

Table E-2. Adjustments to Maximum Areas and Storage Volumes for Stock Ponds on Navajo Lands in the San Juan River Basin in New Mexico Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Adjusted Maximum Area In Acres				Adjusted Maximum Area	Adjusted Maximum Depth in Feet				Adjusted Maximum Storage Volume		
	US Survey Field Measured ^d	OSE Photo-Interpreted ^e	BIA Area-Capacity Table Data ^a	95% of US Survey Stereo Analyst Area ^f		US Survey Field Measured ^d	BIA Area-Capacity Table Data ^a	4.9 In-Channel, 6.3 NIIP-IC, 3.9 Well/Spring, 5.5 Diversion/OC ^c	Adjusted Maximum Depth	Reservoir Shape Factor: 0.4 In-Channel, 0.6 Other ^g	BIA Area-Capacity Table Data (acre-feet) ^h	Adjusted Maximum Volume (acre-feet) ⁱ
1193	-	-	-	0.11	0.11	-	-	3.90	3.90	0.60	-	0.27
598	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
596	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
597	-	-	-	0.02	0.02	-	-	3.90	3.90	0.60	-	0.04
5434	0.14	-	-	-	0.14	3.90	-	-	3.90	0.60	-	0.33
407	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
408	-	-	-	0.03	0.03	-	-	3.90	3.90	0.60	-	0.07
1182	-	-	-	2.07	2.07	-	-	3.90	3.90	0.60	-	4.85
1172	-	-	-	0.32	0.32	-	-	3.90	3.90	0.60	-	0.76
1173	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
1176	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
1625	-	-	-	0.31	0.31	-	-	3.90	3.90	0.60	-	0.73
1650	-	-	-	0.27	0.27	-	-	3.90	3.90	0.60	-	0.62
204	-	-	-	0.19	0.19	-	-	3.90	3.90	0.60	-	0.44
209	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
179	-	-	-	0.34	0.34	-	-	3.90	3.90	0.60	-	0.80
175	-	-	-	0.32	0.32	-	-	3.90	3.90	0.60	-	0.76
219	-	-	-	0.11	0.11	-	-	3.90	3.90	0.60	-	0.27
1160	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.22
1676	-	-	-	1.46	1.46	-	-	3.90	3.90	0.60	-	3.42
1016	-	-	-	1.92	1.92	-	-	3.90	3.90	0.60	-	4.49
1020	-	-	-	0.11	0.11	-	-	3.90	3.90	0.60	-	0.27
889	-	-	-	0.17	0.17	-	-	3.90	3.90	0.60	-	0.40
1014	-	-	-	0.19	0.19	-	-	3.90	3.90	0.60	-	0.44
557	-	-	-	3.69	3.69	-	-	3.90	3.90	0.60	-	8.63
564	-	-	-	0.15	0.15	-	-	3.90	3.90	0.60	-	0.36
5002	0.15	-	-	-	0.15	4.30	-	-	4.30	0.60	-	0.39
576	-	-	-	0.59	0.59	-	-	3.90	3.90	0.60	-	1.38
1422	-	-	-	0.43	0.43	-	-	3.90	3.90	0.60	-	1.00
575	-	-	-	0.27	0.27	-	-	3.90	3.90	0.60	-	0.62
317	-	-	-	0.66	0.66	-	-	3.90	3.90	0.60	-	1.53
146	-	-	-	0.32	0.32	-	-	3.90	3.90	0.60	-	0.76
173	-	-	-	0.32	0.32	-	-	3.90	3.90	0.60	-	0.76
5029	0.58	-	-	-	0.58	3.10	-	-	3.10	0.60	-	1.08
148	-	-	-	0.13	0.13	-	-	3.90	3.90	0.60	-	0.31
147	-	-	-	0.12	0.12	-	-	3.90	3.90	0.60	-	0.29
5343	2.57	-	-	-	2.57	10.10	-	-	10.10	0.60	-	15.57
1656	-	-	-	0.84	0.84	-	-	3.90	3.90	0.60	-	1.96
271	-	-	-	0.12	0.12	-	-	3.90	3.90	0.60	-	0.29
252	-	-	-	0.37	0.37	-	-	3.90	3.90	0.60	-	0.87
5095	0.12	-	-	-	0.12	2.70	-	-	2.70	0.60	-	0.19
261	-	-	-	0.06	0.06	-	-	3.90	3.90	0.60	-	0.13
274	-	-	-	0.11	0.11	-	-	3.90	3.90	0.60	-	0.27
242	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
5094	0.05	-	-	-	0.05	1.50	-	-	1.50	0.60	-	0.05
185	-	-	-	0.72	0.72	-	-	3.90	3.90	0.60	-	1.69
5074	0.11	-	-	-	0.11	1.50	-	-	1.50	0.60	-	0.10
5071	0.09	-	-	-	0.09	1.60	-	-	1.60	0.60	-	0.09
543	-	-	-	0.71	0.71	-	-	3.90	3.90	0.60	-	1.67
1078	-	-	-	0.13	0.13	-	-	3.90	3.90	0.60	-	0.31
5181	0.06	-	-	-	0.06	3.20	-	-	3.20	0.60	-	0.12
5148	0.07	-	-	-	0.07	2.30	-	-	2.30	0.60	-	0.10
702	-	-	-	0.16	0.16	-	-	3.90	3.90	0.60	-	0.38
502	-	-	-	0.25	0.25	-	-	3.90	3.90	0.60	-	0.58
677	-	-	-	0.18	0.18	-	-	3.90	3.90	0.60	-	0.42
701	-	-	-	0.15	0.15	-	-	3.90	3.90	0.60	-	0.36
1729	-	-	-	0.33	0.33	-	-	3.90	3.90	0.60	-	0.78
678	-	-	-	0.12	0.12	-	-	3.90	3.90	0.60	-	0.29
966	-	-	-	0.13	0.13	-	-	3.90	3.90	0.60	-	0.31
965	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
5247	0.12	-	-	-	0.12	3.90	-	-	3.90	0.60	-	0.28
5248	0.11	-	-	-	0.11	2.60	-	-	2.60	0.60	-	0.17
298	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
5210	0.06	-	-	-	0.06	1.80	-	-	1.80	0.60	-	0.06
1007	-	-	-	0.19	0.19	-	-	3.90	3.90	0.60	-	0.44
1451	-	-	-	1.81	1.81	-	-	3.90	3.90	0.60	-	4.22
489	-	-	-	0.62	0.62	-	-	3.90	3.90	0.60	-	1.44
1468	-	-	-	0.33	0.33	-	-	3.90	3.90	0.60	-	0.78
1452	-	-	-	0.25	0.25	-	-	3.90	3.90	0.60	-	0.58
1447	-	-	-	0.14	0.14	-	-	3.90	3.90	0.60	-	0.33
1448	-	-	-	0.21	0.21	-	-	3.90	3.90	0.60	-	0.49
1449	-	-	-	0.15	0.15	-	-	3.90	3.90	0.60	-	0.36

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Reservoir Site Number (P-xxxx)	Adjusted Maximum Area in Acres					Adjusted Maximum Depth in Feet				Adjusted Maximum Storage Volume		
	US Survey Field Measured ¹	OSE Photo-Interpreted ²	BIA Area-Capacity Table Data ³	95% of US Survey Stereo Analyst Area ⁴	Adjusted Maximum Area	US Survey Field Measured ¹	BIA Area-Capacity Table Data ³	4.9 In-Channel, 6.3 NIIIP-IC, 3.9 Well/Spring, 5.5 Diversion/QC ⁵	Adjusted Maximum Depth	Reservoir Shape Factor: 0.4 In-Channel, 0.6 Other ⁶	BIA Area-Capacity Table Data (acre-feet) ¹	Adjusted Maximum Volume (acre-feet) ²
	5022	0.32	-	-	-	0.32	3.30	-	-	3.30	0.60	-
1450	-	-	-	0.14	0.14	-	-	3.90	3.90	0.60	-	0.33
1455	-	-	-	0.14	0.14	-	-	3.90	3.90	0.60	-	0.33
1453	-	-	-	0.46	0.46	-	-	3.90	3.90	0.60	-	1.07
1470	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
5023	0.10	-	-	-	0.10	4.00	-	-	4.00	0.60	-	0.24
1469	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
1318	-	-	-	0.22	0.22	-	-	3.90	3.90	0.60	-	0.51
1315	-	-	-	0.15	0.15	-	-	3.90	3.90	0.60	-	0.36
1085	-	-	-	0.08	0.08	-	-	3.90	3.90	0.60	-	0.18
1339	-	-	-	0.15	0.15	-	-	3.90	3.90	0.60	-	0.36
767	-	-	-	0.15	0.15	-	-	3.90	3.90	0.60	-	0.36
5182	0.06	-	-	-	0.06	1.90	-	-	1.90	0.60	-	0.07
223	-	-	-	0.85	0.85	-	-	3.90	3.90	0.60	-	1.98
5045	0.29	-	-	-	0.29	8.10	-	-	8.10	0.60	-	1.41
1143	-	-	-	0.06	0.06	-	-	3.90	3.90	0.60	-	0.13
309	-	-	-	1.66	1.66	-	-	3.90	3.90	0.60	-	3.89
312	-	-	-	0.08	0.08	-	-	3.90	3.90	0.60	-	0.18
311	-	-	-	0.06	0.06	-	-	3.90	3.90	0.60	-	0.13
310	-	-	-	0.05	0.05	-	-	3.90	3.90	0.60	-	0.11
5206	0.72	-	-	-	0.72	5.30	-	-	5.30	0.60	-	2.29
5205	1.81	-	-	-	1.81	2.10	-	-	2.10	0.60	-	2.28
5278	0.09	-	-	-	0.09	4.27	-	-	4.27	0.60	-	0.23
5279	0.04	-	-	-	0.04	2.30	-	-	2.30	0.60	-	0.06
307	-	-	-	0.06	0.06	-	-	3.90	3.90	0.60	-	0.13
1465	-	-	-	0.68	0.68	-	-	3.90	3.90	0.60	-	1.60
5015	0.19	-	-	-	0.19	3.60	-	-	3.60	0.60	-	0.41
1464	-	-	-	0.11	0.11	-	-	3.90	3.90	0.60	-	0.27
462	-	-	-	0.14	0.14	-	-	3.90	3.90	0.60	-	0.33
5028	0.12	-	-	-	0.12	2.40	-	-	2.40	0.60	-	0.17
463	-	-	-	0.08	0.08	-	-	3.90	3.90	0.60	-	0.18
5410	0.65	-	-	-	0.65	5.25	-	-	5.25	0.60	-	2.05
1549	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.22
1029	-	-	-	0.27	0.27	-	-	3.90	3.90	0.60	-	0.62
1548	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.22
5399	0.15	-	-	-	0.15	4.90	-	-	4.90	0.60	-	0.44
447	-	-	-	1.84	1.84	-	-	3.90	3.90	0.60	-	4.31
467	-	-	-	0.58	0.58	-	-	3.90	3.90	0.60	-	1.36
5025	0.12	-	-	-	0.12	2.90	-	-	2.90	0.60	-	0.21
5340	0.12	-	-	-	0.12	2.90	-	-	2.90	0.60	-	0.21
1079	-	-	-	0.09	0.09	-	-	3.90	3.90	0.60	-	0.20
5387	1.24	-	-	-	1.24	1.80	-	-	1.80	0.60	-	1.34
1819	-	-	-	0.55	0.55	-	-	3.90	3.90	0.60	-	1.29
1348	-	-	-	0.28	0.28	-	-	3.90	3.90	0.60	-	0.64
1355	-	-	-	0.30	0.30	-	-	3.90	3.90	0.60	-	0.71
5217	0.22	-	-	-	0.22	1.30	-	-	1.30	0.60	-	0.17
952	-	-	-	0.11	0.11	-	-	3.90	3.90	0.60	-	0.27
953	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
954	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
950	-	-	-	0.03	0.03	-	-	3.90	3.90	0.60	-	0.07
1702	-	-	-	0.14	0.14	-	-	3.90	3.90	0.60	-	0.33
1510	-	-	-	0.08	0.08	-	-	3.90	3.90	0.60	-	0.18
1701	-	-	-	0.09	0.09	-	-	3.90	3.90	0.60	-	0.20
1512	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
1505	-	-	-	0.68	0.68	-	-	3.90	3.90	0.60	-	1.60
1579	-	-	-	0.21	0.21	-	-	3.90	3.90	0.60	-	0.49
1581	-	-	-	0.12	0.12	-	-	3.90	3.90	0.60	-	0.29
1580	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.22
1502	-	-	-	0.18	0.18	-	-	3.90	3.90	0.60	-	0.42
1561	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
1687	-	-	-	0.12	0.12	-	-	3.90	3.90	0.60	-	0.29
912	-	-	-	0.06	0.06	-	-	3.90	3.90	0.60	-	0.13
1688	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
1560	-	-	-	0.04	0.04	-	-	3.90	3.90	0.60	-	0.09
911	-	-	-	0.07	0.07	-	-	3.90	3.90	0.60	-	0.16
913	-	-	-	0.08	0.08	-	-	3.90	3.90	0.60	-	0.18
1577	-	-	-	0.35	0.35	-	-	3.90	3.90	0.60	-	0.82
1692	-	-	-	0.16	0.16	-	-	3.90	3.90	0.60	-	0.38
1705	-	-	-	0.12	0.12	-	-	3.90	3.90	0.60	-	0.29
1689	-	-	-	0.10	0.10	-	-	3.90	3.90	0.60	-	0.24
1690	-	-	-	0.05	0.05	-	-	3.90	3.90	0.60	-	0.11
1707	-	-	-	0.22	0.22	-	-	3.90	3.90	0.60	-	0.51

