.16	37.006589	-116.032235	3,963	-1,098	Weapons Related	Less than 20 kt	808	
692	Cowles	02/03/1972	LANL	NNSS	U3hx	Shaft	21:45:00.04	37.001028	-116.020291	3,955	-990	Weapons Related	Less than 20 kt	692	
314	Coypu	04/10/1963	LANL	NNSS	U3af	Shaft	16:01:30.12	37.048763	-116.031182	4,028	-245	Safety Experiment	Low	314	
842	Cremino	09/27/1978	LLNL	NNSS	U8e	Shaft	16:30:00.17	37.170963	-116.088036	4,488	-688	Weapons Related	Less than 20 kt	842	
842	Cremino-Caerphilly	09/27/1978	LLNL	NNSS	U8e	Shaft	16:30:00.17	37.170963	-116.088036	4,488	-1,377	Weapons Related	Less than 20 kt	842	
391	Crepe	12/05/1964	LLNL	NNSS	U2q	Shaft	21:15:00.10	37.114376	-116.054313	4,195	-1,326	Weapons Related	20 to 200 kt	391	
754	Crestlake-Briar	07/18/1974	LLNL	NNSS	U2dw	Shaft	14:00:01.20	37.119205	-116.086002	4,269	-1,226	Weapons Related	Less than 20 kt	754	
754	Crestlake-Tansan	07/18/1974	LLNL	NNSS	U2dw	Shaft	14:00:01.20	37.119205	-116.086002	4,269	-891	Weapons Related	Less than 20 kt	754	
571	Crew	11/04/1968	LLNL	NNSS	U2db	Shaft	15:15:00.09	37.130426	-116.087381	4,312	-1,977	Weapons Related	20 to 200 kt	571	
572	Crew-2nd	11/04/1968	LLNL	NNSS	U2db	Shaft	15:16:00.09	37.130426	-116.087381	4,312	-1,177	Weapons Related	Less than 20 kt	572	
572	Crew-3rd	11/04/1968	LLNL	NNSS	U2db	Shaft	15:16:00.09	37.130426	-116.087381	4,312	-1,177	Weapons Related	Less than 20 kt	572	
812	Crewline	05/25/1977	LANL	NNSS	U7ap	Shaft	17:00:00.08	37.094280	-116.045731	4,148	-1,851	Weapons Related	20 to 150 kt	812	
546	Crock	05/08/1968	LLNL	NNSS	U10ak	Shaft	14:10:00.00	37.157276	-116.035786	4,317	-596	Weapons Related	Less than 20 kt	546	
923	Crowdie	05/05/1983	LLNL	NNSS	U2fe	Shaft	15:20:00.08	37.145593	-116.090089	4,383	-1,280	Weapons Related	Less than 20 kt	923	
616	Cruet	10/29/1969	LLNL	NNSS	U2cn	Shaft	19:30:00.04	37.121466	-116.128621	4,589	-865	Weapons Related	11 kt	616	
708	Cuchillo	08/09/1972	LANL	NNSS	U3jt	Shaft	13:31:10.04	37.003705	-116.019923	3,957	-652	Weapons Related	Less than 20 kt	708	
623	Culantro-A	12/10/1969	LANL	NNSS	U3hi-a	Shaft	15:00:00.04	37.014671	-116.003735	3,964	-440	Weapons Related	Less than 20 kt	623	
623	Culantro-B	12/10/1969	LANL	NNSS	U3hi-b	Shaft	15:00:00.04	37.014865	-116.002020	3,967	-490	Weapons Related	Less than 20 kt	623	
634	Cumarin	02/25/1970	LANL	NNSS	U3gz	Shaft	14:28:38.04	37.036627	-116.000460	4,045	-1,340	Weapons Related	20 to 200 kt	634	
315	Cumberland	04/11/1963	LLNL	NNSS	U2e	Shaft	16:03:00.16	37.156630	-116.071834	4,352	-745	Weapons Related	Low	315	
406	Cup	03/26/1965	LLNL	NNSS	U9cb	Shaft	15:34:08.16	37.147554	-116.043762	4,245	-1,775	Weapons Related	20 to 200 kt	406	
636	Cyathus	03/06/1970	LLNL	NNSS	U8b	Shaft	14:24:00.94	37.173070	-116.092626	4,527	-964	Weapons Related	8.7 kt	636	
982	Cybar	07/17/1986	LANL	NNSS	U19ar	Shaft	21:00:00.06	37.278620	-116.356493	6,707	-2,057	Weapons Related	119 kt	982	
456	Cyclamen	05/05/1966	LANL	NNSS	U3cx	Shaft	14:00:00.04	37.050572	-116.038720	4,036	-1,001	Weapons Related	12 kt	456	
589	Cypress	02/12/1969	LLNL/SNL/DoD	NNSS	U12g.09	Tunnel	16:18:20.88	37.169003	-116.211623	7,519	-1,350	Weapons Effects	Less than 20 kt	589	
473	Daiquiri	09/23/1966	LANL	NNSS	U7o	Shaft	18:00:00.04	37.103299	-116.036570	4,223	-1,841	Weapons Related	Less than 20 kt	473	
80	Dakota	06/25/1956	LANL	Bikini Atoll	----	Barge	18:06:00.00	11.679000	165.391500	0	10	Weapons Related	1.1 Mt	80	
1016	Dalhart	10/13/1988	LANL	NNSS	U4u	Shaft	14:00:00.08	37.088950	-116.050132	4,120	-2,099	Weapons Related	Less than 150 kt	1016	
257	Daman I	06/21/1962	LANL	NNSS	U3be	Shaft	17:00:00.13	37.043017	-116.031123	4,016	-854	Weapons Related	Low	257	
926	Danablu	06/09/1983	LLNL	NNSS	U2eu	Shaft	17:10:00.09	37.157569	-116.090101	4,441	-1,050	Weapons Related	Less than 20 kt	926	
216	Danny Boy	03/05/1962	LLNL/DoD	NNSS	U18a	Crater	18:15:00.12	37.111003	-116.365835	5,384	-110	Weapons Effects	430 tons	216	
981	Darwin	06/25/1986	LLNL/UK	NNSS	U20aq	Shaft	20:27:45.09	37.264530	-116.500200	6,155	-1,801	Joint US-UK	20 to 150 kt	981	
880	Dauphin	11/14/1980	LLNL	NNSS	U9cq	Shaft	16:50:00.08	37.111444	-116.019526	4,372	-1,050	Weapons Related	Less than 20 kt	880	
186	De Baca	10/26/1958	LANL	NNSS	Area 7	Balloon	16:00:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	2.2 kt	186	
226	Dead	04/21/1962	LLNL	NNSS	U9k	Shaft	18:40:00.16	37.118958	-116.032393	4,261	-635	Weapons Related	Low	226	
783	Deck	11/18/1975	LANL	NNSS	U3kd	Shaft	15:30:00.11	37.020263	-116.021499	3,958	-1,070	Weapons Related	Less than 20 kt	783	
993	Delamar	04/18/1987	LLNL	NNSS	U20at	Shaft	13:40:00.00	37.247830	-116.510033	6,240	-1,785	Weapons Related	20 to 150 kt	993	
710	Delphinium	09/26/1972	LLNL	NNSS	U2dp	Shaft	14:30:00.16	37.121323	-116.086603	4,276	-970	Weapons Related	15 kt	710	
472	Derringer	09/12/1966	LANL/SNL/DoD	NNSS	U5i	Shaft	15:30:00.05	36.875842	-115.951559	3,395	-837	Weapons Effects	7.8 kt	472	
253	Des Moines	06/13/1962	LLNL	NNSS	U12j.01	Tunnel	21:00:00.12	37.222177	-116.163010	6,312	-660	Weapons Related	2.9 kt	253	

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668	Dexter	06/23/1971	LANL	NNSS	U3hs	Shaft	14:00:00.04	37.013167	-116.017284	3,968	-394	Safety Experiment	Less than 20 kt	668	
94	Diablo	07/15/1957	LLNL	NNSS	Area 2	Tower	11:30:00.00	37.150200	-116.109485	4,469	500	Weapons Related	17 kt	94	
841	Diablo Hawk	09/13/1978	LLNL/DoD	NNSS	U12n.10a	Tunnel	15:15:00.16	37.208750	-116.211642	7,346	-1,273	Weapons Effects	Less than 20 kt	841	
686	Diagonal Line	11/24/1971	LLNL/DoD	NNSS	U11g	Shaft	20:15:00.17	36.879181	-115.935571	3,405	-868	Weapons Effects	Less than 20 kt	686	
912	Diamond Ace	09/23/1982	LLNL/DoD	NNSS	U12n.15	Tunnel	16:00:00.09	37.211995	-116.207512	7,466	-1,390	Weapons Effects	Less than 20 kt	912	
970	Diamond Beech	10/09/1985	LLNL/DoD	NNSS	U12n.19	Tunnel	23:20:00.09	37.209621	-116.210960	7,403	-1,326	Weapons Effects	Less than 20 kt	970	
647	Diamond Dust	05/12/1970	LANL/DoD	NNSS	U16a.05	Tunnel	14:00:00.04	37.010400	-116.202764	6,265	-830	Vela Uniform	Less than 20 kt	647	
1050	Diamond Fortune	04/30/1992	LANL/DoD	NNSS	U12p.05	Tunnel	16:30:00.00	37.234140	-116.158224	6,307	-774	Weapons Effects	Less than 20 kt	1050	
672	Diamond Mine	07/01/1971	LANL/DoD	NNSS	U16a.06	Tunnel	14:00:00.04	37.011491	-116.204268	6,310	-873	Vela Uniform	Less than 20 kt	672	
706	Diamond Sculls	07/20/1972	LLNL/DoD	NNSS	U12t.02	Tunnel	17:16:00.16	37.214484	-116.184243	7,020	-1,391	Weapons Effects	Less than 20 kt	706	
633	Diana Mist	02/11/1970	LANL/DoD	NNSS	U12n.06	Tunnel	19:15:00.04	37.201239	-116.206094	7,391	-1,319	Weapons Effects	Less than 20 kt	633	
559	Diana Moon	08/27/1968	LLNL/DoD	NNSS	U11e	Shaft	16:30:00.04	36.877167	-115.931938	3,385	-794	Weapons Effects	Less than 20 kt	559	
693	Dianthus	02/17/1972	LLNL	NNSS	U10at	Shaft	19:02:00.16	37.165655	-116.057109	4,285	-1,000	Weapons Related	Less than 20 kt	693	
729	Dido Queen	06/05/1973	LLNL/DoD	NNSS	U12e.14	Tunnel	17:00:00.17	37.184978	-116.215970	7,461	-1,284	Weapons Effects	Less than 20 kt	729	
622	Diesel Train	12/05/1969	LANL/DoD	NNSS	U12e.11	Tunnel	17:00:00.04	37.179930	-116.211733	7,540	-1,375	Weapons Effects	Less than 20 kt	622	
419	Diluted Waters	06/16/1965	LLNL/DoD	NNSS	U5b	Shaft	16:30:00.15	36.818004	-115.956925	3,095	-632	Weapons Effects	Less than 20 kt	419	
770	Dining Car	04/05/1975	LLNL/DoD	NNSS	U12e.18	Tunnel	19:45:00.19	37.187868	-116.214751	7,430	-1,257	Weapons Effects	Less than 20 kt	770	
461	Discus Thrower	05/27/1966	LANL/DoD	NNSS	U8a	Shaft	20:00:00.04	37.178340	-116.098631	4,615	-1,106	Weapons Effects	22 kt	461	
1027	Disko Elm	09/14/1989	LLNL/DoD	NNSS	U12p.03	Tunnel	15:00:00.10	37.235839	-116.163771	6,377	-857	Weapons Effects	Less than 20 kt	1027	
1046	Distant Zenith	09/19/1991	LANL/DoD	NNSS	U12p.04	Tunnel	16:30:00.07	37.235678	-116.167307	6,392	-865	Weapons Effects	Less than 20 kt	1046	
1054	Divider	09/23/1992	LANL	NNSS	U3ml	Shaft	15:04:00.00	37.020632	-115.988778	4,051	-1,115	Weapons Related	Less than 20 kt	1054	
36	Dixie	04/06/1953	LANL	NNSS	Area 7	Airdrop	15:30:00.00	37.084604	-116.020654	4,025	6,022	Weapons Related	11 kt	36	
809	Dofino	03/08/1977	LLNL	NNSS	U10ba	Shaft	14:24:00.16	37.176147	-116.053825	4,296	-600	Weapons Related	Less than 20 kt	809	
809	Dofino-Lawton	03/08/1977	LLNL	NNSS	U10ba	Shaft	14:24:00.16	37.176147	-116.053825	4,296	-926	Weapons Related	Less than 20 kt	809	
12	Dog (Operation Greenhouse)	04/07/1951	LANL	Enewetak Atoll	-----	Tower	18:34:00.00	11.551866	162.347893	10	300	Weapons Related	81 kt	12	
19	Dog (Operation Buster)	11/01/1951	LANL	NNSS	Area 7	Airdrop	15:30:00.00	37.084550	-116.020850	4,193	1,417	Weapons Related	21 kt	19	
26	Dog (Operation Tumbler-Snapper)	05/01/1952	LANL	NNSS	Area 7	Airdrop	16:30:00.00	37.084120	-116.021140	4,193	1,040	Weapons Related	19 kt	26	
144	Dogwood	07/05/1958	LLNL	Enewetak Atoll	-----	Barge	18:30:00.00	11.677570	162.206157	0	12	Weapons Related	397 kt	144	
950	Dolcetto	08/30/1984	LANL	NNSS	U7bi	Shaft	14:45:00.10	37.089748	-116.000235	4,324	-1,198	Weapons Related	Less than 20 kt	950	
174	Dona Ana	10/16/1958	LANL	NNSS	Area 7	Balloon	14:20:00.00	37.086540	-116.024805	4,186	450	Weapons Related	37 tons	174	
513	Door Mist	08/31/1967	LANL/DoD	NNSS	U12g.07	Tunnel	16:30:00.04	37.177511	-116.209811	7,625	-1,463	Weapons Effects	Less than 20 kt	513	
102	Doppler	08/23/1957	LANL	NNSS	Area 7	Balloon	12:00:00.00	37.086540	-116.024805	4,230	1,500	Weapons Related	11 kt	102	
207	Dormouse	01/30/1962	LANL	NNSS	U3aq	Shaft	18:00:00.13	37.046799	-116.040351	4,026	-1,191	Weapons Related	Low	207	
222	Dormouse Prime	04/05/1962	LANL	NNSS	U3az	Shaft	18:00:00.13	37.044458	-116.024402	4,016	-856	Weapons Related	10.6 kt	222	
534	Dorsal Fin	02/29/1968	LANL/DoD	NNSS	U12e.10	Tunnel	17:08:30.04	37.184571	-116.212312	7,505	-1,345	Weapons Effects	Less than 20 kt	534	
465	Double Play	06/15/1966	LLNL/DoD	NNSS	U16a.03	Tunnel	17:00:00.04	37.009611	-116.203797	6,499	-1,075	Weapons Effects	Less than 20 kt	465	

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
319	Double Tracks	05/15/1963	LANL/DoD/UK	NTTR	-----	Surface	09:55:00.00	37.706091	-116.988191	4,972	1	Joint US-UK (Storage-Transportation)	Zero	319
439	Dovekie	01/21/1966	LANL	NNSS	U3cd	Shaft	18:28:00.04	37.031770	-116.016605	3,991	-1,093	Weapons Related	Less than 20 kt	439
843	Draughts	09/27/1978	LANL	NNSS	U7al	Shaft	17:00:00.07	37.073820	-116.020703	4,139	-1,449	Weapons Related	20 to 150 kt	843
392	Drill (Source-Lower)	12/05/1964	LLNL	NNSS	U2ai	Shaft	21:15:00.16	37.134236	-116.070624	4,286	-725	Weapons Related	Less than 20 kt	392
392	Drill (Target-Upper)	12/05/1964	LLNL	NNSS	U2ai	Shaft	21:15:00.16	37.134236	-116.070624	4,286	-624	Weapons Related	3.4 kt	392
365	Driver	05/07/1964	LLNL	NNSS	U9ar	Shaft	13:00:00.15	37.120213	-116.041167	4,200	-486	Weapons Related	Less than 20 kt	365
372	Dub	06/30/1964	LLNL	NNSS	U10a	Shaft	13:33:00.14	37.174380	-116.057265	4,293	-848	Plowshare	11.7 kt	372
370	Duffer	06/18/1964	LLNL	NNSS	U10ds	Shaft	13:30:00.20	37.165947	-116.039283	4,312	-1,466	Weapons Related	Less than 20 kt	370
255	Dulce	06/17/1962	LANL	Christmas Island area	-----	Airdrop	16:00:00.00	1.490000	-157.327000	0	9,090	Weapons Related	52 kt	255
460	Dumont	05/19/1966	LLNL	NNSS	U2t	Shaft	13:56:28.14	37.111103	-116.058798	4,195	-2,201	Weapons Related	20 to 200 kt	460
945	Duoro	06/20/1984	LANL	NNSS	U3lv	Shaft	15:15:00.09	37.000331	-116.043928	3,961	-1,250	Weapons Related	20 to 150 kt	945
451	Duryea	04/14/1966	LLNL	NNSS	U20a-1	Shaft	14:13:43.10	37.242607	-116.431741	6,520	-1,784	Weapons Related	70 kt	451
878	Dutchess	10/24/1980	LANL/UK	NNSS	U7bm	Shaft	19:15:00.12	37.074528	-116.000132	4,238	-1,400	Joint US-UK	Less than 20 kt	878
348	Eagle	12/12/1963	LLNL	NNSS	U9av	Shaft	16:02:00.15	37.130971	-116.044749	4,203	-541	Weapons Related	5.3 kt	348
9	Easy (Operation Ranger)	02/01/1951	LANL	NNSS	Area 5	Airdrop	13:47:00.00	36.805100	-115.950200	3,140	1,080	Weapons Related	1 kt	9
13	Easy (Operation Greenhouse)	04/20/1951	LANL	Enewetak Atoll	-----	Tower	18:27:00.00	11.665400	162.233800	10	300	Weapons Related	47 kt	13
20	Easy (Operation Buster)	11/05/1951	LANL	NNSS	Area 7	Airdrop	16:30:00.00	37.091900	-116.025300	4,224	1,314	Weapons Related	31 kt	20
27	Easy (Operation Tumbler-Snapper)	05/07/1952	LANL	NNSS	Area 1	Tower	12:15:00.00	37.053040	-116.103504	4,329	300	Weapons Related	12 kt	27
820	Ebbtide	09/15/1977	LANL	NNSS	U3kt	Shaft	14:36:30.08	37.032743	-116.044006	4,005	-1,245	Weapons Related	Less than 20 kt	820
771	Edam	04/24/1975	LLNL	NNSS	U2dy	Shaft	14:10:00.17	37.115640	-116.088262	4,263	-1,350	Weapons Related	20 to 200 kt	771
160	Eddy	09/19/1958	LANL	NNSS	Area 7	Balloon	14:00:00.00	37.086540	-116.024805	4,186	500	Weapons Related	83 tons	160
242	Eel	05/19/1962	LLNL	NNSS	U9m	Shaft	15:00:00.16	37.122589	-116.048079	4,200	-714	Weapons Related	4.5 kt	242
498	Effendi	04/27/1967	LLNL	NNSS	U2ap	Shaft	14:45:00.00	37.138735	-116.064073	4,284	-725	Weapons Related	Less than 20 kt	498
954	Egmont	12/09/1984	LLNL/UK	NNSS	U20al	Shaft	19:40:00.09	37.270022	-116.498473	6,124	-1,792	Joint US-UK	20 to 150 kt	954
139	Elder	06/27/1958	LANL	Enewetak Atoll	-----	Barge	18:30:00.00	11.677200	162.185255	0	9	Weapons Related	880 kt	139
741	Elida	12/19/1973	LANL	NNSS	U3hy	Shaft	19:16:00.11	37.001093	-116.032277	3,955	-1,251	Weapons Related	Less than 20 kt	741
429	Elkhart	09/17/1965	LLNL	NNSS	U9bs	Shaft	15:08:23.10	37.110981	-116.035477	4,245	-723	Weapons Related	Less than 20 kt	429
667	Embudo	06/16/1971	LANL	NNSS	U3hd	Shaft	14:50:00.04	37.033134	-116.014538	3,996	-994	Weapons Related	Less than 20 kt	667
434	Emerson	12/16/1965	LLNL	NNSS	U2al	Shaft	15:39:18.15	37.140792	-116.064050	4,289	-853	Weapons Related	Less than 20 kt	434
845	Emmenthal	11/02/1978	LLNL	NNSS	U19t	Shaft	15:25:00.17	37.287894	-116.298378	6,991	-1,891	Weapons Related	Less than 20 kt	845
239	Encino	05/12/1962	LANL	Christmas Island area	-----	Airdrop	17:02:00.00	1.565000	-157.365000	0	5,510	Weapons Related	500 kt	239
40	Encore	05/08/1953	LANL/DoD	NNSS	Area 5	Airdrop	15:30:00.00	36.797923	-115.929776	3,077	2,423	Weapons Effects	27 kt	40
73	Erie	05/30/1956	LANL	Enewetak Atoll	-----	Tower	18:15:00.00	11.540100	162.357950	10	300	Weapons Related	14.9 kt	73
217	Ermine	03/06/1962	LANL	NNSS	U3ab	Shaft	16:30:00.13	37.048350	-116.034526	4,028	-240	Safety Experiment	Low	217
753	Escabosa	07/10/1974	LANL	NNSS	U7ac	Shaft	16:00:00.09	37.074984	-116.032691	4,102	-2,095	Weapons Related	20 to 200 kt	753

