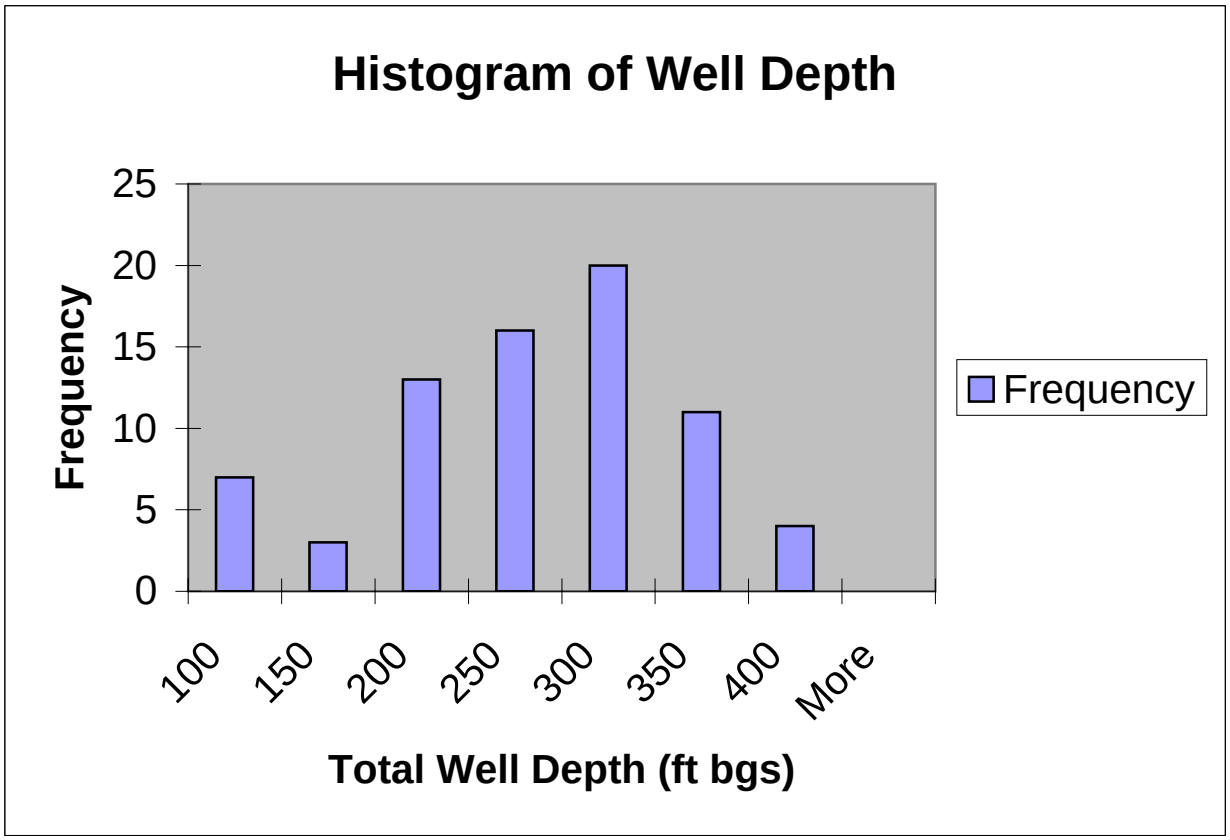
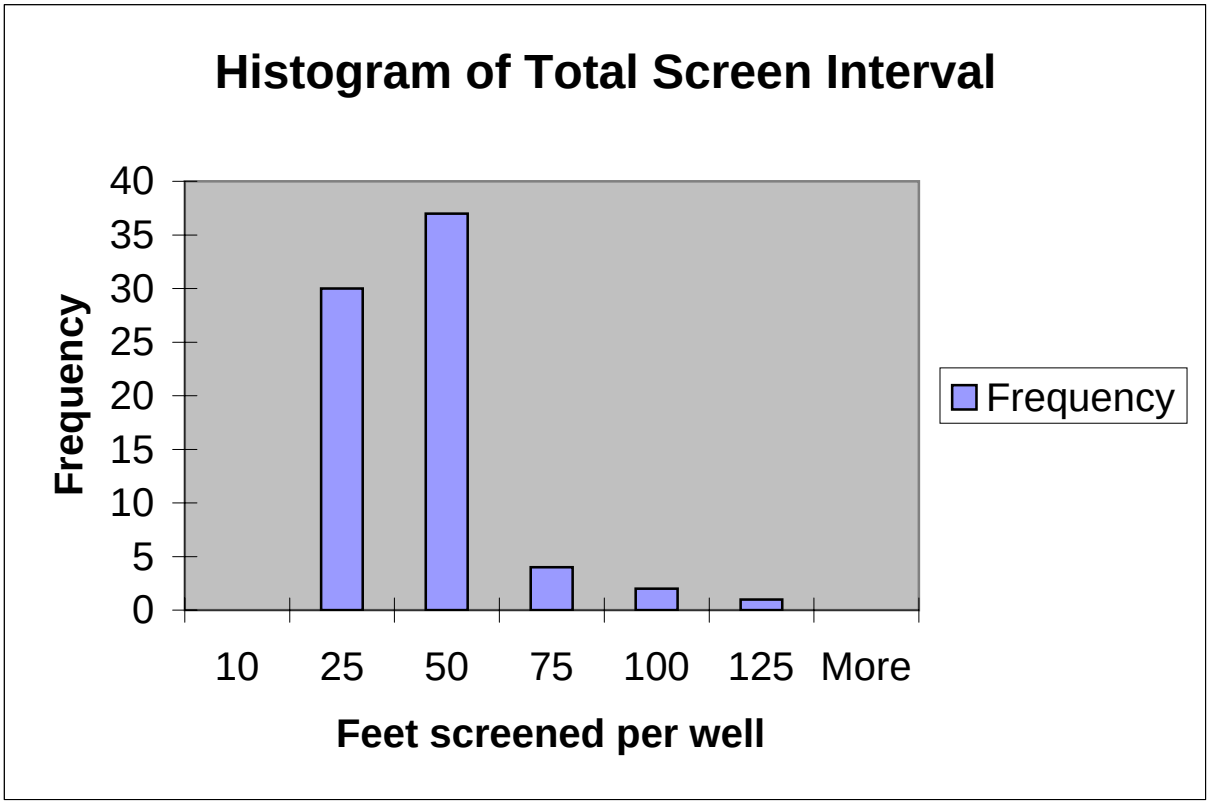
Well Depth	*Frequency*
100	7
150	3
200	13
250	16
300	20
350	11
400	4
More	0