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Reservoir Site Number (P-xxxx)	Adjusted Maximum Area in Acres				Adjusted Maximum Depth In Feet				Adjusted Maximum Storage Volume			
	US Survey Field Measured ¹	OSE Photo-Interpreted ²	BIA Area-Capacity Table Data ³	95% of US Survey Stereo Analyst Area ⁴	Adjusted Maximum Area	US Survey Field Measured ¹	BIA Area-Capacity Table Data ³	4.9 In-Channel, 6.3 NIIP-IC, 3.9 Well/Spring, 5.5 Diversion/QC ⁵	Adjusted Maximum Depth	Reservoir Shape Factor: 0.4 In-Channel, 0.6 Other ⁶	BIA Area-Capacity Table Data ³ (acre-feet) ¹	Adjusted Maximum Volume (acre-feet) ⁷
5072												
Total					3,565.15				8,330.82			7,365.55
Average					2.07				4.84			4.28

Notes:

- ¹ Maximum area or depth at spillway crest claimed by the US Survey at Appendix M, table M-3, that were measured in the field. Measured depths are from US Survey backup data, which may vary slightly from the depths calculated in table E-1 for those reservoirs that were surveyed in the field due to rounding or other factors.
- ² Maximum area based on high water mark interpreted by the OSE Hydrographic Survey Bureau from available aerial imagery provided by the United States and from US Geological Survey topographic mapping of reservoir areas (see Appendix D).
- ³ Maximum area, depth or capacity at spillway crest for claimed livestock reservoirs are not available from BIA area-capacity tables, USBR reports, or reservoir site maps except for Naschitti Reservoir, Long Lake and Sheep Dip Reservoir which for purposes of this analysis were included under irrigation reservoirs and not under livestock reservoirs.
- ⁴ Maximum area based on adjusting the US Survey claimed area for the relationship between field measured spillway crest area and stereo analysis interpreted area (see Appendix B, figure B-4(a)). Applied to all reservoirs claimed by the US Survey to have a maximum area of less than 8 acres determined by stereo analysis for which field measured areas or BIA/USBR data are not available.
- ⁵ Maximum depth based on the average maximum depths for 413 livestock or irrigation reservoirs for which depth at spillway crest was measured in the field by the US Survey: 4.9 feet for in-channel reservoirs based on 292 measurements at 20% of the total amount of in-channel reservoirs claimed; 6.3 feet for NIIP in-channel reservoirs based on 52 measurements at 63% of the total amount of NIIP in-channel reservoirs claimed; 3.9 feet for improved spring and well reservoirs based on 51 measurements at 22% of the total amount of well reservoirs claimed; and 5.5 feet for diversion and off-channel reservoirs based on 18 measurements at 78% of the total amount of diversion reservoirs claimed. No field measurements were taken at improved spring or off-channel reservoir sites. Both NIIP off-channel reservoirs were field surveyed, but were not included in this analysis because it is not clear that they are representative of off-channel reservoirs outside NIIP.
- ⁶ The reservoir shape factor of 0.4 for in-channel reservoirs was applied also to NIIP in-channel reservoirs.
- ⁷ Maximum storage volume based on capacity at spillway crest from BIA area-capacity data where available, or otherwise calculated as maximum area, times maximum depth, times the reservoir shape factor. Used to evaluate total volume for Navajo reservoirs in the San Juan River Basin or within drainages in the basin.

Table E-3. Average Reservoir Statistics for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

<u>Reservoir Category</u>	Number of Reservoirs	<u>US Survey Claims</u>			<u>Adjusted Reservoir Sizes</u>		
		Total Area (acres)	Maximum Depth (feet)	Capacity (ac-ft)	Maximum Area (acres)	Maximum Depth (feet)	Maximum Volume (ac-ft)
Diversion	18	2.13	5.54	7.67	2.13	5.53	7.67
Improved Spring	5	0.18	4.89	0.56	0.17	3.90	0.39
In Channel	1,375	3.26	5.33	13.49	2.42	4.90	4.85
NIIP In Channel	83	1.45	5.84	5.64	1.42	6.28	3.78
Off Channel	16	0.67	6.94	3.50	0.63	5.50	2.08
Well	224	0.36	3.78	1.01	0.34	3.89	0.92
All	1,721	2.75	5.17	11.30	2.07	4.84	4.28

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
5164	0.26	-	0.20	-	0.20
5341	15.69	15.47	-	-	15.47
5240	3.85	-	1.64	-	1.64
5220	2.47	-	1.09	-	1.09
5222	1.58	-	0.73	-	0.73
5253	1.12	-	0.55	-	0.55
5197	0.24	-	0.20	-	0.20
5236	2.36	-	1.04	-	1.04
5243	1.57	-	0.73	-	0.73
5224	2.16	-	0.96	-	0.96
5221	1.72	-	0.79	-	0.79
5219	0.85	-	0.44	-	0.44
5406	0.12	-	0.12	-	0.12
5104	1.07	-	0.53	-	0.53
5124	1.48	1.04	-	-	1.04
5123	0.69	-	0.38	-	0.38
5126	0.63	-	0.35	-	0.35
5133	0.54	-	0.32	-	0.32
864	0.02	-	-	0.01	0.01
369	0.18	-	-	0.07	0.07
735	0.18	0.07	-	-	0.07
1759	0.36	-	-	0.14	0.14
1756	0.10	-	-	0.04	0.04
628	10.56	10.56	-	-	10.56
506	5.80	2.37	-	-	2.37
886	1.46	-	-	0.56	0.56
510	1.27	-	-	0.48	0.48
621	6.82	1.43	-	-	1.43
617	4.56	0.28	-	-	0.28
619	0.81	-	-	0.31	0.31
620	1.21	-	-	0.46	0.46
618	0.21	-	-	0.08	0.08
465	1.44	1.44	-	-	1.44
567	1.10	1.10	-	-	1.10
607	3.70	0.57	-	-	0.57
514	7.30	1.29	-	-	1.29
1784	1.44	-	-	0.55	0.55
515	2.48	-	-	0.94	0.94
456	0.76	0.37	-	-	0.37
530	0.82	-	-	0.31	0.31
569	7.58	2.91	-	-	2.91
532	2.95	-	-	1.12	1.12
513	0.77	-	-	0.29	0.29
1791	1.67	-	-	0.64	0.64
1394	3.80	-	-	1.44	1.44
600	1.81	0.57	-	-	0.57
568	2.02	-	-	0.77	0.77
531	0.69	-	-	0.26	0.26
533	0.73	-	-	0.28	0.28
605	0.63	-	-	0.24	0.24
460	0.85	-	-	0.32	0.32
536	2.26	-	-	0.86	0.86
571	0.97	-	-	0.37	0.37
537	0.75	-	-	0.29	0.29
599	0.35	0.22	-	-	0.22
539	0.47	-	-	0.18	0.18
524	0.72	-	-	0.27	0.27
538	0.92	-	-	0.35	0.35
523	1.03	-	-	0.39	0.39
572	0.39	-	-	0.15	0.15
1792	0.07	-	-	0.03	0.03
1785	0.19	-	-	0.07	0.07
1441	22.05	22.05	-	-	22.05
1496	0.00	0.00	-	-	0.00
1486	11.58	11.58	-	-	11.58
1491	5.14	-	-	1.95	1.95
1497	6.18	6.18	-	-	6.18
1490	2.90	-	-	1.10	1.10
1758	1.49	0.89	-	-	0.89
1787	6.09	2.80	-	-	2.80
1437	3.68	-	-	1.40	1.40
526	5.65	-	-	2.15	2.15

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1508	2.49	0.45	-	-	0.45
542	1.02	-	-	0.39	0.39
527	0.84	-	-	0.32	0.32
1499	3.68	-	-	1.40	1.40
1485	2.38	-	-	0.91	0.91
1500	2.13	-	-	0.81	0.81
1501	1.44	-	-	0.55	0.55
520	1.13	-	-	0.43	0.43
457	0.75	-	-	0.29	0.29
1492	1.97	-	-	0.75	0.75
1498	2.67	-	-	1.01	1.01
1783	1.72	-	-	0.65	0.65
1438	1.26	-	-	0.48	0.48
1436	0.88	-	-	0.34	0.34
1488	1.12	-	-	0.43	0.43
1439	1.48	-	-	0.56	0.56
1786	1.24	-	-	0.47	0.47
521	0.87	0.93	-	-	0.93
1494	0.27	-	-	0.10	0.10
1495	0.52	-	-	0.20	0.20
1440	0.35	-	-	0.13	0.13
541	0.32	-	-	0.12	0.12
540	0.19	-	-	0.07	0.07
202	17.37	17.37	-	-	17.37
1192	3.62	-	-	1.38	1.38
5003	2.22	-	0.99	-	0.99
1416	2.76	-	-	1.05	1.05
1190	1.18	-	-	0.45	0.45
1191	0.61	-	-	0.23	0.23
216	0.08	-	-	0.03	0.03
218	0.07	-	-	0.03	0.03
288	9.15	9.15	-	-	9.15
5158	9.99	6.51	-	-	6.51
1766	7.33	1.25	-	-	1.25
511	7.92	7.92	-	-	7.92
5173	7.33	1.19	-	-	1.19
508	2.80	0.29	-	-	0.29
504	2.23	0.86	-	-	0.86
301	2.96	-	-	1.13	1.13
1767	3.50	0.46	-	-	0.46
587	3.28	0.58	-	-	0.58
588	2.21	-	-	0.84	0.84
1765	1.85	-	-	0.70	0.70
608	1.16	0.15	-	-	0.15
509	2.89	1.00	-	-	1.00
595	0.93	-	-	0.35	0.35
584	1.53	-	-	0.58	0.58
5176	2.18	0.14	-	-	0.14
300	1.09	0.61	-	-	0.61
585	0.79	-	-	0.30	0.30
5180	0.83	-	0.43	-	0.43
586	0.54	-	-	0.21	0.21
299	1.24	-	-	0.47	0.47
1748	0.28	-	-	0.10	0.10
898	2.32	2.32	-	-	2.32
897	5.66	-	-	2.15	2.15
896	2.93	-	-	1.11	1.11
904	4.55	-	-	1.73	1.73
906	4.85	-	-	1.84	1.84
895	2.31	-	-	0.88	0.88
901	3.10	-	-	1.18	1.18
903	1.14	-	-	0.43	0.43
899	0.37	-	-	0.14	0.14
902	0.30	-	-	0.12	0.12
1673	1.69	-	-	0.64	0.64
1727	0.29	-	-	0.11	0.11
1720	3.56	-	-	1.35	1.35
962	1.97	-	-	0.75	0.75
968	1.03	-	-	0.39	0.39
961	1.38	-	-	0.52	0.52
963	1.42	-	-	0.54	0.54
958	0.15	-	-	0.06	0.06

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
964	0.68	-	-	0.26	0.26
969	0.55	-	-	0.21	0.21
1123	0.73	-	-	0.28	0.28
1124	0.60	-	-	0.23	0.23
1060	7.43	7.43	-	-	7.43
304	5.35	5.35	-	-	5.35
1747	5.07	-	-	1.93	1.93
302	3.69	-	-	1.40	1.40
5165	5.92	0.47	-	-	0.47
1061	2.07	-	-	0.79	0.79
305	2.54	0.77	-	-	0.77
1750	2.41	-	-	0.92	0.92
5157	4.00	-	1.70	-	1.70
410	0.90	-	-	0.34	0.34
5179	1.20	-	0.58	-	0.58
303	1.25	-	-	0.48	0.48
5184	2.09	-	0.94	-	0.94
338	1.34	-	-	0.51	0.51
1749	0.88	-	-	0.34	0.34
289	1.22	-	-	0.46	0.46
1751	0.43	-	-	0.16	0.16
5163	0.91	-	0.46	-	0.46
5171	0.59	-	0.34	-	0.34
5168	0.37	-	0.25	-	0.25
5178	0.28	-	0.21	-	0.21
5169	0.11	-	0.11	-	0.11
5162	0.10	-	0.10	-	0.10
5170	0.10	-	0.10	-	0.10
5424	5.17	1.20	-	-	1.20
5431	6.88	1.54	-	-	1.54
5425	0.99	-	0.50	-	0.50
1391	1.14	-	-	0.43	0.43
5426	1.88	-	0.85	-	0.85
1382	1.40	-	-	0.53	0.53
5422	3.83	-	1.63	-	1.63
5423	1.21	-	0.58	-	0.58
5428	1.10	0.52	-	-	0.52
1385	1.05	0.17	-	-	0.17
1386	0.86	-	-	0.32	0.32
1383	0.99	0.24	-	-	0.24
5416	1.00	-	0.50	-	0.50
1384	0.77	-	-	0.29	0.29
1413	0.75	-	-	0.29	0.29
1390	0.88	-	-	0.34	0.34
5193	6.04	4.05	-	-	4.05
775	1.89	-	-	0.72	0.72
5194	1.51	-	0.70	-	0.70
776	1.08	-	-	0.41	0.41
5237	0.74	-	0.40	-	0.40
848	3.30	-	-	1.25	1.25
5203	0.50	-	0.30	-	0.30
836	0.69	-	-	0.26	0.26
5259	0.32	-	0.23	-	0.23
5212	0.16	-	0.16	-	0.16
835	0.20	-	-	0.08	0.08
630	0.22	-	-	0.08	0.08
5207	0.21	-	0.18	-	0.18
5254	0.21	-	0.18	-	0.18
5275	0.17	-	0.17	-	0.17
5256	0.05	-	0.05	-	0.05
404	2.90	-	-	1.10	1.10
406	0.70	-	-	0.27	0.27
1755	0.83	-	-	0.31	0.31
405	0.14	-	-	0.05	0.05
424	6.06	0.75	-	-	0.75
422	2.08	-	-	0.79	0.79
417	1.01	-	-	0.38	0.38
423	0.59	-	-	0.22	0.22
421	1.09	-	-	0.42	0.42
420	1.24	-	-	0.47	0.47
416	0.48	-	-	0.18	0.18
414	0.25	-	-	0.09	0.09