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
789	Esrom ▾	02/04/1976	LLNL	NNSS	U7ak	Shaft	14:40:00.16	37.106546	-116.038295	4,216	-2,149	Weapons Related	20 to 200 kt	789	
56	ESS	03/23/1955	LANL	NNSS	U10 ESS	Crater	20:30:00.00	37.168412	-116.044669	4,288	-67	Weapons Effects	1 kt	56	
760	Estaca	10/17/1974	LANL	NNSS	U3ja	Shaft	17:13:00.12	37.006354	-116.015722	3,959	-1,053	Weapons Related	Less than 20 kt	760	
793	Estuary	03/09/1976	LANL	NNSS	U19g	Shaft	14:00:00.09	37.309910	-116.365105	6,734	-2,811	Weapons Related	200 to 500 kt	793	
188	Evans	10/29/1958	LLNL	NNSS	U12b.04	Tunnel	00:00:00.15	37.194804	-116.205604	7,472	-840	Weapons Related	55 tons	188	
371	Fade ▾	06/25/1964	LLNL	NNSS	U9be	Shaft	13:30:00.14	37.111087	-116.029646	4,288	-673	Weapons Related	Less than 20 kt	371	
925	Fahada	05/26/1983	LANL	NNSS	U7bh	Shaft	15:00:00.09	37.102858	-116.006568	4,392	-1,261	Weapons Related	Less than 20 kt	925	
856	Fajy ▾	06/28/1979	LLNL	NNSS	U2fc	Shaft	14:44:00.17	37.143116	-116.088389	4,364	-1,760	Weapons Related	20 to 150 kt	856	
750	Fallon ▾	05/23/1974	LLNL/UK	NNSS	U2dv	Shaft	13:38:30.16	37.124448	-116.079753	4,274	-1,530	Joint US-UK	20 to 200 kt	750	
827	Farallones ▾	12/14/1977	LLNL	NNSS	U2fa	Shaft	15:30:00.07	37.135821	-116.086900	4,322	-2,189	Weapons Related	20 to 150 kt	827	
848	Farm	12/16/1978	LLNL	NNSS	U20ab	Shaft	15:30:00.16	37.273338	-116.411164	6,581	-2,260	Weapons Related	20 to 150 kt	848	
528	Faultless	01/19/1968	LLNL	Central Nevada	-----	Shaft	18:15:00.08	38.634221	-116.216221	6,030	-3,200	Weapons Related	200 to 1,000 kt	528	
496	Fawn ▾	04/07/1967	LANL	NNSS	U3eo	Shaft	15:00:00.04	37.054329	-116.023095	4,047	-889	Weapons Related	Less than 20 kt	496	
204	Feather	12/22/1961	LLNL	NNSS	U12b.08	Tunnel	16:30:00.13	37.194884	-116.209161	7,443	-812	Weapons Related	150 tons	204	
452	Fenton ▾	04/23/1966	LLNL	NNSS	U2m1	Shaft	14:55:26.14	37.160491	-116.083743	4,423	-549	Weapons Related	1.4 kt	452	
305	Ferret	02/08/1963	LANL	NNSS	U3bf	Shaft	18:30:00.13	37.058292	-116.030132	4,052	-1,069	Weapons Related	Low	305	
313	Ferret Prime ▾	04/05/1963	LANL	NNSS	U3by	Shaft	17:52:00.13	37.037310	-116.024781	4,002	-792	Weapons Related	Low	313	
154	Fig	08/18/1958	LLNL/DoD	Enewetak Atoll	-----	Surface	04:00:00.00	11.545500	162.352700	10	2	Weapons Related	20 tons	154	
570	File ▾	10/31/1968	LANL	NNSS	U3gb	Shaft	18:30:00.04	37.017048	-116.036598	3,977	-751	Weapons Related	Less than 20 kt	570	
444	Finfoot ▾	03/07/1966	LANL	NNSS	U3du	Shaft	18:41:00.07	37.037340	-116.030263	4,004	-642	Weapons Related	Less than 20 kt	444	
122	Fir	05/11/1958	LLNL	Bikini Atoll	-----	Barge	17:50:00.00	11.697275	165.280000	0	10	Weapons Related	1.36 Mt	122	
200	Fisher ▾	12/03/1961	LANL	NNSS	U3ah	Shaft	23:04:59.63	37.045810	-116.028544	4,020	-1,193	Weapons Related	13.4 kt	200	
110	Fizeau	09/14/1957	LANL	NNSS	Area 3	Tower	16:45:00.00	37.033430	-116.032243	4,030	500	Weapons Related	11 kt	110	
493	Fizz	03/10/1967	LANL	NNSS	U3fr	Shaft	15:00:00.04	37.046079	-116.030642	4,022	-386	Safety Experiment	Less than 20 kt	493	
652	Flask-Green ▾	05/26/1970	LLNL	NNSS	U2az #1	Shaft	15:00:00.05	37.113320	-116.063205	4,192	-1,734	Plowshare	105 kt	652	
652	Flask-Red	05/26/1970	LLNL	NNSS	U2az #3	Shaft	15:00:00.05	37.116147	-116.067572	4,220	-500	Plowshare	35 tons	652	
652	Flask-Yellow	05/26/1970	LLNL	NNSS	U2az #2	Shaft	15:00:00.05	37.118084	-116.064436	4,220	-1,100	Plowshare	90 tons	652	
75	Flathead	06/12/1956	LANL	Bikini Atoll	-----	Barge	18:26:00.00	11.688500	165.390000	0	15	Weapons Related	365 kt	75	
717	Flax-Backup ▾	12/21/1972	LLNL	NNSS	U2dj	Shaft	20:15:24.35	37.139909	-116.084124	4,341	-1,460	Weapons Effects	Less than 20 kt	717	
716	Flax-Source ▾	12/21/1972	LLNL	NNSS	U2dj	Shaft	20:15:00.24	37.139909	-116.084124	4,341	-2,260	Weapons Related	Less than 20 kt	716	
717	Flax-Test ▾	12/21/1972	LLNL	NNSS	U2dj	Shaft	20:15:24.35	37.139909	-116.084124	4,341	-1,430	Weapons Effects	20 to 200 kt	717	
871	Flora	05/22/1980	LANL	NNSS	U3lg	Shaft	13:00:00.09	37.003016	-116.032261	3,958	-1,100	Weapons Related	Less than 20 kt	871	
817	Flotost ▾	08/16/1977	LLNL	NNSS	U2ao	Shaft	15:49:00.17	37.146672	-116.063983	4,301	-903	Weapons Related	Less than 20 kt	817	
1044	Floydada	08/15/1991	LANL	NNSS	U7cb	Shaft	16:00:00.00	37.087287	-116.002657	4,288	-1,650	Weapons Related	Less than 20 kt	1044	
628	Fob-Blue	01/23/1970	LLNL	NNSS	U9ITS Y-27	Shaft	16:30:00.21	37.140633	-116.033512	4,264	-330	Weapons Related	Less than 20 kt	628	
628	Fob-Green ▾	01/23/1970	LLNL	NNSS	U9ITS V-27	Shaft	16:30:00.21	37.140657	-116.037636	4,242	-802	Weapons Related	Less than 20 kt	628	
628	Fob-Red ▾	01/23/1970	LLNL	NNSS	U9ITS V-24	Shaft	16:30:00.21	37.137364	-116.037663	4,232	-872	Weapons Related	Less than 20 kt	628	
833	Fondutta	04/11/1978	LLNL/UK	NNSS	U19zS	Shaft	15:30:00.16	37.299575	-116.327584	6,888	-2,077	Joint US-UK	20 to 150 kt	833	
790	Fontina	02/12/1976	LLNL	NNSS	U20f	Shaft	14:45:00.16	37.271354	-116.489338	6,117	-3,997	Weapons Related	200 to 1,000 kt	790	
350	Fore ▾	01/16/1964	LLNL	NNSS	U9ao	Shaft	16:00:00.15	37.142233	-116.049975	4,231	-1,611	Weapons Related	20 to 200 kt	350	

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813	Forefoot	06/02/1977	LANL	NNSS	U3kf	Shaft	17:15:00.10	37.054895	-116.025832	4,047	-635	Weapons Related	Less than 20 kt	813	
389	Forest	10/31/1964	LLNL	NNSS	U7a	Shaft	17:04:58.61	37.107161	-116.033112	4,255	-1,269	Weapons Related	Less than 20 kt	389	
11	Fox (Operation Ranger)	02/06/1951	LANL	NNSS	Area 5	Airdrop	13:47:00.00	36.805100	-115.950200	3,140	1,435	Weapons Related	22 kt	11	
28	Fox (Operation Tumbler-Snapper)	05/25/1952	LANL	NNSS	Area 4	Tower	12:00:00.00	37.095488	-116.103616	4,309	300	Weapons Related	11 kt	28	
88	Franklin	06/02/1957	LANL	NNSS	Area 3	Tower	11:55:00.00	37.095488	-116.103616	4,026	300	Weapons Related	140 tons	88	
104	Franklin Prime	08/30/1957	LANL	NNSS	Area 7	Balloon	12:40:00.00	37.086540	-116.024805	4,186	750	Weapons Related	4.7 kt	104	
853	Freezeout ▾	05/11/1979	LANL	NNSS	U3kw	Shaft	16:00:00.10	36.998135	-116.018604	3,951	-1,100	Weapons Related	Less than 20 kt	853	
232	Frigate Bird	05/06/1962	LLNL/DoD	Pacific	-----	Rocket	23:30:00.00	4.833333	-149.416667	0	11,000	Weapons Related	200 to 1,000 kt	232	
680	Frijoles-Deming	09/22/1971	LANL	NNSS	U3jw	Shaft	14:00:00.04	37.021557	-116.017069	3,977	-492	Safety Experiment	Less than 20 kt	680	
680	Frijoles-Espuela	09/22/1971	LANL	NNSS	U3ju	Shaft	14:00:00.04	37.022656	-116.017197	3,979	-490	Safety Experiment	Less than 20 kt	680	
680	Frijoles-Guaje	09/22/1971	LANL	NNSS	U3hf	Shaft	14:00:00.04	37.024354	-116.016154	3,980	-843	Weapons Related	Less than 20 kt	680	
680	Frijoles-Petaca ▾	09/22/1971	LANL	NNSS	U3hz	Shaft	14:00:00.04	37.021901	-116.019772	3,980	-741	Weapons Related	Less than 20 kt	680	
914	Frisco ▾	09/23/1982	LLNL	NNSS	U8m	Shaft	17:00:00.09	37.174702	-116.088666	4,507	-1,480	Weapons Related	20 to 150 kt	914	
552	Funnel	06/25/1968	LANL	NNSS	U3ga	Shaft	15:30:00.04	37.046302	-116.031075	4,023	-389	Weapons Related	Less than 20 kt	552	
777	Futtock	06/18/1975	LANL	NNSS	U3eh	Shaft	11:49:00.09	37.065592	-116.022829	4,094	-612	Safety Experiment	Less than 20 kt	777	
1052	Galena-Green	06/23/1992	LLNL	NNSS	U9cv	Shaft	15:00:00.07	37.123873	-116.032112	4,251	-1,312	Safety Experiment	Less than 20 kt	1052	
1052	Galena-Orange	06/23/1992	LLNL	NNSS	U9cv	Shaft	15:00:00.07	37.123873	-116.032112	4,251	-1,247	Safety Experiment	Less than 20 kt	1052	
1052	Galena-Yellow	06/23/1992	LLNL	NNSS	U9cv	Shaft	15:00:00.07	37.123873	-116.032112	4,251	-951	Weapons Related	Less than 20 kt	1052	
106	Galileo	09/02/1957	LANL	NNSS	Area 1	Tower	12:40:00.00	37.053040	-116.103504	4,250	500	Weapons Related	11 kt	106	
984	Galveston	09/04/1986	LANL	NNSS	U19af	Shaft	16:09:00.06	37.239678	-116.368643	6,710	-1,598	Weapons Related	Less than 20 kt	984	
192	Ganymede	10/30/1958	LLNL	NNSS	S9g	Surface	11:00:00.00	37.125587	-116.047855	4,193	0	Safety Experiment	Zero	192	
388	Garden	10/23/1964	LLNL	NNSS	U9aj	Shaft	15:00:00.94	37.116986	-116.032018	4,269	-491	Weapons Related	Less than 20 kt	388	
524	Gasbuggy	12/10/1967	LLNL	near Farmington, New Mexico	-----	Shaft	19:30:00.14	36.677905	-107.209025	7,204	-4,227	Plowshare	29 kt	524	
988	Gascon ▾	11/14/1986	LANL	NNSS	U4t	Shaft	16:00:00.07	37.100381	-116.048939	4,144	-1,946	Weapons Related	20 to 150 kt	988	
720	Gazook ▾	03/23/1973	LLNL	NNSS	U2do	Shaft	20:15:00.17	37.117223	-116.087903	4,268	-1,070	Weapons Related	Less than 20 kt	720	
14	George (Operation Greenhouse)	05/08/1951	LANL	Enewetak Atoll	-----	Tower	21:30:00.00	11.624300	162.303900	10	200	Weapons Related	225 kt	14	
29	George (Operation Tumbler-Snapper)	06/01/1952	LANL	NNSS	Area 3	Tower	11:55:00.00	37.095488	-116.103616	4,028	300	Weapons Related	15 kt	29	
312	Gerbil ▾	03/29/1963	LANL	NNSS	U3bp	Shaft	15:49:00.12	37.041675	-116.019265	4,012	-917	Weapons Related	Low	312	
903	Gibne	04/25/1982	LLNL/UK	NNSS	U20ah	Shaft	18:05:00.09	37.255785	-116.423251	6,445	-1,869	Joint US-UK	20 to 150 kt	903	
509	Gibson ▾	08/04/1967	LANL	NNSS	U3ew	Shaft	14:00:00.04	37.024338	-116.013239	3,980	-790	Weapons Related	Less than 20 kt	509	
515	Gilroy	09/15/1967	LANL	NNSS	U3ex	Shaft	17:30:00.04	37.034822	-116.021715	3,998	-789	Weapons Related	Less than 20 kt	515	
975	Glencoe ▾	03/22/1986	LANL	NNSS	U4i	Shaft	16:15:00.08	37.082957	-116.066908	4,136	-2,000	Weapons Related	29 kt	975	
201	Gnome	12/10/1961	LLNL	near Carlsbad, New Mexico	-----	Shaft	19:00:00.00	32.263160	-103.866460	3,400	-1,184	Plowshare	3 kt	201	
974	Goldstone	12/28/1985	LLNL	NNSS	U20ao	Shaft	19:01:00.09	37.237751	-116.473638	6,279	-1,800	Weapons Related	20 to 150 kt	974	

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
937	Gorbea	01/31/1984	LLNL	NNSS	U2cq	Shaft	15:30:00.08	37.112649	-116.122575	4,499	-1,273	Weapons Related	20 to 150 kt	937	
801	Gouda	10/06/1976	LLNL	NNSS	U2ef	Shaft	14:30:00.16	37.134514	-116.063146	4,260	-656	Weapons Related	Less than 20 kt	801	
594	Gourd-Amber ▀	04/24/1969	LLNL	NNSS	U2bf	Shaft	13:04:00.14	37.163922	-116.080512	4,418	-595	Weapons Related	Less than 20 kt	594	
594	Gourd-Brown ▀	04/24/1969	LLNL	NNSS	U2bl	Shaft	13:04:00.14	37.159915	-116.081744	4,409	-744	Weapons Related	Less than 20 kt	594	
42	Grable	05/25/1953	LANL	NNSS	Area 5	Airburst	15:30:00.00	36.797923	-115.929776	3,077	524	Weapons Related	15 kt	42	
625	Grape A ▀	12/17/1969	LANL	NNSS	U7s	Shaft	15:00:00.04	37.083333	-116.002451	4,268	-1,807	Weapons Related	20 to 200 kt	625	
630	Grape B ▀	02/04/1970	LANL	NNSS	U7v	Shaft	17:00:00.04	37.098028	-116.027355	4,253	-1,819	Weapons Related	20 to 200 kt	630	
483	Greeley ▀	12/20/1966	LLNL	NNSS	U20g	Shaft	15:30:00.08	37.302021	-116.409182	6,470	-3,991	Weapons Related	870 kt	483	
346	Greys ▀	11/22/1963	LLNL	NNSS	U9ax	Shaft	17:30:00.15	37.119274	-116.046042	4,182	-988	Weapons Related	Intermediate	346	
749	Grove ▀	05/22/1974	LLNL	NNSS	U2ds	Shaft	14:15:00.17	37.114758	-116.075575	4,236	-1,031	Weapons Related	Less than 20 kt	749	
339	Grunion ▀	10/11/1963	LANL	NNSS	U3bz	Shaft	14:00:00.11	37.037296	-116.022040	4,002	-857	Weapons Related	Low	339	
816	Gruyere	08/16/1977	LLNL	NNSS	U9cg	Shaft	14:41:00.16	37.145117	-116.049948	4,232	-680	Weapons Related	Less than 20 kt	816	
816	Gruyere-Gradino	08/16/1977	LLNL	NNSS	U9cg	Shaft	14:41:00.16	37.145117	-116.049948	4,232	-1,050	Weapons Related	Less than 20 kt	816	
381	Guanay ▀	09/04/1964	LANL	NNSS	U3di	Shaft	18:15:00.08	37.017527	-116.023574	3,975	-856	Weapons Related	Less than 20 kt	381	
409	Gum Drop	04/21/1965	LLNL/DoD	NNSS	U16a.02	Tunnel	22:00:00.03	37.007111	-116.202949	6,425	-1,000	Weapons Effects	Less than 20 kt	409	
296	Gundi ▀	11/15/1962	LANL	NNSS	U3bm	Shaft	16:30:00.08	37.041705	-116.024740	4,010	-792	Weapons Related	Low	296	
318	Gundi Prime ▀	05/09/1963	LANL	NNSS	U3db	Shaft	18:19:00.00	37.049351	-116.016455	4,043	-892	Weapons Related	Low	318	
59	HA	04/06/1955	LANL	NNSS	Area 1	Airdrop	18:00:00.00	37.028664	-116.058714	4,038	40,000	Weapons Effects	3 kt	59	
380	Haddock	08/28/1964	LANL	NNSS	U3dl	Shaft	17:06:00.04	37.066970	-116.023153	4,097	-1,193	Weapons Related	Less than 20 kt	380	
468	Halfbeak	06/30/1966	LANL	NNSS	U19b	Shaft	22:15:00.07	37.315753	-116.299858	6,792	-2,688	Weapons Related	365 kt	468	
172	Hamilton	10/15/1958	LLNL/DoD	NNSS	Area 5	Tower	16:00:00.00	36.802261	-115.933075	3,080	50	Weapons Related	1.2 tons	172	
390	Handcar	11/05/1964	LLNL	NNSS	U10b	Shaft	15:00:00.11	37.174324	-116.067903	4,375	-1,322	Plowshare	12 kt	390	
358	Handicap ▀	03/12/1964	LLNL	NNSS	U9ba	Shaft	15:00:00.01	37.129888	-116.037207	4,225	-471	Weapons Related	Less than 20 kt	358	
640	Handley	03/26/1970	LLNL	NNSS	U20m	Shaft	19:00:00.20	37.300424	-116.535014	5,903	-3,967	Weapons Related	More than 1 Mt	640	
705	Haplopappus	06/28/1972	LLNL	NNSS	U9ITS W-22	Shaft	16:30:03.16	37.135156	-116.036134	4,237	-605	Weapons Related	Less than 20 kt	705	
210	Hard Hat	02/15/1962	LANL/DoD/ SNL	NNSS	U15a	Shaft	18:00:00.10	37.226214	-116.060187	5,114	-943	Weapons Effects	5.7 kt	210	
995	Hardin	04/30/1987	LLNL	NNSS	U20av	Shaft	13:30:00.09	37.232994	-116.424011	6,464	-2,051	Weapons Related	20 to 150 kt	995	
670	Harebell ▀	06/24/1971	LLNL	NNSS	U2br	Shaft	14:00:00.16	37.146647	-116.067709	4,312	-1,702	Weapons Related	20 to 200 kt	670	
320	Harkee ▀	05/17/1963	LANL	NNSS	U3bv	Shaft	14:55:00.00	37.043860	-116.016502	4,022	-792	Weapons Related	Low	320	
252	Harlem	06/12/1962	LLNL	Christmas Island area	----	Airdrop	15:37:00.00	1.470000	-157.195000	0	13,645	Weapons Related	1.2 Mt	252	
1014	Harlingen-A ▀	08/23/1988	LANL	NNSS	U6g	Shaft	18:30:00.08	36.991132	-116.018872	3,945	-950	Weapons Related	Less than 20 kt	1014	
1014	Harlingen-B	08/23/1988	LANL	NNSS	U6h	Shaft	18:30:00.08	36.988660	-116.018890	3,943	-950	Weapons Related	Less than 20 kt	1014	
41	Harry	05/19/1953	LANL	NNSS	Area 3	Tower	12:05:00.00	37.040342	-116.026241	4,006	300	Weapons Related	32 kt	41	
887	Harzer	06/06/1981	LLNL	NNSS	U19aj	Shaft	18:00:00.08	37.303343	-116.326480	6,891	-2,090	Weapons Related	20 to 150 kt	887	
545	Hatchet ▀	05/03/1968	LANL	NNSS	U3fz	Shaft	16:00:00.04	37.028499	-116.020744	3,987	-789	Weapons Related	Less than 20 kt	545	
304	Hatchie	02/08/1963	LLNL	NNSS	U9e	Shaft	16:00:01.15	37.125912	-116.039518	4,208	-200	Weapons Related	Low	304	
890	Havarti ▀	08/05/1981	LLNL	NNSS	U10bg	Shaft	13:41:00.09	37.153695	-116.035946	4,298	-656	Weapons Related	Less than 20 kt	890	
260	Haymaker ▀	06/27/1962	LANL	NNSS	U3auS	Shaft	18:00:00.12	37.041549	-116.036114	4,014	-1,340	Weapons Related	67 kt	260	
990	Hazebrook-Apricot (Orange)	02/03/1987	LLNL	NNSS	U10bh	Shaft	15:20:00.08	37.181096	-116.049312	4,322	-860	Safety Experiment	Less than 20 kt	990	
990	Hazebrook-Checkerberry (Red)	02/03/1987	LLNL	NNSS	U10bh	Shaft	15:20:00.08	37.181096	-116.049312	4,322	-740	Weapons Related	Less than 20 kt	990	

