

EVALUATING PERENNIAL YIELD
MICHAEL F. HOOVER

FIGURE 17
EXAMPLE OF FIELD RECHARGE UTILIZING "BLANEY CURVES"
(all values in inches)

VENADITO CANYON UPPER Tvq NATIVE VEG SOIL MOISTURE BALANCE (file is VenTvqNU)
(Oct-Sep WtrYr vals shown; soil cap 21.00 in.; watershed ET max= 23.73 in.)

Water Year	Wtrsh Avg Rainfall	Net* Rainfall	Total Irrig Ag	Beginning Moisture	Available Moisture	Total Evpo Tran	Ending Moisture	Deep Percolate
1941	58.84	47.79	0.00	5.73	47.79	22.27	7.48	23.77
1942	16.72	15.57	0.00	7.48	15.57	20.22	2.83	0.00
1943	31.65	27.26	0.00	2.83	27.26	20.77	6.27	3.06
1944	23.34	21.71	0.00	6.27	21.71	22.36	5.62	0.00
1945	19.88	18.52	0.00	5.62	18.52	20.79	3.36	0.00
1946	14.73	13.93	0.00	3.36	13.93	15.06	2.22	0.00
1947	17.44	16.54	0.00	2.22	16.54	16.24	2.52	0.00
1948	11.96	11.87	0.00	2.52	11.87	12.08	2.30	0.00
1949	14.24	13.81	0.00	2.30	13.81	13.81	2.30	0.00
1950	18.73	18.32	0.00	2.30	18.32	17.14	3.49	0.00
1951	13.08	12.98	0.00	3.49	12.98	14.32	2.16	0.00
1952	40.64	35.42	0.00	2.16	35.42	20.60	7.47	9.51
1953	17.39	16.47	0.00	7.47	16.47	20.86	3.08	0.00
1954	20.09	19.42	0.00	3.08	19.42	19.05	3.45	0.00
1955	21.99	21.36	0.00	3.45	21.36	20.61	4.20	0.00
1956	25.79	22.51	0.00	4.20	22.51	21.22	5.49	0.00
1957	18.80	17.65	0.00	5.49	17.65	19.76	3.38	0.00
1958	41.88	34.77	0.00	3.38	34.77	21.21	8.50	8.44
1959	11.44	10.73	0.00	8.50	10.73	17.00	2.23	0.00
1960	14.06	13.67	0.00	2.23	13.67	13.67	2.23	0.00
1961	13.06	12.75	0.00	2.23	12.75	12.98	2.01	0.00
1962	33.98	29.03	0.00	2.01	29.03	20.81	4.38	5.85
1963	19.88	19.05	0.00	4.38	19.05	18.84	4.59	0.00
1964	10.03	9.58	0.00	4.59	9.58	12.33	1.84	0.00
1965	23.77	22.23	0.00	1.84	22.23	19.95	4.12	0.00
1966	18.28	14.64	0.00	4.12	14.64	16.38	2.37	0.00
1967	30.42	24.41	0.00	2.37	24.41	20.92	5.86	0.00
1968	17.44	16.85	0.00	5.86	16.85	19.74	2.98	0.00
1969	38.39	31.69	0.00	2.98	31.69	20.62	4.38	9.67
1970	15.38	14.03	0.00	4.38	14.03	16.02	2.38	0.00
1971	18.21	17.48	0.00	2.38	17.48	17.23	2.63	0.00
1972	11.24	10.47	0.00	2.63	10.47	11.23	1.87	0.00
1973	32.11	27.64	0.00	1.87	27.64	20.89	5.02	3.60
1974	22.46	21.12	0.00	5.02	21.12	21.94	4.21	0.00
1975	25.24	22.41	0.00	4.21	22.41	21.37	5.24	0.00
1976	17.58	16.90	0.00	5.24	16.90	14.67	7.47	0.00
1977	14.15	13.65	0.00	7.47	13.65	18.58	2.54	0.00
1978	56.63	47.39	0.00	2.54	47.39	20.24	8.83	20.87
1979	27.85	26.24	0.00	8.83	26.24	23.69	6.23	5.15
1980	30.86	27.22	0.00	6.23	27.22	22.35	6.98	4.12
1981	18.60	17.33	0.00	6.98	17.33	21.01	3.30	0.00
1982	23.86	22.59	0.00	3.30	22.59	19.84	6.06	0.00
1983	52.12	41.68	0.00	6.06	41.68	22.82	10.55	14.36
1984	17.15	15.05	0.00	10.55	15.05	21.62	3.98	0.00
1985	14.93	14.10	0.00	3.98	14.10	15.70	2.37	0.00
1986	31.66	28.45	0.00	2.37	28.45	21.12	8.30	1.40
1987	13.03	12.57	0.00	8.30	12.57	18.44	2.43	0.00
1988	17.44	16.90	0.00	2.43	16.90	16.74	2.59	0.00
1989	12.21	11.95	0.00	2.59	11.95	12.49	2.06	0.00
1990	9.12	9.00	0.00	2.06	9.00	8.99	2.07	0.00
1991	22.93	20.67	0.00	2.07	20.67	18.48	4.26	0.00
1992	25.70	23.08	0.00	4.26	23.08	21.21	6.07	0.06
1993	41.23	35.00	0.00	6.07	35.00	22.83	5.73	12.50
Avg	23.20	20.82	0.00	5.73	20.82	18.51	5.73	2.31

* Estimated runoff depth= Total-Net rainfall.