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
418	0.06	-	-	0.02	0.02
1174	14.66	14.66	-	-	14.66
1178	4.96	-	-	1.88	1.88
1181	1.81	-	-	0.69	0.69
1186	2.63	1.58	-	-	1.58
1183	2.36	-	-	0.90	0.90
1185	0.48	-	-	0.18	0.18
1175	0.60	-	-	0.23	0.23
1180	1.27	-	-	0.48	0.48
1179	0.50	-	-	0.19	0.19
1419	0.61	-	-	0.23	0.23
1127	0.28	-	-	0.10	0.10
1615	6.94	3.82	-	-	3.82
1621	5.12	-	-	1.95	1.95
1640	1.99	-	-	0.75	0.75
1639	2.06	-	-	0.78	0.78
1643	3.45	-	-	1.31	1.31
1642	3.10	-	-	1.18	1.18
1644	3.72	-	-	1.42	1.42
1620	0.81	-	-	0.31	0.31
1641	0.88	-	-	0.34	0.34
1619	1.03	-	-	0.39	0.39
5079	0.43	-	0.27	-	0.27
1653	0.34	-	-	0.13	0.13
1649	0.21	-	-	0.08	0.08
1652	0.06	-	-	0.02	0.02
207	6.23	1.27	-	-	1.27
195	4.60	-	-	1.75	1.75
194	0.86	0.30	-	-	0.30
143	0.74	-	-	0.28	0.28
196	1.37	-	-	0.52	0.52
193	0.33	-	-	0.13	0.13
328	7.07	4.83	-	-	4.83
1161	9.48	9.48	-	-	9.48
1138	1.33	-	-	0.51	0.51
1157	1.33	-	-	0.51	0.51
1137	1.58	-	-	0.60	0.60
1417	0.74	-	-	0.28	0.28
1140	0.99	-	-	0.38	0.38
1142	0.43	-	-	0.16	0.16
174	0.44	-	-	0.17	0.17
1136	0.43	-	-	0.16	0.16
1218	1.54	-	-	0.58	0.58
1235	1.29	-	-	0.49	0.49
1201	1.79	-	-	0.68	0.68
1221	1.14	-	-	0.43	0.43
1637	1.68	-	-	0.64	0.64
1638	0.86	-	-	0.33	0.33
1675	3.14	-	-	1.19	1.19
1015	1.68	-	-	0.64	0.64
890	1.02	-	-	0.39	0.39
1017	0.78	-	-	0.30	0.30
979	0.83	-	-	0.31	0.31
1678	0.49	-	-	0.19	0.19
5156	0.37	-	0.25	-	0.25
558	1.45	-	-	0.55	0.55
578	3.35	-	-	1.27	1.27
551	1.76	-	-	0.67	0.67
560	1.18	-	-	0.45	0.45
550	1.01	-	-	0.38	0.38
549	1.53	-	-	0.58	0.58
556	1.06	-	-	0.40	0.40
548	1.02	-	-	0.39	0.39
552	0.15	-	-	0.06	0.06
579	0.12	-	-	0.05	0.05
577	0.16	-	-	0.06	0.06
5088	40.52	34.00	-	-	34.00
5092	9.22	9.20	-	-	9.20
1249	7.44	9.62	-	-	9.62
5081	5.32	-	2.23	-	2.23
1125	2.02	-	-	0.77	0.77
5085	2.21	-	0.98	-	0.98

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1116	1.65	-	-	0.63	0.63
5084	2.56	-	1.12	-	1.12
5078	3.70	-	1.58	-	1.58
1112	1.05	-	-	0.40	0.40
1103	0.69	-	-	0.26	0.26
5083	1.70	-	0.78	-	0.78
1105	0.76	-	-	0.29	0.29
1107	0.99	-	-	0.38	0.38
1121	1.02	-	-	0.39	0.39
1109	0.89	-	-	0.34	0.34
5082	0.45	-	0.28	-	0.28
1120	0.41	-	-	0.16	0.16
1100	0.49	-	-	0.19	0.19
1119	0.82	-	-	0.31	0.31
1102	0.21	-	-	0.08	0.08
1098	0.13	-	-	0.05	0.05
519	5.30	0.91	-	-	0.91
555	1.75	-	-	0.66	0.66
574	3.35	-	-	1.27	1.27
544	2.99	-	-	1.14	1.14
573	1.04	-	-	0.39	0.39
1423	0.82	-	-	0.31	0.31
554	1.01	-	-	0.38	0.38
546	0.67	-	-	0.25	0.25
545	0.92	-	-	0.35	0.35
516	0.39	-	-	0.15	0.15
1803	0.73	-	-	0.28	0.28
517	0.12	-	-	0.05	0.05
1039	0.33	-	-	0.13	0.13
188	0.96	0.96	-	-	0.96
187	7.67	7.67	-	-	7.67
142	4.75	4.75	-	-	4.75
190	3.26	3.26	-	-	3.26
138	0.74	-	-	0.28	0.28
827	2.02	0.90	-	-	0.90
1418	5.33	-	-	2.03	2.03
1400	0.88	0.29	-	-	0.29
170	0.67	0.38	-	-	0.38
171	1.17	0.24	-	-	0.24
180	0.91	-	-	0.35	0.35
329	0.69	0.18	-	-	0.18
169	0.67	0.48	-	-	0.48
168	1.02	0.58	-	-	0.58
176	1.86	-	-	0.71	0.71
183	1.32	-	-	0.50	0.50
177	0.55	0.27	-	-	0.27
182	0.41	-	-	0.16	0.16
172	0.54	0.18	-	-	0.18
189	0.33	-	-	0.13	0.13
181	0.31	-	-	0.12	0.12
316	0.09	0.03	-	-	0.03
1525	1.48	-	-	0.56	0.56
634	0.25	-	-	0.09	0.09
5369	0.33	-	0.23	-	0.23
980	7.26	4.66	-	-	4.66
984	1.36	-	-	0.52	0.52
987	1.36	-	-	0.52	0.52
1534	1.29	-	-	0.49	0.49
5057	1.59	-	0.74	-	0.74
982	0.81	-	-	0.31	0.31
934	0.38	-	-	0.14	0.14
983	0.48	-	-	0.18	0.18
971	2.74	-	-	1.04	1.04
970	1.44	-	-	0.55	0.55
972	0.28	-	-	0.10	0.10
974	0.21	-	-	0.08	0.08
973	0.09	-	-	0.03	0.03
425	5.12	-	-	1.95	1.95
5392	4.23	-	1.79	-	1.79
824	1.05	-	-	0.40	0.40
635	0.69	-	-	0.26	0.26
5355	0.24	-	0.20	-	0.20

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
5317	0.29	-	0.22	-	0.22
5331	0.07	-	0.07	-	0.07
247	35.21	35.21	-	-	35.21
263	0.47	0.47	-	-	0.47
245	1.67	-	-	0.64	0.64
5109	1.38	-	0.65	-	0.65
264	2.90	-	-	1.10	1.10
269	1.67	-	-	0.64	0.64
265	1.95	-	-	0.74	0.74
243	0.41	-	-	0.16	0.16
5125	0.48	-	0.29	-	0.29
226	53.62	53.62	-	-	53.62
228	34.75	34.75	-	-	34.75
227	8.24	8.24	-	-	8.24
287	7.47	1.40	-	-	1.40
192	0.00	0.00	-	-	0.00
225	7.56	5.74	-	-	5.74
267	2.77	-	-	1.05	1.05
5055	0.80	-	0.42	-	0.42
184	0.84	-	-	0.32	0.32
191	0.56	-	-	0.21	0.21
1421	1.57	-	-	0.60	0.60
268	0.24	-	-	0.09	0.09
217	4.74	-	-	1.80	1.80
200	0.95	-	-	0.36	0.36
201	0.33	-	-	0.13	0.13
1754	0.16	-	-	0.06	0.06
561	5.17	-	-	1.96	1.96
967	6.12	2.59	-	-	2.59
562	4.25	-	-	1.61	1.61
828	0.90	-	-	0.34	0.34
1718	0.67	-	-	0.25	0.25
1556	2.35	-	-	0.89	0.89
581	0.57	-	-	0.22	0.22
518	0.77	-	-	0.29	0.29
582	0.86	-	-	0.32	0.32
547	0.85	-	-	0.32	0.32
1719	0.69	0.22	-	-	0.22
5370	1.09	-	0.54	-	0.54
5365	3.71	-	1.58	-	1.58
1489	1.23	-	-	0.47	0.47
5372	0.66	-	0.36	-	0.36
5371	0.41	-	0.26	-	0.26
5363	1.09	-	0.54	-	0.54
5364	0.35	-	0.24	-	0.24
1763	0.10	-	-	0.04	0.04
1674	1.95	-	-	0.74	0.74
862	13.23	13.23	-	-	13.23
1054	7.65	7.65	-	-	7.65
861	0.76	-	-	0.29	0.29
957	0.50	-	-	0.19	0.19
949	0.96	-	-	0.36	0.36
948	0.25	-	-	0.09	0.09
956	0.33	-	-	0.13	0.13
863	0.22	-	-	0.08	0.08
35	6.75	2.24	-	-	2.24
855	3.74	-	-	1.42	1.42
869	1.29	-	-	0.49	0.49
856	2.12	-	-	0.81	0.81
853	1.97	-	-	0.75	0.75
860	1.43	-	-	0.55	0.55
858	1.49	-	-	0.57	0.57
859	1.29	-	-	0.49	0.49
854	0.75	-	-	0.29	0.29
5215	0.48	-	0.29	-	0.29
870	0.51	-	-	0.19	0.19
837	0.27	-	-	0.10	0.10
857	1.25	-	-	0.48	0.48
849	0.14	-	-	0.05	0.05
887	18.79	18.79	-	-	18.79
1051	4.15	-	-	1.58	1.58
879	4.28	-	-	1.63	1.63

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
888	3.19	-	-	1.21	1.21
880	2.47	-	-	0.94	0.94
1053	1.33	-	-	0.51	0.51
882	1.43	-	-	0.55	0.55
1397	0.45	-	-	0.17	0.17
883	0.14	-	-	0.05	0.05
704	5.57	-	-	2.12	2.12
807	1.90	-	-	0.72	0.72
5345	1.32	-	0.63	-	0.63
708	1.11	-	-	0.42	0.42
804	1.05	-	-	0.40	0.40
694	0.78	-	-	0.30	0.30
5290	0.41	-	0.26	-	0.26
5308	0.38	-	0.25	-	0.25
805	0.69	-	-	0.26	0.26
1487	0.29	-	-	0.11	0.11
707	0.26	-	-	0.10	0.10
5310	0.30	-	0.22	-	0.22
5284	0.42	-	0.27	-	0.27
5315	0.31	-	0.22	-	0.22
699	0.17	-	-	0.06	0.06
5313	0.11	-	0.11	-	0.11
1424	0.07	-	-	0.03	0.03
876	7.03	7.03	-	-	7.03
877	2.05	2.05	-	-	2.05
893	6.59	1.38	-	-	1.38
891	1.12	-	-	0.43	0.43
894	2.30	-	-	0.87	0.87
875	1.71	-	-	0.65	0.65
892	0.89	-	-	0.34	0.34
1047	1.94	-	-	0.74	0.74
874	1.10	-	-	0.42	0.42
878	1.00	-	-	0.38	0.38
885	0.43	-	-	0.16	0.16
884	0.23	-	-	0.09	0.09
1398	0.16	-	-	0.06	0.06
503	1.46	1.46	-	-	1.46
499	1.72	-	-	0.65	0.65
955	1.05	-	-	0.40	0.40
680	1.38	-	-	0.52	0.52
5043	0.69	-	0.38	-	0.38
501	0.70	-	-	0.27	0.27
1715	0.63	-	-	0.24	0.24
500	0.64	-	-	0.24	0.24
681	0.16	-	-	0.06	0.06
5037	0.10	-	0.10	-	0.10
644	0.29	-	-	0.11	0.11
5036	0.18	-	0.17	-	0.17
5040	0.13	-	0.13	-	0.13
5375	6.53	1.83	-	-	1.83
5390	6.98	0.63	-	-	0.63
625	2.75	-	-	1.04	1.04
624	1.31	-	-	0.50	0.50
5379	0.15	-	0.15	-	0.15
695	2.98	-	-	1.13	1.13
691	3.71	-	-	1.41	1.41
690	1.32	-	-	0.50	0.50
692	0.14	-	-	0.05	0.05
1769	2.61	-	-	0.99	0.99
5309	0.63	0.20	-	-	0.20
5320	1.38	-	0.65	-	0.65
5306	0.91	0.38	-	-	0.38
5324	1.19	-	0.58	-	0.58
5323	1.00	-	0.50	-	0.50
5325	0.30	-	0.22	-	0.22
17	376.06	376.06	-	-	376.06
5033	18.44	3.44	-	-	3.44
646	6.55	2.40	-	-	2.40
1714	3.69	2.21	-	-	2.21
1711	4.66	-	-	1.77	1.77
5041	1.11	-	0.54	-	0.54
5067	0.82	-	0.43	-	0.43