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990	Hazebrook-Emerald (Green)	02/03/1987	LLNL	NNSS	U10bh	Shaft	15:20:00.08	37.181096	-116.049312	4,322	-610	Weapons Related	Less than 20 kt	990	
860	Hearts ▾	09/06/1979	LANL	NNSS	U4n	Shaft	15:00:00.09	37.088064	-116.053654	4,130	-2,100	Weapons Related	140 kt	860	
495	Heilman	04/06/1967	LLNL	NNSS	U2cg	Shaft	15:00:00.12	37.137276	-116.133552	4,699	-501	Weapons Related	Less than 20 kt	495	
959	Hermosa	04/02/1985	LANL	NNSS	U7bs	Shaft	20:00:00.09	37.094763	-116.033212	4,192	-2,094	Weapons Related	20 to 150 kt	959	
141	Hickory	06/29/1958	LLNL	Bikini Atoll	-----	Barge	24:00:00.00	11.503000	165.374000	0	12	Weapons Related	14 kt	141	
166	Hidalgo	10/05/1958	LANL	NNSS	Area 7	Balloon	14:10:00.00	37.086540	-116.024805	4,186	377	Safety Experiment	77 tons	166	
645	Hod-A (Green) ▾	05/01/1970	LLNL	NNSS	U9ITS X-23	Shaft	14:40:00.17	37.136251	-116.034924	4,248	-790	Weapons Related	Less than 20 kt	645	
645	Hod-B (Red) ▾	05/01/1970	LLNL	NNSS	U9ITS X-20	Shaft	14:40:00.17	37.132952	-116.034948	4,242	-870	Weapons Related	Less than 20 kt	645	
644	Hod-C (Blue)	05/01/1970	LLNL	NNSS	U9ITS Z-25	Shaft	14:25:00.00	37.138431	-116.032162	4,273	-330	Safety Experiment	Less than 20 kt	644	
219	Hognose ▾	03/15/1962	LANL	NNSS	U3ai	Shaft	16:30:00.13	37.043914	-116.031904	4,019	-788	Weapons Related	Low	219	
126	Holly	05/20/1958	LANL	Enewetak Atoll	-----	Barge	18:30:00.00	11.537300	162.347400	0	13	Weapons Related	5.9 kt	126	
93	Hood	07/05/1957	LLNL	NNSS	Area 9	Balloon	11:40:00.00	37.134742	-116.041648	4,230	1,500	Weapons Related	74 kt	93	
360	Hook ▾	04/14/1964	LLNL	NNSS	U9bc	Shaft	14:40:00.15	37.128878	-116.030698	4,274	-670	Weapons Related	Less than 20 kt	360	
394	Hoopoe	12/16/1964	LANL	NNSS	U3cf	Shaft	20:00:00.07	37.048378	-116.034098	4,026	-231	Safety Experiment	Less than 20 kt	394	
220	Hoosic ▾	03/28/1962	LLNL	NNSS	U9j	Shaft	18:00:00.16	37.124271	-116.034746	4,235	-614	Weapons Related	3.4 kt	220	
606	Horehound	08/27/1969	LANL	NNSS	U3gm	Shaft	13:45:00.04	36.992656	-115.996396	3,942	-1,089	Weapons Related	Less than 20 kt	606	
54	Hornet	03/12/1955	LANL	NNSS	Area 3	Tower	13:20:00.00	37.040342	-116.026241	4,007	300	Weapons Related	4 kt	54	
1028	Hornitos	10/31/1989	LLNL	NNSS	U20bc	Shaft	15:30:00.09	37.263049	-116.491615	6,146	-1,850	Weapons Related	20 to 150 kt	1028	
689	Hospah ▾	12/14/1971	LANL	NNSS	U3je	Shaft	21:10:01.04	37.025802	-116.030016	3,987	-991	Weapons Related	Less than 20 kt	689	
901	Hosta	02/12/1982	LANL	NNSS	U19ak	Shaft	15:25:00.09	37.347921	-116.316986	6,898	-2,098	Weapons Related	20 to 150 kt	901	
292	Housatonic	10/30/1962	LLNL	Johnston Island area	-----	Airdrop	16:01:00.00	13.613333	-172.216667	0	12,130	Weapons Related	8.3 Mt	292	
1040	Houston	11/14/1990	LANL/UK	NNSS	U19az	Shaft	19:17:00.07	37.227365	-116.372127	6,753	-1,950	Joint US-UK	20 to 150 kt	1040	
30	How	06/05/1952	LANL	NNSS	Area 2	Tower	11:55:00.00	37.138372	-116.118258	4,492	300	Weapons Related	14 kt	30	
1045	Hoya	09/14/1991	LLNL	NNSS	U20be	Shaft	19:00:00.08	37.225586	-116.429019	6,493	-2,159	Weapons Related	20 to 150 kt	1045	
224	Hudson ▾	04/12/1962	LLNL	NNSS	U9n	Shaft	18:00:00.16	37.127131	-116.045737	4,200	-495	Weapons Related	Low	224	
651	Hudson Moon	05/26/1970	LLNL/DoD	NNSS	U12e.12	Tunnel	14:16:00.17	37.182560	-116.214271	7,550	-1,386	Weapons Effects	Less than 20 kt	651	
564	Hudson Seal	09/24/1968	LLNL/DoD	NNSS	U12n.04	Tunnel	17:05:01.09	37.204715	-116.207275	7,200	-1,130	Weapons Effects	Less than 20 kt	564	
568	Hula ▾	10/29/1968	LLNL	NNSS	U9bu	Shaft	15:36:08.60	37.113212	-116.041804	4,202	-651	Weapons Related	Less than 20 kt	568	
744	Hulsea	03/14/1974	LLNL	NNSS	U2bx	Shaft	17:00:00.17	37.155082	-116.064966	4,319	-640	Weapons Related	Less than 20 kt	744	
190	Humboldt	10/29/1958	LLNL/DoD	NNSS	Area 3	Tower	14:45:00.00	37.047565	-116.025425	4,029	25	Weapons Related	7.8 tons	190	
1053	Hunters Trophy	09/18/1992	LLNL/DoD	NNSS	U12n.24	Tunnel	17:00:00.08	37.206877	-116.210853	7,346	-1,264	Weapons Effects	Less than 20 kt	1053	
526	Hupmobile ▾	01/18/1968	LLNL	NNSS	U2y	Shaft	16:30:00.13	37.145534	-116.066548	4,310	-810	Weapons Effects	7.4 kt	526	
85	Huron	07/21/1956	LANL	Enewetak Atoll	-----	Barge	18:16:00.00	11.677817	162.204974	0	15	Weapons Related	250 kt	85	
873	Huron King ▾	06/24/1980	LANL/DoD	NNSS	U3ky	Shaft	15:10:00.07	37.023247	-116.035005	3,985	-1,050	Weapons Effects	Less than 20 kt	873	
913	Huron Landing	09/23/1982	LANL/DoD	NNSS	U12n.15	Tunnel	16:00:00.09	37.211973	-116.207639	7,417	-1,339	Weapons Effects	Less than 20 kt	913	
736	Husky Ace	10/12/1973	LANL/DoD	NNSS	U12n.07	Tunnel	17:00:00.08	37.200338	-116.204063	7,430	-1,364	Weapons Effects	Less than 20 kt	736	
781	Husky Pup	10/24/1975	LLNL/DoD	NNSS	U12t.03	Tunnel	17:11:26.09	37.221588	-116.180561	6,703	-1,076	Weapons Effects	Less than 20 kt	781	
604	Hutch ▾	07/16/1969	LLNL	NNSS	U2df	Shaft	14:55:00.04	37.139465	-116.088314	4,354	-1,798	Weapons Related	20 to 200 kt	604	
327	Hutia ▾	06/06/1963	LANL	NNSS	U3bc	Shaft	14:00:00.13	37.044236	-116.037230	4,019	-442	Weapons Related	Low	327	
761	Hybla Fair	10/28/1974	LLNL/DoD	NNSS	U12n.09	Tunnel	15:00:00.17	37.201085	-116.204811	7,394	-1,325	Weapons Effects	Less than 20 kt	761	

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823	Hybla Gold	11/01/1977	LANL/DoD	NNSS	U12e.20	Tunnel	18:06:00.07	37.187733	-116.213832	7,434	-1,263	Weapons Effects	Less than 20 kt	823
277	Hyrax ▀	09/14/1962	LANL	NNSS	U3bh	Shaft	17:10:00.12	37.043888	-116.021981	4,017	-711	Weapons Related	Low	277
832	Iceberg ▀	03/23/1978	LANL	NNSS	U4g	Shaft	16:30:00.20	37.101729	-116.052018	4,152	-2,101	Weapons Related	20 to 150 kt	832
603	Ildrim ▀	07/16/1969	LLNL	NNSS	U2au	Shaft	13:02:30.04	37.119384	-116.055988	4,209	-1,346	Weapons Related	20 to 200 kt	603
557	Imp ▀	08/09/1968	LLNL	NNSS	U2bj	Shaft	13:00:00.00	37.161740	-116.078057	4,399	-586	Weapons Related	Less than 20 kt	557
79	Inca	06/21/1956	LLNL	Enewetak Atoll	-----	Tower	21:56:00.00	11.629300	162.285000	10	200	Weapons Related	15.2 kt	79
1022	Ingot	03/09/1989	LLNL	NNSS	U2gg	Shaft	14:05:00.09	37.142791	-116.067808	4,289	-1,640	Weapons Related	20 to 150 kt	1022
784	Inlet	11/20/1975	LANL	NNSS	U19f	Shaft	15:00:00.09	37.224903	-116.368447	6,734	-2,685	Weapons Related	200 to 1,000 kt	784
599	Ipecac-A	05/27/1969	LANL	NNSS	U3hk-a	Shaft	14:00:00.04	37.014942	-116.003044	3,965	-407	Safety Experiment	Less than 20 kt	699
599	Ipecac-B	05/27/1969	LANL	NNSS	U3hk-b	Shaft	14:00:00.04	37.014793	-116.000993	3,968	-408	Safety Experiment	Less than 20 kt	599
891	Islay ▀	08/27/1981	LLNL	NNSS	U2er	Shaft	14:31:00.09	37.160368	-116.067395	4,342	-965	Weapons Related	Less than 20 kt	891
15	Item	05/24/1951	LANL	Enewetak Atoll	-----	Tower	18:17:00.00	11.669300	162.241500	10	200	Weapons Related	45.5 kt	15
421	Izzer ▀	07/16/1965	LLNL	NNSS	U9bp	Shaft	13:04:24.10	37.114951	-116.033044	4,264	-537	Weapons Related	Less than 20 kt	421
837	Jackpots	06/01/1978	LANL	NNSS	U3kj	Shaft	17:00:00.08	37.020598	-116.032814	3,979	-998	Weapons Related	Less than 20 kt	837
638	Jai ▀	03/19/1970	LANL	NNSS	U3hh	Shaft	14:03:30.34	37.001047	-116.023716	3,955	-989	Weapons Related	Less than 20 kt	638
751	Jara ▀	06/06/1974	LANL	NNSS	U3hp	Shaft	14:40:00.08	37.003797	-116.024378	3,960	-1,240	Weapons Related	Less than 20 kt	751
929	Jarlsberg ▀	08/27/1983	LLNL	NNSS	U10ca	Shaft	14:00:00.09	37.192891	-116.034909	4,411	-655	Weapons Related	Less than 20 kt	929
978	Jefferson	04/22/1986	LLNL	NNSS	U20ai	Shaft	14:30:00.09	37.264063	-116.441091	6,503	-1,992	Weapons Related	20 to 150 kt	978
310	Jerboa ▀	03/01/1963	LANL	NNSS	U3at	Shaft	19:00:00.12	37.044463	-116.027363	4,016	-988	Weapons Related	Low	310
748	Jib	05/08/1974	LANL	NNSS	U3hb	Shaft	16:55:00.09	37.000933	-116.002487	3,951	-592	Weapons Related	Less than 20 kt	748
697	Jicarilla	04/19/1972	LANL	NNSS	U3jm	Shaft	16:42:00.05	37.006567	-116.017474	3,960	-486	Weapons Related	Less than 20 kt	697
95	John	07/19/1957	LANL/DoD	NNSS	Area 10	Rocket	14:00:00.00	37.160350	-116.053805	4,280	14,830	Weapons Effects	About 2 kt	95
269	Johnnie Boy	07/11/1962	LLNL/DoD	NNSS	U18j2	Crater	16:45:00.09	37.122150	-116.333947	5,066	-23	Weapons Effects	500 tons	269
899	Jornada ▀	01/28/1982	LANL	NNSS	U4j	Shaft	16:00:00.10	37.091295	-116.052102	4,134	-2,096	Weapons Related	139 kt	899
610	Jorum	09/16/1969	LLNL	NNSS	U20e	Shaft	14:30:00.04	37.314092	-116.461577	6,316	-3,802	Weapons Related	Less than 1 Mt	610
1049	Junction	03/26/1992	LANL	NNSS	U19bg	Shaft	16:30:00.00	37.272398	-116.360660	6,694	-2,041	Weapons Related	20 to 150 kt	1049
148	Juniper	07/22/1958	LLNL	Bikini Atoll	-----	Barge	04:20:00.00	11.503000	165.374000	0	12	Weapons Related	65 kt	148
183	Juno	10/24/1958	LLNL	NNSS	S9f	Surface	16:01:00.00	37.123250	-116.038650	4,210	0	Safety Experiment	1.7 tons	183
466	Kankakee ▀	06/15/1966	LLNL	NNSS	U10p	Shaft	18:02:47.13	37.171487	-116.049744	4,292	-1,492	Weapons Related	20 to 200 kt	466
947	Kappeli	07/25/1984	LLNL	NNSS	U20am	Shaft	15:30:00.08	37.267711	-116.411530	6,593	-2,100	Weapons Related	20 to 150 kt	947
699	Kara	05/11/1972	LLNL	NNSS	U2dh #3	Shaft	14:00:00.16	37.112445	-116.085367	4,247	-850	Weapons Related	Less than 20 kt	699
830	Karab ▀	03/16/1978	LLNL	NNSS	U4ah	Shaft	15:00:00.07	37.085125	-116.082490	4,182	-1,086	Weapons Related	Less than 20 kt	830
872	Kash	06/12/1980	LLNL	NNSS	U20af	Shaft	17:15:00.09	37.281604	-116.454743	6,360	-2,116	Weapons Related	20 to 150 kt	872
728	Kashan ▀	05/24/1973	LLNL	NNSS	U10av	Shaft	13:30:00.16	37.162182	-116.056845	4,278	-870	Weapons Related	Less than 20 kt	728
782	Kasseri	10/28/1975	LLNL	NNSS	U20z	Shaft	14:30:00.16	37.289997	-116.412434	6,509	-4,150	Weapons Related	200 to 1,000 kt	782
308	Kaweah ▀	02/21/1963	LLNL	NNSS	U9ab	Shaft	19:47:00.14	37.120269	-116.046582	4,187	-745	Plowshare	3 kt	308
1018	Kawich A-Blue	12/09/1988	LLNL	NNSS	U8n	Shaft	15:15:00.08	37.175270	-116.092609	4,542	-1,260	Safety Experiment	Less than 20 kt	1018
1018	Kawich A-White	12/09/1988	LLNL	NNSS	U8n	Shaft	15:15:00.08	37.175270	-116.092609	4,542	-1,210	Safety Experiment	Less than 20 kt	1018
1021	Kawich-Black ▀	02/24/1989	LLNL	NNSS	U2cu	Shaft	16:15:00.08	37.128444	-116.122829	4,526	-1,415	Safety Experiment	Less than 20 kt	1021
1021	Kawich-Red ▀	02/24/1989	LLNL	NNSS	U2cu	Shaft	16:15:00.08	37.128444	-116.122829	4,526	-1,215	Weapons Related	Less than 20 kt	1021

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1013	Kearsarge	08/17/1988	LLNL	NNSS	U19ax	Shaft	17:00:00.09	37.297104	-116.307420	6,986	-2,020	Weapons Related	100 to 150 kt	1013
764	Keel ▾	12/16/1974	LANL	NNSS	U3hu	Shaft	17:30:00.09	37.011253	-116.018496	3,966	-1,000	Weapons Related	Less than 20 kt	764
788	Keelson ▾	02/04/1976	LANL	NNSS	U7ai	Shaft	14:20:00.11	37.069209	-116.031028	4,084	-2,098	Weapons Related	20 to 200 kt	788
331	Kennebec ▾	06/25/1963	LLNL	NNSS	U2af	Shaft	23:00:00.15	37.131351	-116.068934	4,275	-742	Weapons Related	Low	331
96	Kepler	07/24/1957	LANL	NNSS	Area 4	Tower	11:50:00.00	37.095488	-116.103616	4,309	500	Weapons Related	10 kt	96
432	Kermet ▾	11/23/1965	LLNL	NNSS	U2c	Shaft	18:17:32.10	37.161846	-116.071790	4,368	-644	Weapons Related	Less than 20 kt	432
1005	Kernville	02/15/1988	LLNL	NNSS	U20ar	Shaft	18:10:00.09	37.314382	-116.472374	6,319	-1,777	Weapons Related	20 to 150 kt	1005
906	Kesti	06/16/1982	LLNL	NNSS	U9cn	Shaft	14:00:00.08	37.114180	-116.017448	4,391	-945	Weapons Related	Less than 20 kt	906
407	Kestrel ▾	04/05/1965	LANL	NNSS	U3dd	Shaft	21:00:00.04	37.025767	-116.023511	3,985	-1,466	Weapons Related	Less than 20 kt	407
475	Khaki	10/15/1966	LANL	NNSS	U3et	Shaft	19:00:00.05	37.047027	-116.017846	4,031	-763	Weapons Related	Less than 20 kt	475
77	Kickapoo	06/13/1956	LLNL	Enewetak Atoll	-----	Tower	23:26:00.00	11.623857	162.318780	10	300	Weapons Related	1.49 kt	77
32	King	11/15/1952	LANL	Enewetak Atoll	-----	Airdrop	23:30:00.00	11.558800	162.345400	0	1,480	Weapons Related	500 kt	32
293	Kingfish	11/01/1962	LANL/DoD	Johnston Island area	-----	Rocket	12:10:00.00	16.113503	-169.680561	0	tens of miles	Weapons Effects	Submegaton	293
973	Kinibito ▾	12/05/1985	LANL/UK	NNSS	U3me	Shaft	15:00:00.07	37.053219	-116.046237	4,052	-1,901	Joint US-UK	20 to 150 kt	973
357	Klickitat ▾	02/20/1964	LLNL	NNSS	U10e	Shaft	15:30:00.15	37.150838	-116.040983	4,266	-1,613	Plowshare	70 kt	357
851	Kloster ▾	02/15/1979	LLNL	NNSS	U2eo	Shaft	18:05:00.16	37.151962	-116.072708	4,344	-1,760	Weapons Related	20 to 150 kt	851
503	Knickerbocker	05/26/1967	LLNL	NNSS	U20d	Shaft	15:00:01.50	37.247887	-116.481068	6,252	-2,075	Weapons Related	76 kt	503
562	Knife A	09/12/1968	LANL	NNSS	U3fb	Shaft	14:00:00.04	37.031750	-116.012497	3,994	-1,089	Weapons Related	Less than 20 kt	562
574	Knife B ▾	11/15/1968	LANL	NNSS	U3dz	Shaft	15:45:00.04	37.026099	-116.034128	3,987	-1,191	Weapons Related	Less than 20 kt	574
566	Knife C ▾	10/03/1968	LANL	NNSS	U3er	Shaft	14:29:00.04	37.025877	-115.993703	4,030	-989	Weapons Related	Less than 20 kt	566
533	Knox ▾	02/21/1968	LLNL	NNSS	U2at	Shaft	15:30:00.00	37.116509	-116.054567	4,199	-2,116	Weapons Related	20 to 200 kt	533
124	Koa	05/12/1958	LANL	Enewetak Atoll	-----	Surface	18:30:00.00	11.670990	162.198652	5	3	Weapons Related	1.37 Mt	124
334	Kohocton	08/23/1963	LLNL	NNSS	U9ak	Shaft	13:20:00.15	37.124914	-116.036257	4,267	-836	Weapons Related	Low	334
46	Koon	04/06/1954	LLNL	Bikini Atoll	-----	Surface	18:20:00.00	11.503166	165.369450	10	14	Weapons Related	110 kt	46
316	Kootanai ▾	04/24/1963	LLNL	NNSS	U9w	Shaft	16:09:30.14	37.120549	-116.037147	4,225	-597	Weapons Related	Low	316
904	Kryddost	05/06/1982	LLNL	NNSS	U2co	Shaft	20:00:00.08	37.116792	-116.127779	4,562	-1,100	Weapons Related	Less than 20 kt	904
611	Kyack-A ▾	09/20/1969	LLNL	NNSS	U2bq1	Shaft	14:30:00.04	37.158699	-116.068599	4,342	-630	Weapons Related	Less than 20 kt	611
611	Kyack-B ▾	09/20/1969	LLNL	NNSS	U2bq2	Shaft	14:30:00.04	37.157372	-116.067041	4,331	-610	Weapons Related	Less than 20 kt	611
927	Laban ▾	08/03/1983	LLNL	NNSS	U2ff	Shaft	13:33:00.10	37.118948	-116.089777	4,275	-1,070	Weapons Related	Less than 20 kt	927
632	Labis	02/05/1970	LLNL	NNSS	U10an	Shaft	15:00:00.04	37.163914	-116.039702	4,308	-1,450	Weapons Related	25 kt	632
986	Labquark	09/30/1986	LLNL	NNSS	U19an	Shaft	22:30:00.10	37.300029	-116.308310	6,978	-2,020	Weapons Related	20 to 150 kt	986
69	Lacrosse	05/04/1956	LANL	Enewetak Atoll	-----	Surface	18:25:00.00	11.553878	162.348050	17	0	Weapons Related	40 kt	69
684	Lagoon ▾	10/14/1971	LLNL	NNSS	U10ar	Shaft	14:30:00.16	37.179733	-116.053961	4,307	-1,000	Weapons Related	Less than 20 kt	684
669	Laguna ▾	06/23/1971	LANL	NNSS	U3fd	Shaft	15:30:00.04	37.021919	-116.023540	3,981	-1,493	Weapons Related	20 to 200 kt	669
437	Lampblack	01/18/1966	LANL	NNSS	U7i	Shaft	18:35:00.04	37.091654	-116.019550	4,246	-1,842	Weapons Related	20 to 200 kt	437
518	Lanpher ▾	10/18/1967	LLNL	NNSS	U2x	Shaft	14:30:00.08	37.115537	-116.058505	4,206	-2,346	Weapons Related	20 to 200 kt	518
109	Laplace	09/08/1957	LANL	NNSS	Area 7	Balloon	13:00:00.00	37.086540	-116.024805	4,186	750	Weapons Related	1 kt	109
1008	Laredo ▾	05/21/1988	LANL	NNSS	U3mh	Shaft	22:30:00.14	37.032437	-115.988170	4,092	-1,153	Weapons Related	Less than 150 kt	1008
89	Lassen	06/05/1957	LLNL	NNSS	Area 9	Balloon	11:45:00.00	37.134742	-116.041648	4,230	500	Weapons Related	0.5 tons	89
743	Latir ▾	02/27/1974	LANL	NNSS	U4d	Shaft	17:00:00.09	37.104210	-116.053709	4,167	-2,102	Weapons Related	20 to 200 kt	743