Well Depth Statistics	
Mean	237.4864865
Standard Error	9.634437093
Median	240
Mode	300
Standard Deviation	82.87856164
Sample Variance	6868.855979
Kurtosis	-0.29066355
Skewness	-0.45365114
Range	345
Minimum	55
Maximum	400
Sum	17574
Count	74



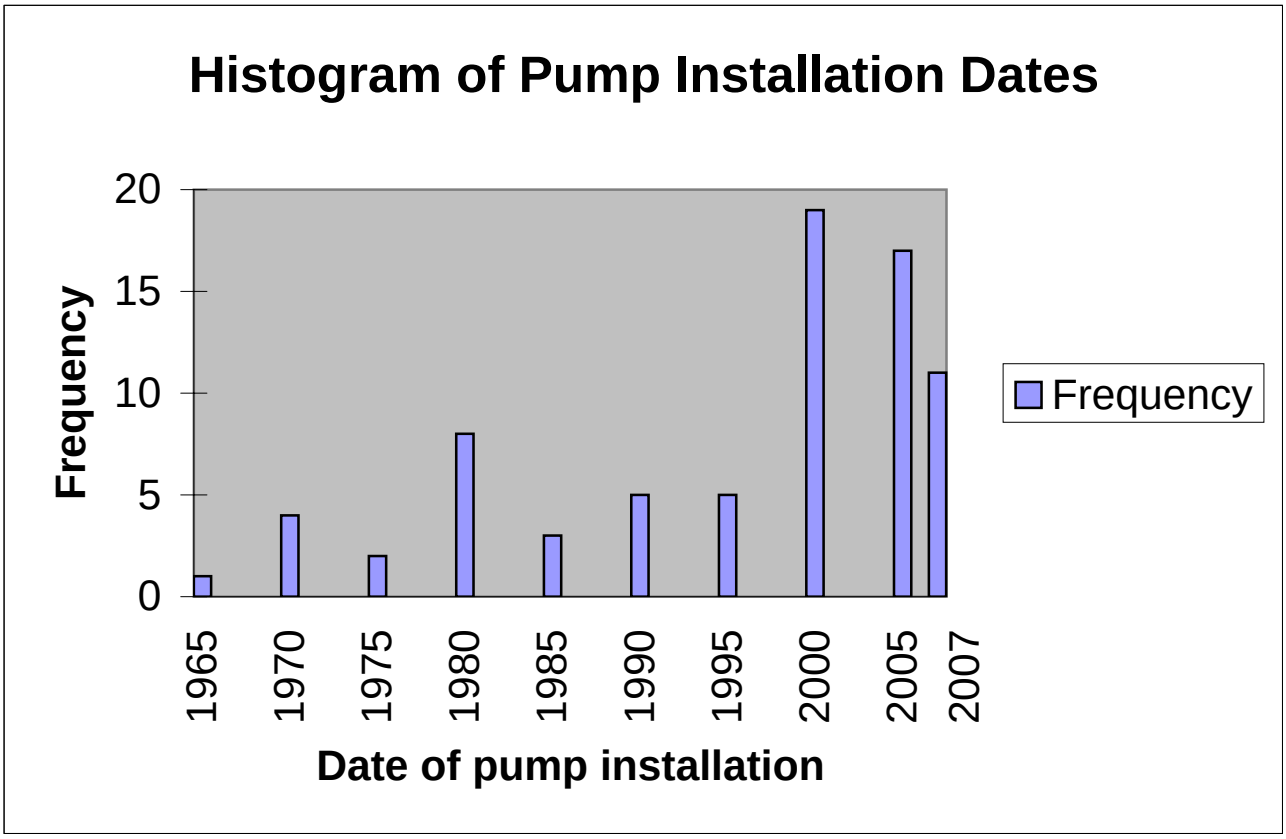
Feet Screened	*Frequency*
10	0
25	30
50	37
75	4
100	2
125	1
More	0

Screen total	
Mean	35.2027027
Standard Error	2.23755596
Median	39.5
Mode	40
Standard Deviation	19.2481842
Sample Variance	370.492595
Kurtosis	8.18286922
Skewness	2.47819257
Range	108
Minimum	17
Maximum	125
Sum	2605
Count	74



