



THE UNIVERSITY OF ARIZONA
TUCSON

COLLEGE OF ENGINEERING
DEPARTMENT OF NUCLEAR ENGINEERING

May 29, 1961

Mr. John E. Bowyer
Senior Licensing Reviewer
Isotopes Branch
Division of Licensing and Regulation
U. S. Atomic Energy Commission
Washington 25, D. C.

Dear Mr. Bowyer:

License No. 2-756-16

The University of Arizona hereby requests the Atomic Energy Commission's approval of the proposed radioisotope burial facility described herein. A description of the general environment, topographical, geological and meteorological characteristics of the area is contained in the enclosed letter from Mr. Houston, Director of the Physical Plant. The burial site will be enclosed by a five foot, four strand barbed wire fence. In addition, the area will be clearly marked in its entire with the proper radiation warning signs. All disposal by burial will be in accordance with Title 10, Part 20.304 of the Code of Federal Regulations. The burial facility will be used when appropriate for those radioisotopes as covered under the University Broad Byproduct Materials License No. 2-756-16.

Sincerely yours,

Lynn E. Weaver, Chairman
University Radioisotope Committee

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Enclosures

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FOR D.R. OF RECORD

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THE UNIVERSITY OF ARIZONA
TUCSON

**PHYSICAL PLANT
OFFICE OF THE DIRECTOR**

May 23, 1961

MEMORANDUM TO: Dr. Lynn E. Weaver
Head of Department of Nuclear Engineering

REGARDING: Isotope Burial Grounds Information

As per your discussion with Mr. Trimble a few days ago, I am enclosing the following information.

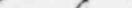
1. U. S. Geological Survey Topographic Map
 2. Arizona Bureau of Mines Geological Map
 3. Meteorological information from the Institute of Atmospheric Physics

A personal examination of the site by Mr. Trimble indicates that there is no known population in the immediate site, except as shown in various scattered ranches throughout the area. The closest significant inhabited area is approximately five miles from the site. In general, the area is open terrain without any significant ground water run-off.

The only other factor that may affect this area being used as a radioactive burial ground may be the construction of a Titan Guided Missile Silo which is located approximately one and one-half miles south of this proposed burial ground.

If you have any further questions regarding the above information, please contact Mr. Trimble of this department.

Yours very truly,


Robert L. Houston
Director of Physical Plant

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POOR ORIGINAL

INSTITUTE OF ATMOSPHERIC PHYSICS, UNIVERSITY OF ARIZONA,
AND THE U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU,
CLIMATOGRAPHY OF THE UNITED STATES NO. 20-2

LATITUDE 32° 34'
LONGITUDE 110° 43'
ELEV. (GROUND) 4450 feet

Climatological Summary

STATION: ORACLE
STATION NO. 02-5116-6

MEANS AND EXTREMES FOR PERIOD 1893 - 1957

Month	Temperature (°F)						Estimated mean degree days**	Precipitation Totals (inches)						Estimated relative humidity (percent)	Mean number of days						
	Mean			Extremes				Snow, Sleet, Hail			6400 MSL				Temperature						
	Daily maximum	Daily minimum	Average	Record high	Year	Record low		Month	Maximum monthly	Year	6400 MSL	1800 MSL	precip. 10 inches & more	90 days above normal	27 days below normal	37 days below normal	7 days below normal	Mean			
Jan.	54	33	53	54	54	53	53	53	55	55	54	46	54	46	45	45	45	45	45	45	
Feb.	56.9	34.6	45.8	83	1927	2	1937	595	2.07	3.41	1916	3.0	26.3	1937	66	48	4	0	*	12	0
Mar.	59.7	36.2	48.0	83	1937	5	1939	476	1.84	1.44	1941	2.9	16.3	1948	55	47	4	0	*	8	0
Apr.	64.9	39.4	52.1	86	1934	18	1954*	400	1.61	1.92	1954	2.2	19.0	1924	38	38	3	0	0	6	0
May	73.5	45.2	58.4	94	1943	23	1938	198	0.78	1.40	1919	0.5	5.7	1945	31	28	2	*	0	1	0
June	81.8	52.2	67.0	102	1896	30	1950*	62	0.32	1.13	1944	7	1.0	1915	41	24	1	4	0	*	0
July	91.8	61.9	76.9	108	1929	38	1933	0	0.45	1.45	1899	7	T	1952*	7	22	1	20	0	0	0
Aug.	92.2	67.1	79.7	105	1953*	51	1938*	0	2.81	2.22	1947	T	T	1954*	60	38	6	21	0	0	0
Sept.	89.2	65.5	77.4	103	1944*	50	1938	0	3.24	2.64	1910	T	1.0	1954	72	42	7	15	0	0	0
Oct.	86.4	61.1	73.8	101	1952*	39	1941	0	1.60	3.23	1954	T	T	1940*	62	37	3	9	0	0	0
Nov.	77.1	51.0	64.0	96	1934	29	1956*	62	0.94	1.10	1914	T	0.3	1948	55	39	2	1	0	*	0
Dec.	66.2	41.9	54.0	88	1916	14	1931	330	1.53	2.85	1931	0.8	10.0	1931*	57	42	2	0	0	3	0
Year	57.8	35.9	46.9	79	1933*	8	1934	561	2.16	4.30	1923	2.2	24.0	1915	67	53	4	0	*	10	0
	74.8	49.3	62.1	108	1929	2	1937	2684	19.35	4.30	1923	11.6	26.3	1937	58	38	37	70	*	40	0
																				Year	