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
665	0.81	0.48	-	-	0.48
5038	0.85	-	0.44	-	0.44
479	2.69	-	-	1.02	1.02
652	1.10	-	-	0.42	0.42
1728	3.13	2.36	-	-	2.36
662	0.85	-	-	0.32	0.32
1730	0.55	-	-	0.21	0.21
5066	0.58	-	0.33	-	0.33
651	0.76	-	-	0.29	0.29
673	0.56	-	-	0.21	0.21
1710	0.64	-	-	0.24	0.24
5035	0.73	0.28	-	-	0.28
672	0.50	0.28	-	-	0.28
5042	0.40	-	0.26	-	0.26
5044	0.27	-	0.21	-	0.21
1716	0.32	0.24	-	-	0.24
5068	0.27	-	0.21	-	0.21
1712	0.38	-	-	0.14	0.14
33	1.19	1.19	-	-	1.19
1396	30.22	30.22	-	-	30.22
960	1.01	-	-	0.38	0.38
1717	0.38	-	-	0.14	0.14
295	2.03	2.03	-	-	2.03
1393	1.78	-	-	0.68	0.68
5201	0.77	-	0.41	-	0.41
1346	1.36	-	-	0.52	0.52
5208	1.91	-	0.86	-	0.86
294	0.89	-	-	0.34	0.34
1356	0.57	-	-	0.22	0.22
5200	0.65	-	0.36	-	0.36
5251	0.36	-	0.24	-	0.24
5228	0.31	-	0.22	-	0.22
5234	0.24	-	0.20	-	0.20
1622	2.73	-	-	1.04	1.04
1011	4.23	-	-	1.61	1.61
1654	1.46	-	-	0.56	0.56
1013	1.16	-	-	0.44	0.44
1010	2.26	-	-	0.86	0.86
1614	0.90	-	-	0.34	0.34
1623	1.42	-	-	0.54	0.54
1613	0.72	-	-	0.27	0.27
1616	0.45	-	-	0.17	0.17
1624	0.67	-	-	0.25	0.25
1618	0.25	-	-	0.09	0.09
1021	0.13	-	-	0.05	0.05
1617	0.27	-	-	0.10	0.10
1019	0.22	-	-	0.08	0.08
998	0.09	-	-	0.03	0.03
999	0.08	-	-	0.03	0.03
1012	2.40	2.40	-	-	2.40
1006	1.05	-	-	0.40	0.40
1005	0.94	-	-	0.36	0.36
1004	0.88	-	-	0.34	0.34
1003	1.04	-	-	0.39	0.39
1009	0.40	-	-	0.15	0.15
1001	0.22	-	-	0.08	0.08
1018	0.25	-	-	0.09	0.09
1002	0.42	-	-	0.16	0.16
1049	1.78	-	-	0.68	0.68
996	0.99	-	-	0.38	0.38
491	1.32	1.32	-	-	1.32
488	6.59	1.18	-	-	1.18
450	5.10	1.75	-	-	1.75
485	3.62	-	-	1.38	1.38
1741	19.70	19.70	-	-	19.70
473	2.35	-	-	0.89	0.89
1444	3.29	1.02	-	-	1.02
1733	1.30	-	-	0.49	0.49
1463	2.63	-	-	1.00	1.00
1446	2.47	-	-	0.94	0.94
1461	2.25	-	-	0.86	0.86
1462	2.88	-	-	1.09	1.09

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
490	0.91	-	-	0.35	0.35
482	1.14	-	-	0.43	0.43
1735	3.03	0.27	-	-	0.27
1454	2.38	-	-	0.90	0.90
1814	1.96	-	-	0.74	0.74
451	0.72	0.16	-	-	0.16
5026	0.51	-	0.30	-	0.30
474	0.75	-	-	0.29	0.29
5031	0.79	-	0.42	-	0.42
5020	0.89	-	0.46	-	0.46
449	0.55	-	-	0.21	0.21
1445	0.78	-	-	0.30	0.30
5018	0.21	-	0.18	-	0.18
1734	0.40	0.19	-	-	0.19
1732	0.44	-	-	0.17	0.17
1322	6.40	3.05	-	-	3.05
1084	1.61	-	-	0.61	0.61
1314	3.43	-	-	1.30	1.30
1319	1.34	-	-	0.51	0.51
1080	1.37	-	-	0.52	0.52
1082	1.31	-	-	0.50	0.50
1317	1.40	-	-	0.53	0.53
5298	0.16	-	0.16	-	0.16
740	0.67	0.67	-	-	0.67
738	2.78	0.37	-	-	0.37
826	5.43	-	-	2.06	2.06
612	6.05	0.37	-	-	0.37
737	4.08	-	-	1.55	1.55
5246	1.88	-	0.85	-	0.85
743	2.67	-	-	1.01	1.01
759	1.79	-	-	0.68	0.68
761	1.43	-	-	0.54	0.54
5202	3.99	-	1.70	-	1.70
729	1.68	0.59	-	-	0.59
771	3.44	-	-	1.31	1.31
756	1.43	0.25	-	-	0.25
726	1.68	-	-	0.64	0.64
709	0.85	0.37	-	-	0.37
5264	6.00	0.00	-	-	0.00
5265	1.52	-	0.71	-	0.71
750	0.97	-	-	0.37	0.37
727	1.53	0.63	-	-	0.63
736	1.43	0.30	-	-	0.30
720	1.08	0.00	-	-	0.00
718	0.68	0.37	-	-	0.37
5239	1.52	0.48	-	-	0.48
717	1.27	0.34	-	-	0.34
751	1.24	-	-	0.47	0.47
712	1.11	-	-	0.42	0.42
742	0.92	-	-	0.35	0.35
716	0.63	-	-	0.24	0.24
721	0.99	0.41	-	-	0.41
719	0.67	-	-	0.25	0.25
5186	3.15	-	1.36	-	1.36
616	1.00	-	-	0.38	0.38
710	0.66	0.25	-	-	0.25
5214	0.48	-	0.29	-	0.29
722	0.48	-	-	0.18	0.18
744	1.85	-	-	0.70	0.70
5229	0.94	0.78	-	-	0.78
711	1.05	-	-	0.40	0.40
752	0.64	-	-	0.24	0.24
5196	0.66	-	0.36	-	0.36
5235	0.53	-	0.31	-	0.31
724	0.77	0.08	-	-	0.08
5257	0.76	-	0.40	-	0.40
725	0.63	0.11	-	-	0.11
615	0.42	-	-	0.16	0.16
741	0.80	-	-	0.30	0.30
5231	0.55	-	0.32	-	0.32
723	0.66	-	-	0.25	0.25
5245	0.93	-	0.47	-	0.47

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
753	0.59	-	-	0.22	0.22
5198	0.69	-	0.38	-	0.38
745	0.48	-	-	0.18	0.18
5269	0.39	-	0.26	-	0.26
730	0.48	-	-	0.18	0.18
613	0.53	-	-	0.20	0.20
5267	0.26	-	0.20	-	0.20
714	0.50	-	-	0.19	0.19
757	0.62	0.11	-	-	0.11
766	0.25	-	-	0.09	0.09
5266	0.21	-	0.18	-	0.18
5270	0.30	0.29	-	-	0.29
5273	0.23	-	0.19	-	0.19
739	0.17	0.12	-	-	0.12
5252	0.22	-	0.19	-	0.19
705	0.29	-	-	0.11	0.11
760	0.17	-	-	0.06	0.06
5260	0.36	-	0.24	-	0.24
5263	0.29	-	0.22	-	0.22
5227	0.21	-	0.18	-	0.18
5276	0.18	-	0.17	-	0.17
5211	0.17	-	0.17	-	0.17
770	0.39	-	-	0.15	0.15
614	0.26	-	-	0.10	0.10
5225	0.11	0.11	-	-	0.11
5271	0.11	-	0.11	-	0.11
5249	0.12	-	0.12	-	0.12
5230	0.08	-	0.08	-	0.08
5268	0.15	-	0.15	-	0.15
5218	0.08	-	0.08	-	0.08
992	33.34	33.34	-	-	33.34
993	2.92	2.92	-	-	2.92
1048	2.46	-	-	0.93	0.93
991	5.51	-	-	2.09	2.09
1045	2.63	-	-	1.00	1.00
1042	1.62	-	-	0.62	0.62
1040	1.79	-	-	0.68	0.68
1037	1.36	-	-	0.52	0.52
1043	0.88	-	-	0.34	0.34
994	4.00	0.32	-	-	0.32
1044	1.76	-	-	0.67	0.67
1036	1.17	-	-	0.44	0.44
1038	0.45	-	-	0.17	0.17
5070	0.36	-	0.24	-	0.24
1035	0.89	-	-	0.34	0.34
1046	0.76	-	-	0.29	0.29
995	0.63	-	-	0.24	0.24
1000	0.19	-	-	0.07	0.07
5049	4.69	-	1.98	-	1.98
5091	3.74	-	1.60	-	1.60
5080	3.68	-	1.57	-	1.57
5063	1.30	-	0.62	-	0.62
1153	1.60	-	-	0.61	0.61
5048	3.61	-	1.54	-	1.54
5047	0.89	-	0.46	-	0.46
222	2.92	-	-	1.11	1.11
5077	1.50	0.80	-	-	0.80
1141	1.12	-	-	0.43	0.43
5089	0.60	-	0.34	-	0.34
1144	1.54	-	-	0.58	0.58
5090	0.95	-	0.48	-	0.48
1155	1.91	-	-	0.73	0.73
1156	2.23	1.71	-	-	1.71
1151	0.84	-	-	0.32	0.32
1379	2.34	-	-	0.89	0.89
221	0.68	-	-	0.26	0.26
220	0.86	-	-	0.33	0.33
1139	1.15	-	-	0.44	0.44
1266	0.70	-	-	0.27	0.27
256	0.35	-	-	0.13	0.13
1131	0.69	-	-	0.26	0.26
1378	0.26	-	-	0.10	0.10

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1146	0.22	-	-	0.08	0.08
315	4.69	0.69	-	-	0.69
308	0.88	-	-	0.34	0.34
5154	0.67	-	0.37	-	0.37
5152	0.84	-	0.44	-	0.44
5153	0.62	-	0.35	-	0.35
5274	15.90	2.07	-	-	2.07
313	0.53	0.53	-	-	0.53
332	2.49	2.49	-	-	2.49
5261	4.65	0.92	-	-	0.92
293	6.80	1.70	-	-	1.70
381	1.73	-	-	0.66	0.66
314	1.15	-	-	0.44	0.44
291	2.13	-	-	0.81	0.81
292	1.34	-	-	0.51	0.51
290	1.18	0.68	-	-	0.68
379	0.25	-	-	0.09	0.09
336	4.66	4.66	-	-	4.66
5167	12.91	3.66	-	-	3.66
306	2.43	-	-	0.92	0.92
335	2.54	-	-	0.96	0.96
339	1.92	-	-	0.73	0.73
337	1.41	-	-	0.53	0.53
5177	0.43	-	0.27	-	0.27
334	0.24	-	-	0.09	0.09
495	4.17	4.17	-	-	4.17
1475	2.20	2.20	-	-	2.20
496	1.51	1.51	-	-	1.51
1459	2.77	2.77	-	-	2.77
494	6.62	0.30	-	-	0.30
1466	4.88	-	-	1.86	1.86
461	3.29	-	-	1.25	1.25
1813	4.30	1.39	-	-	1.39
486	2.31	-	-	0.88	0.88
1473	3.79	-	-	1.44	1.44
492	2.00	-	-	0.76	0.76
487	2.36	0.28	-	-	0.28
1476	3.99	0.90	-	-	0.90
493	2.88	-	-	1.09	1.09
454	0.99	0.56	-	-	0.56
452	3.22	1.68	-	-	1.68
1460	1.44	-	-	0.55	0.55
1478	1.50	1.28	-	-	1.28
1472	1.26	-	-	0.48	0.48
1477	1.09	-	-	0.42	0.42
1471	1.42	-	-	0.54	0.54
484	0.77	-	-	0.29	0.29
1467	1.05	-	-	0.40	0.40
1479	0.67	-	-	0.26	0.26
483	1.10	-	-	0.42	0.42
1474	0.76	0.46	-	-	0.46
453	0.44	-	-	0.17	0.17
1708	0.86	-	-	0.33	0.33
1395	0.32	-	-	0.12	0.12
199	0.75	-	-	0.29	0.29
5175	6.33	5.61	-	-	5.61
5161	4.42	-	1.87	-	1.87
1289	2.13	-	-	0.81	0.81
5159	1.69	-	0.78	-	0.78
1805	0.48	-	-	0.18	0.18
1555	1.48	-	-	0.56	0.56
1557	0.71	-	-	0.27	0.27
1558	0.33	-	-	0.13	0.13
1067	2.58	-	-	0.98	0.98
388	2.70	-	-	1.03	1.03
1071	1.25	-	-	0.48	0.48
386	1.24	-	-	0.47	0.47
400	1.35	-	-	0.51	0.51
1072	0.46	-	-	0.17	0.17
397	0.68	-	-	0.26	0.26
396	0.42	-	-	0.16	0.16
1068	0.29	-	-	0.11	0.11