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170	Lea	10/13/1958	LANL	NNSS	Area 7	Balloon	13:20:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	1.4 kt	170
1038	Ledoux	09/27/1990	LANL	NNSS	U1a.01	Shaft	18:02:46.00	37.007098	-116.059089	3,995	-955	Weapons Related	Less than 20 kt	1038
512	Lexington	08/24/1967	LLNL	NNSS	U2bm	Shaft	13:30:00.00	37.162684	-116.075033	4,386	-743	Weapons Related	Less than 20 kt	512
785	Leyden	11/26/1975	LLNL	NNSS	U9cm	Shaft	15:30:00.16	37.117214	-116.019751	4,363	-1,070	Weapons Related	Less than 20 kt	785
448	Lime	04/01/1966	LANL	NNSS	U7j	Shaft	18:40:00.04	37.102659	-116.020804	4,326	-1,842	Weapons Related	Less than 20 kt	448
137	Linden	06/18/1958	LANL	Enewetak Atoll	----	Barge	03:00:00.00	11.608900	162.321300	0	8	Weapons Related	11 kt	137
375	Links	07/23/1964	LLNL	NNSS	U9bf	Shaft	13:30:00.15	37.113711	-116.032882	4,265	-395	Weapons Related	Less than 20 kt	375
867	Liptauer	04/03/1980	LLNL	NNSS	U2eh	Shaft	14:00:00.09	37.149828	-116.083132	4,368	-1,368	Weapons Related	20 to 150 kt	867
272	Little Feller I	07/17/1962	SNL/DoD	NNSS	Area 18	Surface	17:00:00.00	37.109551	-116.318154	5,178	3	Weapons Effects	Low	272
265	Little Feller II	07/07/1962	SNL/DoD	NNSS	Area 18	Surface	17:00:00.00	37.119142	-116.303697	5,136	3	Weapons Effects	Low	265
1001	Lockney	09/24/1987	LANL	NNSS	U19aq	Shaft	15:00:00.06	37.227939	-116.375590	6,799	-2,015	Weapons Related	20 to 150 kt	1001
173	Logan	10/16/1958	LLNL	NNSS	U12e.02	Tunnel	06:00:00.14	37.184127	-116.201996	7,071	-930	Weapons Related	5 kt	173
430	Long Shot	10/29/1965	LANL/DoD	Amchitka, Alaska	----	Shaft	21:00:00.08	51.436120	179.179220	125	-2,297	Vela Uniform	80 kt	430
696	Longchamps	04/19/1972	LLNL	NNSS	U2dm	Shaft	16:32:00.16	37.121890	-116.084712	4,275	-1,071	Weapons Related	Less than 20 kt	696
626	Lovage	12/17/1969	LANL	NNSS	U3fe	Shaft	15:15:00.04	37.006540	-116.023673	3,963	-1,240	Weapons Related	Less than 20 kt	626
839	Lowball	07/12/1978	LANL	NNSS	U7av	Shaft	17:00:00.08	37.078621	-116.044656	4,109	-1,853	Weapons Related	20 to 150 kt	839
1047	Lubbock	10/18/1991	LANL	NNSS	U3mt	Shaft	19:12:00.00	37.063384	-116.046158	4,067	-1,500	Weapons Related	20 to 150 kt	1047
161	Luna	09/21/1958	LANL	NNSS	U3m	Shaft	19:00:00.00	37.049193	-116.034571	4,028	-484	Safety Experiment	1.5 tons	161
356	Mackerel	02/18/1964	LANL	NNSS	U4b	Shaft	15:37:37.12	37.095580	-116.051591	4,145	-1,095	Weapons Related	Less than 20 kt	356
202	Mad	12/13/1961	LLNL	NNSS	U9a	Shaft	18:00:00.16	37.126555	-116.049629	4,204	-596	Weapons Related	500 tons	202
300	Madison	12/12/1962	LLNL	NNSS	U12g.01	Tunnel	17:25:00.12	37.168631	-116.206954	7,490	-1,320	Weapons Related	Low	300
129	Magnolia	05/26/1958	LANL	Enewetak Atoll	----	Barge	18:00:00.00	11.535000	162.345000	0	14	Weapons Related	57 kt	129
531	Mallet	01/31/1968	LANL	NNSS	U3fv	Shaft	15:30:00.04	37.000975	-116.010018	3,951	-788	Weapons Related	Less than 20 kt	531
302	Manatee	12/14/1962	LLNL	NNSS	U9af	Shaft	18:00:00.16	37.124194	-116.040829	4,202	-196	Weapons Related	Low	302
917	Manteca	12/10/1982	LLNL	NNSS	U4al	Shaft	15:20:00.09	37.080135	-116.072758	4,144	-1,350	Weapons Related	20 to 150 kt	917
649	Manzanas	05/21/1970	LANL	NNSS	U3gr	Shaft	14:00:00.04	37.012140	-115.992813	4,008	-790	Weapons Related	Less than 20 kt	649
134	Maple	06/10/1958	LLNL	Bikini Atoll	----	Barge	17:30:00.00	11.693940	165.416375	0	12	Weapons Related	213 kt	134
964	Maribo	06/26/1985	LLNL	NNSS	U2cs	Shaft	18:03:00.08	37.124049	-116.122860	4,526	-1,250	Weapons Related	Less than 20 kt	964
164	Mars	09/28/1958	LLNL	NNSS	U12f.02	Tunnel	00:00:00.00	37.193049	-116.201457	6,845	-125	Safety Experiment	13 tons	164
780	Marsh	09/06/1975	LANL	NNSS	U3kb	Shaft	17:00:00.11	37.023603	-116.029178	3,983	-1,402	Weapons Related	Less than 20 kt	780
261	Marshmallow	06/28/1962	LLNL/DoD	NNSS	U16a	Tunnel	17:00:00.11	37.009057	-116.201913	6,439	-1,020	Weapons Effects	Low	261
810	Marsilly	04/05/1977	LLNL	NNSS	U2el	Shaft	15:00:00.17	37.120187	-116.063150	4,220	-2,260	Weapons Related	20 to 150 kt	810
516	Marvel	09/21/1967	LLNL	NNSS	U10dS1	Shaft	20:45:00.00	37.165768	-116.039213	4,312	-577	Plowshare	2.2 kt	516
778	Mast	06/19/1975	LANL	NNSS	U19u	Shaft	13:00:00.09	37.350295	-116.321103	6,873	-2,988	Weapons Related	200 to 1,000 kt	778
330	Mataco	06/14/1963	LANL	NNSS	U3bk	Shaft	14:10:00.13	37.046073	-116.019218	4,026	-642	Weapons Related	Low	330
424	Mauve	08/06/1965	LANL	NNSS	U3dp	Shaft	17:23:30.04	37.017616	-116.040704	3,978	-1,053	Weapons Related	Less than 20 kt	424
436	Maxwell	01/13/1966	LLNL	NNSS	U9br	Shaft	15:37:43.10	37.116165	-116.028403	4,298	-600	Weapons Related	Less than 20 kt	436
189	Mazama	10/29/1958	LLNL	NNSS	Area 9	Tower	11:20:00.00	37.126459	-116.041931	4,202	50	Weapons Related	Zero	189
852	Memory	03/14/1979	LANL	NNSS	U3kq	Shaft	18:30:00.10	37.027781	-116.040620	3,995	-1,197	Weapons Related	Less than 20 kt	852
162	Mercury	09/23/1958	LLNL	NNSS	U12f.01	Tunnel	22:00:00.00	37.193429	-116.201671	6,903	-183	Safety Experiment	1 gram	162

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702	Merida ▀	06/07/1972	LLNL	NNSS	U2dn	Shaft	15:20:00.16	37.115841	-116.086199	4,258	-670	Weapons Related	Less than 20 kt	702
401	Merlin ▀	02/16/1965	LANL	NNSS	U3ct	Shaft	17:30:00.04	37.051593	-116.024664	4,038	-972	Weapons Related	10.1 kt	401
270	Merrimac ▀	07/13/1962	LLNL	NNSS	U3bd	Shaft	16:00:00.15	37.055018	-116.034262	4,041	-1,356	Weapons Related	Intermediate	270
691	Mescalero	01/05/1972	LANL	NNSS	U3gu	Shaft	15:10:00.04	37.045609	-116.030413	4,020	-394	Weapons Related	Less than 20 kt	691
235	Mesilla	05/09/1962	LANL	Christmas Island area	-----	Airdrop	17:01:00.00	1.565000	-157.365000	0	2,450	Weapons Related	100 kt	235
725	Mesita	05/09/1973	LANL	NNSS	U3jd	Shaft	13:30:00.04	37.006221	-116.016942	3,960	-490	Weapons Related	Less than 20 kt	725
61	MET	04/15/1955	LANL/DoD	NNSS	Area 5	Tower	19:15:00.00	36.797923	-115.929776	3,078	400	Weapons Effects	22 kt	61
1032	Metropolis	03/10/1990	LLNL	NNSS	U2gh	Shaft	16:00:00.08	37.112457	-116.056047	4,177	-1,540	Weapons Related	20 to 150 kt	1032
499	Mickey ▀	05/10/1967	LANL	NNSS	U7m	Shaft	13:40:00.04	37.077804	-115.996158	4,280	-1,639	Weapons Related	20 to 200 kt	499
938	Midas Myth/Milagro ▀	02/15/1984	LANL/DoD	NNSS	U12t.04	Tunnel	17:00:00.11	37.221336	-116.181950	6,804	-1,184	Weapons Effects	Less than 20 kt	938
992	Middle Note	03/18/1987	LLNL/DoD	NNSS	U12n.21	Tunnel	18:28:00.09	37.210189	-116.209439	7,383	-1,308	Weapons Effects	Less than 20 kt	992
505	Midi Mist	06/26/1967	LLNL/DoD	NNSS	U12n.02	Tunnel	16:00:00.08	37.202059	-116.208708	7,306	-1,237	Weapons Effects	Less than 20 kt	505
999	Midland	07/16/1987	LANL/UK	NNSS	U7by	Shaft	19:00:00.08	37.103504	-116.024223	4,300	-1,597	Joint US-UK	20 to 150 kt	999
719	Miera ▀	03/08/1973	LANL	NNSS	U7ad	Shaft	16:10:00.19	37.103545	-116.027600	4,285	-1,865	Weapons Related	20 to 200 kt	719
797	Mighty Epic	05/12/1976	LLNL/DoD	NNSS	U12n.10	Tunnel	19:50:00.17	37.209010	-116.213330	7,378	-1,306	Weapons Effects	Less than 20 kt	797
976	Mighty Oak	04/10/1986	LLNL/DoD	NNSS	U12t.08	Tunnel	14:08:30.10	37.218276	-116.183982	6,915	-1,294	Weapons Effects	Less than 20 kt	976
31	Mike	10/31/1952	LANL	Enewetak Atoll	-----	Surface	19:15:00.00	11.667000	162.189900	10	7	Weapons Related	10.4 Mt	31
539	Milk Shake	03/25/1968	LLNL/DoD	NNSS	U5k	Shaft	18:44:27.04	36.871674	-115.931994	3,349	-868	Weapons Effects	Less than 20 kt	539
969	Mill Yard	10/09/1985	LANL/DoD	NNSS	U12n.20	Tunnel	21:40:00.13	37.209113	-116.205988	7,304	-1,217	Weapons Effects	Less than 20 kt	969
613	Milrow	10/02/1969	LANL	Amchitka, Alaska	-----	Shaft	22:06:00.04	51.415670	179.179870	130	-4,003	Weapons Related	About 1 Mt	613
1036	Mineral Quarry	07/25/1990	LLNL/DoD	NNSS	U12n.22	Tunnel	15:00:00.06	37.206822	-116.215129	7,359	-1,278	Weapons Effects	Less than 20 kt	1036
956	Minero ▀	12/20/1984	LANL	NNSS	U3lt	Shaft	16:20:00.11	37.011898	-116.045573	3,985	-803	Weapons Related	Less than 20 kt	956
879	Miners Iron	10/31/1980	LANL/DoD	NNSS	U12n.11	Tunnel	18:00:00.09	37.211210	-116.206250	7,354	-1,278	Weapons Effects	Less than 20 kt	879
752	Ming Blade	06/19/1974	LANL/DoD	NNSS	U12n.08	Tunnel	16:00:00.08	37.210258	-116.208127	7,344	-1,272	Weapons Effects	Less than 20 kt	752
575	Ming Vase	11/20/1968	LANL/DoD	NNSS	U16a.04	Tunnel	18:00:00.03	37.009784	-116.207296	6,445	-1,010	Weapons Effects	Less than 20 kt	575
924	Mini Jade	05/26/1983	LANL/DoD	NNSS	U12n.12	Tunnel	14:30:00.09	37.208676	-116.205904	7,330	-1,244	Weapons Effects	Less than 20 kt	924
673	Miniatu ▀	07/08/1971	LLNL	NNSS	U2bu	Shaft	14:00:00.08	37.110078	-116.052290	4,179	-1,735	Plowshare	83 kt	673
199	Mink ▀	10/29/1961	LANL	NNSS	U3ae	Shaft	18:30:00.13	37.048520	-116.031965	4,028	-630	Weapons Related	Low	199
367	Minnow ▀	05/15/1964	LANL	NNSS	U3cv	Shaft	16:15:00.12	37.041639	-116.013094	4,022	-792	Weapons Related	Less than 20 kt	367
646	Mint Leaf	05/05/1970	LLNL/DoD	NNSS	U12t.01	Tunnel	15:30:00.17	37.216486	-116.184897	6,957	-1,330	Weapons Effects	Less than 20 kt	646
609	Minute Steak ▀	09/12/1969	LLNL/DoD	NNSS	U11f	Shaft	18:02:20.42	36.877168	-115.929364	3,393	-868	Weapons Effects	Less than 20 kt	609
1004	Mission Cyber	12/02/1987	LLNL/DoD	NNSS	U12p.02	Tunnel	16:30:00.08	37.234603	-116.164246	6,407	-888	Weapons Effects	Less than 20 kt	1004
997	Mission Ghost	06/20/1987	LANL/DoD	NNSS	U12t.09	Tunnel	16:00:00.18	37.219905	-116.178662	6,689	-1,054	Weapons Effects	Less than 20 kt	997
281	Mississippi ▀	10/05/1962	LLNL	NNSS	U9ad	Shaft	17:00:00.16	37.139355	-116.051195	4,234	-1,622	Weapons Related	115 kt	281
1019	Misty Echo	12/10/1988	LANL/DoD	NNSS	U12n.23	Tunnel	20:30:00.06	37.198995	-116.210314	7,413	-1,312	Weapons Effects	Less than 150 kt	1019
698	Misty North	05/02/1972	LANL/DoD	NNSS	U12n.05	Tunnel	19:15:00.04	37.207611	-116.209613	7,303	-1,234	Weapons Effects	Less than 20 kt	698
960	Misty Rain	04/06/1985	LLNL/DoD	NNSS	U12n.17	Tunnel	23:15:00.09	37.200782	-116.208047	7,345	-1,275	Weapons Effects	Less than 20 kt	960
775	Mizzen ▀	06/03/1975	LANL	NNSS	U7ah	Shaft	14:40:00.11	37.094783	-116.036976	4,180	-2,090	Weapons Related	20 to 200 kt	775
427	Moa ▀	09/01/1965	LANL	NNSS	U3ed	Shaft	20:08:00.04	37.037256	-116.014845	4,005	-635	Weapons Related	Less than 20 kt	427
977	Mogollon ▀	04/20/1986	LANL	NNSS	U3li	Shaft	15:12:30.07	37.011608	-116.046918	3,985	-851	Weapons Related	Less than 20 kt	977

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81	Mohawk	07/02/1956	LLNL	Enewetak Atoll	- - -	Tower	18:06:00.00	11.627589	162.295691	10	300	Weapons Related	360 kt	81	
900	Molbo	02/12/1982	LLNL	NNSS	U20ag	Shaft	14:55:00.08	37.224276	-116.463540	6,234	-2,093	Weapons Related	20 to 150 kt	900	
1017	Monahans-A ▾	11/09/1988	LANL	NNSS	U3ik	Shaft	20:15:00.08	36.991144	-116.021947	3,945	-951	Weapons Related	Less than 20 kt	1017	
1017	Monahans-B	11/09/1988	LANL	NNSS	U6i	Shaft	20:15:00.08	36.988677	-116.021971	3,942	-951	Weapons Related	Less than 20 kt	1017	
701	Monero	05/19/1972	LANL	NNSS	U3jq	Shaft	17:00:00.05	37.064656	-116.002614	4,175	-1,763	Weapons Related	Less than 20 kt	701	
1043	Montello	04/16/1991	LLNL	NNSS	U20bf	Shaft	15:30:00.07	37.245385	-116.442525	6,522	-2,105	Weapons Related	20 to 150 kt	1043	
908	Monterey ▾	07/29/1982	LLNL	NNSS	U4aj	Shaft	20:05:00.08	37.102259	-116.075843	4,200	-1,312	Weapons Related	20 to 150 kt	908	
165	Mora	09/29/1958	LANL	NNSS	Area 7	Balloon	14:05:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	2 kt	165	
115	Morgan	10/07/1957	LLNL	NNSS	Area 9	Balloon	13:00:00.00	37.134742	-116.041648	4,214	500	Weapons Related	8 kt	115	
650	Morrones	05/21/1970	LANL	NNSS	U3ei	Shaft	14:15:00.03	37.070762	-116.013873	4,148	-1,584	Weapons Related	20 to 200 kt	650	
51	Moth	02/22/1955	LANL	NNSS	Area 3	Tower	13:45:00.00	37.095488	-116.103616	4,026	300	Weapons Related	2 kt	51	
395	Mudpack ▾	12/16/1964	LLNL/DoD	NNSS	U10n	Shaft	20:10:00.10	37.177757	-116.067879	4,386	-498	Weapons Effects	2.7 kt	395	
787	Muenster	01/03/1976	LLNL	NNSS	U19e	Shaft	19:15:00.16	37.296498	-116.334072	6,919	-4,765	Weapons Related	200 to 1,000 kt	787	
935	Muggins ▾	12/09/1983	LANL	NNSS	U3ls	Shaft	16:00:00.11	37.012705	-116.046567	3,987	-800	Weapons Related	Less than 20 kt	935	
1029	Muleshoe	11/15/1989	LANL	NNSS	U7bk	Shaft	20:20:00.12	37.106469	-116.014246	4,391	-802	Weapons Related	Less than 20 kt	1029	
342	Mullet	10/17/1963	LLNL	NNSS	U2ag	Shaft	15:00:00.15	37.130761	-116.067831	4,270	-198	Safety Experiment	Low	342	
941	Mundo ▾	05/01/1984	LANL/UK	NNSS	U7bo	Shaft	19:05:00.09	37.106175	-116.023250	4,328	-1,857	Joint US-UK	20 to 150 kt	941	
411	Muscovy ▾	04/23/1965	LANL	NNSS	U3dx	Shaft	21:44:00.04	37.017373	-115.996175	3,991	-592	Weapons Related	Less than 20 kt	411	
492	Mushroom ▾	03/03/1967	LANL	NNSS	U3ef	Shaft	15:19:00.04	37.039433	-116.011061	4,019	-589	Weapons Related	Less than 20 kt	492	
237	Muskegon	05/11/1962	LLNL	Christmas Island area	- - -	Airdrop	15:37:00.00	1.565000	-157.365000	0	2,995	Weapons Related	50 kt	237	
345	Mustang ▾	11/15/1963	LLNL	NNSS	U9at	Shaft	15:00:00.15	37.132248	-116.047757	4,212	-544	Weapons Related	Low	345	
677	Nama-Amarylis	08/05/1971	LLNL	NNSS	U9ITS XY-31	Shaft	18:07:45.20	37.145034	-116.034165	4,266	-895	Weapons Related	Less than 20 kt	677	
677	Nama-Mephisto	08/05/1971	LLNL	NNSS	U9ITS Z-27	Shaft	18:07:45.20	37.140628	-116.032143	4,275	-800	Weapons Related	Less than 20 kt	677	
246	Nambe	05/27/1962	LANL	Christmas Island area	- - -	Airdrop	17:02:00.00	1.550000	-157.350000	0	7,140	Weapons Related	43 kt	246	
34	Nancy	03/24/1953	LANL	NNSS	Area 4	Tower	13:10:00.00	37.095488	-116.103616	4,309	300	Weapons Related	24 kt	34	
338	Narraguagus	09/27/1963	LLNL	NNSS	U2f	Shaft	17:30:00.15	37.154731	-116.074231	4,360	-493	Weapons Related	Low	338	
485	Nash ▾	01/19/1967	LLNL	NNSS	U2ce	Shaft	16:45:00.14	37.143608	-116.136077	4,764	-1,194	Weapons Related	39 kt	485	
334	Natches	08/23/1963	LLNL	NNSS	U9ak1	Shaft	13:20:00.15	37.124913	-116.036120	4,227	-194	Weapons Related	Low	334	
721	Natoma	04/05/1973	LLNL	NNSS	U10aw	Shaft	14:50:00.16	37.177828	-116.054766	4,297	-800	Weapons Related	Less than 20 kt	721	
83	Navajo	07/10/1956	LANL	Bikini Atoll	- - -	Barge	17:56:00.00	11.679000	165.391500	0	15	Weapons Related	4.5 Mt	83	
934	Navata	09/29/1983	LANL	NNSS	U3lb	Shaft	15:00:00.09	37.053360	-116.021222	4,048	-600	Safety Experiment	Less than 20 kt	934	
907	Nebbiolo	06/24/1982	LANL	NNSS	U19ae	Shaft	14:15:00.09	37.236163	-116.371062	6,775	-2,098	Weapons Related	20 to 150 kt	907	
49	Nectar	05/13/1954	LANL	Enewetak Atoll	- - -	Barge	18:20:00.00	11.666600	162.190000	0	7	Weapons Related	1.69 Mt	49	
171	Neptune	10/14/1958	LLNL	NNSS	U12c.03	Tunnel	18:00:00.00	37.193809	-116.200563	6,814	-98	Safety Experiment	115 tons	171	
859	Nessel ▾	08/29/1979	LLNL/UK	NNSS	U2ep	Shaft	15:08:00.17	37.121173	-116.067457	4,221	-1,522	Joint US-UK	20 to 150 kt	859	
482	New Point ▾	12/13/1966	LLNL/DoD	NNSS	U11c	Shaft	21:00:00.08	36.877209	-115.938776	3,381	-785	Weapons Effects	Less than 20 kt	482	
474	Newark ▾	09/29/1966	LLNL	NNSS	U10u	Shaft	14:45:30.09	37.168610	-116.046919	4,285	-750	Weapons Related	Less than 20 kt	474	
111	Newton	09/16/1957	LANL	NNSS	Area 7	Balloon	12:50:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	12 kt	111	
1010	Nightingale	06/22/1988	LLNL	NNSS	U2ey	Shaft	14:00:00.08	37.166110	-116.073116	4,384	-780	Safety Experiment	Less than 150 kt	1010	
587	Nipper ▾	02/04/1969	LANL	NNSS	U3gl	Shaft	15:00:00.04	37.002620	-116.010004	3,953	-790	Weapons Related	Less than 20 kt	587	