(a) Average length of record, years

(b) Also on earlier dates, months, or years

* Data for period too short to measure

** Less than one half

** Below 65 F.

CLIMATE OF ORACLE, ARIZONA

Oracle is located at an elevation of 4450 feet in the beautiful desert country of southeastern Arizona. Towering over the town to the south are the stately pine-covered, Santa Catalina Mountains, reaching a height of 9185 feet on Mt. Lemmon. The terrain slopes gently downward to the east, west, and north of Oracle, with the San Pedro Valley lying ten miles to the east, the Santa Cruz Valley, thirty miles to the west, and the Gila River, twenty miles to the north. Across the San Pedro Valley, about twenty miles from Oracle, the Gilauro Mountains rise above 7000 feet. The prevailing vegetation types in the area are mesquite grass, palo verde, and cacti at lower elevations and chaparral and oak woodland in the Catalina foothills. Stands of ponderosa pine are common above 6500 feet in the Catalinas and Gilauros.

The mountains to the south have a marked effect on the climate of Oracle, particularly on the amount of precipitation that it receives each year. Like most towns in Arizona, Oracle has two rainy seasons, one in winter and the other in summer. During both periods, but especially in winter, the prevailing air flow is upslope. Since such flow tends to increase precipitation, Oracle receives annual amounts that are between fifty and one hundred percent greater than those received in the lower lying regions to the east and west. Winter storms, normally originating in the North Pacific Ocean, cross the continent from west to east. They usually bring only gentle, widespread showers to Arizona. However, the intensity of these showers can occasionally approach that of thunderstorms. For example, on December 10, 1923, 4.30 inches of precipitation were reported at Oracle. More than a fourth of this fell as snow.

In summer, Arizona is affected by a strong flow of moist, unstable air from the Gulf of Mexico. Numerous afternoon and evening showers and thundershowers develop in this air as it moves northward over the strongly heated land surface. Precipitation is normally heaviest in mountainous country, particularly on the windward, or southern, side of the larger mountain ranges of southeastern Arizona. Following this reasoning, it might be expected that summer rains at Oracle would be reduced because of its position on the leeward side of the Catalina Mountains. This is true to a certain extent, however, on most midsummer days, a part of the moist air flows down the San Pedro Valley, bypassing the Catalinas, and approaches Oracle upslope from the southeast and east. It is also possible for storms to spread out over the town directly from the Catalinas.

Because of its location and its elevation of about 4450 feet, Oracle has a delightful thermal climate. In summer, average temperatures range from the middle sixties in the early morning to the low nineties in the afternoon. Readings above 100 degrees are quite rare, and when they do occur they are always associated with very dry air. It is not unusual for the highest temperature on some summer days to fall below ninety degrees.

