

Laguna Creek Diversions, WYs 1972-2001								
Water-Year Precipitation Used in Multiple Regression*					Santa Cruz Precip. (Table 8)		Lockheed Precip. (Table 11)	
WY-0	WY-1	WY-2	WY-3	WYs	r ²	% of Max. r ²	r ²	% of Max. r ²
(0)	(-1)	(-2)	(-3)					
			x	-3	0.002	0.2%	0.02	2%
		x		-2	0.03	3%	0.01	1%
		x	x	-2 -3	0.03	4%	0.03	4%
	x			-1	0.20	25%	0.15	19%
	x	x		-1 -2	0.21	26%	0.15	19%
	x	x	x	-1 -2 -3	0.21	26%	0.16	21%
x				0	0.68	84%	0.69	89%
x			x	0 -3	0.69	85%	0.70	90%
x		x		0 -2	0.71	88%	0.71	91%
x	x			0 -1	0.78	97%	0.76	98%
x	x	x		0 -1 -2	0.79	99%	0.77	99%
x	x	x	x	0 -1 -2 -3	0.80	100%	0.78	100%

Liddell Spring Diversions, WYs 1972-2001								
Water-Year Precipitation Used in Multiple Regression*					Santa Cruz Precip. (Table 8)		Lockheed Precip. (Table 11)	
WY-0	WY-1	WY-2	WY-3	WYs	r ²	% of Max. r ²	r ²	% of Max. r ²
(0)	(-1)	(-2)	(-3)					
x				0	0.09	15%	0.11	17%
			x	-3	0.12	21%	0.08	14%
x			x	0 -3	0.20	33%	0.20	32%
		x		-2	0.23	39%	0.22	36%
	x			-1	0.30	51%	0.32	53%
		x	x	-2 -3	0.30	52%	0.26	43%
x		x		0 -2	0.32	55%	0.34	55%
x	x			0 -1	0.34	59%	0.38	63%
	x	x		-1 -2	0.45	77%	0.47	77%
x	x	x		0 -1 -2	0.51	86%	0.54	89%
	x	x	x	-1 -2 -3	0.54	93%	0.53	87%
x	x	x	x	0 -1 -2 -3	0.59	100%	0.61	100%

*i.e., WY-0 is the current water year, WY-1 is the prior water year, etc.

Multiple Regression Correlation Coefficients for Water-Year Diversions
Versus Current-Year and Prior-Year Precipitation,
Liddell Spring and Laguna Creek, WYs 1972-2001

Table 21

Nolan Associates