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888	Niza ▾	07/10/1981	LLNL	NNSS	U9cr	Shaft	14:00:00.10	37.128556	-116.034645	4,242	-1,120	Weapons Related	Less than 20 kt	888
561	Noggin ▾	09/06/1968	LLNL	NNSS	U9bx	Shaft	14:00:00.13	37.136018	-116.048028	4,220	-1,909	Weapons Related	20 to 200 kt	561
541	Noor ▾	04/10/1968	LLNL	NNSS	U2be	Shaft	14:00:00.00	37.154329	-116.079724	4,385	-1,253	Weapons Related	20 to 200 kt	541
866	Norbo	03/08/1980	LLNL	NNSS	U8c	Shaft	15:35:00.09	37.179898	-116.083993	4,515	-889	Weapons Related	Less than 20 kt	866
946	Normanna ▾	07/12/1984	LLNL	NNSS	U10cb	Shaft	14:00:00.09	37.191937	-116.035247	4,404	-656	Weapons Related	Less than 20 kt	946
301	Numbat ▾	12/12/1962	LANL	NNSS	U3bu	Shaft	18:45:00.12	37.046058	-116.016476	4,030	-761	Weapons Related	Low	301
127	Nutmeg	05/21/1958	LLNL	Bikini Atoll	-----	Barge	21:20:00.00	11.503000	165.374000	0	12	Weapons Related	25.1 kt	127
140	Oak	06/28/1958	LANL	Enewetak Atoll	-----	Barge	19:30:00.00	11.605086	162.100486	0	6	Weapons Related	8.9 Mt	140
494	Oakland	04/04/1967	LLNL	NNSS	U2bi	Shaft	14:20:00.15	37.161930	-116.083098	4,423	-543	Weapons Related	Less than 20 kt	494
808	Oarlock ▾	02/16/1977	LANL	NNSS	U3km	Shaft	17:53:00.07	37.013438	-116.029435	3,970	-1,042	Weapons Related	Less than 20 kt	808
772	Obar	04/30/1975	LANL	NNSS	U7ag	Shaft	15:00:01.90	37.108805	-116.029665	4,286	-1,866	Weapons Related	20 to 200 kt	772
180	Oberon	10/22/1958	LLNL	NNSS	Area 8	Tower	20:30:00.00	37.182847	-116.069270	4,446	25	Safety Experiment	Zero	180
695	Ocate ▾	03/30/1972	LANL	NNSS	U3jp	Shaft	21:00:00.08	37.004445	-116.015738	3,958	-689	Weapons Related	Less than 20 kt	695
454	Ochre	04/29/1966	LANL	NNSS	U3ec	Shaft	13:33:00.04	37.043620	-116.023357	4,013	-414	Safety Experiment	Less than 20 kt	454
351	Oconto ▾	01/23/1964	LLNL	NNSS	U9ay	Shaft	16:00:00.15	37.126372	-116.037164	4,221	-868	Weapons Related	10.5 kt	351
858	Offshore ▾	08/08/1979	LANL	NNSS	U3ks	Shaft	15:00:00.11	37.014700	-116.008872	3,966	-1,301	Weapons Related	20 to 150 kt	858
149	Olive	07/22/1958	LLNL	Enewetak Atoll	-----	Barge	20:30:00.00	11.678501	162.208073	0	8	Weapons Related	202 kt	149
695	Onaja ▾	03/30/1972	LANL	NNSS	U3js	Shaft	21:00:00.04	37.005427	-116.020939	3,960	-915	Weapons Related	Less than 20 kt	695
153	Orange	08/12/1958	LANL/DoD	Johnston Island area	-----	Rocket	10:30:00.00	16.358333	-169.535556	0	141,000	Weapons Effects	3.8 Mt	153
418	Organdy ▾	06/11/1965	LLNL	NNSS	U9bo	Shaft	20:28:37.11	37.115727	-116.024123	4,332	-568	Weapons Related	Less than 20 kt	418
942	Orkney	05/02/1984	LLNL	NNSS	U10be	Shaft	13:50:00.09	37.198428	-116.054836	4,522	-688	Weapons Related	Less than 20 kt	942
78	Osage	06/16/1956	LANL	Enewetak Atoll	-----	Airdrop	01:14:00.00	11.540150	162.356400	0	670	Weapons Related	1.7 kt	78
709	Oscuro ▾	09/21/1972	LANL	NNSS	U7z	Shaft	15:30:00.19	37.082010	-116.037435	4,108	-1,838	Weapons Related	20 to 200 kt	709
158	Otero	09/12/1958	LANL	NNSS	U3q	Shaft	20:00:00.00	37.049848	-116.032715	4,032	-480	Safety Experiment	38 tons	158
258	Otowi	06/22/1962	LANL	Christmas Island area	-----	Airdrop	16:00:00.00	1.550000	-157.350000	0	9,011	Weapons Related	81.5 kt	258
97	Owens	07/25/1957	LLNL	NNSS	Area 9	Balloon	13:30:00.00	37.134742	-116.041648	4,215	500	Weapons Related	9.7 kt	97
233	Paca ▾	05/07/1962	LANL	NNSS	U3ax	Shaft	19:33:00.14	37.046518	-116.025875	4,021	-848	Weapons Related	Low	233
582	Packard ▾	01/15/1969	LLNL	NNSS	U2u	Shaft	19:00:00.07	37.147869	-116.066530	4,315	-810	Weapons Effects	10 kt	582
248	Packrat ▾	06/06/1962	LANL	NNSS	U3aw	Shaft	17:00:00.12	37.045669	-116.040155	4,022	-860	Weapons Related	Low	248
317	Paisano ▾	04/24/1963	LLNL	NNSS	U9w1	Shaft	16:09:30.14	37.120479	-116.037045	4,225	-190	Weapons Related	Low	317
738	Pajara ▾	12/12/1973	LANL	NNSS	U3ji	Shaft	19:00:00.10	36.991440	-116.024995	3,945	-913	Weapons Related	Less than 20 kt	738
408	Palanquin	04/14/1965	LLNL	NNSS	U20k	Crater	13:14:00.10	37.280320	-116.524449	6,194	-280	Plowshare	4.3 kt	408
1023	Palisade-1 ▾	05/15/1989	LLNL	NNSS	U4at	Shaft	13:10:00.09	37.107563	-116.121757	4,479	-1,100	Weapons Related	Less than 20 kt	1023
1023	Palisade-2 ▾	05/15/1989	LLNL	NNSS	U4at	Shaft	13:10:00.09	37.107563	-116.121757	4,479	-1,280	Safety Experiment	Less than 20 kt	1023
1023	Palisade-3 ▾	05/15/1989	LLNL	NNSS	U4at	Shaft	13:10:00.09	37.107563	-116.121757	4,479	-1,324	Safety Experiment	Less than 20 kt	1023
894	Paliza ▾	10/01/1981	LANL	NNSS	U7bd	Shaft	19:00:00.10	37.081571	-116.009622	4,224	-1,549	Weapons Related	20 to 150 kt	894
268	Pamlico	07/11/1962	LLNL	Christmas Island area	-----	Airdrop	15:37:00.00	1.230000	-157.180000	0	14,330	Weapons Related	3.88 Mt	268
215	Pampas ▾	03/01/1962	LANL/UK	NNSS	U3al	Shaft	19:10:00.09	37.041217	-116.029549	4,012	-1,191	Joint US-UK	9.5 kt	215
979	Panamint	05/21/1986	LLNL	NNSS	U2gb	Shaft	13:59:00.08	37.124987	-116.061260	4,219	-1,575	Weapons Related	Less than 20 kt	979
998	Panchuela ▾	06/30/1987	LANL	NNSS	U3mg	Shaft	16:05:00.10	36.998545	-116.043942	3,957	-1,047	Weapons Related	Less than 20 kt	998

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840	Panir	08/31/1978	LLNL	NNSS	U19yS	Shaft	14:00:00.16	37.275877	-116.358226	6,694	-2,234	Weapons Related	20 to 150 kt	840	
385	Par ▾	10/09/1964	LLNL	NNSS	U2p	Shaft	14:00:00.12	37.151301	-116.077864	4,368	-1,331	Plowshare	38 kt	385	
687	Parnassia ▾	11/30/1971	LLNL	NNSS	U2bc	Shaft	15:45:00.15	37.160401	-116.071105	4,360	-1,085	Weapons Related	Less than 20 kt	687	
393	Parrot ▾	12/16/1964	LANL	NNSS	U3dk	Shaft	20:00:00.04	37.034775	-116.013150	4,001	-592	Weapons Related	1.3 kt	393	
98	Pascal-A	07/26/1957	LANL	NNSS	U3j	Shaft	08:00:00.00	37.051722	-116.034289	4,033	-500	Safety Experiment	56 tons	98	
103	Pascal-B	08/27/1957	LANL	NNSS	U3d	Shaft	22:35:00.00	37.049000	-116.034810	4,028	-500	Safety Experiment	1 gram	103	
116	Pascal-C	12/06/1957	LANL	NNSS	U3e	Shaft	22:15:00.00	37.049895	-116.031734	4,031	-250	Safety Experiment	38 tons	116	
223	Passaic ▾	04/06/1962	LLNL	NNSS	U9l	Shaft	18:00:00.16	37.117628	-116.044882	4,183	-766	Weapons Related	Low	223	
278	Pebe ▾	09/20/1962	LANL	NNSS	U3bb	Shaft	17:00:00.12	37.054996	-116.030153	4,043	-792	Weapons Related	Low	278	
681	Pederal	09/29/1971	LANL	NNSS	U3hg	Shaft	14:00:00.04	37.010988	-116.008219	3,961	-1,242	Weapons Related	Less than 20 kt	681	
332	Pekan ▾	08/12/1963	LANL	NNSS	U3bw	Shaft	23:45:00.13	37.041660	-116.016517	4,015	-992	Weapons Related	Low	332	
660	Penasco ▾	11/19/1970	LANL	NNSS	U3hl	Shaft	15:00:00.04	37.014743	-116.016750	3,969	-889	Weapons Related	Less than 20 kt	660	
854	Pepato	06/11/1979	LLNL	NNSS	U20ad	Shaft	14:00:00.17	37.289635	-116.456143	6,366	-2,239	Weapons Related	20 to 150 kt	854	
861	Pera ▾	09/08/1979	LLNL	NNSS	U10bd	Shaft	17:02:00.09	37.154948	-116.039058	4,289	-656	Weapons Related	Less than 20 kt	861	
489	Persimmon ▾	02/23/1967	LANL	NNSS	U3dn	Shaft	18:34:00.04	37.017493	-116.016727	3,972	-981	Weapons Related	Less than 20 kt	489	
256	Petit	06/19/1962	LLNL	Christmas Island area	----	Airdrop	15:01:00.00	1.470000	-157.320000	0	14,995	Weapons Related	2.2 kt	256	
417	Petrel ▾	06/11/1965	LANL	NNSS	U3dy	Shaft	19:45:00.04	37.042764	-116.017885	4,016	-593	Weapons Related	1.3 kt	417	
620	Piccalilli ▾	11/21/1969	LANL	NNSS	U3fc	Shaft	14:52:00.04	37.031147	-116.002910	4,010	-1,292	Weapons Related	20 to 200 kt	620	
359	Pike ▾	03/13/1964	LANL	NNSS	U3cy	Shaft	16:02:00.12	37.050421	-116.012330	4,060	-376	Weapons Related	Less than 20 kt	359	
462	Pile Driver	06/02/1966	LANL/DoD	NNSS	U15a.01	Tunnel	15:30:00.09	37.227022	-116.056412	5,090	-1,518	Weapons Effects	62 kt	462	
453	Pin Stripe	04/25/1966	LANL/DoD	NNSS	U11b	Shaft	18:38:00.14	36.887407	-115.941661	3,586	-970	Weapons Effects	Less than 20 kt	453	
150	Pine	07/26/1958	LLNL	Enewetak Atoll	----	Barge	20:30:00.00	11.651260	162.219650	0	8	Weapons Related	2 Mt	150	
889	Pineau	07/16/1981	LANL	NNSS	U7ao	Shaft	15:00:00.10	37.088650	-116.020237	4,220	-680	Weapons Related	Less than 20 kt	889	
742	Pinedrops-Bayou	01/10/1974	LLNL	NNSS	U10as	Shaft	15:38:00.17	37.174076	-116.051669	4,298	-1,125	Weapons Related	Less than 20 kt	742	
742	Pinedrops-Sloat	01/10/1974	LLNL	NNSS	U10as	Shaft	15:38:00.17	37.174076	-116.051669	4,298	-700	Weapons Related	Less than 20 kt	742	
742	Pinedrops-Tawny	01/10/1974	LLNL	NNSS	U10as	Shaft	15:38:00.17	37.174076	-116.051669	4,298	-925	Weapons Related	Less than 20 kt	742	
364	Pipefish ▾	04/29/1964	LANL	NNSS	U3co	Shaft	20:47:00.12	37.039520	-116.027503	4,006	-859	Weapons Related	Less than 20 kt	364	
614	Pipkin	10/08/1969	LLNL	NNSS	U20b	Shaft	14:30:00.14	37.256661	-116.441629	6,534	-2,046	Weapons Related	200 to 1,000 kt	614	
459	Piranha ▾	05/13/1966	LANL	NNSS	U7e	Shaft	13:30:00.04	37.086803	-116.034310	4,146	-1,800	Weapons Related	20 to 200 kt	459	
147	Pisonia	07/17/1958	LANL	Enewetak Atoll	----	Barge	23:00:00.00	11.541000	162.320000	0	6	Weapons Related	255 kt	147	
654	Piton-A	05/28/1970	LLNL	NNSS	U9ITS Y-30	Shaft	12:00:00.16	37.143931	-116.033488	4,268	-776	Weapons Related	Less than 20 kt	654	
654	Piton-B ▾	05/28/1970	LLNL	NNSS	U9ITS X-27	Shaft	12:00:00.16	37.140640	-116.034881	4,255	-754	Weapons Related	Less than 20 kt	654	
653	Piton-C	05/28/1970	LLNL	NNSS	U9ITS AA-25	Shaft	11:45:00.20	37.138423	-116.030786	4,284	-331	Weapons Related	Less than 20 kt	653	
441	Plaid II ▾	02/03/1966	LLNL	NNSS	U2r	Shaft	18:17:37.10	37.126269	-116.070340	4,260	-881	Weapons Related	Less than 20 kt	441	
621	Planer	11/21/1969	LANL	NNSS	U3el	Shaft	14:52:00.08	37.014780	-116.023600	3,971	-1,240	Weapons Related	Less than 20 kt	621	
225	Platte	04/14/1962	LLNL	NNSS	U12k.01	Tunnel	18:00:00.13	37.221976	-116.158313	6,281	-631	Weapons Related	1.85 kt	225	
214	Platypus	02/24/1962	LANL	NNSS	U3ad	Shaft	16:30:00.13	37.048288	-116.032772	4,026	-190	Weapons Related	Low	214	
379	Player	08/27/1964	LLNL	NNSS	U9cc	Shaft	14:30:00.15	37.117311	-116.041530	4,201	-296	Safety Experiment	Less than 20 kt	379	
324	Pleasant ▾	05/29/1963	LLNL	NNSS	U9ah	Shaft	15:03:30.16	37.128027	-116.044289	4,198	-692	Weapons Related	Low	324	
607	Pliers ▾	08/27/1969	LANL	NNSS	U3gn	Shaft	13:45:00.04	37.021455	-116.038959	3,984	-784	Weapons Related	Less than 20 kt	607	

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
747	Plomo	05/01/1974	LANL	NNSS	U3ff	Shaft	14:02:00.21	37.031057	-115.986466	4,114	-490	Weapons Related	Less than 20 kt	747	
617	Pod-A	10/29/1969	LLNL	NNSS	U2ch	Shaft	20:00:00.04	37.140159	-116.131374	4,672	-875	Weapons Related	16.7 kt (Total)	617	
617	Pod-B	10/29/1969	LLNL	NNSS	U2ci	Shaft	20:00:00.04	37.140399	-116.142708	4,894	-816	Weapons Related	16.7 kt (Total)	617	
617	Pod-C	10/29/1969	LLNL	NNSS	U2cj	Shaft	20:00:00.04	37.136282	-116.140839	4,839	-560	Weapons Related	16.7 kt (Total)	617	
617	Pod-D	10/29/1969	LLNL	NNSS	U2ck	Shaft	20:00:00.04	37.135291	-116.136825	4,761	-1,025	Weapons Related	16.7 kt (Total)	617	
523	Polka	12/06/1967	LLNL	NNSS	U10ai	Shaft	13:00:00.00	37.159219	-116.053821	4,263	-640	Weapons Related	Less than 20 kt	523	
734	Polygonum	10/02/1973	LLNL	NNSS	U2by	Shaft	14:30:00.17	37.158739	-116.073860	4,366	-700	Weapons Related	Less than 20 kt	734	
537	Pommard	03/14/1968	LANL	NNSS	U3ee	Shaft	15:19:00.06	37.047677	-116.011675	4,053	-686	Weapons Related	1.5 kt	537	
422	Pongee	07/22/1965	LLNL	NNSS	U2ah	Shaft	13:21:08.11	37.131746	-116.067724	4,270	-440	Weapons Related	Less than 20 kt	422	
968	Ponil	09/27/1985	LANL	NNSS	U7bv	Shaft	14:15:00.08	37.089762	-116.002635	4,300	-1,197	Weapons Related	Less than 20 kt	968	
795	Pool	03/17/1976	LANL	NNSS	U19p	Shaft	14:15:00.09	37.255836	-116.329461	6,899	-2,891	Weapons Related	200 to 500 kt	795	
145	Poplar	07/12/1958	LLNL	Bikini Atoll	-----	Barge	03:30:00.00	11.694458	165.265189	0	12	Weapons Related	9.3 Mt	145	
756	Portmanteau	08/30/1974	LLNL	NNSS	U2ax	Shaft	15:00:00.16	37.152431	-116.084203	4,397	-2,150	Weapons Related	20 to 200 kt	756	
765	Portola	02/06/1975	LLNL	NNSS	U10bb	Shaft	15:30:00.17	37.178360	-116.052424	4,305	-651	Weapons Related	Less than 20 kt	765	
765	Portola-Larkin	02/06/1975	LLNL	NNSS	U10bb	Shaft	15:30:00.16	37.178360	-116.052424	4,305	-901	Weapons Related	Less than 20 kt	765	
732	Portulaca	06/28/1973	LLNL	NNSS	U2bv	Shaft	19:15:12.40	37.148376	-116.086726	4,388	-1,528	Weapons Related	20 to 200 kt	732	
60	Post	04/09/1955	LLNL	NNSS	Area 9	Tower	12:30:00.00	37.122090	-116.035276	4,236	300	Weapons Related	2 kt	60	
746	Potrero	04/23/1974	LLNL	NNSS	U2eb	Shaft	15:13:00.16	37.159923	-116.077282	4,387	-692	Weapons Related	Less than 20 kt	746	
731	Potrillo	06/21/1973	LANL	NNSS	U7af	Shaft	14:45:00.08	37.091989	-116.028092	4,207	-1,860	Weapons Related	20 to 200 kt	731	
757	Pratt	09/25/1974	LANL	NNSS	U3hq	Shaft	14:00:00.08	37.012074	-116.031159	3,970	-1,030	Weapons Related	Less than 20 kt	757	
994	Presidio	04/22/1987	LANL	NNSS	U6d	Shaft	15:00:00.09	36.983093	-116.005447	3,932	-1,049	Weapons Related	Less than 20 kt	994	
91	Priscilla	06/24/1957	LANL/DoD	NNSS	Area 5	Balloon	13:30:00.00	36.797923	-115.929776	3,076	700	Weapons Related	37 kt	91	
65	Project 56 No. 1	11/01/1955	LANL	NNSS	Area 11a	Surface	22:10:00.00	36.984430	-115.961640	4,200	3	Safety Experiment	Zero	65	
66	Project 56 No. 2	11/03/1955	LANL	NNSS	Area 11b	Surface	21:15:00.00	36.980075	--115.959525	4,200	3	Safety Experiment	Zero	66	
67	Project 56 No. 3	11/05/1955	LANL	NNSS	Area 11c	Surface	19:55:00.00	36.975695	-115.957455	4,200	3	Safety Experiment	36 grams	67	
68	Project 56 No. 4	01/18/1956	LANL	NNSS	Area 11d	Surface	21:30:00.00	36.971340	-115.955350	4,200	3	Safety Experiment	1 ton	68	
86	Project 57 No. 1	04/24/1957	LANL/DoD	NTTR	-----	Surface	14:27:00.00	37.319302	-115.906141	4,585	0	Safety Experiment	Zero	86	
464	Puce	06/10/1966	LANL	NNSS	U3bs	Shaft	14:30:00.04	37.059367	-116.039682	4,053	-1,593	Weapons Related	Less than 20 kt	464	
763	Puddle	11/26/1974	LANL	NNSS	U3kg	Shaft	15:00:00.90	37.000983	-116.012073	4,002	-604	Safety Experiment	Less than 20 kt	763	
446	Purple	03/18/1966	LANL	NNSS	U3ds	Shaft	19:00:00.04	37.009209	-116.009951	3,959	-1,092	Weapons Related	Less than 20 kt	446	
597	Purse	05/07/1969	LLNL	NNSS	U20v	Shaft	13:45:00.04	37.282839	-116.501537	6,088	-1,964	Weapons Related	20 to 200 kt	597	
755	Puye	08/14/1974	LANL	NNSS	U3jl	Shaft	14:00:00.11	37.023366	-116.037231	3,987	-1,411	Weapons Related	Less than 20 kt	755	
868	Pyramid	04/16/1980	LANL	NNSS	U7be	Shaft	20:00:00.09	37.101071	-116.031400	4,241	-1,900	Weapons Related	20 to 150 kt	868	
846	Quarel	11/18/1978	LLNL/UK	NNSS	U2fb	Shaft	19:00:00.17	37.126821	-116.084743	4,271	-1,778	Joint US-UK	20 to 150 kt	846	
169	Quay	10/10/1958	LANL	NNSS	Area 7	Tower	14:30:00.00	37.094825	-116.024500	4,249	100	Weapons Related	79 tons	169	
910	Queso	08/11/1982	LLNL	NNSS	U10bf	Shaft	15:00:00.00	37.189744	-116.048555	4,387	-710	Weapons Related	Less than 20 kt	910	
231	Questa	05/04/1962	LANL	Christmas Island area	-----	Airdrop	19:04:00.00	1.565000	-157.365000	0	5,230	Weapons Related	670 kt	231	
152	Quince	08/06/1958	LLNL/DoD	Enewetak Atoll	-----	Surface	02:15:00.00	11.545500	162.352700	10	3	Weapons Related	Zero	152	
850	Quinella	02/08/1979	LANL	NNSS	U4l	Shaft	20:00:00.09	37.102435	-116.055712	4,159	-1,900	Weapons Related	20 to 150 kt	850	
247	Raccoon	06/01/1962	LANL	NNSS	U3ajs	Shaft	17:00:00.14	37.045566	-116.035331	4,021	-539	Weapons Related	Low	247	