(continued on the last page)

POOR ORIGINAL

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AVERAGE MONTHLY TEMPERATURES (°F) FOR CAZACLA, ARIZONA

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1893	49.4	49.5	50.4	50.5	57.7	81.0	79.2	75.7	71.9	64.0	51.3	49.2	62.5
1894	42.0	42.8	51.4	62.2	71.4	75.1	81.3	77.1	73.5	68.5	60.5	49.5	61.8
1895	46.0	47.9	55.4	63.0	71.3	78.6	80.8	77.8	74.8	60.4	49.8	44.1	61.7
1896	49.4	48.7	55.3	58.3	69.6	82.5	79.7	77.6	73.3	61.9	54.4	50.0	63.4
1897	43.2	45.3	48.7	52.3	71.9	77.1	80.7	79.5	74.3	61.7	57.0	41.6	61.0
1898	37.9	52.0	49.7	63.2	64.7	76.8	75.3	78.7	73.1	64.1	51.9	47.6	51.2
1899	44.1	45.0	53.9	60.4	63.9	74.3	77.7	75.9	76.3	61.2	54.3	47.6	63.8
1900	49.4	48.5	57.0	54.0	69.4	79.4	82.1	77.5	70.8	63.3	56.1	48.8	63.0
1901	47.0	46.3	52.4	57.9	67.8	75.4	81.3	79.1	75.2	64.4	56.7	48.4	62.7
1902	47.3	48.5	49.8	62.9	67.0	79.7	79.6	78.4	74.6	67.5	50.7	47.6	62.8
1903	46.3	41.8*	52.3	60.8*	67.4	77.9	81.0	78.4	72.7	64.3	58.8	48.8	62.5
1904	45.6	53.2	57.2	62.4	70.4	80.1	81.0*	76.7	71.8	63.1	56.3	47.5	63.8
1905	49.7	48.0	51.2	58.3	67.8	80.1	80.3	79.1	74.7	65.2	51.6	41.1	63.0
1906	45.1	48.9	52.7	61.3	66.0	75.8	79.9	76.4	72.7	61.6	53.6	44.4	62.7
1907	45.9	54.4*	54.2	61.3	77.7	77.7	76.7	72.9	61.6	65.0	54.4	47.6	61.3
1908	50.1	48.7	47.5	59.7	65.3	78.8					55.1	50.4	
1909								79.4*					
1910		48.2	59.5										
1911	50.0	46.8	57.5	60.8	68.3	76.9							
							July 1911						
								July 1912					
1912									71.5	59.6	53.8	42.4	
1913	41.6	43.2	48.1	59.3	66.6	71.6	76.6*	76.0	71.5	64.4	54.1	42.8*	59.7
1914	49.1	47.5	53.4	59.8	67.0	75.8	75.3	77.5	71.9	57.0	58.0	43.1	61.3
1915	43.6	45.1	48.5	62.4	75.8	78.3	79.0	72.0	67.5	55.7	44.1	61.9	
1916	46.7	52.5	56.9	58.2	65.8	75.6	77.4	74.8	72.5	62.2	58.9	52.9	62.0
1917	44.0	47.3	49.5	55.8*	60.6*	78.9*	79.8	78.5	73.2	64.2	49.3	43.0*	61.5
1918	44.3	50.3	55.0	57.3	63.9	79.7	78.7	76.7	74.5	65.5	51.4	49.7	60.6
1919	43.8	40.5	50.2	59.9	66.5	77.5	76.0	77.0	71.4	60.3			
1920		46.6											
1921													
1922													
1923													
1924	44.4	51.5	46.4	53.4	65.6	74.1	78.8	74.7	71.9	60.8	55.9	46.0	
