

Appendix F
Rainfall Data

Lancaster CSC
Rainfall History

	1990*		1991		1992		1993		1994		1995*		1996*		Storm (in)	Rainfall Occur.	Occur per Mo.	Rain per Mo. (in)	Ave Rain (in)	Rain per Mo. (hr)	Ave Duration
	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)							
Jan.	NA	NA	0.1	1.0	0.1	1.0	NA	0.1	1.0	0.1	1.0	0.1	1.0	NA	23	7.67	1.61	0.21	22.67	2.96	
			0.1	1.0	0.1	1.0		0.1	1.0	0.1	1.0	0.1	1.0		1	0.33	0.20	0.60	3.67	11.00	
			0.5	5.0	0.1	1.0		0.1	1.0	0.1	1.0	0.1	1.0		1	0.33	0.43	1.30	3.00	9.00	
					0.1	1.0		0.1	1.0	0.1	1.0	0.1	1.0		1	0.33	0.57	1.70	3.33	10.00	
					0.1	1.0		0.2	2.0	0.3	5.0	0.2	2.0								
					0.1	1.0		0.4	3.0	0.4	12.0	0.4	3.0								
					0.2	2.0		0.4	11.0	0.5	9.0	0.4	11.0								
					0.2	4.0		0.5	9.0	0.5	9.0	0.5	9.0								
					0.2	4.0		0.5	9.0	0.6	11.0	0.6	11.0								
Feb.	NA	NA	0.3	3.0	0.1	1.0	NA	0.1	1.0	0.2		0.1	1.0	NA	10	3.33	0.67	0.20	5.33	1.60	
			0.4	3.0	0.1	1.0		0.1	1.0			0.1	1.0		1	0.33	0.27	0.80	3.00	9.00	
					0.1	1.0		0.1	1.0			0.1	1.0		0	0.00	0.00	0.00	0.00	0.00	
					0.1	1.0		0.1	1.0			0.1	1.0		0	0.00	0.00	0.00	0.00	0.00	
					0.1	1.0		0.1	1.0			0.1	1.0								
					0.3	2.0		0.3	2.0			0.3	2.0								
					0.3	3.0		0.3	3.0			0.3	3.0								
					0.8	9.0		0.8	9.0			0.8	9.0								
Mar.	NA	NA	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.0		0.0	0.0	35	5.83	0.99	0.17	12.00	2.06	
			0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0			0.0	0.0	7	1.17	0.86	0.74	12.67	10.86	
			0.1	1.0	0.2	2.0	0.2	2.0	0.1	1.0			0.1	1.0	2	0.33	0.37	1.10	3.67	11.00	
			0.1	1.0	0.3	6.0	0.2	2.0	0.1	1.0			0.1	1.0	0	0.00	0.00	0.00	0.00	0.00	
			0.1	1.0	0.5	5.0	0.7	12.0	0.2	2.0			0.1	1.0							
			0.1	1.0	0.5	5.0	1.0	17.0	0.2	2.0			0.1	1.0							
			0.1	1.0	1.0	8.0	0.2	1.0	0.2	1.0			0.3	12.0							
			0.1	1.0			0.2	1.0	0.2	1.0											
			0.1	1.0			0.6	12.0	0.6	12.0											

Lancaster CSC
Rainfall History

	1990*		1991		1992		1993		1994		1995*		1996*		Storm (in)	Rainfall Occur.	Occur per Mo.	Rain per Mo. (in)	Ave Rain (in)	Rain per Mo. (hr)	Ave Duration	
	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)								
		0.2	2.0						1.1	18.0												
		0.2	2.0																			
		0.3	3.0																			
		0.4	7.0																			
		0.6	9.0																			
		0.6	13.0																			
		0.7	15.0																			
		1.1	4.0																			
Apr.	NA	0.1	1.0	NA			NA		0.1	1.0	1.5		0.2	4.0	0-0.5	22	5.50	1.30	0.24	21.00	3.82	
		0.1	1.0						0.1	1.0	1.5		0.2	14.0	0.51-1.0	3	0.75	0.55	0.73	5.50	7.33	
		0.2	2.0						0.1	1.0	2.3		0.2	6.0	1.01-1.5	4	1.00	1.43	1.43	7.25	7.25	
		0.2	2.0						0.1	1.0			0.2	2.0	>1.5	2	0.50	1.00	2.00	2.75	5.50	
		0.3	3.0						0.1	1.0			0.3	3.0								
		0.5	4.0						0.2	2.0			0.5	14.0								
		0.8	3.0						0.2	2.0			0.5	8.0								
		0.8	5.0						0.3	3.0			0.6	14.0								
		1.3	7.0						0.4	5.0			1.4	22.0								
									1.7	11.0												
May	0.1	1.0	1.0	0.3	3.0	3.0	NA		0.1	1.0	0.1		0.1	1.0	0-0.5	36	6.00	1.42	0.24	13.50	2.25	
	0.1	2.0	3.0	0.3	8.0	8.0			0.1	1.0	0.1		0.1	1.0	0.51-1.0	14	2.33	1.74	0.75	7.33	3.14	
	0.1	1.0	3.0	0.5	5.0	5.0			0.1	1.0	0.3		0.2	1.0	1.01-1.5	6	1.00	1.27	1.27	9.33	9.33	
	0.1	1.0		0.6	2.0	2.0			0.1	1.0	0.3		0.2	2.0	>1.5	2	0.33	0.70	2.10	2.50	7.50	
	0.2	2.0		0.9	4.0	4.0			0.2	2.0	0.4		0.2	8.0								
	0.2	2.0		0.9	4.0	4.0			0.5	5.0	0.5		0.3	1.0								
	0.2	2.0		0.7	5.0	5.0			0.7	5.0	0.6		0.4	13.0								
	0.2	1.0		0.8	4.0	4.0			0.8	4.0	0.7		0.4	2.0								
	0.5	4.0									0.8		0.4	2.0								
	0.6	9.0									1.5		1.0	11.0								
	0.6	1.0									2.0		1.1	17.0								
	0.7	2.0											1.1	3.0								