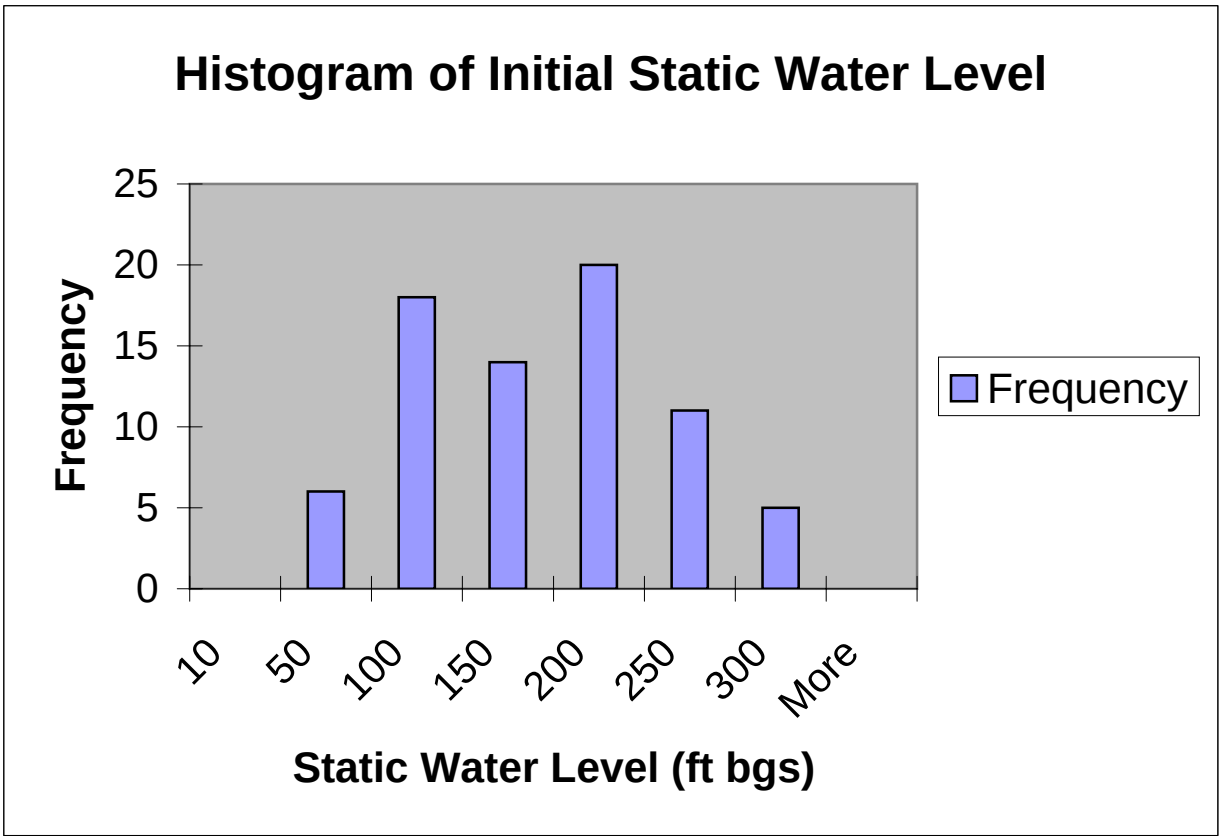
Year of Installation	Frequency
1965	1
1970	4
1975	2
1980	8
1985	3
1990	5
1995	5
2000	19
2005	17
2007	11

Pump Install	Statistics
Mean	4/27/1993
Standard Error	497.2908392
Median	12/2/1997
Mode	2/22/2005
Standard Deviation	4277.857551