1925	45.3	52.3	56.1	60.7	65.7	73.2	80.3	75.9	71.8	61.1	52.6	45.3	62.1
1926	42.6	51.2	51.5	57.1	65.1	77.7	79.3			74.8	67.1	57.3	44.5
1927	52.9	51.0	51.1	58.5	67.4	75.5	81.0	75.7	71.4	65.0	59.4	43.0	62.9
1928	45.9	46.3	54.8*										
1929													
1930	45.0*	54.2*	51.7*	63.0*	62.8*	78.2*	78.4*	75.3*	74.1*	64.5*	52.7	45.5*	62.4
1931	46.1*	48.5*	54.5*	61.9*	70.4*	77.4*	81.6*	77.3*	72.3*	67.3*	50.0*	45.3*	63.0
1932	41.2*	49.4*	54.0*	60.4*	68.0*	76.9	79.7*			77.3*	65.2*	58.3*	43.0*
1933	44.0*	45.3*	56.4*	65.8*	79.0*	81.3*	81.3*	78.0*	68.5*	68.5*	58.1	53.2*	51.2
1934	49.4*	54.6*	62.4*	67.1	75.6	76.1	82.9			71.3*	55.9*	52.9*	
1935	47.2*	49.8	51.7*	60.6*	63.5*	80.5	81.5*	78.8*	74.2*	65.5*	52.7*	45.5*	
1936		48.5*		65.2*		81.5	81.7*						
1937	44.7	46.5	49.1	56.7	66.2*	73.5	78.1	75.7	74.5	65.0	47.7	46.1	60.5
1938	45.6	46.8	49.1	57.5	64.9	75.0	77.6	76.6	74.3*	63.7	50.2*	51.3*	60.9
1939	44.0*	37.8	51.4	59.8	66.3	75.3	79.5	77.4	71.8	60.9	55.3		
1940	47.7	46.9	53.5	58.1	68.7	76.3	79.2	77.2	73.2	63.6	51.5	50.9	62.2
1941	46.8	50.1	50.8	52.3*	64.9	71.1	77.9	74.9	70.3	59.0	54.1	46.0	59.4
1942	46.5	43.0	47.4	54.8	63.9	77.8*	80.9	75.7	72.3	60.7	56.2	47.0	60.1
1943	48.4	52.9*	55.7	63.1	71.2	76.9	80.4	81.3	77.0	77.2	57.4	46.6	64.6
1944	45.2	43.7	48.9	56.3	66.3						50.2*	48.0	
1945	46.2	50.2	48.3	56.9*	68.2	74.8							
1946	43.5	54.6	54.6	60.9	72.0	76.7	80.3	77.2	77.9		48.0*	43.6	
1947	49.0	45.7	47.5	63.0	70.6	78.0	81.3	75.7	77.5	65.7			
1948													
1949													
1950													
1951	43.4	46.4	50.0	56.6	65.9	73.4	82.0	77.2	74.5	64.8	50.1	43.7	60.7
1952	44.7	46.7	44.4	56.1	74.8	79.4			76.6	66.8	48.2	42.5	
1953	47.1	45.0	52.0	56.1	60.9	76.7	80.2	77.7	75.0	63.9	53.7		
1954	46.7	51.3	50.2	62.5	66.6	72.9	79.6	73.8	73.6	65.8	55.3	46.6	62.2
1955	38.8	41.0	51.1	56.2	63.7	74.8	76.5	76.5	73.6	66.0	52.2	47.4	59.7
1956	46.0	41.6	52.6	57.0	68.5	75.8	76.7	75.2	77.4	62.7	48.9	44.7	61.3
1957	45.7	53.2	51.5	57.2	61.2	77.1	74.6	74.6	71.3	65.2			
1958	43.0	49.8*	46.9	57.6*	72.4	76.1	80.9			73.4*	63.1*	54.1	51.6
1959	41.3	48.5*	53.2*	65.2*	68.4	81.9*	80.7	74.8	74.6*	66.4	54.5*	47.8	64.1
1960	41.7	43.8*	37.9										