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
558	Rack	08/15/1968	LLNL	NNSS	U9ap	Shaft	17:00:00.00	37.123685	-116.049093	4,201	-655	Weapons Related	Less than 20 kt	558
112	Rainier	09/19/1957	LLNL	NNSS	U12b	Tunnel	16:59:59.45	37.195732	-116.204029	7,515	-899	Weapons Related	1.7 kt	112
1036	Randsburg	07/25/1990	LLNL/DoD	NNSS	U12n.22a	Tunnel	15:00:00.00	37.206910	-116.215115	7,359	-1,278	Weapons Related	Less than 20 kt	1036
276	Raritan	09/06/1962	LLNL	NNSS	U9u	Shaft	17:00:00.20	37.130265	-116.045605	4,204	-513	Weapons Related	Low	276
37	Ray	04/11/1953	LLNL	NNSS	Area 4	Tower	12:45:00.00	37.098891	-116.093345	4,026	100	Weapons Related	200 tons	37
829	Reblochon	02/23/1978	LLNL	NNSS	U2en	Shaft	17:00:00.16	37.123631	-116.064701	4,226	-2,160	Weapons Related	20 to 150 kt	829
443	Red Hot	03/05/1966	LANL/DoD	NNSS	U12g.06	Tunnel	18:15:00.10	37.174446	-116.209226	7,551	-1,330	Weapons Effects	Less than 20 kt	443
804	Redmud	12/08/1976	LANL	NNSS	U7ab	Shaft	14:49:30.08	37.079216	-116.002487	4,251	-1,400	Weapons Related	Less than 20 kt	804
138	Redwood	06/27/1958	LLNL	Bikini Atoll	----	Barge	17:30:00.00	11.693940	165.416375	0	11	Weapons Related	412 kt	138
440	Reo	01/22/1966	LLNL	NNSS	U10m	Shaft	15:17:19.10	37.157159	-116.039558	4,296	-683	Weapons Related	Less than 20 kt	440
442	Rex	02/24/1966	LLNL	NNSS	U20h	Shaft	15:55:07.04	37.271783	-116.434726	6,557	-2,202	Weapons Related	19 kt	442
1011	Rhyolite	06/22/1988	LLNL	NNSS	U2ey	Shaft	14:00:00.08	37.166110	-116.073116	4,384	-680	Weapons Related	Less than 150 kt	1011
826	Rib	12/14/1977	LANL	NNSS	U3jv	Shaft	15:00:00.17	37.017504	-116.018778	3,973	-698	Weapons Related	Less than 20 kt	826
551	Rickey	06/15/1968	LANL	NNSS	U19c	Shaft	13:59:59.97	37.264858	-116.315533	7,032	-2,242	Weapons Related	20 to 200 kt	551
254	Rinconada	06/15/1962	LANL	Christmas Island area	----	Airdrop	16:00:00.00	1.470000	-157.195000	0	9,105	Weapons Related	800 kt	254
203	Ringtail	12/17/1961	LANL	NNSS	U3ak	Shaft	16:35:00.13	37.043114	-116.026182	4,014	-1,191	Weapons Related	Low	203
176	Rio Arriba	10/18/1958	LANL	NNSS	Area 3	Tower	14:25:00.00	37.040875	-116.026750	4,010	73	Weapons Related	90 tons	176
726	Rio Blanco-1	05/17/1973	LLNL	near Meeker, Colorado	----	Shaft	16:00:00.12	39.793250	-108.367210	6,630	-5,840	Plowshare	33 kt	726
726	Rio Blanco-2	05/17/1973	LLNL	near Meeker, Colorado	----	Shaft	16:00:00.12	39.793250	-108.367210	6,630	-6,230	Plowshare	33 kt	726
726	Rio Blanco-3	05/17/1973	LLNL	near Meeker, Colorado	----	Shaft	16:00:00.12	39.793250	-108.367210	6,630	-6,690	Plowshare	33 kt	726
877	Riola	09/25/1980	LLNL	NNSS	U2eq	Shaft	15:26:30.08	37.115814	-116.065438	4,203	-1,391	Weapons Related	1.07 kt	877
484	Rivet I	01/18/1967	LLNL	NNSS	U10aa	Shaft	14:55:00.00	37.165072	-116.047418	4,273	-498	Weapons Related	Less than 20 kt	484
487	Rivet II	01/26/1967	LLNL	NNSS	U10z	Shaft	16:30:00.00	37.164751	-116.048930	4,267	-648	Weapons Related	Less than 20 kt	487
491	Rivet III	03/02/1967	LLNL	NNSS	U10y	Shaft	15:00:00.00	37.165822	-116.049570	4,270	-898	Weapons Related	Less than 20 kt	491
798	Rivoli	05/20/1976	LLNL	NNSS	U2eg	Shaft	17:30:00.16	37.137153	-116.067448	4,284	-656	Weapons Related	Less than 20 kt	798
283	Roanoke	10/12/1962	LLNL	NNSS	U9q	Shaft	15:00:00.16	37.122688	-116.051680	4,198	-580	Weapons Related	Low	283
936	Romano	12/16/1983	LLNL	NNSS	U2ex	Shaft	18:30:00.09	37.140400	-116.072939	4,311	-1,690	Weapons Related	20 to 150 kt	936
45	Romeo	03/26/1954	LANL	Bikini Atoll	----	Barge	18:30:00.00	11.697130	165.274200	0	7	Weapons Related	11 Mt	45
971	Roquefort	10/16/1985	LLNL	NNSS	U4as	Shaft	21:35:00.09	37.109900	-116.122255	4,488	-1,363	Weapons Related	20 to 150 kt	971
132	Rose	06/02/1958	LANL	Enewetak Atoll	----	Barge	18:45:00.00	11.532600	162.342600	0	15	Weapons Related	15 kt	132
896	Rousanne	11/12/1981	LANL/UK	NNSS	U4p	Shaft	15:00:00.10	37.108104	-116.049847	4,166	-1,697	Joint US-UK	20 to 150 kt	896
470	Rovena	08/10/1966	LLNL	NNSS	U10s	Shaft	13:16:00.07	37.168619	-116.048635	4,281	-635	Weapons Related	Less than 20 kt	470
807	Rudder	12/28/1976	LANL	NNSS	U7ajS	Shaft	18:00:00.08	37.100446	-116.037331	4,205	-2,095	Weapons Related	20 to 150 kt	807
608	Rulison	09/10/1969	LLNL	near Parachute, Colorado	----	Shaft	21:00:00.01	39.405350	-107.948470	8,200	-8,425	Plowshare	40 kt	608
844	Rummy	09/27/1978	LANL	NNSS	U7au	Shaft	17:20:00.08	37.079756	-116.052192	4,111	-2,099	Weapons Related	20 to 150 kt	844
181	Rushmore	10/22/1958	LLNL	NNSS	Area 9	Balloon	23:40:00.00	37.134742	-116.041648	4,244	500	Weapons Related	188 tons	181

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
535	Russet	03/05/1968	LANL/DoD	NNSS	U6a	Shaft	15:30:00.04	36.969998	-116.056680	3,930	-393	Weapons Related	Less than 20 kt	535	
35	Ruth	03/31/1953	LLNL	NNSS	Area 7	Tower	13:00:00.00	37.085291	-116.022137	4,000	305	Weapons Related	200 tons	35	
928	Sabado	08/11/1983	LANL	NNSS	U3lc	Shaft	14:00:00.12	36.997640	-116.003537	3,946	-1,050	Weapons Related	Less than 20 kt	928	
263	Sacramento	06/30/1962	LLNL	NNSS	U9v	Shaft	21:30:00.16	37.117366	-116.048287	4,177	-489	Weapons Related	Low	263	
387	Salmon	10/22/1964	LLNL/DoD	near Hattiesburg, Mississippi	----	Shaft	16:00:00.00	31.142300	-89.570000	265	-2,710	Vela Uniform	5.3 kt	387	
962	Salut	06/12/1985	LLNL	NNSS	U20ak	Shaft	15:15:00.08	37.247799	-116.489947	6,235	-1,995	Weapons Related	20 to 150 kt	962	
177	San Juan	10/20/1958	LANL	NNSS	U3p	Shaft	14:30:00.00	37.049734	-116.033384	4,029	-234	Safety Experiment	Zero	177	
824	Sandreef	11/09/1977	LANL	NNSS	U7aq	Shaft	22:00:00.08	37.072058	-116.050879	4,094	-2,299	Weapons Related	20 to 150 kt	824	
185	Sanford	10/26/1958	LLNL	NNSS	Area 5	Balloon	10:20:00.00	36.797923	-115.929776	3,077	1,500	Weapons Related	4.9 kt	185	
191	Santa Fe	10/30/1958	LANL	NNSS	Area 7	Balloon	03:00:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	1.3 kt	191	
290	Santee	10/27/1962	LLNL	NNSS	U10f	Shaft	15:00:00.15	37.149260	-116.054375	4,254	-1,048	Weapons Related	Low	290	
745	Sapello	04/12/1974	LANL	NNSS	U3ge	Shaft	15:15:00.08	37.014894	-116.045008	3,989	-593	Weapons Related	Less than 20 kt	745	
694	Sappho	03/23/1972	LLNL	NNSS	U2dh #2	Shaft	18:50:00.16	37.113001	-116.081690	4,241	-649	Weapons Related	Less than 20 kt	694	
347	Sardine	12/04/1963	LANL	NNSS	U3ch	Shaft	16:38:30.13	37.039537	-116.030248	4,007	-860	Weapons Related	Low	347	
333	Satsop	08/15/1963	LLNL	NNSS	U2g	Shaft	13:00:00.15	37.154044	-116.077499	4,373	-738	Weapons Related	Low	333	
100	Saturn	08/10/1957	LLNL	NNSS	U12c.02	Tunnel	00:59:55.10	37.193818	-116.200738	6,845	-128	Safety Experiment	Zero	100	
838	Satz	07/07/1978	LLNL	NNSS	U2dq	Shaft	14:00:00.17	37.111749	-116.078002	4,232	-1,033	Weapons Related	Less than 20 kt	838	
469	Saxon	07/28/1966	LLNL	NNSS	U2cc	Shaft	15:33:30.13	37.140440	-116.134038	4,719	-504	Plowshare	1.2 kt	469	
519	Sazerac	10/25/1967	LANL	NNSS	U3fa	Shaft	14:30:00.06	37.031558	-116.027224	3,995	-989	Weapons Related	Less than 20 kt	519	
146	Scaevola	07/14/1958	LANL	Enewetak Atoll	----	Barge	04:00:00.00	11.550000	162.342500	0	20	Safety Experiment	Zero	146	
819	Scantling	08/19/1977	LANL	NNSS	U4h	Shaft	17:55:00.10	37.109987	-116.055377	4,175	-2,300	Weapons Related	20 to 150 kt	819	
415	Scaup	05/14/1965	LANL	NNSS	U3daS	Shaft	17:32:36.23	37.058797	-116.011408	4,098	-1,401	Weapons Related	Less than 20 kt	415	
1007	Schellbourne	05/13/1988	LLNL	NNSS	U2gf	Shaft	15:35:00.11	37.124387	-116.072996	4,249	-1,519	Weapons Related	Less than 150 kt	1007	
577	Schooner	12/08/1968	LLNL	NNSS	U20u	Crater	16:00:00.14	37.343363	-116.566766	5,563	-365	Plowshare	30 kt	577	
580	Scissors	12/12/1968	LANL	NNSS	U3gh	Shaft	15:20:00.04	37.003882	-116.040135	3,965	-789	Weapons Related	Less than 20 kt	580	
501	Scotch	05/23/1967	LANL	NNSS	U19aS	Shaft	14:00:00.04	37.275028	-116.370854	6,761	-3,207	Weapons Related	155 kt	501	
427	Screamer	09/01/1965	LANL	NNSS	U3dg	Shaft	20:08:00.04	37.022945	-116.009829	3,975	-991	Weapons Effects	Less than 20 kt	427	
656	Scree-Acajou	10/13/1970	LLNL	NNSS	U9ITS X-24	Shaft	15:05:00.02	37.137402	-116.034915	4,252	-818	Weapons Related	Less than 20 kt	656	
656	Scree-Alhambra	10/13/1970	LLNL	NNSS	U9ITS Z-21	Shaft	15:05:00.02	37.134039	-116.032198	4,265	-631	Weapons Related	Less than 20 kt	656	
656	Scree-Chamois	10/13/1970	LLNL	NNSS	U9ITS Z-24	Shaft	15:05:00.02	37.137302	-116.032171	4,271	-330	Safety Experiment	Less than 20 kt	656	
543	Scroll	04/23/1968	LLNL/DoD	NNSS	U19n	Shaft	17:01:30.08	37.337655	-116.376459	6,754	-740	Vela Uniform	Less than 20 kt	543	
818	Scupper	08/19/1977	LANL	NNSS	U3hj	Shaft	17:32:00.10	37.017575	-116.032483	3,976	-1,475	Weapons Related	Less than 20 kt	818	
619	Scuttle	11/13/1969	LLNL	NNSS	U2bh	Shaft	15:15:00.13	37.164582	-116.075702	4,394	-540	Weapons Related	1.7 kt	619	
739	Seafoam	12/13/1973	LLNL	NNSS	U2ea	Shaft	15:17:00.17	37.161349	-116.073925	4,374	-650	Weapons Related	Less than 20 kt	739	
825	Seamount	11/17/1977	LANL	NNSS	U3kp	Shaft	19:30:00.08	37.020556	-116.025943	3,979	-1,214	Weapons Related	Less than 20 kt	825	
615	Seaweed B	10/16/1969	LANL	NNSS	U3hk-d	Shaft	14:00:00.04	37.012530	-115.999129	3,976	-389	Safety Experiment	Less than 20 kt	615	
612	Seaweed-C	10/01/1969	LANL	NNSS	U3hk-e	Shaft	14:30:00.04	37.011379	-115.999485	3,974	-389	Safety Experiment	Less than 20 kt	612	
612	Seaweed-D	10/01/1969	LANL	NNSS	U3hk-f	Shaft	14:30:00.04	37.010461	-116.000435	3,971	-389	Safety Experiment	Less than 20 kt	612	
612	Seaweed-E	10/01/1969	LANL	NNSS	U3hk-c	Shaft	14:30:00.04	37.013686	-115.999465	3,974	-408	Safety Experiment	Less than 20 kt	612	

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test	
884	Seco	02/25/1981	LLNL	NNSS	U8I	Shaft	15:00:00.08	37.181851	-116.085121	4,538	-656	Weapons Related	Less than 20 kt	884	
264	Sedan	07/06/1962	LLNL	NNSS	U10h	Crater	17:00:00.15	37.176960	-116.046256	4,317	-635	Plowshare	104 kt	264	
403	Seersucker	02/19/1965	LLNL	NNSS	U9bm	Shaft	15:28:54.11	37.117230	-116.031855	4,269	-473	Weapons Related	Less than 20 kt	403	
74	Seminole	06/06/1956	LANL	Enewetak Atoll	-----	Surface	00:55:00.00	11.672427	162.210365	4	0	Weapons Related	13.7 kt	74	
431	Sepia	11/12/1965	LANL	NNSS	U3en	Shaft	18:00:00.05	37.049936	-116.022961	4,033	-791	Weapons Related	Less than 20 kt	431	
142	Sequoia	07/01/1958	LANL	Enewetak Atoll	-----	Barge	18:30:00.00	11.543050	162.347000	0	6	Weapons Related	5.2 kt	142	
965	Serena	07/25/1985	LLNL	NNSS	U20an	Shaft	14:00:00.09	37.297192	-116.438962	6,462	-1,960	Weapons Related	20 to 150 kt	965	
881	Serpa	12/17/1980	LLNL/UK	NNSS	U19ai	Shaft	15:10:00.09	37.324737	-116.316055	6,742	-1,879	Joint US-UK	20 to 150 kt	881	
553	Sevilla	06/25/1968	LANL	NNSS	U3fk	Shaft	15:30:00.04	37.041530	-115.993218	4,111	-1,177	Weapons Related	Less than 20 kt	553	
916	Seyval	11/12/1982	LANL	NNSS	U3lm	Shaft	19:17:00.10	37.023620	-116.032947	3,984	-1,201	Weapons Related	Less than 20 kt	916	
792	Shallows	02/26/1976	LANL	NNSS	U3jf	Shaft	14:50:00.09	37.028476	-116.016633	3,987	-803	Weapons Related	Less than 20 kt	792	
639	Shaper	03/23/1970	LANL	NNSS	U7r	Shaft	23:05:00.04	37.086185	-116.021966	4,195	-1,839	Weapons Related	20 to 200 kt	639	
101	Shasta	08/18/1957	LLNL	NNSS	Area 2	Tower	12:00:00.00	37.127880	-116.107280	4,387	500	Weapons Related	17 kt	101	
584	Shave	01/22/1969	LANL	NNSS	U3gk	Shaft	15:00:00.04	37.015444	-115.995165	3,996	-790	Weapons Related	Less than 20 kt	584	
862	Sheepshead	09/26/1979	LANL	NNSS	U19aa	Shaft	15:00:00.09	37.229014	-116.364938	6,758	-2,100	Weapons Related	20 to 150 kt	862	
343	Shoal	10/26/1963	LANL/DoD	near Fallon, Nevada	-----	Shaft	17:00:00.10	39.200060	-118.381210	5,250	-1,211	Vela Uniform	12 kt	343	
196	Shrew	09/16/1961	LANL	NNSS	U3ac	Shaft	19:45:00.12	37.048408	-116.033673	4,027	-322	Weapons Related	Low	196	
542	Shuffle	04/18/1968	LLNL	NNSS	U10t	Shaft	14:05:00.00	37.152467	-116.037881	4,285	-1,619	Weapons Related	20 to 200 kt	542	
481	Sidecar	12/13/1966	LANL	NNSS	U3ez	Shaft	17:50:00.04	37.034742	-116.007668	4,010	-788	Weapons Related	Less than 20 kt	481	
438	Sienna	01/18/1966	LANL	NNSS	U3cj	Shaft	18:35:00.04	37.037278	-116.019303	4,003	-902	Weapons Related	Less than 20 kt	438	
733	Silene	06/28/1973	LLNL	NNSS	U9ck	Shaft	19:45:00.16	37.114860	-116.041790	4,202	-650	Weapons Related	Less than 20 kt	733	
476	Simms	11/05/1966	LLNL	NNSS	U10w	Shaft	14:45:00.00	37.169907	-116.048082	4,286	-652	Plowshare	2.3 kt	476	
39	Simon	04/25/1953	LANL	NNSS	Area 1	Tower	12:30:00.00	37.053040	-116.103504	4,239	300	Weapons Related	43 kt	39	
560	Sled	08/29/1968	LANL	NNSS	U19i	Shaft	22:45:00.04	37.250267	-116.347773	6,836	-2,391	Weapons Related	20 to 200 kt	560	
271	Small Boy	07/14/1962	LANL/DoD	NNSS	Area 5	Tower	18:30:00.00	36.802465	-115.925910	3,078	10	Weapons Effects	Low	271	
105	Smoky	08/31/1957	LLNL	NNSS	Area 8	Tower	12:30:00.00	37.187200	-116.068670	4,479	700	Weapons Related	44 kt	105	
641	Snubber	04/21/1970	LANL	NNSS	U3ev 2S	Shaft	14:30:00.04	37.054842	-115.988992	4,199	-1,127	Weapons Effects	12.7 kt	641	
178	Socorro	10/22/1958	LANL	NNSS	Area 7	Balloon	13:30:00.00	37.086540	-116.024805	1,450	1,450	Weapons Related	6 kt	178	
708	Solano	08/09/1972	LANL	NNSS	U3jx	Shaft	13:31:10.04	37.003153	-116.017568	3,957	-440	Safety Experiment	Less than 20 kt	708	
715	Solanum	12/14/1972	LLNL	NNSS	U9ITS W-24.5	Shaft	15:30:00.16	37.138037	-116.035596	4,246	-600	Weapons Related	Less than 20 kt	715	
353	Solendon	02/12/1964	LANL	NNSS	U3cz	Shaft	15:38:00.12	37.056564	-116.030109	4,046	-493	Weapons Related	Less than 20 kt	353	
740	Spar	12/19/1973	LANL	NNSS	U3jr	Shaft	17:30:00.04	37.005723	-116.019762	3,960	-487	Safety Experiment	Less than 20 kt	740	
605	Spider-A	08/14/1969	LLNL	NNSS	U2bp #1	Shaft	14:30:00.04	37.160197	-116.064476	4,326	-700	Weapons Related	Less than 20 kt	605	
605	Spider-B	08/14/1969	LLNL	NNSS	U2bp #2	Shaft	14:30:00.04	37.158140	-116.064657	4,325	-747	Weapons Related	Less than 20 kt	605	
382	Spoon	09/11/1964	LLNL	NNSS	U9bd	Shaft	14:00:00.10	37.113676	-116.026366	4,316	-590	Weapons Related	Less than 20 kt	382	
802	Sprit	11/10/1976	LANL	NNSS	U3hc	Shaft	14:58:00.08	37.035902	-116.018283	4,000	-601	Weapons Related	Less than 20 kt	802	
555	Spud	07/17/1968	LANL	NNSS	U3fy	Shaft	14:00:00.04	37.000912	-115.999744	3,956	-788	Weapons Related	Less than 20 kt	555	
295	St. Lawrence	11/09/1962	LLNL	NNSS	U2b	Shaft	18:00:00.16	37.163767	-116.074164	4,384	-546	Weapons Related	Low	295	
527	Staccato	01/19/1968	LLNL	NNSS	U10ah	Shaft	15:00:00.00	37.156337	-116.054750	4,261	-1,455	Weapons Related	20 to 200 kt	527	