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
394	0.66	-	-	0.25	0.25
5420	0.24	-	0.20	-	0.20
5421	0.39	-	0.26	-	0.26
1070	1.00	-	-	0.38	0.38
389	0.16	-	-	0.06	0.06
5432	0.09	-	0.09	-	0.09
5427	0.11	-	0.11	-	0.11
387	0.15	-	-	0.06	0.06
1069	0.10	-	-	0.04	0.04
921	3.26	3.26	-	-	3.26
505	0.00	0.00	-	-	0.00
923	1.02	-	-	0.39	0.39
507	2.25	0.59	-	-	0.59
5119	2.33	-	1.03	-	1.03
655	1.26	-	-	0.48	0.48
922	2.94	-	-	1.12	1.12
512	0.86	0.32	-	-	0.32
5111	0.61	-	0.34	-	0.34
656	0.41	-	-	0.16	0.16
5114	0.16	-	0.16	-	0.16
1645	0.33	0.33	-	-	0.33
990	4.55	-	-	1.73	1.73
1027	2.65	-	-	1.01	1.01
1542	1.16	-	-	0.44	0.44
1025	0.94	-	-	0.36	0.36
1544	1.08	-	-	0.41	0.41
1055	1.15	-	-	0.44	0.44
1541	1.79	-	-	0.68	0.68
1686	0.49	-	-	0.19	0.19
1058	1.11	-	-	0.42	0.42
1480	0.46	-	-	0.17	0.17
1726	0.44	-	-	0.17	0.17
1543	0.23	-	-	0.09	0.09
1056	0.32	-	-	0.12	0.12
1028	0.14	-	-	0.05	0.05
1651	0.14	-	-	0.05	0.05
1517	0.80	-	-	0.30	0.30
926	0.67	-	-	0.26	0.26
927	0.50	-	-	0.19	0.19
918	0.84	-	-	0.32	0.32
946	0.36	-	-	0.14	0.14
5062	0.34	-	0.24	-	0.24
940	0.99	-	-	0.38	0.38
947	0.36	-	-	0.14	0.14
1527	0.70	-	-	0.27	0.27
1529	0.09	-	-	0.03	0.03
1528	0.36	-	-	0.14	0.14
925	0.44	-	-	0.17	0.17
1526	0.10	-	-	0.04	0.04
873	3.83	3.83	-	-	3.83
924	6.77	7.35	-	-	7.35
872	0.69	-	-	0.26	0.26
1399	0.89	-	-	0.34	0.34
917	0.65	-	-	0.25	0.25
5135	0.22	-	0.19	-	0.19
986	0.00	0.00	-	-	0.00
985	6.71	2.96	-	-	2.96
1539	2.65	-	-	1.01	1.01
1570	0.68	-	-	0.26	0.26
1685	0.50	-	-	0.19	0.19
1540	0.49	-	-	0.19	0.19
1567	0.16	-	-	0.06	0.06
1547	0.16	-	-	0.06	0.06
1387	1.69	1.23	-	-	1.23
5402	0.48	-	0.29	-	0.29
5401	0.19	-	0.18	-	0.18
5408	0.18	-	0.17	-	0.17
5403	0.10	-	0.10	-	0.10
5407	0.10	-	0.10	-	0.10
472	7.55	7.55	-	-	7.55
470	13.48	13.48	-	-	13.48
1443	4.34	4.34	-	-	4.34

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
322	3.97	-	-	1.51	1.51
5021	12.52	0.47	-	-	0.47
471	2.69	-	-	1.02	1.02
455	1.66	-	-	0.63	0.63
448	1.25	-	-	0.48	0.48
469	1.01	0.34	-	-	0.34
1442	0.92	0.41	-	-	0.41
1739	0.81	-	-	0.31	0.31
5019	0.66	-	0.36	-	0.36
5024	1.03	0.42	-	-	0.42
5032	0.20	-	0.18	-	0.18
1740	0.22	-	-	0.08	0.08
1081	1.44	-	-	0.55	0.55
5398	2.97	-	1.29	-	1.29
5400	3.25	1.42	-	-	1.42
5404	1.30	0.19	-	-	0.19
1402	1.11	0.87	-	-	0.87
5405	0.57	-	0.33	-	0.33
5282	0.79	-	0.42	-	0.42
1403	3.68	2.01	-	-	2.01
5385	2.14	-	0.96	-	0.96
5382	0.75	-	0.40	-	0.40
1324	1.09	-	-	0.42	0.42
1323	1.46	-	-	0.56	0.56
5381	0.66	-	0.36	-	0.36
5238	3.63	-	1.55	-	1.55
5204	1.67	-	0.77	-	0.77
1309	2.55	-	-	0.97	0.97
5277	3.71	-	1.58	-	1.58
1313	2.10	-	-	0.80	0.80
1310	0.67	-	-	0.26	0.26
5226	0.30	-	0.22	-	0.22
943	7.48	7.48	-	-	7.48
5039	3.81	-	1.62	-	1.62
935	2.79	-	-	1.06	1.06
1531	3.26	-	-	1.24	1.24
1532	2.42	-	-	0.92	0.92
5056	2.96	-	1.28	-	1.28
933	1.85	-	-	0.70	0.70
929	3.33	-	-	1.27	1.27
944	1.46	-	-	0.56	0.56
5051	0.96	-	0.48	-	0.48
931	0.45	-	-	0.17	0.17
1530	1.58	-	-	0.60	0.60
942	0.71	-	-	0.27	0.27
939	0.62	-	-	0.23	0.23
5065	0.39	-	0.26	-	0.26
941	0.55	-	-	0.21	0.21
945	0.61	-	-	0.23	0.23
5060	0.51	-	0.30	-	0.30
930	0.20	-	-	0.08	0.08
932	0.19	-	-	0.07	0.07
5054	0.26	-	0.20	-	0.20
1535	0.23	-	-	0.09	0.09
5046	0.17	-	0.17	-	0.17
928	0.38	-	-	0.14	0.14
938	0.36	-	-	0.14	0.14
1533	0.19	-	-	0.07	0.07
5061	0.05	-	0.05	-	0.05
5053	0.07	-	0.07	-	0.07
1506	5.85	0.95	-	-	0.95
1509	3.37	-	-	1.28	1.28
1507	3.02	-	-	1.15	1.15
1667	1.01	-	-	0.38	0.38
1669	1.05	-	-	0.40	0.40
1588	0.78	-	-	0.30	0.30
1511	1.13	-	-	0.43	0.43
1553	1.12	-	-	0.43	0.43
1700	0.91	-	-	0.35	0.35
1589	0.88	-	-	0.34	0.34
1666	0.41	-	-	0.16	0.16
1679	1.01	-	-	0.38	0.38

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1587	0.45	-	-	0.17	0.17
1665	0.23	-	-	0.09	0.09
1590	0.13	-	-	0.05	0.05
1564	1.25	-	-	0.48	0.48
1566	1.41	-	-	0.53	0.53
1582	1.74	-	-	0.66	0.66
1565	1.03	-	-	0.39	0.39
1569	0.49	-	-	0.19	0.19
1672	0.62	-	-	0.23	0.23
1537	0.57	-	-	0.22	0.22
1538	0.52	-	-	0.20	0.20
1536	0.45	-	-	0.17	0.17
1559	0.25	-	-	0.09	0.09
1562	0.16	-	-	0.06	0.06
1568	0.20	-	-	0.08	0.08
1563	0.06	-	-	0.02	0.02
1697	2.66	-	-	1.01	1.01
1518	1.00	-	-	0.38	0.38
1699	2.58	-	-	0.98	0.98
1521	0.73	-	-	0.28	0.28
1703	0.86	-	-	0.32	0.32
1691	0.89	-	-	0.34	0.34
1696	0.63	-	-	0.24	0.24
1573	0.61	-	-	0.23	0.23
1694	0.40	-	-	0.15	0.15
1516	0.65	-	-	0.25	0.25
1523	0.63	-	-	0.24	0.24
1522	2.31	-	-	0.88	0.88
1524	0.72	-	-	0.27	0.27
1515	0.50	-	-	0.19	0.19
1698	0.37	-	-	0.14	0.14
1695	0.52	-	-	0.20	0.20
1693	1.34	-	-	0.51	0.51
1572	0.51	-	-	0.19	0.19
1513	0.70	-	-	0.27	0.27
1519	0.25	-	-	0.09	0.09
1520	0.32	-	-	0.12	0.12
1584	0.26	-	-	0.10	0.10
1575	0.23	-	-	0.09	0.09
1571	0.15	-	-	0.06	0.06
1574	0.27	-	-	0.10	0.10
1578	0.09	-	-	0.03	0.03
1583	4.70	-	-	1.79	1.79
908	5.50	-	-	2.09	2.09
1554	2.91	-	-	1.10	1.10
1592	2.11	-	-	0.80	0.80
1504	2.55	-	-	0.97	0.97
1607	0.91	-	-	0.35	0.35
909	1.19	-	-	0.45	0.45
1668	0.81	-	-	0.31	0.31
907	1.16	-	-	0.44	0.44
1600	1.08	-	-	0.41	0.41
1610	1.15	-	-	0.44	0.44
1660	0.36	-	-	0.14	0.14
1593	0.75	-	-	0.29	0.29
959	1.67	-	-	0.64	0.64
1670	0.56	-	-	0.21	0.21
1601	0.53	-	-	0.20	0.20
1597	0.60	-	-	0.23	0.23
1503	0.68	-	-	0.26	0.26
1599	0.37	-	-	0.14	0.14
1598	0.48	-	-	0.18	0.18
1612	0.34	-	-	0.13	0.13
1611	0.26	-	-	0.10	0.10
1603	0.09	-	-	0.03	0.03
1661	0.25	-	-	0.09	0.09
1662	0.19	-	-	0.07	0.07
1602	0.09	-	-	0.03	0.03
1671	0.27	-	-	0.10	0.10
1663	0.27	-	-	0.10	0.10
1596	0.18	-	-	0.07	0.07
1664	0.11	-	-	0.04	0.04

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1604	0.08	-	-	0.03	0.03
251	3.15	3.15	-	-	3.15
1281	19.79	19.79	-	-	19.79
1777	1.54	-	-	0.58	0.58
1277	3.14	-	-	1.19	1.19
1776	6.66	4.70	-	-	4.70
5140	6.30	3.99	-	-	3.99
5105	1.57	-	0.73	-	0.73
248	1.72	-	-	0.65	0.65
1775	4.10	2.03	-	-	2.03
250	1.41	-	-	0.53	0.53
1781	2.00	-	-	0.76	0.76
5120	4.35	-	1.84	-	1.84
260	1.70	-	-	0.65	0.65
1774	2.94	-	-	1.12	1.12
5134	1.62	-	0.75	-	0.75
1275	2.26	-	-	0.86	0.86
258	1.66	-	-	0.63	0.63
1268	0.81	-	-	0.31	0.31
246	1.16	-	-	0.44	0.44
249	1.08	-	-	0.41	0.41
244	0.56	0.34	-	-	0.34
1411	0.85	-	-	0.32	0.32
1420	0.25	-	-	0.09	0.09
1278	1.25	-	-	0.48	0.48
5106	0.51	-	0.30	-	0.30
259	0.61	-	-	0.23	0.23
1760	1.38	1.38	-	-	1.38
38	2.97	2.97	-	-	2.97
1764	5.17	5.17	-	-	5.17
5374	0.07	-	0.07	-	0.07
5396	0.80	-	0.42	-	0.42
415	1.04	-	-	0.39	0.39
412	0.61	-	-	0.23	0.23
419	0.26	-	-	0.10	0.10
5397	0.25	-	0.20	-	0.20
5395	0.12	-	0.12	-	0.12
1405	5.74	0.53	-	-	0.53
5419	2.79	-	1.22	-	1.22
5412	1.33	-	0.63	-	0.63
5429	0.84	-	0.44	-	0.44
5409	0.92	-	0.47	-	0.47
5414	0.71	-	0.38	-	0.38
5418	0.63	-	0.35	-	0.35
1404	0.50	-	-	0.19	0.19
5417	0.99	-	0.50	-	0.50
5411	0.46	-	0.28	-	0.28
5415	0.36	-	0.24	-	0.24
385	0.28	-	-	0.10	0.10
5433	0.05	-	0.05	-	0.05
5413	0.03	-	0.03	-	0.03
1657	5.56	-	-	2.11	2.11
1658	0.45	-	-	0.17	0.17
1108	118.58	118.58	-	-	118.58
1097	4.73	-	-	1.80	1.80
1117	1.84	-	-	0.70	0.70
1099	7.38	7.77	-	-	7.77
1095	1.53	-	-	0.58	0.58
1094	0.98	-	-	0.37	0.37
1118	0.48	-	-	0.18	0.18
604	0.31	0.31	-	-	0.31
1744	7.07	5.36	-	-	5.36
570	4.52	-	-	1.72	1.72
603	1.31	-	-	0.50	0.50
534	3.53	-	-	1.34	1.34
601	0.82	-	-	0.31	0.31
602	2.10	-	-	0.80	0.80
522	0.51	-	-	0.19	0.19
150	0.31	-	-	0.12	0.12
535	0.76	-	-	0.29	0.29
164	0.20	-	-	0.08	0.08
238	7.53	2.73	-	-	2.73