* MEAN CANNOT EXCUSE MISSING ON ONE THROUGH FIVE DAYS DURING THE MONTH

POOR ORIGINAL

TOTAL PRECIPITATION (INCHES) FOR ORACLE, ARIZONA

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sep.	Oct.	Nov.	Dec.	Annual
1893				0.00						0.05	0.78	0.68	
1894	0.92	1.99	1.87	0.03	0.26	0.51	2.81	4.10	1.11	1.44	0.00	3.82	18.36
1895	2.39	0.16	0.03	0.09	0.38	0.28	2.12	3.12	2.23	2.18	6.63	0.83	26.44
1896	1.23	0.27	1.44	0.37	0.00	0.65	2.48	3.95	2.39	4.78	0.65	1.41	19.62
1897	3.67	0.96	1.55	0.01	0.04	0.07	0.55	2.66	3.52	0.92	0.50		
1898	3.72	0.00	1.38	1.38	0.40	0.70	3.72	4.97	0.25	0.00	1.25	3.12	20.89
1899	2.35	1.85	1.16	0.32	0.00	1.99	3.23	2.92	0.48	0.28	0.59	7	15.17
1900	0.16	0.67	1.52	2.16	0.11	0.08	0.37	3.27	2.38	0.68	3.01	T	16.41
1901	3.26	5.81	1.19	0.40	0.46	0.00	3.20	0.99	0.15	1.93	0.28	T	17.67
1902	1.42	0.65	1.25	0.05	0.94	0.00	0.66	2.06	0.97	0.13	2.07	3.21	14.23
1903	0.23	2.75	1.66	0.00	0.80	0.31	3.60	2.73	2.81	0.00	0.00	0.19	15.08
1904	0.18	0.60	0.38	0.00	1.25	T	2.35	3.63	1.21	0.12	0.06	2.47	12.23
1905	3.99	5.25	5.77	2.42	0.00	1.21	0.48	3.37	2.14	0.03	7.80	1.66	34.12
1906	0.40	3.03	2.23	1.21	0.13	0.00	1.85	7.51	0.02	0.02	1.56	7.80	26.20
1907	3.11	0.25	2.57	0.53	1.36	0.14	4.16	5.54	T				
1908							3.58	3.76	0.76	0.98	0.94		
1909	1.49	2.41	1.49	T	0.00	0.02			2.47	0.00	0.66		
1910								5.32		0.27	2.16	1.12	
1911	3.59	3.13	1.25	0.68	0.00	0.84							
1912				station closed	July 1911 - July 1912			3.81	0.34	1.44	0.10	1.33	
1913	2.00	4.54	0.60	0.54	0.11	0.10	4.42	3.17	0.63	0.02	2.57	1.76	20.76
1914	0.78	1.18	1.21	0.47	0.50	1.81	3.63	3.12	0.89	3.60	0.88	9.27	27.34
1915	5.14	4.44	1.32	3.18	0.65	0.40	4.28	0.75	0.76	1.23	1.83	3.85	27.83
1916	9.14	1.64	1.58	0.81	0.00	0.77	4.20	2.49	0.94	2.21	0.00	0.40	23.41
1917	3.22	1.30	0.50	0.43	1.11	0.00	3.81	0.55	2.57	0.01	0.00	0.00	13.60
1918	2.93	1.89	1.74	0.20	0.00	0.93	2.06	1.69	0.00	0.50	2.20	4.10	18.26
1919	0.22	2.97	0.61	1.82	0.70	1.15	3.78	2.98	3.81	0.67	5.02	1.10	27.24
1920	2.48		2.90		0.10	0.42	1.45	3.37			0.00	0.10	
1921	0.35		0.25	1.30	0.00	0.01	9.39	4.85	0.00				
1922													
1923				1.05	0.00	0.00	4.29	5.73	1.00	0.07	2.74	8.51	
1924	0.00	0.00	4.21	0.13	0.00	0.17	1.67	1.15	0.17		0.38	1.84	