Sample Variance	18300065.23
Kurtosis	-0.210558934
Skewness	-0.968033794
Range	15366
Minimum	6/29/1964
Maximum	7/25/2006
Sum	2522370
Count	74



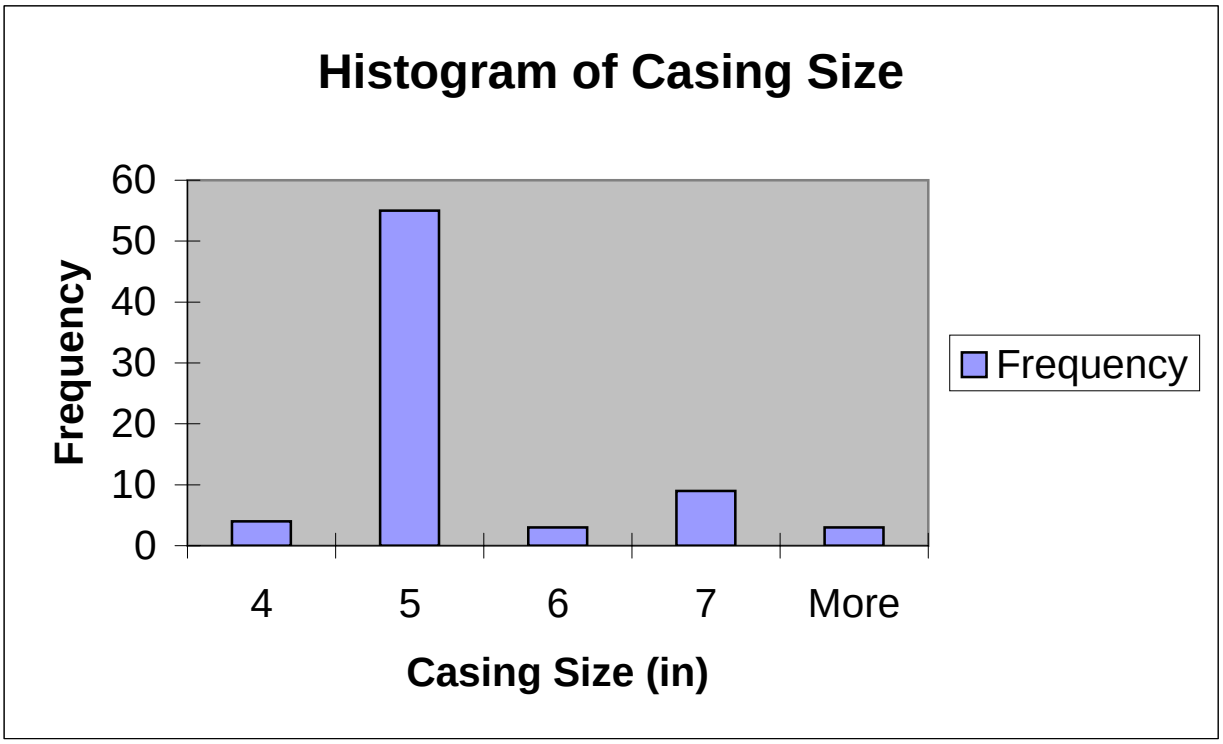
Static Water Level	*Frequency*
10	0
50	6
100	18
150	14
200	20
250	11
300	5
More	0