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
236	4.83	-	-	1.83	1.83
1425	0.00	0.00	-	-	0.00
240	2.78	0.28	-	-	0.28
319	1.49	-	-	0.57	0.57
141	2.68	-	-	1.02	1.02
241	2.90	-	-	1.10	1.10
5017	1.05	-	0.52	-	0.52
237	1.11	-	-	0.42	0.42
1426	1.15	0.69	-	-	0.69
235	0.51	-	-	0.19	0.19
5016	0.48	0.32	-	-	0.32
5030	0.16	-	0.16	-	0.16
1481	1.79	-	-	0.68	0.68
997	2.32	-	-	0.88	0.88
1050	0.93	-	-	0.35	0.35
1026	0.29	-	-	0.11	0.11
5388	7.53	7.53	-	-	7.53
1408	5.88	0.72	-	-	0.72
1367	6.72	0.00	-	-	0.00
1368	2.16	-	-	0.82	0.82
1376	1.91	-	-	0.73	0.73
1371	1.37	-	-	0.52	0.52
5394	2.03	-	0.91	-	0.91
443	0.66	-	-	0.25	0.25
1407	1.21	-	-	0.46	0.46
1375	2.64	-	-	1.00	1.00
1370	1.48	-	-	0.56	0.56
1369	0.73	-	-	0.28	0.28
1366	2.22	-	-	0.84	0.84
1329	1.08	-	-	0.41	0.41
446	0.59	-	-	0.22	0.22
5389	0.14	-	0.14	-	0.14
1345	5.63	-	-	2.14	2.14
1335	2.13	-	-	0.81	0.81
376	1.15	-	-	0.44	0.44
1364	1.17	-	-	0.44	0.44
1334	0.80	-	-	0.30	0.30
1336	1.34	-	-	0.51	0.51
1338	1.65	-	-	0.63	0.63
377	0.57	-	-	0.22	0.22
1365	1.24	-	-	0.47	0.47
5319	0.37	-	0.25	-	0.25
375	0.42	-	-	0.16	0.16
1337	0.29	-	-	0.11	0.11
5299	0.31	-	0.22	-	0.22
5293	0.26	-	0.20	-	0.20
352	0.13	-	-	0.05	0.05
5297	0.21	-	0.18	-	0.18
1331	0.15	-	-	0.06	0.06
372	0.12	-	-	0.05	0.05
353	0.20	-	-	0.08	0.08
1633	1.70	-	-	0.65	0.65
1635	1.78	-	-	0.68	0.68
1627	0.95	-	-	0.36	0.36
1634	1.42	-	-	0.54	0.54
1648	2.00	-	-	0.76	0.76
1630	1.43	-	-	0.54	0.54
1631	0.65	-	-	0.25	0.25
1629	1.34	-	-	0.51	0.51
1647	0.24	-	-	0.09	0.09
1628	0.40	-	-	0.15	0.15
1626	0.31	-	-	0.12	0.12
1646	0.29	-	-	0.11	0.11
1456	24.67	24.67	-	-	24.67
5118	0.96	0.43	-	-	0.43
5121	1.67	0.21	-	-	0.21
1709	0.42	-	-	0.16	0.16
5144	0.76	-	0.40	-	0.40
5128	1.17	-	0.57	-	0.57
5131	0.81	-	0.42	-	0.42
1075	2.04	-	-	0.78	0.78
5430	0.36	-	0.24	-	0.24

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ^a	OSE Photo-Interpreted HWM ^b	HWM area from Relationship to Field Measured Maximum Area ^c	HWM area from Relationship to US Survey Stereo Analyst Area ^d	
5386	1.18	-	0.57	-	0.57
5384	1.04	-	0.52	-	0.52
5380	0.78	0.70	-	-	0.70
371	0.63	-	-	0.24	0.24
5383	1.15	-	0.56	-	0.56
1770	0.54	-	-	0.21	0.21
5391	0.12	-	0.12	-	0.12
384	1.49	-	-	0.57	0.57
5354	3.94	-	1.68	-	1.68
374	0.95	-	-	0.36	0.36
1771	0.60	-	-	0.23	0.23
5358	1.16	-	0.56	-	0.56
5305	0.48	-	0.29	-	0.29
373	0.67	-	-	0.26	0.26
5294	0.27	-	0.21	-	0.21
5195	5.95	2.84	-	-	2.84
813	4.07	1.31	-	-	1.31
689	3.36	-	-	1.28	1.28
5262	4.16	-	1.76	-	1.76
700	2.96	-	-	1.13	1.13
688	2.75	-	-	1.04	1.04
594	5.67	-	-	2.16	2.16
687	4.03	0.47	-	-	0.47
5189	1.48	-	0.69	-	0.69
684	3.34	-	-	1.27	1.27
811	3.25	-	-	1.23	1.23
685	1.37	-	-	0.52	0.52
591	1.71	-	-	0.65	0.65
812	2.01	0.62	-	-	0.62
610	0.92	-	-	0.35	0.35
5280	0.59	-	0.34	-	0.34
609	0.56	-	-	0.21	0.21
5185	1.63	-	0.75	-	0.75
593	0.76	0.29	-	-	0.29
611	0.71	-	-	0.27	0.27
1768	0.61	-	-	0.23	0.23
5183	0.32	-	0.23	-	0.23
5250	0.41	-	0.26	-	0.26
5213	0.18	-	0.17	-	0.17
5188	0.08	-	0.08	-	0.08
234	1.26	1.26	-	-	1.26
230	9.63	9.63	-	-	9.63
233	0.71	0.71	-	-	0.71
810	1.26	1.26	-	-	1.26
232	3.58	-	-	1.36	1.36
1743	1.84	-	-	0.70	0.70
231	0.53	-	-	0.20	0.20
5052	0.35	-	0.24	-	0.24
278	3.09	-	-	1.17	1.17
1746	3.13	-	-	1.19	1.19
5097	0.97	-	0.49	-	0.49
657	2.27	-	-	0.86	0.86
5112	0.80	-	0.42	-	0.42
282	0.69	-	-	0.26	0.26
5146	0.88	-	0.45	-	0.45
5103	0.53	-	0.31	-	0.31
1745	0.60	-	-	0.23	0.23
5139	0.15	-	0.15	-	0.15
1742	1.23	1.23	-	-	1.23
281	1.27	-	-	0.48	0.48
283	0.82	-	-	0.31	0.31
5147	0.14	-	0.14	-	0.14
468	13.70	13.70	-	-	13.70
178	7.72	7.72	-	-	7.72
325	4.50	5.59	-	-	5.59
1415	0.00	0.00	-	-	0.00
671	1.76	-	-	0.67	0.67
674	4.56	1.63	-	-	1.63
286	3.78	-	-	1.44	1.44
1063	2.26	0.60	-	-	0.60
658	2.20	-	-	0.84	0.84
475	0.82	-	-	0.31	0.31

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands In the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
669	1.80	0.63	-	-	0.63
324	1.01	0.71	-	-	0.71
1458	0.93	-	-	0.35	0.35
5064	1.02	-	0.51	-	0.51
5058	1.38	0.75	-	-	0.75
284	0.77	-	-	0.29	0.29
661	3.71	-	-	1.41	1.41
285	0.86	-	-	0.33	0.33
5075	1.21	-	0.58	-	0.58
323	0.58	-	-	0.22	0.22
5059	0.72	-	0.39	-	0.39
668	0.67	-	-	0.26	0.26
670	1.02	-	-	0.39	0.39
1731	1.34	-	-	0.51	0.51
5192	11.24	0.83	-	-	0.83
342	6.15	0.74	-	-	0.74
343	3.07	0.85	-	-	0.85
5233	6.60	1.47	-	-	1.47
5241	4.34	-	1.84	-	1.84
348	3.78	1.15	-	-	1.15
350	2.46	1.45	-	-	1.45
345	2.39	0.56	-	-	0.56
349	1.76	-	-	0.67	0.67
346	2.41	0.19	-	-	0.19
5190	1.08	-	0.53	-	0.53
344	1.75	-	-	0.66	0.66
341	0.90	-	-	0.34	0.34
5187	0.21	-	0.18	-	0.18
5232	0.40	-	0.26	-	0.26
5209	0.19	-	0.18	-	0.18
976	3.98	-	-	1.51	1.51
978	3.16	-	-	1.20	1.20
1655	0.42	-	-	0.16	0.16
977	0.27	-	-	0.10	0.10
1251	6.96	6.03	-	-	6.03
5151	0.24	-	0.20	-	0.20
5138	0.23	-	0.19	-	0.19
1133	0.00	0.00	-	-	0.00
1134	2.40	-	-	0.91	0.91
1135	4.66	-	-	1.77	1.77
1122	1.55	-	-	0.59	0.59
1236	1.18	-	-	0.45	0.45
1132	0.79	-	-	0.30	0.30
1237	0.48	-	-	0.18	0.18
1217	0.86	0.86	-	-	0.86
1821	2.51	0.38	-	-	0.38
1772	3.22	3.22	-	-	3.22
1203	2.84	-	-	1.08	1.08
1822	1.83	0.00	-	-	0.00
5011	2.79	0.77	-	-	0.77
1214	1.90	-	-	0.72	0.72
1202	2.11	-	-	0.80	0.80
5009	1.82	-	0.83	-	0.83
1213	1.94	-	-	0.74	0.74
1222	1.91	-	-	0.73	0.73
5008	2.02	-	0.91	-	0.91
1215	1.51	-	-	0.57	0.57
1209	0.59	-	-	0.22	0.22
1234	1.05	0.58	-	-	0.58
1773	0.32	-	-	0.12	0.12
1169	0.36	-	-	0.14	0.14
1225	0.55	-	-	0.21	0.21
1231	0.47	-	-	0.18	0.18
1230	0.33	-	-	0.13	0.13
1204	0.20	-	-	0.08	0.08
1229	0.24	-	-	0.09	0.09
1228	0.35	-	-	0.13	0.13
1227	0.24	-	-	0.09	0.09
1207	0.13	-	-	0.05	0.05
1233	0.05	-	-	0.02	0.02
1226	0.21	-	-	0.08	0.08
163	3.85	-	-	1.46	1.46

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
152	2.32	1.86	-	-	1.86
18	9.49	9.49	-	-	9.49
5010	10.38	7.72	-	-	7.72
5012	5.59	-	2.34	-	2.34
1753	5.00	-	-	1.90	1.90
158	3.57	-	-	1.36	1.36
5013	2.52	-	1.11	-	1.11
145	2.01	-	-	0.77	0.77
157	1.05	-	-	0.40	0.40
149	0.73	-	-	0.28	0.28
198	0.48	-	-	0.18	0.18
151	0.19	0.20	-	-	0.20
28	0.21	-	-	0.08	0.08
1088	0.97	-	-	0.37	0.37
1294	3.43	-	-	1.30	1.30
5160	1.31	-	0.62	-	0.62
1293	1.92	-	-	0.73	0.73
1297	1.05	-	-	0.40	0.40
1292	1.53	-	-	0.58	0.58
1219	4.57	-	-	1.74	1.74
1188	3.97	-	-	1.51	1.51
1197	1.93	-	-	0.73	0.73
1199	2.80	-	-	1.06	1.06
1198	2.67	-	-	1.01	1.01
5001	1.38	-	0.65	-	0.65
1220	1.59	-	-	0.60	0.60
1778	0.80	-	-	0.30	0.30
1187	0.27	-	-	0.10	0.10
5110	6.21	5.17	-	-	5.17
1252	2.07	-	-	0.79	0.79
1388	2.88	-	-	1.09	1.09
5141	2.57	1.53	-	-	1.53
5136	1.10	-	0.54	-	0.54
5137	0.36	-	0.24	-	0.24
5130	0.78	-	0.41	-	0.41
1273	0.51	-	-	0.19	0.19
5093	0.60	-	0.34	-	0.34
5129	0.28	-	0.21	-	0.21
5143	0.20	-	0.18	-	0.18
5142	0.13	-	0.13	-	0.13
5100	0.28	-	0.21	-	0.21
5098	0.13	-	0.13	-	0.13
5145	0.88	-	0.45	-	0.45
41	27.30	27.30	-	-	27.30
1264	2.29	-	-	0.87	0.87
1267	4.80	-	-	1.82	1.82
1780	3.31	0.41	-	-	0.41
1779	1.59	-	-	0.60	0.60
1265	0.85	-	-	0.32	0.32
1377	0.88	-	-	0.34	0.34
1247	0.99	-	-	0.38	0.38
1154	0.91	-	-	0.35	0.35
1262	0.57	-	-	0.22	0.22
5087	0.98	-	0.49	-	0.49
5086	0.38	-	0.25	-	0.25
5050	0.15	-	0.15	-	0.15
1031	8.40	8.40	-	-	8.40
915	12.50	12.50	-	-	12.50
910	7.32	0.59	-	-	0.59
1032	4.68	2.56	-	-	2.56
1682	1.41	-	-	0.53	0.53
1725	1.05	-	-	0.40	0.40
1030	1.16	-	-	0.44	0.44
1034	0.48	-	-	0.18	0.18
1724	1.20	-	-	0.45	0.45
1022	0.42	-	-	0.16	0.16
1680	0.43	-	-	0.16	0.16
914	0.63	-	-	0.24	0.24
1024	0.73	-	-	0.28	0.28
1033	1.71	-	-	0.65	0.65
1681	0.20	-	-	0.08	0.08
1721	0.37	-	-	0.14	0.14