1925	0.39	0.28	0.62	0.31	0.11	0.68	1.	3.35	2.54	2.14	1.06	2.21	
1926	1.47	0.77	3.13	2.14	0.20	0.14	2.26		2.98	0.96	0.00	5.00	
1927	0.34	2.06	2.70	1.13	0.09	0.11	1.45	8.24	2.17	0.16	0.25	3.11	18.80
1928	0.32	1.58	7										
1929				0.55	0.65	0.68	0.01	2.17	2.23	0.12	0.13	0.32	0.04
1930	3.18	2.10	3.40	0.35	2.31	0.49	6.20	4.01	0.43	0.43	6.25		
1931	1.70	5.16	0.46	1.55	0.04	1.17	2.25	4.07	2.35	0.32	5.55	2.67	26.64
1932	1.52	2.74	0.81	1.58	0.08	0.17				1.93	0.00	2.24	
1933	7.40	0.60	0.00	1.37	0.00	0.59		2.39	1.90	0.68	0.68	0.49	
1934	0.54	0.78	0.30	0.13	0.20	T	2.07	4.88	3.19	0.12	1.04	1.83	15.08
1935	3.56	3.24	2.17	0.41	0.75	T	3.40	5.14	2.69	0.00	2.46	0.13	24.25
1936	2.50	0.81	1.51	T	T	0.15	1.84	3.31	2.81	0.34	1.29	2.47	17.23
1937	4.15	1.64	1.78	0.61	0.11	0.92	4.03	2.84	0.92	0.24	0.06	1.04	18.03
1938	1.90	2.16	3.10	0.57	0.27	1.44	1.82	4.13	0.73	0.03	0.31	2.21	17.78
1939	0.79	2.46	1.44	0.79	T	T	1.53	2.33	1.60	1.28	1.78	1.31	15.31
1940	0.77	3.27	0.12	1.41	0.48	1.93	1.28	2.38	2.01	0.99	4.13	5.68	24.52
1941	2.15	3.58	3.47	2.01	0.75	0.04	1.60	3.79	3.39	0.72	2.60	3.84	27.87
1942	0.53	2.76	0.71	1.95	0.00	0.00	3.21	3.02	2.15	1.03	0.06	2.01	17.72
1943	1.43	1.11	3.23	0.18	T	0.71	1.88	2.72	2.07	1.27	0.23	2.11	
1944	1.08	2.05	1.84	1.03	1.14	T	1.82	1.46			3.31	1.80	17.55
1945	2.05	0.44	1.71	0.55	0.00	0.00				1.74			
1946					T		2.07	-6.66	2.65	1.26	1.72	1.05	
1947	0.24	0.27	0.03	0.02	0.25	T	3.60	1.85	2.64	2.79	1.21	1.04	13.94
1948	0.12	2.97	1.24	0.02	0.00	0.04	1.64	3.47	1.71	1.19			
1949	closed	0.58											
1950				1.15	0.02	0.20	0.98	4.88	2.31	0.50	T	0.10	0.0
1951	2.56	1.08	1.28	3.83	0.25	0.00	3.44	3.21	0.95	2.16	1.59	3.68	24.06
1952	2.07	0.25	4.00	1.21	0.21	0.91	1.18	3.13	1.56	0.00	3.12	1.11	19.18
1953	0.50	0.91	1.66	0.41	0.11	0.14	4.34	1.53	0.00	0.03	0.58		
1954	1.77	1.35	4.81	0.01	0.65	0.54	4.69	3.92	4.25	0.12	0.00	0.31	24.44
1955	2.01	1.01	0.01	T	0.02	1.27	3.88	3.55	0.07	0.84	0.38	1.18	14.25
1956	2.05	1.75	0.00	0.67	T	0.34	3.52	2.00	0.44	1.59	0.00	0.98	13.32
1957	0.48	1.65	1.1	0.61	0.73	0.31	1.14	1.82	0.17	6.62			
1958	7	1.1	3.07	1.1	0.05	1.0	3.79	1.73	1.5	0.50	1.17	22.07	
1959	0.11	1.56	0.12	0.14	0.00	0.18	1.41	3.43	T	4.24	1.34	3.71	23.43
1960	2.91	0.84	0.26										