Static Water Level	
Mean	145.4864865
Standard Error	8.032013031
Median	146.5
Mode	198
Standard Deviation	69.09398865
Sample Variance	4773.979267
Kurtosis	-0.91116657
Skewness	0.015759831
Range	269
Minimum	13
Maximum	282
Sum	10766
Count	74



Casing Size (in.)	*Frequency*
4	4
5	55
6	3
7	9
More	3

Casing Size	
Mean	5.5084459
Standard Error	0.2645735
Median	5
Mode	5
Standard Deviation	2.2759473
Sample Variance	5.1799363
Kurtosis	17.050131
Skewness	4.1094914
Range	12
Minimum	4
Maximum	16
Sum	407.625
Count	74



Appendix B

Summary Statistics for 2007 Water Quality Sample Results

COGCC Ogallala Baseline Study

Ogallala Hydrogeologic Study, Washington and Yuma Counties, Colorado

Matrix	Parameter Type	Parameter	Units	Total Count	Detect Count	Exceed Count	Minimum	Maximum	Mean	25th Percentile	Median	75th Percentile	Standard Deviation	Coeifficient of Variation
WG	Inorganics	Bromide	MG/L	75	53	0	0.034	9.4	0.44	0.054	0.13	0.25	1.4	3.3
WG	Inorganics	Chloride (as Cl)	MG/L	75	75	1	1.0	571	22	2.8	4.8	11	71	3.3
WG	Inorganics	Fluoride	MG/L	75	74	1	0.39	4.8	1.1	0.88	1.0	1.2	0.51	0.47
WG	Inorganics	Sulfate	MG/L	75	75	1	3.9	1,750	40	8.5	11	16	201	5.1
WG	Metals	Arsenic - D	MG/L	75	16	16	0.017	0.050	0.044	0.050	0.050	0.050	0.012	0.27
WG	Metals	Barium - D	MG/L	75	75	0	0.014	0.88	0.19	0.12	0.16	0.22	0.13	0.72
WG	Metals	Cadmium - D	MG/L	75	7	0	0.0015	0.0025	0.0024	0.0025	0.0025	0.0025	0.00027	0.11
WG	Metals	Calcium	MG/L	75	75	0	26	638	53	34	37	43	75	1.4
WG	Metals	Chromium, Total - D	MG/L	75	5	0	0.0039	0.0053	0.0050	0.0050	0.0050	0.0050	0.00023	0.046
WG	Metals	Iron	MG/L	75	58	0	0.0033	0.12	0.021	0.0071	0.0100	0.022	0.026	1.2
WG	Metals	Lead - D	MG/L	75	0	0	0.025	0.025	0.025	0.025	0.025	0.025	0.0	0.0
WG	Metals	Magnesium	MG/L	75	75	0	6.9	143	17	11	13	16	18	1.1
WG	Metals	Manganese - D	MG/L	75	41	2	0.00066	1.5	0.023	0.0015	0.0025	0.0025	0.17	7.5
WG	Metals	Potassium	MG/L	75	75	0	3.7	43	8.4	6.9	8.1	8.8	4.7	0.56
WG	Metals	Selenium	MG/L	75	61	0	0.00032	0.88	0.015	0.0019	0.0025	0.0029	0.10	6.9
WG	Metals	Sodium	MG/L	75	75	0	6.2	362	24	13	16	22	42	1.8
WG	Miscellaneous	Bicarbonate Alkalinity (as CaCO3)	MG/L	75	75	0	91	434	149	125	136	153	49	0.33
WG	Miscellaneous	Carbonate Alkalinity (as CaCO3)	MG/L	75	0	0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0
WG	Miscellaneous	pH	PH UNITS	75	75	0	5.3	7.8	7.3	7.1	7.4	7.6	0.55	0.076
