

OBSERVED NTS WEATHER EXTREMES (1957 – 2007)

Temperature

NTS Maximum:	115°F	Areas 5, 22, 25	Jul 98, 02
NTS Minimum:	-14°F	Area 6 (UCC)	Dec 1967
	-20°F	Area 19 (Pahute Mesa)	Jan 1970

Extreme Ranges

Frenchman Flat:	115°F;	-8°F	Jackass Flats:	115°F;	2°F
Yucca Flat:	112°F;	-14°F	Mercury:	113°F;	11°F
Desert Rock	115°F;	6°F	Rainier Mesa:	94°F	-11°F
Max T ≥ 100°F:	52 days (Area 5)		Min T ≤ 32°F:	22 days (MER)	
Max T ≥ 90°F:	155 days (Area 5)		Min T ≤ 32°F:	155 days (UCC)	
	Max T ≤ 32°F:		24 days (Rainier Mesa)		

Precipitation

Maximum Daily Rainfall:	3.77 inches	Rock Valley	09/21/2007
Maximum 24hour Rainfall:	4.68 inches	Jackass Flat	09/21-22/2007
Maximum Annual Rainfall:	26.87 inches	Rainier Mesa	1978
Maximum Daily Snowfall:	10 inch	Yucca Flat	1974
	6 inch	Desert Rock	1987
Maximum Monthly Snowfall:	29.1 inch	Yucca Flat	1974
Total Number of Hail Days:	24 events	Yucca Flat	1957-Jun1978
Total Number of Hail Days:	3 events	Desert Rock	Jun 1978-2002
Maximum Number TRW Days	20 days	Yucca Flat	1967, 1963-Jun1978
Maximum Number TRW Days	23 days	Desert Rock	1984, Jun1978-2002
Total Number Ice/Snow Pellets Days	11 days	Desert Rock	Jun1978-2002
Total Number Ice/Snow Pellets Days	36 days	Yucca Flat	1957- Jun1978
Freezing Rain was observed once at DRA; in Feb. 1982			

Wind Speed

Maximum Wind Gust:	94 MPH	Feb 14, 1984
Maximum 5-min Average:	64 MPH	Feb 14, 1984
Duststorm/Sandstorm Days:	Desert Rock: 0	Yucca Flat: 1 Feb 1964

Fog

Desert Rock (DRA), 1970 through 2002:

Fog is rare at the NTS; however, in Jan 1995, 12 fog days were observed at DRA. And, in Jan 1993, there were 8 fog days at DRA. The average number of fog days at DRA, for 1978 through 2002, is 5 days per year. During the 25 year record, there have been only 3 fog days that reduced visibility to ¼ mile or less at DRA.

Fog between April 1st through October 31st is very rare at DRA; having been reported on only 10 days in 25 years.

Yucca Flat (UCC), 1957 through 1978

Six fog days, Feb 1969 and Jan 1974. No fog events have reduced visibility to ¼ mile or less at Yucca Flat.

The average number of fog days at Yucca Flat for 1957 through 1978 is 3 to 4 days per year.

Fog is rare between May 1st through September 30th, having been reported on only 4 days in 16 years of continuous observations.

Cloud-to-Ground (CG) Lightning (within boundary of NTS)

Maximum: 2532 total flashes in 1999 warm season
Minimum: 409 total flashes in 1995 warm season

Maximum Positive: 58 in 1998

Minimum CG flashes occur between 0800 and 0900 PDT

Maximum CG activity tends to occur between 1300 and 1600 PDT

The most active CG Areas are 12, 19, 20, and 22

Average separation distance between successive CG flashes is 3.4 miles

Peak CG flash current detected has been -167,000 amps

Bases on eight warm seasons, the mean annual (warm season) cloud-to-ground flash density for the NTS is 0.35 flashes/km² (For safety analyses it is recommended that this flash density be rounded up to 0.40 flashes/km² to account for limits on detectability)