POOR ORIGINAL

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(continued from the first page)

Winter days are characterized by a relatively small temperature range, from the middle thirties at night to the upper fifties during the day. Maximum temperatures are reduced because of Oracle's elevation, while minimum temperatures are increased because of its location in the foothills of the Catalina Mountains. The coldest and densest air tends to drain off of the mountain slopes into the valleys at night. Temperatures below zero degrees have never been recorded, while readings below ten degrees have occurred on only four days during the past fifty years.

The following table gives some information on the normal dates of first and last occurrences of certain critical minimum temperatures in the fall and spring, respectively, at Oracle.

Temperature (°F)	Normal date of first occurrence in fall	Normal date of last occurrence in spring
32	Nov. 11	Apr. 10
28	Dec. 2	Mar. 12
24	Dec. 5	Feb. 20

STATION HISTORY

Owner	From	Direction and Distance of Station from Post Office	Elevation (ft.)	Section known as
Mrs. L. S. Dodge	July 1891 - Nov. 1903	At P. O.	4502	Oracle
W. H. Winters	Dec. 1903 - June 1911			
J. W. Larson	Aug. 1911 - Sep. 1924			
J. A. Tolbab	Nov. 1924 - Mar. 1928	1.2 mi. SW	4111	Oracle R. S.
Walter Wilson Austin	Mar. 1929 - Oct. 1936	175 ft. S	4520	Oracle
Miss Martha Heermann	Nov. 1936 - Dec. 1942	0.7 mi. SSE	4555	"
Mrs. Anna H. Cray	Jan. 1943 - Nov. 1946	0.6 mi. SW	4600	Oracle (near)
C. H. Cray	Mar. 1949 - June 1949			
Lloyd K. Busteen	Mar. 1950 - Dec. 1957	4.8 mi. SE	4370	Oracle 4 SE
Mrs. Dolcie Rice	Jan. 1958 -	4.4 mi. SE	4450	"

The weather records summarized in this publication were made available through the commendable civic spirit and interest of the above listed observers.

Relative humidity readings have not been taken at this location. The values given in the Climatological Summary Tables were estimated by a method devised at the Institute of Atmospheric Physics.

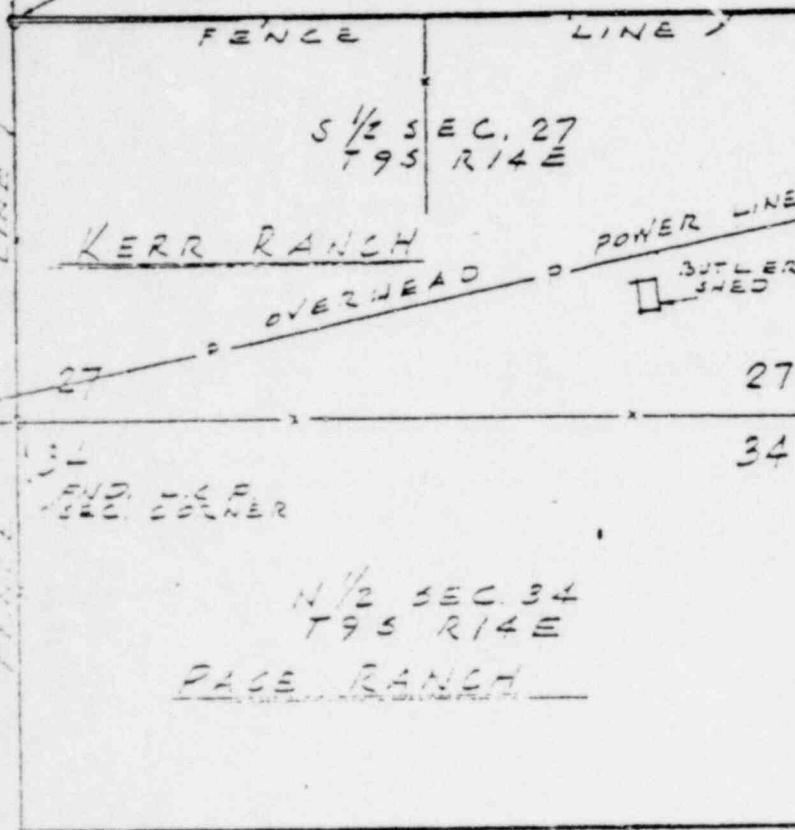
The climatological summary has been made possible by a cooperative agreement between the University of Arizona and the United States Weather Bureau. Under the terms of the agreement the Institute of Atmospheric Physics of the University of Arizona has permission to use daily weather data for the month of May for the 10 observation stations in Arizona. In turn, the Weather Bureau has permission to use the monthly average daily temperature data for the same period of time in the monthly publications since 1948. From time to time, the University has provided the U.S. Weather Bureau with all monthly meteorology data which contain average weather data for each five-day period and each month of record. All of these sets of IBM punched cards are available for research work on request.

Copies of the climatological summary can be obtained from the Institute of Atmospheric Physics, University of Arizona, Tucson 25, Arizona.

POOR ORIGINAL

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FND L.C.
1/4 COR.



FND L.C.
1/4 COR.



SCALE: 1" = 1320'

26 FND L.C. CORNER
SEC. 26

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