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508	Stanley	07/27/1967	LLNL	NNSS	U10q	Shaft	13:00:00.12	37.148685	-116.049404	4,237	-1,587	Weapons Related	20 to 200 kt	508	
759	Stanyan	09/26/1974	LLNL	NNSS	U2aw	Shaft	15:05:00.17	37.132581	-116.069261	4,271	-1,880	Weapons Related	20 to 200 kt	759	
266	Starfish Prime	07/09/1962	LANL/DoD	Johnston Island area	----	Rocket	09:00:00.00	16.468422	-169.630075	0	250 miles	Weapons Effects	1.4 Mt	266	
724	Starwort	04/26/1973	LLNL	NNSS	U2bs	Shaft	17:15:00.17	37.122999	-116.059385	4,226	-1,850	Weapons Related	90 kt	724	
480	Sterling	12/03/1966	LLNL/DoD	near Hattiesburg, Mississippi	----	Shaft	12:15:00.05	31.142300	-89.570000	265	-2,710	Vela Uniform	380 tons	480	
208	Stillwater	02/08/1962	LLNL	NNSS	U9c	Shaft	18:00:00.16	37.127202	-116.053524	4,209	-595	Weapons Related	3.07 kt	208	
525	Stilt	12/15/1967	LANL	NNSS	U3fh	Shaft	15:00:00.04	37.036640	-116.002858	4,038	-1,091	Weapons Related	Less than 20 kt	525	
774	Stilton	06/03/1975	LLNL/DoD	NNSS	U20p	Shaft	14:20:00.17	37.340002	-116.523770	5,560	-2,400	Weapons Related	20 to 200 kt	774	
538	Stinger	03/22/1968	LANL	NNSS	U19l	Shaft	15:00:00.04	37.332546	-116.311550	6,766	-2,191	Weapons Related	20 to 200 kt	538	
205	Stoat	01/09/1962	LANL	NNSS	U3ap	Shaft	16:30:00.14	37.044592	-116.035932	4,021	-992	Weapons Related	5.1 kt	205	
563	Stoddard	09/17/1968	LLNL	NNSS	U2cmS	Shaft	14:00:00.04	37.119816	-116.128344	4,583	-1,535	Plowshare	31 kt	563	
99	Stokes	08/07/1957	LANL	NNSS	Area 7	Balloon	12:25:00.00	37.086540	-116.024805	4,186	1,500	Weapons Related	19 kt	99	
322	Stones	05/22/1963	LANL	NNSS	U9ae	Shaft	15:40:00.14	37.111002	-116.039936	4,213	-1,290	Weapons Related	Intermediate	322	
796	Strait	03/17/1976	LANL	NNSS	U4a	Shaft	14:45:00.09	37.107238	-116.053345	4,169	-2,567	Weapons Related	200 to 500 kt	796	
815	Strake	08/04/1977	LANL	NNSS	U7ae	Shaft	16:40:00.07	37.086522	-116.007738	4,266	-1,698	Weapons Related	20 to 150 kt	815	
361	Sturgeon	04/15/1964	LANL	NNSS	U3bo	Shaft	14:30:00.12	37.043873	-116.019236	4,019	-491	Weapons Related	Less than 20 kt	361	
449	Stutz	04/06/1966	LLNL	NNSS	U2ca	Shaft	13:57:17.10	37.139472	-116.141747	4,872	-742	Weapons Related	Less than 20 kt	449	
405	Suede	03/20/1965	LLNL	NNSS	U9bk	Shaft	15:30:49.10	37.115376	-116.027364	4,307	-470	Weapons Related	Less than 20 kt	405	
21	Sugar	11/19/1951	LANL/DoD	NNSS	Area 9	Surface	17:00:00.00	37.131467	-116.039417	4,215	4	Weapons Effects	1.2 kt	21	
396	Sulky	12/18/1964	LLNL	NNSS	U18d	Shaft	19:35:00.09	37.082661	-116.343440	5,329	-89	Plowshare	92 tons	396	
1037	Sundown-A	09/20/1990	LANL	NNSS	U1d	Shaft	16:15:00.00	37.038170	-116.057667	4,047	-887	Safety Experiment	Less than 20 kt	1037	
1037	Sundown-B	09/20/1990	LANL	NNSS	U1d	Shaft	16:15:00.00	37.038170	-116.057667	4,047	-840	Safety Experiment	Less than 20 kt	1037	
267	Sunset	07/10/1962	LANL	Christmas Island area	----	Airdrop	16:33:00.00	1.520000	-157.280000	0	5,000	Weapons Related	1 Mt	267	
806	Sutter	12/21/1976	LLNL	NNSS	U2bw	Shaft	15:58:00.16	37.151851	-116.064305	4,312	-657	Weapons Related	Less than 20 kt	806	
241	Swanee	05/14/1962	LLNL	Christmas Island area	----	Airdrop	15:21:00.00	1.570000	-157.365000	0	2,940	Weapons Related	97 kt	241	
504	Switch	06/22/1967	LLNL	NNSS	U9bv	Shaft	13:10:00.00	37.125507	-116.029525	4,277	-991	Plowshare	3.1 kt	504	
238	Swordfish	05/11/1962	LANL/DoD	Pacific	----	Underwater	20:02:00.00	31.233333	-124.216667	0	----	Weapons Effects	Low	238	
131	Sycamore	05/31/1958	LLNL	Bikini Atoll	----	Barge	03:00:00.00	11.697275	165.280000	0	12	Weapons Related	92 kt	131	
874	Tafi	07/25/1980	LLNL	NNSS	U20ae	Shaft	19:05:00.08	37.256269	-116.478298	6,189	-2,232	Weapons Related	20 to 150 kt	874	
1000	Tahoka	08/13/1987	LANL	NNSS	U3mf	Shaft	14:00:00.09	37.060912	-116.046175	4,067	-2,095	Weapons Related	20 to 150 kt	1000	
704	Tajique	06/28/1972	LANL	NNSS	U7aa	Shaft	16:30:00.07	37.069546	-115.992974	4,267	-1,090	Weapons Related	Less than 20 kt	704	
980	Tajo	06/05/1986	LANL	NNSS	U7bl	Shaft	15:04:00.06	37.098243	-116.016380	4,317	-1,700	Weapons Related	20 to 150 kt	980	
168	Tamalpais	10/08/1958	LLNL	NNSS	U12b.02	Tunnel	22:00:00.13	37.195257	-116.201330	6,947	-330	Weapons Related	72 tons	168	
463	Tan	06/03/1966	LANL	NNSS	U7k	Shaft	14:00:00.04	37.068410	-116.036173	4,070	-1,840	Weapons Related	20 to 200 kt	463	
245	Tanana	05/25/1962	LLNL	Christmas Island area	----	Airdrop	16:08:00.00	1.550000	-157.350000	0	9,030	Weapons Related	2.6 kt	245	
471	Tangerine	08/12/1966	LANL	NNSS	U3eb	Shaft	15:36:00.05	37.046264	-116.030188	4,021	-288	Safety Experiment	Less than 20 kt	471	
556	Tanya	07/30/1968	LLNL	NNSS	U2dt	Shaft	13:00:00.00	37.116718	-116.083109	4,257	-1,250	Weapons Related	20 to 200 kt	556	
458	Tapestry	05/12/1966	LLNL	NNSS	U2an	Shaft	19:37:26.20	37.134240	-116.071989	4,291	-816	Weapons Related	Less than 20 kt	458	
601	Tapper	06/12/1969	LANL	NNSS	U3go	Shaft	14:00:00.04	37.008778	-116.031186	3,965	-994	Weapons Related	Less than 20 kt	601	

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865	Tarko	02/28/1980	LLNL	NNSS	U2fd	Shaft	15:00:00.09	37.126500	-116.089376	4,287	-1,209	Weapons Related	Less than 20 kt	865	
298	Taunton	12/04/1962	LLNL	NNSS	U9aa	Shaft	16:00:00.15	37.128037	-116.050875	4,209	-749	Weapons Related	Low	298	
151	Teak	08/01/1958	LANL/DoD	Johnston Island area	----	Rocket	10:50:00.00	16.743889	-169.533333	0	252,000	Weapons Effects	3.8 Mt	151	
933	Techado	09/22/1983	LANL	NNSS	U4o	Shaft	15:00:00.12	37.105563	-116.050269	4,159	-1,747	Weapons Related	Less than 150 kt	933	
412	Tee	05/07/1965	LLNL	NNSS	U2ab	Shaft	15:47:11.15	37.140318	-116.067522	4,297	-624	Weapons Effects	7 kt	412	
321	Tejon	05/17/1963	LANL	NNSS	U3cg	Shaft	14:55:00.00	37.048291	-116.033225	4,026	-245	Safety Experiment	Low	321	
766	Teleme	02/06/1975	LLNL	NNSS	U9cl	Shaft	16:13:00.17	37.114067	-116.021904	4,354	-1,001	Weapons Related	Less than 20 kt	766	
762	Temescal	11/02/1974	LLNL	NNSS	U4ab	Shaft	15:30:00.16	37.093142	-116.092544	4,234	-862	Weapons Related	Less than 20 kt	762	
447	Templar	03/24/1966	LLNL	NNSS	U9bt	Shaft	14:55:28.14	37.113290	-116.032221	4,271	-492	Plowshare	370 tons	447	
1039	Tenabo	10/12/1990	LLNL	NNSS	U20bb	Shaft	17:30:00.08	37.247807	-116.495104	6,226	-1,969	Weapons Related	20 to 150 kt	1039	
902	Tenaja	04/17/1982	LANL	NNSS	U3lh	Shaft	18:00:00.09	37.016770	-116.010735	3,952	-1,169	Weapons Related	Less than 20 kt	902	
299	Tendrac	12/07/1962	LANL/UK	NNSS	U3ba	Shaft	19:00:00.10	37.051697	-116.030177	4,033	-993	Joint US-UK	Low	299	
398	Tern	01/29/1965	LANL	NNSS	U3dw	Shaft	18:22:00.03	37.044943	-116.014094	4,032	-691	Weapons Related	Less than 20 kt	398	
627	Terrine-White	12/18/1969	LLNL	NNSS	U9bi #1	Shaft	19:00:00.04	37.120431	-116.035642	4,235	-1,500	Weapons Related	20 to 200 kt	627	
627	Terrine-Yellow	12/18/1969	LLNL	NNSS	U9bi #2	Shaft	19:00:00.04	37.120640	-116.029477	4,278	-1,370	Weapons Related	20 to 200 kt	627	
52	Tesla	03/01/1955	LLNL	NNSS	Area 9	Tower	13:30:00.00	37.125389	-116.048387	4,021	300	Weapons Related	7 kt	52	
84	Tewa	07/20/1956	LLNL	Bikini Atoll	----	Barge	17:46:00.00	11.680000	165.341000	0	15	Weapons Related	5 Mt	84	
1020	Texarkana	02/10/1989	LANL	NNSS	U7ca	Shaft	20:06:00.06	37.076736	-116.001481	4,244	-1,654	Weapons Related	20 to 150 kt	1020	
596	Thistle	04/30/1969	LANL	NNSS	U7t	Shaft	17:00:00.04	37.090220	-116.006509	4,291	-1,839	Weapons Related	20 to 200 kt	596	
541	Throw	04/10/1968	LLNL	NNSS	U2bg	Shaft	14:00:00.00	37.156631	-116.083142	4,408	-757	Weapons Related	Less than 20 kt	541	
425	Ticking	08/21/1965	LLNL	NNSS	U9bj	Shaft	13:43:08.15	37.112583	-116.026890	4,314	-690	Weapons Related	Less than 20 kt	425	
955	Tierra	12/15/1984	LLNL	NNSS	U19ac	Shaft	14:45:00.00	37.281310	-116.306296	7,038	-2,100	Weapons Related	20 to 150 kt	955	
294	Tightrope	11/04/1962	LANL/DoD	Johnston Island area	----	Rocket	07:30:00.00	16.707419	-169.542406	0	tens of miles	Weapons Effects	Low	294	
657	Tijeras	10/14/1970	LANL	NNSS	U7y	Shaft	14:30:00.04	37.070608	-116.005994	4,187	-1,839	Weapons Related	20 to 200 kt	657	
895	Tilci	11/11/1981	LLNL	NNSS	U4ak	Shaft	20:00:09.09	37.076273	-116.069360	4,131	-1,460	Weapons Related	20 to 150 kt	895	
576	Tinderbox	11/22/1968	LLNL	NNSS	U9az	Shaft	16:19:00.04	37.139862	-116.043129	4,225	-1,442	Weapons Related	Less than 20 kt	576	
420	Tiny Tot	06/17/1965	LLNL/DoD	NNSS	U15e	Tunnel	17:00:00.09	37.223368	-116.057840	5,022	-364	Weapons Effects	Less than 20 kt	420	
285	Tioga	10/18/1962	LLNL	NNSS	U9f	Shaft	15:00:00.15	37.128502	-116.041116	4,203	-195	Weapons Related	Low	285	
194	Titania	10/30/1958	LLNL	NNSS	Area 8	Tower	20:34:00.00	37.177200	-116.070050	4,403	25	Safety Experiment	0.2 tons	194	
130	Tobacco	05/30/1958	LANL	Enewetak Atoll	----	Barge	02:15:00.00	11.691220	162.214650	0	10	Weapons Related	11.6 kt	130	
450	Tomato	04/07/1966	LANL	NNSS	U3ek	Shaft	22:27:30.04	37.017361	-115.993093	4,010	-742	Weapons Related	Less than 20 kt	450	
931	Tomme/Midnight Zephyr	09/21/1983	LLNL/DoD	NNSS	U12n.18	Tunnel	15:00:00.09	37.209695	-116.210129	7,401	-1,328	Weapons Effects	Less than 20 kt	931	
768	Topgallant	02/28/1975	LANL	NNSS	U4e	Shaft	15:15:00.09	37.106153	-116.057123	4,173	-2,340	Weapons Related	20 to 200 kt	768	
831	Topmast	03/23/1978	LANL	NNSS	U7ay	Shaft	16:30:00.11	37.098815	-116.020490	4,296	-1,502	Weapons Related	Less than 20 kt	831	
532	Torch	02/21/1968	LANL	NNSS	U3fj	Shaft	15:00:00.04	37.041584	-116.002819	4,059	-789	Weapons Related	Less than 20 kt	532	
991	Tornero	02/11/1987	LANL	NNSS	U3ll	Shaft	16:45:00.07	37.010640	-116.045556	3,981	-979	Weapons Related	Less than 20 kt	991	
340	Tornillo	10/11/1963	LLNL	NNSS	U9aq	Shaft	21:00:00.16	37.118693	-116.034731	4,244	-491	Plowshare	380 tons	340	
600	Torrido	05/27/1969	LANL	NNSS	U7w	Shaft	14:15:00.04	37.075055	-115.996182	4,256	-1,689	Weapons Related	20 to 200 kt	600	
939	Tortugas	03/01/1984	LANL	NNSS	U3gg	Shaft	17:45:00.09	37.065718	-116.047164	4,079	-2,095	Weapons Related	20 to 150 kt	939	
961	Towanda	05/02/1985	LANL	NNSS	U19ab	Shaft	15:20:00.08	37.253352	-116.326091	6,928	-2,166	Weapons Related	20 to 150 kt	961	

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311	Toyah	03/15/1963	LLNL	NNSS	U9ac	Shaft	16:22:53.14	37.125782	-116.045645	4,197	-429	Weapons Related	Low	311
836	Transom	05/10/1978	LANL	NNSS	U4f	Shaft	15:00:00.07	37.087728	-116.053499	4,129	-2,100	Weapons Related	Zero	836
455	Traveler	05/04/1966	LLNL	NNSS	U2cd	Shaft	13:32:17.09	37.137027	-116.138007	4,781	-648	Weapons Related	Less than 20 kt	455
892	Trebbiano	09/04/1981	LANL	NNSS	U3lj	Shaft	15:00:00.10	37.058040	-116.048943	4,062	-1,002	Weapons Related	Less than 20 kt	892
1	Trinity	07/16/1945	LANL	near Alamogordo, New Mexico	-----	Tower	12:29:00.00	33.677280	-106.475378	4,624	100	Weapons Related	21 kt	1
376	Trogon	07/24/1964	LANL	NNSS	U3dj	Shaft	18:30:00.04	37.046036	-116.013053	4,039	-633	Weapons Related	Less than 20 kt	376
658	Truchas-Chacon	10/28/1970	LANL	NNSS	U3hn	Shaft	14:30:00.03	37.013969	-116.018812	3,968	-389	Safety Experiment	Less than 20 kt	658
658	Truchas-Chamisal	10/28/1970	LANL	NNSS	U3ho	Shaft	14:30:00.04	37.013968	-116.018127	3,968	-388	Safety Experiment	Less than 20 kt	658
658	Truchas-Rodarte	10/28/1970	LANL	NNSS	U3hm	Shaft	14:30:00.04	37.014762	-116.020175	3,970	-874	Weapons Related	Less than 20 kt	658
250	Truckee	06/09/1962	LLNL	Christmas Island area	-----	Airdrop	15:37:00.00	1.490000	-157.327000	0	6,970	Weapons Related	210 kt	250
758	Trumbull	09/26/1974	LLNL	NNSS	U4aa	Shaft	14:30:00.16	37.093157	-116.095630	4,251	-863	Weapons Related	Less than 20 kt	758
550	Tub-A	06/06/1968	LLNL	NNSS	U10aj C	Shaft	21:30:00.00	37.167432	-116.043359	4,294	-620	Weapons Related	Less than 20 kt	550
550	Tub-B	06/06/1968	LLNL	NNSS	U10aj B	Shaft	21:30:00.00	37.165358	-116.044309	4,285	-620	Weapons Related	Less than 20 kt	550
550	Tub-C	06/06/1968	LLNL	NNSS	U10aj F	Shaft	21:30:00.00	37.165346	-116.041550	4,298	-620	Weapons Related	Less than 20 kt	550
550	Tub-D	06/06/1968	LLNL	NNSS	U10aj D	Shaft	21:30:00.00	37.166936	-116.045676	4,282	-896	Weapons Related	Less than 20 kt	550
550	Tub-F	06/06/1968	LLNL	NNSS	U10aj A	Shaft	21:30:00.00	37.166925	-116.042920	4,294	-620	Weapons Related	Less than 20 kt	550
1024	Tulia	05/26/1989	LANL	NNSS	U4s	Shaft	18:07:00.02	37.085818	-116.056000	4,125	-1,305	Weapons Related	Less than 20 kt	1024
714	Tuloso	12/12/1972	LANL	NNSS	U3gi	Shaft	16:30:00.04	37.031253	-116.022094	3,991	-889	Weapons Related	Less than 20 kt	714
349	Tuna	12/20/1963	LANL	NNSS	U3de	Shaft	15:24:00.13	37.052743	-116.034247	4,035	-1,359	Weapons Related	Low	349
624	Tun-A	12/10/1969	LLNL	NNSS	U10am #1	Shaft	15:30:00.07	37.167656	-116.080143	4,429	-655	Weapons Related	Less than 20 kt	624
624	Tun-B	12/10/1969	LLNL	NNSS	U10am #2	Shaft	15:30:00.07	37.169441	-116.080129	4,434	-636	Weapons Related	Less than 20 kt	624
624	Tun-C	12/10/1969	LLNL	NNSS	U10am #3	Shaft	15:30:00.07	37.167642	-116.077912	4,415	-636	Weapons Related	Less than 20 kt	624
624	Tun-D	12/10/1969	LLNL	NNSS	U10am #4	Shaft	15:30:00.07	37.169427	-116.077891	4,420	-841	Weapons Related	Less than 20 kt	624
363	Turf	04/24/1964	LLNL	NNSS	U10c	Shaft	20:10:00.15	37.149544	-116.056260	4,322	-1,661	Weapons Related	20 to 200 kt	363
53	Turk	03/07/1955	LLNL	NNSS	Area 2	Tower	13:20:00.00	37.138372	-116.118258	4,491	500	Weapons Related	43 kt	53
386	Turnstone	10/16/1964	LANL	NNSS	U3dt	Shaft	15:59:30.03	37.033470	-116.025670	3,996	-412	Weapons Related	Less than 20 kt	386
921	Turquoise	04/14/1983	LANL	NNSS	U7bu	Shaft	19:05:00.12	37.072790	-116.046825	4,088	-1,749	Weapons Related	Less than 150 kt	921
416	Tweed	05/21/1965	LLNL	NNSS	U9bn	Shaft	13:08:52.11	37.118498	-116.028555	4,292	-933	Weapons Related	Less than 20 kt	416
773	Tybo	05/14/1975	LLNL	NNSS	U20y	Shaft	14:00:00.16	37.220730	-116.475069	6,257	-2,510	Weapons Related	200 to 1,000 kt	773
579	Tyg-A	12/12/1968	LLNL	NNSS	U2dc #4	Shaft	15:10:00.08	37.120775	-116.081431	4,265	-749	Weapons Related	Less than 20 kt	579
579	Tyg-B	12/12/1968	LLNL	NNSS	U2dc #5	Shaft	15:10:00.08	37.117543	-116.080434	4,254	-824	Weapons Related	Less than 20 kt	579
579	Tyg-C	12/12/1968	LLNL	NNSS	U2dc #3	Shaft	15:10:00.08	37.118001	-116.078105	4,249	-749	Weapons Related	Less than 20 kt	579
579	Tyg-D	12/12/1968	LLNL	NNSS	U2dc #2	Shaft	15:10:00.08	37.121234	-116.079102	4,261	-679	Weapons Related	Less than 20 kt	579
579	Tyg-E	12/12/1968	LLNL	NNSS	U2dc #1	Shaft	15:10:00.08	37.119849	-116.077439	4,254	-649	Weapons Related	Less than 20 kt	579
579	Tyg-F	12/12/1968	LLNL	NNSS	U2dc #6	Shaft	15:10:00.08	37.118828	-116.082599	4,264	-869	Weapons Related	Less than 20 kt	579
506	Umber	06/29/1967	LANL	NNSS	U3em	Shaft	11:25:00.04	37.028519	-116.023488	3,988	-1,018	Weapons Effects	10 kt	506
133	Umbrella	06/09/1958	LANL/DoD	Enewetak Atoll	-----	Underwater	23:15:00.00	11.378000	162.212000	0	-150	Weapons Effects	8 kt	133
22	Uncle	11/29/1951	LANL/DoD	NNSS	U10 Uncle	Crater	20:00:00.00	37.169792	-116.043312	4,299	-17	Weapons Effects	1.2 kt	22
47	Union	04/25/1954	LANL	Bikini Atoll	-----	Barge	18:05:00.00	11.679000	165.391500	0	7	Weapons Related	6.9 Mt	47