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	1990*		1991		1992		1993		1994		1995*		1996*		Storm (in)	Rainfall Occur.	Occur per Mo.	Rain per Mo. (in)	Ave Rain (in)	Rain per Mo. (hr)	Ave Duration
	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)							
	0.7	4.0											1.3	12.0							
	0.8	2.0											1.3	10.0							
	1.4	14.0																			
	2.2	15.0																			
June	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.2	0.0	35	5.00	1.21	0.24	13.57	2.71	
	0.1	1.0	0.1	1.0	0.3	3.0	0.1	1.0	0.1	1.0	0.4	0.4	0.1	1.0	0.51-1.0	1.14	0.96	0.84	4.71	4.13	
	0.2	1.0	0.3	2.0	1.7	4.0	0.1	1.0	0.1	1.0	0.4	0.4	0.1	5.0	1.01-1.5	0.57	0.61	1.08	1.71	3.00	
	0.2	1.0	0.4	2.0			0.2	2.0	0.5	3.0	0.5	0.5	0.2	4.0	>1.5	0.29	0.49	1.70	0.86	3.00	
	0.4	6.0	1.0	2.0					0.5	2.0	0.6	0.6	0.2	17.0							
	0.5	3.0							0.7	4.0	1.0	1.0	0.3	1.0							
	1.1	3.0							0.7	6.0	1.2	1.2	0.3	1.0							
	1.7	2.0							0.8	5.0			0.3	4.0							
									0.9	6.0			0.4	4.0							
									1.1	7.0			0.5	22.0							
													1.0	10.0							
													1.5	2.0							
July	0.1	1.0	0.1	1.0	1.0	NA	0.1	1.0	0.1	1.0	0.1	0.1	0.7	6.0	0-0.5	4.17	0.72	0.17	6.00	1.44	
	0.1	1.0	0.1	1.0			0.1	1.0	0.2	1.0	0.1	0.1	0.7	9.0	0.51-1.0	2.33	1.73	0.74	8.67	3.71	
	0.2	2.0	0.1	1.0			0.1	1.0	0.3	3.0	0.1	0.1	0.8	5.0	1.01-1.5	0.50	0.70	1.40	1.67	3.33	
	0.3	3.0	1.5	4.0			0.1	1.0	0.3	6.0	0.6	0.6	2.0	7.0	>1.5	0.67	1.45	2.18	3.33	5.00	
	0.4	1.0	2.2	4.0			0.1	1.0	0.3	3.0	0.8	0.8									
	0.5	1.0					0.1	1.0	0.6	6.0	0.8	0.8									
	0.6	3.0					0.2	2.0	0.9	2.0	0.9	0.9									
	0.6	6.0					0.2	2.0	2.6	5.0											
	0.8	4.0					0.7	9.0													
	1.3	4.0					0.9	2.0													
	1.4	2.0					1.9	4.0													
Aug.	0.1	1.0	NA		0.1	1.0	0.1	1.0	0.2	2.0	0.2	0.2	0.1	1.0	0-0.5	5.00	1.11	0.22	7.83	1.57	
	0.1	1.0			0.1	1.0	0.1	1.0	0.2	2.0	0.2	0.2	0.2	2.0	0.51-1.0	0.50	0.40	0.80	3.00	6.00	
	0.1	1.0			0.2	2.0	0.1	1.0	0.2	2.0	0.2	0.2	0.1	1.0	1.01-1.5	0.00	0.00	0.00	0.00	0.00	