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1723	0.23	-	-	0.09	0.09
1546	1.51	-	-	0.57	0.57
1545	0.45	-	-	0.17	0.17
1333	5.88	5.88	-	-	5.88
40	18.44	18.44	-	-	18.44
1342	5.66	-	-	2.15	2.15
5367	6.55	0.91	-	-	0.91
1372	7.40	7.77	-	-	7.77
1325	1.06	1.06	-	-	1.06
1782	1.02	-	-	0.39	0.39
1373	1.74	-	-	0.66	0.66
1341	1.03	-	-	0.39	0.39
1328	4.99	0.91	-	-	0.91
1332	1.34	-	-	0.51	0.51
1363	2.31	-	-	0.88	0.88
1362	0.55	-	-	0.21	0.21
1340	0.31	-	-	0.12	0.12
1316	0.27	-	-	0.10	0.10
1374	0.60	-	-	0.23	0.23
5366	0.24	-	0.20	-	0.20
1344	0.20	-	-	0.08	0.08
1129	2.57	-	-	0.98	0.98
5223	0.22	-	0.19	-	0.19
211	0.37	-	-	0.14	0.14
698	3.85	-	-	1.46	1.46
988	67.85	67.85	-	-	67.85
5116	0.35	-	0.24	-	0.24
378	2.17	-	-	0.82	0.82
809	1.07	-	-	0.41	0.41
1414	1.46	-	-	0.56	0.56
5242	2.78	-	1.21	-	1.21
773	2.15	-	-	0.82	0.82
5244	0.42	-	0.27	-	0.27
5272	0.64	-	0.36	-	0.36
768	0.94	-	-	0.36	0.36
5258	0.40	-	0.26	-	0.26
5255	0.47	-	0.29	-	0.29
834	0.25	-	-	0.09	0.09
5300	0.85	-	0.44	-	0.44
787	0.29	-	-	0.11	0.11
633	3.43	-	-	1.30	1.30
366	5.17	-	-	1.96	1.96
5373	2.28	-	1.01	-	1.01
365	1.34	-	-	0.51	0.51
5378	1.27	-	0.61	-	0.61
5393	0.94	-	0.48	-	0.48
5314	4.35	-	1.84	-	1.84
5351	1.86	-	0.84	-	0.84
5307	3.01	-	1.30	-	1.30
5291	2.73	-	1.19	-	1.19
5304	3.05	-	1.32	-	1.32
5329	1.46	-	0.68	-	0.68
5292	1.19	-	0.58	-	0.58
794	2.80	-	-	1.06	1.06
795	3.14	-	-	1.19	1.19
5326	1.35	-	0.64	-	0.64
5295	0.99	-	0.50	-	0.50
5339	0.69	-	0.38	-	0.38
5335	1.17	-	0.57	-	0.57
5322	0.85	-	0.44	-	0.44
5303	1.26	-	0.60	-	0.60
5302	0.60	-	0.34	-	0.34
5288	0.35	-	0.24	-	0.24
825	0.42	-	-	0.16	0.16
5338	0.39	-	0.26	-	0.26
788	0.49	-	-	0.19	0.19
5312	0.34	-	0.24	-	0.24
839	0.46	-	-	0.17	0.17
5347	0.27	-	0.21	-	0.21
833	0.62	-	-	0.23	0.23
5289	0.30	-	0.22	-	0.22
5285	0.52	-	0.31	-	0.31

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
789	0.52	-	-	0.20	0.20
790	0.46	-	-	0.17	0.17
5281	0.39	-	0.26	-	0.26
5287	0.24	-	0.20	-	0.20
5286	0.21	-	0.18	-	0.18
5359	0.21	-	0.18	-	0.18
785	0.26	-	-	0.10	0.10
5321	0.27	-	0.21	-	0.21
5360	0.11	-	0.11	-	0.11
5356	0.03	-	0.03	-	0.03
808	6.42	0.00	-	-	0.00
5301	2.78	-	1.21	-	1.21
697	2.03	-	-	0.77	0.77
803	3.27	-	-	1.24	1.24
806	0.85	-	-	0.32	0.32
5283	0.64	-	0.36	-	0.36
5328	0.48	-	0.29	-	0.29
5376	1.93	1.78	-	-	1.78
5377	0.56	-	0.32	-	0.32
814	7.25	0.00	-	-	0.00
5361	1.55	-	0.72	-	0.72
816	1.63	-	-	0.62	0.62
5311	0.63	-	0.35	-	0.35
5357	0.25	-	0.20	-	0.20
623	0.48	-	-	0.18	0.18
5352	9.34	1.80	-	-	1.80
5330	2.74	-	1.20	-	1.20
5316	2.17	1.16	-	-	1.16
5344	0.75	-	0.40	-	0.40
367	1.08	-	-	0.41	0.41
361	2.44	-	-	0.93	0.93
368	1.19	-	-	0.45	0.45
370	1.25	-	-	0.48	0.48
354	1.05	-	-	0.40	0.40
355	0.56	-	-	0.21	0.21
5353	0.78	-	0.41	-	0.41
5318	0.58	0.30	-	-	0.30
356	1.09	-	-	0.42	0.42
382	0.21	-	-	0.08	0.08
5216	0.73	-	0.39	-	0.39
5296	0.22	-	0.19	-	0.19
5346					
5350					
458	0.08	-	-	0.03	0.03
411	0.79	-	-	0.30	0.30
852	0.94	-	-	0.36	0.36
844	0.36	-	-	0.14	0.14
777	0.27	-	-	0.10	0.10
413	1.10	-	-	0.42	0.42
1171	0.83	-	-	0.31	0.31
1184	0.37	-	-	0.14	0.14
153	0.41	-	-	0.16	0.16
881	1.47	-	-	0.56	0.56
1008	1.04	-	-	0.39	0.39
989	0.22	-	-	0.08	0.08
1280	0.37	-	-	0.14	0.14
660	0.76	-	-	0.29	0.29
208	0.35	-	-	0.13	0.13
197	0.76	-	-	0.29	0.29
5172	0.10	-	0.10	-	0.10
5174	0.04	-	0.04	-	0.04
528	0.33	-	-	0.13	0.13
1738	0.18	-	-	0.07	0.07
1737	0.12	-	-	0.05	0.05
606	0.10	-	-	0.04	0.04
1736	0.10	-	-	0.04	0.04
466	0.27	-	-	0.10	0.10
459	0.09	-	-	0.03	0.03
1820	6.94	3.25	-	-	3.25
205	0.29	-	-	0.11	0.11
1752	0.25	-	-	0.09	0.09
206	0.12	-	-	0.05	0.05

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ¹	HWM area from Relationship to Field Measured Maximum Area ²	HWM area from Relationship to US Survey Stereo Analyst Area ³	
1193	0.11	-	-	0.04	0.04
598	0.07	-	-	0.03	0.03
596	0.07	-	-	0.03	0.03
597	0.02	-	-	0.01	0.01
5434	0.14	-	0.14	-	0.14
407	0.10	-	-	0.04	0.04
408	0.03	-	-	0.01	0.01
1182	2.07	-	-	0.79	0.79
1172	0.32	-	-	0.12	0.12
1173	0.10	-	-	0.04	0.04
1176	0.07	-	-	0.03	0.03
1625	0.31	-	-	0.12	0.12
1650	0.27	-	-	0.10	0.10
204	0.19	0.08	-	-	0.08
209	0.10	-	-	0.04	0.04
179	0.34	-	-	0.13	0.13
175	0.32	-	-	0.12	0.12
219	0.11	-	-	0.04	0.04
1160	0.10	-	-	0.04	0.04
1676	1.46	-	-	0.56	0.56
1016	1.92	-	-	0.73	0.73
1020	0.11	-	-	0.04	0.04
889	0.17	-	-	0.06	0.06
1014	0.19	-	-	0.07	0.07
557	3.69	-	-	1.40	1.40
564	0.15	-	-	0.06	0.06
5002	0.15	-	0.15	-	0.15
576	0.59	-	-	0.22	0.22
1422	0.43	-	-	0.16	0.16
575	0.27	-	-	0.10	0.10
317	0.66	-	-	0.25	0.25
146	0.32	-	-	0.12	0.12
173	0.32	-	-	0.12	0.12
5029	0.58	0.58	-	-	0.58
148	0.13	-	-	0.05	0.05
147	0.12	-	-	0.05	0.05
5343	2.57	-	1.13	-	1.13
1656	0.84	-	-	0.32	0.32
271	0.12	-	-	0.05	0.05
252	0.37	-	-	0.14	0.14
5095	0.12	-	0.12	-	0.12
261	0.06	-	-	0.02	0.02
274	0.11	-	-	0.04	0.04
242	0.07	-	-	0.03	0.03
5094	0.05	-	0.05	-	0.05
185	0.72	-	-	0.27	0.27
5074	0.11	-	0.11	-	0.11
5071	0.09	-	0.09	-	0.09
543	0.71	-	-	0.27	0.27
1078	0.13	-	-	0.05	0.05
5181	0.06	-	0.06	-	0.06
5148	0.07	-	0.07	-	0.07
702	0.16	-	-	0.06	0.06
502	0.25	-	-	0.09	0.09
677	0.18	-	-	0.07	0.07
701	0.15	-	-	0.06	0.06
1729	0.33	0.09	-	-	0.09
678	0.12	-	-	0.05	0.05
966	0.13	-	-	0.05	0.05
965	0.10	-	-	0.04	0.04
5247	0.12	-	0.12	-	0.12
5248	0.11	-	0.11	-	0.11
298	0.07	-	-	0.03	0.03
5210	0.06	-	0.06	-	0.06
1007	0.19	-	-	0.07	0.07
1451	1.81	-	-	0.69	0.69
489	0.62	-	-	0.23	0.23
1468	0.33	-	-	0.13	0.13
1452	0.25	-	-	0.09	0.09
1447	0.14	-	-	0.05	0.05
1448	0.21	-	-	0.08	0.08
1449	0.15	-	-	0.06	0.06

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
5022	0.32	-	0.23	-	0.23
1450	0.14	-	-	0.05	0.05
1455	0.14	-	-	0.05	0.05
1453	0.46	-	-	0.17	0.17
1470	0.10	-	-	0.04	0.04
5023	0.10	-	0.10	-	0.10
1469	0.10	-	-	0.04	0.04
1318	0.22	-	-	0.08	0.08
1315	0.15	-	-	0.06	0.06
1085	0.08	-	-	0.03	0.03
1339	0.15	-	-	0.06	0.06
767	0.15	-	-	0.06	0.06
5182	0.06	-	0.06	-	0.06
223	0.85	-	-	0.32	0.32
5045	0.29	-	0.22	-	0.22
1143	0.06	-	-	0.02	0.02
309	1.66	-	-	0.63	0.63
312	0.08	-	-	0.03	0.03
311	0.06	-	-	0.02	0.02
310	0.05	-	-	0.02	0.02
5206	0.72	-	0.39	-	0.39
5205	1.81	0.60	-	-	0.60
5278	0.09	-	0.09	-	0.09
5279	0.04	-	0.04	-	0.04
307	0.06	-	-	0.02	0.02
1465	0.68	-	-	0.26	0.26
5015	0.19	-	0.18	-	0.18
1464	0.11	-	-	0.04	0.04
462	0.14	-	-	0.05	0.05
5028	0.12	-	0.12	-	0.12
463	0.08	-	-	0.03	0.03
5410	0.65	-	0.36	-	0.36
1549	0.10	-	-	0.04	0.04
1029	0.27	-	-	0.10	0.10
1548	0.10	-	-	0.04	0.04
5399	0.15	-	0.15	-	0.15
447	1.84	-	-	0.70	0.70
467	0.58	0.17	-	-	0.17
5025	0.12	0.12	-	-	0.12
5340	0.12	-	0.12	-	0.12
1079	0.09	-	-	0.03	0.03
5387	1.24	-	0.60	-	0.60
1819	0.55	-	-	0.21	0.21
1348	0.28	-	-	0.10	0.10
1355	0.30	-	-	0.12	0.12
5217	0.22	-	0.19	-	0.19
952	0.11	-	-	0.04	0.04
953	0.07	-	-	0.03	0.03
954	0.07	-	-	0.03	0.03
950	0.03	-	-	0.01	0.01
1702	0.14	-	-	0.05	0.05
1510	0.08	-	-	0.03	0.03
1701	0.09	-	-	0.03	0.03
1512	0.10	-	-	0.04	0.04
1505	0.68	-	-	0.26	0.26
1579	0.21	-	-	0.08	0.08
1581	0.12	-	-	0.05	0.05
1580	0.10	-	-	0.04	0.04
1502	0.18	-	-	0.07	0.07
1561	0.07	-	-	0.03	0.03
1687	0.12	-	-	0.05	0.05
912	0.06	-	-	0.02	0.02
1688	0.10	-	-	0.04	0.04
1560	0.04	-	-	0.01	0.01
911	0.07	-	-	0.03	0.03
913	0.08	-	-	0.03	0.03
1577	0.35	-	-	0.13	0.13
1692	0.16	-	-	0.06	0.06
1705	0.12	-	-	0.05	0.05
1689	0.10	-	-	0.04	0.04
1690	0.05	-	-	0.02	0.02
1707	0.22	-	-	0.08	0.08