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Test	Detonation	Date (mm/dd/yyyy) (GMT)	Sponsor	Location	Hole	Type	Time (GMT)	Latitude (degrees)	Longitude (degrees)	Surface Elevation (ft)	Height of Burst or Depth of Burial (ft)	Purpose	Yield Range	Test
119	Uranus	03/14/1958	LLNL	NNSS	U12c.01	Tunnel	22:00:00.00	37.193818	-116.200738	6,831	-114	Safety Experiment	726 grams	119
163	Valencia	09/26/1958	LANL	NNSS	U3r	Shaft	20:00:00.00	37.049538	-116.030696	4,029	-484	Safety Experiment	2 tons	163
590	Valise	03/18/1969	LLNL	NNSS	U9by	Shaft	14:30:00.12	37.139091	-116.041715	4,225	-300	Safety Experiment	Less than 20 kt	590
567	Vat ▾	10/10/1968	LLNL	NNSS	U9cf	Shaft	14:30:00.00	37.133265	-116.043183	4,208	-640	Weapons Related	Less than 20 kt	567
957	Vaughn	03/15/1985	LANL	NNSS	U3lr	Shaft	16:31:00.10	37.058025	-116.046198	4,062	-1,396	Weapons Related	20 to 150 kt	957
722	Velarde ▾	04/25/1973	LANL	NNSS	U3jk	Shaft	22:25:00.07	36.993607	-116.021912	3,948	-908	Weapons Related	Less than 20 kt	722
118	Venus	02/22/1958	LLNL	NNSS	U12d.01	Tunnel	01:00:00.00	37.193204	-116.201085	6,820	-100	Safety Experiment	1 gram	118
875	Verdello ▾	07/31/1980	LANL	NNSS	U3ku	Shaft	18:19:00.09	37.012995	-116.023615	3,970	-1,200	Weapons Related	Less than 20 kt	875
952	Vermejo ▾	10/02/1984	LANL	NNSS	U4r	Shaft	18:14:00.10	37.085180	-116.053674	4,119	-1,149	Weapons Related	Less than 20 kt	952
175	Vesta	10/17/1958	LLNL	NNSS	S9e	Surface	23:00:00.00	37.122600	-116.035400	4,226	0	Safety Experiment	24 tons	175
1051	Victoria	06/19/1992	LANL	NNSS	U3kv	Shaft	16:45:00.00	37.005372	-116.011008	3,956	-801	Weapons Related	Less than 20 kt	1051
885	Vide	04/30/1981	LLNL	NNSS	U8k	Shaft	14:35:00.08	37.177285	-116.085633	4,506	-1,061	Weapons Related	Less than 20 kt	885
479	Vigil	11/22/1966	LLNL	NNSS	U10ad	Shaft	15:00:00.13	37.169336	-116.049185	4,281	-307	Safety Experiment	Less than 20 kt	479
963	Ville ▾	06/12/1985	LLNL	NNSS	U4am	Shaft	17:30:00.09	37.088265	-116.084808	4,189	-955	Weapons Related	Less than 20 kt	963
953	Villita ▾	11/10/1984	LANL	NNSS	U3ld	Shaft	16:40:00.09	37.000056	-116.018245	3,952	-1,221	Weapons Related	Less than 20 kt	953
585	Vise ▾	01/30/1969	LANL	NNSS	U3ej	Shaft	15:00:00.04	37.053271	-116.030130	4,038	-1,490	Weapons Related	20 to 200 kt	585
507	Vito	07/14/1967	LLNL	NNSS	U10ab	Shaft	13:30:00.08	37.165201	-116.045800	4,280	-317	Safety Experiment	Less than 20 kt	507
467	Vulcan ▾	06/25/1966	LLNL	NNSS	U2bd	Shaft	17:13:00.07	37.155257	-116.073029	4,354	-1,057	Plowshare	25 kt	467
1003	Waco	12/01/1987	LANL	NNSS	U3lu	Shaft	16:30:00.09	36.996362	-116.005332	3,946	-600	Weapons Related	Less than 20 kt	1003
404	Wagtail	03/03/1965	LANL	NNSS	U3an	Shaft	19:13:00.03	37.064465	-116.038050	4,060	-2,459	Weapons Related	20 to 200 kt	404
125	Wahoo	05/16/1958	LANL/DoD	Enewetak Atoll	----	Underwater	01:30:00.00	11.343500	162.174900	0	-500	Weapons Effects	9 kt	125
735	Waller	10/02/1973	LLNL	NNSS	U2bz	Shaft	15:15:00.16	37.153864	-116.068579	4,333	-1,020	Weapons Related	Less than 20 kt	735
136	Walnut	06/14/1958	LANL	Enewetak Atoll	----	Barge	18:30:00.00	11.684700	162.239850	0	7	Weapons Related	1.45 Mt	136
488	Ward ▾	02/08/1967	LLNL	NNSS	U10x	Shaft	15:15:00.13	37.167476	-116.048002	4,278	-853	Weapons Related	Less than 20 kt	488
510	Washer	08/10/1967	LLNL	NNSS	U10r	Shaft	14:10:00.00	37.156644	-116.048142	4,257	-1,534	Weapons Related	Less than 20 kt	510
50	Wasp	02/18/1955	LANL	NNSS	Area 7	Airdrop	20:00:00.00	37.086535	-116.022735	4,195	762	Weapons Effects	1 kt	50
58	Wasp Prime	03/29/1955	LANL	NNSS	Area 7	Airdrop	18:00:00.00	37.086535	-116.022735	4,194	739	Weapons Related	3 kt	58
565	Welder ▾	10/03/1968	LANL	NNSS	U3fs	Shaft	14:00:00.04	37.046478	-116.030608	4,022	-386	Safety Experiment	Less than 20 kt	565
549	Wembley ▾	06/05/1968	LANL	NNSS	U3ey	Shaft	14:21:30.34	37.034796	-116.016922	3,998	-781	Weapons Related	Less than 20 kt	549
949	Wexford ▾	08/30/1984	LLNL	NNSS	U2cr	Shaft	14:45:00.00	37.143840	-116.126129	4,604	-1,030	Weapons Related	Less than 20 kt	949
107	Wheeler	09/06/1957	LLNL	NNSS	Area 9	Balloon	12:45:00.00	37.134742	-116.041648	4,230	500	Weapons Related	197 tons	107
244	White ▾	05/25/1962	LLNL	NNSS	U9b	Shaft	15:00:00.15	37.124812	-116.052860	4,201	-632	Weapons Related	Low	244
1031	Whiteface-A	12/20/1989	LANL	NNSS	U3lp	Shaft	22:00:00.06	37.025813	-116.032072	3,985	-646	Safety Experiment	Less than 20 kt	1031
1031	Whiteface-B	12/20/1989	LANL	NNSS	U3lp	Shaft	22:00:00.06	37.025813	-116.032072	3,985	-599	Safety Experiment	Less than 20 kt	1031
113	Whitney	09/23/1957	LLNL	NNSS	Area 2	Tower	12:30:00.00	37.138372	-116.118258	4,486	500	Weapons Related	19 kt	113
273	Wichita ▾	07/27/1962	LLNL	NNSS	U9y	Shaft	21:00:00.16	37.129666	-116.057353	4,239	-493	Weapons Related	Low	273
64	Wigwam	05/14/1955	LANL/DoD	Pacific	----	Underwater	20:00:00.00	28.733340	-126.266743	0	-2,000	Weapons Effects	30 kt	64
90	Wilson	06/18/1957	LLNL	NNSS	Area 9	Balloon	11:45:00.00	37.134742	-116.041648	4,230	500	Weapons Related	10 kt	90
588	Winch	02/04/1969	LANL	NNSS	U3gf	Shaft	15:00:00.04	37.009391	-116.043169	3,977	-789	Weapons Related	Less than 20 kt	588
583	Wineskin ▾	01/15/1969	LLNL	NNSS	U12r	Shaft	19:30:00.04	37.209080	-116.226276	7,514	-1,700	Weapons Related	20 to 200 kt	583

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402	Wishbone ▀	02/18/1965	LLNL/DoD	NNSS	U5a	Shaft	16:18:47.15	36.817963	-115.950093	3,086	-574	Weapons Effects	Less than 20 kt	402	
284	Wolverine	10/12/1962	LANL	NNSS	U3av	Shaft	17:00:00.12	37.048734	-116.033427	4,027	-241	Weapons Related	Low	284	
397	Wool ▀	01/14/1965	LLNL	NNSS	U9bh	Shaft	16:00:00.14	37.118976	-116.025639	4,310	-709	Weapons Related	Less than 20 kt	397	
521	Worth	10/25/1967	LLNL	NNSS	U10ag	Shaft	14:45:00.08	37.156291	-116.049466	4,251	-646	Weapons Related	Less than 20 kt	521	
179	Wrangell	10/22/1958	LLNL	NNSS	Area 5	Balloon	16:50:00.00	36.797923	-115.929776	3,077	1,500	Weapons Related	115 tons	179	
4	X-Ray	04/14/1948	LANL	Enewetak Atoll	-----	Tower	18:17:00.00	11.665300	162.234000	0	200	Weapons Related	37 kt	4	
48	Yankee	05/04/1954	LANL	Bikini Atoll	-----	Barge	18:10:00.00	11.679000	165.391500	0	7	Weapons Related	13.5 Mt	48	
635	Yannigan-Blue ▀	02/26/1970	LLNL	NNSS	U2ay #3	Shaft	15:30:00.04	37.113755	-116.066669	4,214	-1,193	Weapons Related	20 to 200 kt	635	
635	Yannigan-Red ▀	02/26/1970	LLNL	NNSS	U2ay #1	Shaft	15:30:00.04	37.116315	-116.062313	4,214	-1,286	Weapons Related	20 to 200 kt	635	
635	Yannigan-White ▀	02/26/1970	LLNL	NNSS	U2ay #2	Shaft	15:30:00.04	37.118002	-116.067318	4,227	-1,295	Weapons Related	20 to 200 kt	635	
514	Yard ▀	09/07/1967	LLNL	NNSS	U10af	Shaft	13:45:00.00	37.153110	-116.053654	4,257	-1,708	Weapons Related	20 to 200 kt	514	
128	Yellowwood	05/26/1958	LANL	Enewetak Atoll	-----	Barge	02:00:00.00	11.659775	162.223408	0	11	Weapons Related	330 kt	128	
690	Yerba ▀	12/14/1971	LANL	NNSS	U1c	Shaft	21:10:01.04	37.023210	-116.059499	4,031	-1,089	Weapons Related	Less than 20 kt	690	
251	Yeso	06/10/1962	LANL	Christmas Island area	-----	Airdrop	16:01:00.00	1.380000	-157.195000	0	8,325	Weapons Related	3 Mt	251	
5	Yoke	04/30/1948	LANL	Enewetak Atoll	-----	Tower	18:09:00.00	11.619410	162.313825	0	200	Weapons Related	49 kt	5	
274	York ▀	08/24/1962	LLNL	NNSS	U9z	Shaft	15:00:00.15	37.118588	-116.040353	4,208	-743	Weapons Related	Low	274	
326	Yuba	06/05/1963	LLNL	NNSS	U12b.10	Tunnel	17:00:00.12	37.196527	-116.210043	7,438	-796	Weapons Related	3.1 kt	326	
120	Yucca	04/28/1958	LANL/DoD	Pacific	-----	Balloon	02:40:00.00	12.616667	163.016667	0	86,000	Weapons Effects	1.7 kt	120	
234	Yukon	05/08/1962	LLNL	Christmas Island area	-----	Airdrop	18:01:00.00	1.565000	-157.365000	0	2,880	Weapons Related	100 kt	234	
72	Yuma	05/27/1956	LLNL	Enewetak Atoll	-----	Tower	19:56:00.00	11.618730	162.314125	10	205	Weapons Related	190 tons	72	
517	Zaza ▀	09/27/1967	LANL	NNSS	U4c	Shaft	17:00:00.04	37.098718	-116.054096	4,158	-2,188	Weapons Related	20 to 200 kt	517	
6	Zebra	05/15/1948	LANL	Enewetak Atoll	-----	Tower	18:04:00.00	11.551450	162.348100	10	200	Weapons Related	18 kt	6	
700	Zinnia ▀	05/17/1972	LLNL	NNSS	U2dk	Shaft	14:10:00.16	37.120509	-116.088767	4,279	-1,059	Weapons Related	Less than 20 kt	700	
63	Zucchini	05/14/1955	LANL	NNSS	Area 7	Tower	12:00:00.00	37.094780	-116.024575	4,245	500	Weapons Related	28 kt	63	
71	Zuni	05/27/1956	LLNL	Bikini Atoll	-----	Surface	17:56:00.00	11.503166	165.370537	9	0	Weapons Related	3.5 Mt	71	

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Abbreviations and Acronyms

AEC	Atomic Energy Commission
AFSWP	Armed Forces Special Weapons Project
ASROC	Antisubmarine Rocket
CY	Calendar Year
DASA	Defense Atomic Support Agency
DNA	Defense Nuclear Agency
DoD	U.S. Department of Defense
DOE	U.S. Department of Energy
DOE/NV	U.S. Department of Energy, Nevada Operations Office
DSWA	Defense Special Weapons Agency
DTRA	Defense Threat Reduction Agency
ERDA	Energy Research and Development Administration
ESS	Effects SubSurface
ft	foot
GMT	Greenwich Mean Time
HA	High Altitude
JVE	Joint Verification Experiment
kt	kiloton
LANL	Los Alamos National Laboratory
LASL	Los Alamos Scientific Laboratory
LLL	Lawrence Livermore Laboratory
LLNL	Lawrence Livermore National Laboratory
LRL	Lawrence Radiation Laboratory
MET	Military Effects Tests
mm	millimeter
Mt	megaton
NAFR	Nellis Air Force Range
NNSS	Nevada National Security Site

NTS	Nevada Test Site
NTTR	Nevada Test and Training Range
RL	Radiation Laboratory
TNT	trinitrotoluene
UK	United Kingdom
US/U.S.	United States

Glossary

Airburst	A type of atmospheric test in which the explosion of a nuclear weapon occurred at such a height that the expanding fireball did not touch the earth's surface before the fireball reached its maximum luminosity. The airburst reported in this document (<i>Grable</i> , test #42) resulted from the detonation of an MK9 device fired from a 280mm gun.
Airdrop	A type of atmospheric test in which a nuclear device was dropped from an aircraft and exploded in the atmosphere.
Atmospheric	A test conducted above ground or above water (i.e., in the open air).
Balloon	A type of atmospheric test in which a nuclear device was suspended from a balloon and exploded in the atmosphere.
Barge	A type of atmospheric test in which a nuclear device exploded on a barge moored in the lagoon at Enewetak Atoll or Bikini Atoll.
Cementback	Operation whereby the drill hole was sealed with a plug and cemented to the surface.
Controlled release	A planned, filtered release frequently performed to reduce airborne radiation levels in the working environment.
Crater	A type of underground test in which a surface depression was formed by the detonation of a nuclear device placed shallow enough underground to produce a throw-out of earth when exploded. (Also see <i>subsidence crater</i> .)
Detonation	A single nuclear device explosion; one or more comprised a test.
Drillback	Directional drilling operation, performed after test activities were ceased, to sample fission product materials in the test cavity. While nearly all later tests had directional drilling, some early tests had vertical sample drilling from the crater floor.
Gas sampling	Operation, usually performed after test activities were ceased, to determine levels of noble gases present. Some prompt gas-sampling activities were conducted very soon after the detonation (mostly LLNL sampling).
Hole	The location of a nuclear weapon test/detonation conducted at the NNSS. The uppercase alpha designator refers to the type of location (i.e., S = surface, U = underground). The numeric designator refers to the geographical area of the NNSS. The remaining letters generally were sequential but could also represent subareas (e.g., U10ca, U10cb). In the case of most atmospheric tests, only the geographical area of the NNSS is given.
Joint US-UK	A nuclear test conducted jointly by the United States and the United Kingdom under a cooperative agreement that has remained in effect between the two countries since August 4, 1958.

Kiloton	The energy of a nuclear explosion that is equivalent to the explosive power of 1,000 tons of TNT.
Megaton	The energy of a nuclear explosion that is equivalent to the explosive power of 1 million tons of TNT.
Mudpit release	A breach of a pit used to contain radioactively contaminated mud generated from post-shot drillback operations.
Nellis Air Force Range	Former name of the Nevada Test and Training Range.
Nevada National Security Site	An area of land established as the Atomic Energy Commission's on-continent proving ground in 1950. The NNSS is located 65 miles northwest of Las Vegas in Nye County and covers an area of approximately 1,360 square miles.
Nevada Test and Training Range	An area of land that surrounds the east, north, and most of the west boundary of the NNSS. The NTTR is controlled by the U.S. Air Force and covers more than 4,500 square miles.
Nevada Test Site	Former name of the Nevada National Security Site.
Offsite	Any place outside the Test Range Complex or an area withdrawn/secured for a nuclear test within the continental boundaries of the United States.
Onsite	A notation that <i>radioactivity was detected onsite only</i> is made for any test from which there was a release of radioactivity into the atmosphere that was not detectable beyond the boundaries of the Test Range Complex or Offsite location.
Plowshare	A test in the Plowshare Program intended to explore the application of nuclear explosives to peaceful uses. Potential uses included excavating (various applications), producing isotopes, and fracturing tight geologic formations (enhanced oil and gas extraction).
Retarc	<i>Sulky</i> , test #396, was intended to form a throw-out crater, but at the depth of burial used, the stronger-than-expected rock medium confined the explosive energy of the detonation so that only a mound of broken rock was formed. This was dubbed a "retarc" ("crater" spelled backward).
Rocket	A type of atmospheric test in which a nuclear device was launched by rocket and exploded in the atmosphere.
Roman Candle	A test conducted underground in an unstemmed hole to minimize, but not eliminate, the release of radioactivity to the atmosphere. Because radiation-induced fluorescence was seen as a beam of light, this was sometimes referred to as a "Roman candle" effect.
Safety Experiment	An experiment designed to confirm that a nuclear explosion would not occur in case of an accidental detonation of the chemical explosive associated with the device.

Seismic Calibration	A test conducted to evaluate seismic effects of an underground explosion.
Shaft	A type of underground test in which a nuclear device exploded at the bottom of a drilled or mined vertical hole. Some safety tests were set off at the bottom of unstemmed drilled holes.
Simultaneous	Two or more underground nuclear explosions (detonations) conducted within an area delineated by a circle having a diameter of 2 kilometers (1.24 miles) and conducted within a total period of time that did not exceed 0.1 second.
Site	The land area withdrawn for U.S. government testing purposes (e.g., NNSS, NTTR, Project Shoal) or the area secured to ensure no inadvertent public intrusion (e.g., Amchitka Island and Rulison test vicinity). Almost all nuclear tests were conducted within an area withdrawn from public domain; however, this was not true for Amchitka and Rulison underground nuclear tests, where no formal land withdrawal was recorded.
Sponsor	The organization(s) (i.e., national weapons laboratory or laboratories, the U.S. Department of Defense, and/or the United Kingdom) responsible for conducting a particular nuclear test/detonation.
Storage-Transportation	Detonations of combinations of high explosives and nuclear materials designed to study distribution of nuclear materials following accidents in several transportation and storage configurations. There was no nuclear yield.
Subsidence crater	A depression that may form at the ground surface following an underground detonation. At the end of the dynamic phase of cavity growth, a pressurized standing cavity is present. As the cavity pressure and temperature decrease, the roof of the cavity becomes unstable and falls into the cavity. The top of the so-called "chimney," now formed above the cavity, continues to fall into the void. A phenomenon known as "bulking" results in the fallen material having decreased density from its normal state, hence increased volume. If the bulking fills the chimney, collapse stops without reaching the surface. Such a subsurface collapse can also be caused by the chimney's intercepting a high-strength geologic structure. When the chimney reached the surface, a subsidence crater was formed. The size of the subsidence crater depends on the yield of the device, the depth of emplacement, and the geological characteristics of the surrounding soil.
	A throw-out crater (see <i>crater</i>) is formed by a totally different mechanism than a subsidence crater.
Surface	A type of atmospheric test in which a nuclear device was placed on or close to the earth's surface, but no more than 10 ft off the ground.
Surface elevation	The vertical distance from mean sea level to a point on the earth's surface; generally refers to the surface ground zero of a nuclear device test/detonation.
Test	Defined in the Threshold Test Ban Treaty as either a single underground nuclear explosion conducted at a test site, or two or more underground nuclear explosions conducted within an area delineated by a circle having a diameter of 2 kilometers and conducted within a total period of time that did not exceed 0.1 second.

Test Range Complex	An area that includes both the NNSS and the adjacent U.S. Air Force-controlled NTTR.
Thermonuclear device	Commonly referred to as a “hydrogen bomb,” part of the explosion energy from this device resulted from the fusion of light nuclei such as those of hydrogen isotopes.
Ton	The energy of a nuclear explosion that is equivalent to the explosive power of 1 ton of TNT. (The yield of a nuclear device is a measure of the amount of energy released when it explodes. It is stated in terms of the quantity of TNT that would produce the same amount of explosive energy.) By definition, 1 ton is equivalent to 10^9 (E9) calories.
Tower	A type of atmospheric test in which a nuclear device was mounted near the top of a steel or wooden tower and exploded in the atmosphere 10 ft or more above the ground.
Tunnel	A type of underground test in which a nuclear device exploded within a horizontal drift mined into a mountain or mesa in a way that placed the burst point deep within the earth.
Underground	A test in which a nuclear device exploded in a tunnel, or near the bottom of a drilled or mined hole or shaft. Some underground nuclear tests were not designed to contain all radioactivity (e.g., cratering tests or safety experiments).
Underwater	A test in which a nuclear device was detonated underwater.
Vela Uniform	A U.S. Department of Defense program designed to improve the capability to detect, identify, and locate underground nuclear explosions.
Verification Experiment	A test on which the former Soviet Union exercised its right to verify under the terms of the Threshold Test Ban Treaty.
Weapons Effects	A type of atmospheric test conducted to evaluate the civil or military effects of a nuclear detonation on various targets, such as military hardware.
Weapons Related	A type of atmospheric test conducted for the purpose of testing a nuclear device intended for a specific type of weapon system.
Yield	The total effective energy released in a nuclear explosion. It is usually expressed in terms of equivalent tonnage of TNT required to produce the same energy release in an explosion.

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