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	1990*		1991		1992		1993		1994		1995*		1996*		Storm (in)	Rainfall Occur.	Occur per Mo.	Rain per Mo. (in)	Ave Rain (in)	Rain per Mo. (hr)	Ave Duration
	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)							
	0.1	1.0			0.3	2.0	0.2	2.0	0.2	2.0	0.2				>1.5	2	0.33	0.68	2.05	0.67	2.00
	0.2	2.0	0.6	10.0	0.6	10.0			0.3	3.0	0.3										
	0.5	2.0	0.9	2.0	0.9	2.0			0.5	5.0	2.5										
	0.5	4.0	1.6	4.0	1.6	4.0			0.5	4.0											
	0.5	1.0																			
	0.9	6.0																			
Sept.	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	NA				0.1	1.0	0-0.5	0.22	11.00	2.13	
	0.1	1.0	0.1	1.0	0.3	1.0	0.1	1.0	0.3	1.0					0.3	13.0	0.51-1.0	0.77	8.17	7.00	
	0.3	3.0	0.1	1.0	0.3	2.0	0.1	1.0	0.6	4.0					0.8	15.0	1.01-1.5	1.15	2.17	13.00	
	0.4	3.0	0.1	1.0	0.5	6.0	0.3	1.0	1.0	4.0					1.2	13.0	>1.5	1.57	3.00	18.00	
	0.4	6.0	0.1	1.0	0.5	2.0	0.7	8.0							1.6	18.0					
	0.5	1.0	0.1	1.0			0.8	10.0													
	0.5	4.0	0.1	1.0			0.9	6.0													
	0.6	2.0	0.2	2.0																	
			0.2	2.0																	
			0.2	2.0																	
			0.2	2.0																	
			0.2	2.0																	
Oct.	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	NA				0.5	7.0	0-0.5	0.18	10.33	2.14	
	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0					0.7	9.0	0.51-1.0	0.72	6.17	9.25	
	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0							1.01-1.5	1.10	1.00	6.00	
	0.1	1.0	0.1	1.0			0.2	2.0	0.1	1.0							>1.5	0.00	0.00	0.00	
	0.2	1.0	0.2	2.0			0.2	2.0	0.3												
	0.5	6.0	0.2	2.0			0.4	4.0													
	0.6	4.0	0.2	2.0			0.5	13.0													
	0.8	13.0					0.8	5.0													
	1.1	6.0																			
Nov.	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	0.1	1.0	NA				NA		0-0.5	0.15	8.00	1.60	
	0.1	1.0	0.1	1.0	0.2	1.0	0.1	1.0	0.1	1.0							0.51-1.0	0.58	4.83	4.83	
	0.2	1.0	0.1	1.0	0.5	4.0	0.1	1.0	0.1	1.0							1.01-1.5	1.13	4.67	11.67	
	0.2	4.0	0.1	1.0	0.5	5.0	0.1	1.0	0.2	2.0							>1.5	0.00	0.00	0.00	

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	1990*		1991		1992		1993		1994		1995*		1996*		Storm (in)	Rainfall Occur.	Occur per Mo.	Rain per Mo. (in)	Ave Rain (in)	Rain per Mo. (hr)	Ave Duration
	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)	(in)	(hr)							
	0.3	5.0	0.2	2.0	0.6	6.0	1.0	8.0	0.2	2.0											
	0.6	3.0	0.2	1.0			1.2	10.0	0.4	6.0											
							1.5	18.0	0.6	6.0											
							0.7	6.0	0.7	6.0											
Dec.	0.1	1.0	0.2	2.0	NA		0.1	1.0	0.1	1.0	NA				18	4.50	1.38	0.31	15.00	3.33	
	0.2	2.0	0.4	2.0			0.2	2.0	0.2	2.0					3	0.75	0.53	0.70	5.00	6.67	
	0.2	3.0	0.5	4.0			0.6	6.0	0.4	6.0					3	0.75	0.98	1.30	7.50	10.00	
	0.3	3.0	0.7	7.0					0.4	5.0					1	0.25	0.43	1.70	4.50	18.00	
	0.3	3.0	1.5	9.0					0.5	7.0											
	0.4	3.0							0.5	9.0											
	0.5	4.0																			
	0.8	7.0																			
	1.1	11.0																			
	1.3	10.0																			
	1.7	18.0																			

Precipitation Summary

Storm	Events/ year	Ave Inches	Ave Hours	Total Inches
0-0.5	62.00	0.21	2.30	13.15
0.5-1.0	12.48	0.73	6.91	9.11
1.0-1.5	5.22	1.22	8.36	6.39
>1.5	2.87	1.87	8.63	5.38
				<u>34.04</u>

	1990	1991	1992	1993	1994	1995	1996	Ave
Jan.	NA	NA		NA			NA	2.81
Feb.	NA	NA		NA			NA	0.93
Mar.	NA							2.22
Apr.	NA		NA	NA				4.28
May				NA				5.13
June								3.27
July			NA					4.60
Aug.		NA						2.19
Sept.					NA			2.50