WG	Miscellaneous	Specific Conductance	UMHOS/CM	75	75	0	244	3,970	452	308	338	387	480	1.1
WG	Miscellaneous	Temperature	DEG C	75	75	0	20	24	22	22	22	23	0.85	0.038
WG	Miscellaneous	Total Dissolved Solids - D	MG/L	75	75	0	80	4,350	379	250	274	306	524	1.4
WG	Organics	Benzene	UG/L	75	0	0	0.50	0.50	0.50	0.50	0.50	0.50	0.0	0.0
WG	Organics	Ethylbenzene	UG/L	75	0	0	0.50	0.50	0.50	0.50	0.50	0.50	0.0	0.0
WG	Organics	m,p-Xylene	UG/L	75	0	0	0.50	0.50	0.50	0.50	0.50	0.50	0.0	0.0
WG	Organics	Methane	MG/L	75	0	0	0.00060	0.00060	0.00060	0.00060	0.00060	0.00060	0.0	0.0
WG	Organics	o-Xylene	UG/L	75	0	0	0.50	0.50	0.50	0.50	0.50	0.50	0.0	0.0

Summary Statistics

All summary statistics assume that data are normally distributed. If non-detects are included in the analysis, one-half of the reporting limit is used in the calcuation. All results are for the total fraction with the exception of parameter names which include " - D" suffix which are for the dissolved fraction.

Appendix B

Summary Statistics for 2007 Water Quality Sample Results

COGCC Ogallala Baseline Study

Ogallala Hydrogeologic Study, Washington and Yuma Counties, Colorado

Matrix	Parameter Type	Parameter	Units	Total Count	Detect Count	Exceed Count	Minimum	Maximum	Mean	25th Percentile	Median	75th Percentile	Standard Deviation	Coeifficient of Variation
WG	Organics	Toluene	UG/L	75	2	0	0.50	0.77	0.51	0.50	0.50	0.50	0.044	0.086
WG	Organics	Total Xylenes	UG/L	75	0	0	0.50	0.50	0.50	0.50	0.50	0.50	0.0	0.0
WG	Soluble Nitrogen	Nitrate (as N)	MG/L	75	74	1	0.25	147	4.9	1.7	2.4	3.9	17	3.5
WG	Soluble Nitrogen	Nitrite (as N)	MG/L	75	2	1	0.25	2.5	0.30	0.25	0.25	0.25	0.28	0.95

Summary Statistics

All summary statistics assume that data are normally distributed. If non-detects are included in the analysis, one-half of the reporting limit is used in the calcuation. All results are for the total fraction with the exception of parameter names which include " - D" suffix which are for the dissolved fraction.

TDS Concentration	*Frequency*
Less than 100	1
100	1
200	53
300	8
400	4
500	5
More	3

TDS Concentration	*Statistics*
Mean	379.0627
Standard Error	6.987597
Median	274
Mode	245
Standard Deviation	524.0698
Sample Variance	274649.1
Kurtosis	47.37405
Skewness	6.62545
Range	4270
Minimum	80
Maximum	4350
Sum	28427
Count	75