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1704	0.22	-	-	0.08	0.08
1706	0.24	-	-	0.09	0.09
1586	0.09	-	-	0.03	0.03
1585	0.16	-	-	0.06	0.06
1514	0.11	-	-	0.04	0.04
1576	0.09	-	-	0.03	0.03
1551	0.23	-	-	0.09	0.09
1594	0.17	-	-	0.06	0.06
1605	0.69	-	-	0.26	0.26
916	0.09	-	-	0.03	0.03
1595	0.09	-	-	0.03	0.03
1552	0.11	-	-	0.04	0.04
1606	0.12	-	-	0.05	0.05
1591	0.08	-	-	0.03	0.03
254	0.15	0.07	-	-	0.07
255	0.07	-	-	0.03	0.03
253	0.06	-	-	0.02	0.02
166	0.73	-	-	0.28	0.28
167	0.67	-	-	0.25	0.25
1817	0.99	-	-	0.38	0.38
165	0.10	-	-	0.04	0.04
5004	0.13	-	0.13	-	0.13
565	0.21	-	-	0.08	0.08
566	0.14	-	-	0.05	0.05
239	1.42	0.81	-	-	0.81
321	0.23	-	-	0.09	0.09
5034	0.31	-	0.22	-	0.22
5333	4.08	-	1.73	-	1.73
5334	0.37	-	0.25	-	0.25
5342	0.19	-	0.18	-	0.18
1762	0.28	-	-	0.10	0.10
5362	0.10	-	0.10	-	0.10
1632	0.46	-	-	0.17	0.17
1457	0.37	0.23	-	-	0.23
5122	0.05	-	0.05	-	0.05
1076	0.08	-	-	0.03	0.03
1074	0.05	-	-	0.02	0.02
441	0.10	-	-	0.04	0.04
442	0.07	-	-	0.03	0.03
675	0.18	-	-	0.07	0.07
280	0.09	-	-	0.03	0.03
279	0.04	-	-	0.01	0.01
5076	0.24	-	0.20	-	0.20
676	0.24	-	-	0.09	0.09
5069	0.23	-	0.19	-	0.19
640	0.10	-	-	0.04	0.04
679	0.14	0.06	-	-	0.06
975	0.11	-	-	0.04	0.04
5149	0.54	-	0.32	-	0.32
5150	0.44	-	0.28	-	0.28
1208	0.88	0.23	-	-	0.23
1170	0.12	-	-	0.05	0.05
5006	0.04	-	0.04	-	0.04
5014	0.22	-	0.19	-	0.19
5005	0.09	-	0.09	-	0.09
5166	0.55	-	0.32	-	0.32
5155	0.26	-	0.20	-	0.20
1389	0.07	-	-	0.03	0.03
1196	0.79	-	-	0.30	0.30
5127	0.77	-	0.41	-	0.41
5117	0.12	-	0.12	-	0.12
1722	0.16	-	-	0.06	0.06
1023	0.14	-	-	0.05	0.05
1550	0.06	-	-	0.02	0.02
1761	0.38	-	-	0.14	0.14
5368	0.09	-	0.09	-	0.09
1343	0.22	-	-	0.08	0.08
257					
1092					
42					
39					
1823					

Table E-4. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Stock Ponds on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
5072					
Total	3,565.15				2,180.04
Average	2.07				1.27

Notes:

- ¹ Adjusted maximum reservoir area from table E-2.
- ² Maximum area based on high water mark interpreted by the OSE Hydrographic Survey and Mapping Bureau from available aerial imagery provided by the United States and from US Geological Survey topographic mapping of reservoir areas (see Appendix D).
- ³ Estimate of historic high water mark area based on the relationship between OSE photo-interpreted high water mark area and US Survey field measured area at spillway crest (see Appendix B, figure B-5(b)). Applied to all reservoirs claimed by the US Survey that were field surveyed with a measured maximum area of less than 6 acres and for which OSE photo-interpreted high water mark estimates or BIA water surface loss area data are not available. Reflects water supply availability, and may reflect dam and spillway conditions.
- ⁴ Estimate of historic high water mark area based on the relationship between OSE photo-interpreted high water mark area and US Survey stereo analysis area at spillway crest (see Appendix B, figure B-6(d)). Applied to all reservoirs claimed by the US Survey with a maximum area of less than 6 acres interpreted by stereo analysis for which OSE photo-interpreted high water mark estimates, BIA water surface loss area data or field measured areas are not available. Reflects water supply availability, and may reflect dam and spillway conditions.

Table E-5. Total Areas and Capacities Claimed by the US Survey for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin in New Mexico¹

Reservoir Site Number (P-xxxx)	Quadrangle	Drainage	County	Reservoir Category	Navajo Land Status	Lake Name	US Survey Claim		
							Total Area (acres) ²	Maximum Depth (feet) ³	Capacity (acre-feet) ³
1352	Sanostee East	Chaco River	San Juan	Diversion	trust		1.12	7.90	5.31
1351	Sanostee East	Chaco River	San Juan	Diversion	trust		1.38	3.84	3.18
1353	Sanostee East	Chaco River	San Juan	Diversion	trust		1.21	2.52	1.83
1307	Sanostee West	Chaco River	San Juan	Diversion	trust		1.11	4.56	3.04
1308	Sanostee West	Chaco River	San Juan	Diversion	trust		1.00	4.47	2.68
1354	Sanostee East	Chaco River	San Juan	Improved Spring	trust		1.23	4.97	3.67
14	Washington Pass	Chaco River	San Juan	Improved Spring	trust		0.31	6.61	1.23
2	Washington Pass	Chaco River	San Juan	Improved Spring	trust		0.05	3.67	0.11
19	Antelope Lookout Mesa	Chaco River	McKinley	In Channel	allotment		4.13	4.27	10.58
529	Antelope Lookout Mesa	Chaco River	McKinley	In Channel	allotment		2.07	8.19	10.17
525	Becenti Lake	Chaco River	McKinley	In Channel	allotment	Becenti Lake	42.89	6.89	177.31
27	Becenti Lake	Chaco River	McKinley	In Channel	allotment		47.02	3.61	101.82
203	Big Rock Hill	Chaco River	McKinley	In Channel	trust		2.59	3.25	5.05
21	Big Rock Hill	Chaco River	McKinley	In Channel	trust		1.88	3.61	4.07
32	Big Rock Hill	Chaco River	McKinley	In Channel	trust		0.65	5.56	2.17
9	Big Rock Hill	Chaco River	McKinley	In Channel	trust		0.51	4.02	1.23
1162	Chuska Lake	Chaco River	McKinley	In Channel	trust	Chuska Lake	101.16	19.77	1,200.00
43	Chuska Peak	Chaco River	McKinley	In Channel	trust	Whiskey Lake	223.59	59.63	8,000.00
559	Crownpoint	Chaco River	McKinley	In Channel	allotment		2.13	6.57	8.40
20	Crownpoint	Chaco River	McKinley	In Channel	trust		2.65	4.92	7.83
30	Crownpoint	Chaco River	McKinley	In Channel	trust		1.74	3.29	3.43
553	Crownpoint	Chaco River	McKinley	In Channel	allotment		0.86	4.57	2.36
31	Crownpoint	Chaco River	McKinley	In Channel	trust		0.98	2.96	1.74
580	Crownpoint	Chaco River	McKinley	In Channel	allotment		0.17	1.57	0.16
1101	Crystal	Chinle Wash	San Juan	In Channel	trust		2.04	11.14	13.64
1104	Crystal	Chinle Wash	San Juan	In Channel	trust		1.09	5.12	3.35
1816	La Vida Mission	Chaco River	San Juan	In Channel	allotment		5.67	1.64	5.58
647	La Vida Mission	Chaco River	San Juan	In Channel	trust		0.84	2.62	1.32
1320	Mitten Rock	SJ River below CR	San Juan	In Channel	trust		4.13	16.23	40.21
1321	Mitten Rock	SJ River below CR	San Juan	In Channel	trust		3.80	6.53	14.88
5073	Mule Dam	Chaco River	Sandoval	In Channel	allotment		1.09	3.90	2.55
257	Naschitti	Chaco River	San Juan	In Channel	trust	Naschitti Reservoir	23.37	7.48	104.88
1815	Naschitti	Chaco River	San Juan	In Channel	trust		8.23	3.61	17.83
1152	Naschitti	Chaco River	San Juan	In Channel	trust		1.01	5.05	3.06
1130	Naschitti	Chaco River	San Juan	In Channel	trust		0.19	10.96	1.25
36	Newcomb	Chaco River	San Juan	In Channel	trust	Captain Tom Reservoir	97.57	18.04	1,056.38
1087	Old Pine Spring	Chaco River	San Juan	In Channel	trust	Tocito Lake	14.78	15.26	135.30
1818	Old Pine Spring	Chaco River	San Juan	In Channel	trust		0.14	16.31	1.37
1392	Rattlesnake	SJ River below CR	San Juan	In Channel	trust		1.43	3.61	3.10
1077	Rocky Point	SJ River below CR	San Juan	In Channel	trust		3.79	7.80	17.74
1311	Sanostee West	Chaco River	San Juan	In Channel	trust		0.88	7.50	3.96
1809	Sonsela Buttes	Chinle Wash	San Juan	In Channel	trust		2.07	13.13	16.31
1096	Sonsela Buttes	Chinle Wash	San Juan	In Channel	trust		4.16	2.95	7.36
160	Standing Rock	Chaco River	McKinley	In Channel	trust		6.54	13.92	54.62
29	Standing Rock	Chaco River	McKinley	In Channel	trust		0.66	4.92	1.95
37	Toadlena	Chaco River	San Juan	In Channel	trust	Hudson Lake	4.33	5.24	13.62
1091	Toadlena	Chinle Wash	San Juan	In Channel	trust		0.65	4.95	1.93
1232	Tohatchi	Chaco River	McKinley	In Channel	trust		6.75	4.56	18.46
4	Tohatchi	Chaco River	McKinley	In Channel	trust		4.35	5.97	15.57
3	Tohatchi	Chaco River	McKinley	In Channel	trust		1.32	4.04	3.20
1212	Tohatchi	Chaco River	McKinley	In Channel	trust		1.08	4.20	2.72
6	Tohatchi	Chaco River	McKinley	In Channel	trust		0.76	4.14	1.89
7	Tohatchi	Chaco River	McKinley	In Channel	trust		0.54	5.28	1.71
5	Tohatchi	Chaco River	McKinley	In Channel	trust		0.12	3.47	0.25
161	Toyee	Chaco River	McKinley	In Channel	trust		1.37	10.90	8.96
162	Toyee	Chaco River	McKinley	In Channel	trust		1.17	11.41	8.01
11	Toyee	Chaco River	McKinley	In Channel	trust		0.27	1.67	0.27
1283	Tsin-nas-kid	Chaco River	San Juan	In Channel	trust		5.51	6.82	22.55
1282	Tsin-nas-kid	Chaco River	San Juan	In Channel	trust		1.85	6.90	7.66
1410	Tsin-nas-kid	Chaco River	San Juan	In Channel	trust		1.17	6.21	4.36
1296	Tsin-nas-kid	Chaco River	San Juan	In Channel	trust		1.06	6.42	4.08
1409	Tsin-nas-kid	Chaco River	San Juan	In Channel	trust		0.99	4.26	2.53
1159	Twin Lakes	Chaco River	McKinley	In Channel	trust		20.88	6.50	81.38
12	Twin Lakes	Chaco River	McKinley	In Channel	trust		1.57	9.54	8.99
1158	Twin Lakes	Chaco River	McKinley	In Channel	trust		1.71	5.66	5.81
8	Twin Lakes	Chaco River	McKinley	In Channel	trust		1.17	2.59	1.82
1250	Two Grey Hills	Chaco River	San Juan	In Channel	trust		1.19	8.98	6.41
1258	Two Grey Hills	Chaco River	San Juan	In Channel	trust		0.89	3.67	1.96
1	Two Grey Hills	Chaco River	San Juan	In Channel	trust		0.12	4.17	0.30
1092	Upper Wheatfields	Chinle Wash	San Juan	In Channel	trust	Little White Cone Lake	40.29	6.00	145.13

Table E-5. Total Areas and Capacities Claimed by the US Survey for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin in New Mexico¹

Reservoir Site Number (P-xxxx)	Quadrangle	Drainage	County	Reservoir Category	Navajo Land Status	Lake Name	US Survey Claim		
							Total Area (acres) ²	Maximum Depth (feet) ³	Capacity (acre-feet) ²
42	Washington Pass	Chaco River	McKinley	In Channel	trust	Long Lake	300.48	6.66	1,200.00
15	Washington Pass	Chaco River	San Juan	In Channel	trust		3.07	10.16	18.72
1263	Washington Pass	Chaco River	San Juan	In Channel	trust		1.19	6.22	4.44
34	Whitehorse	Chaco River	McKinley	In Channel	allotment		10.41	9.19	57.38
1412	Yellow Hill	Chaco River	San Juan	In Channel	trust		0.93	9.16	5.11
1128	Chuska Peak	Chaco River	McKinley	In Channel, Spring	trust		0.48	3.99	1.15
1200	Big Rock Hill	Chaco River	McKinley	In Channel, Well	trust		5.16	8.92	27.62
10	Heart Rock	Chaco River	McKinley	In Channel, Well	allotment		0.67	2.56	1.03
39	Tsin-nas-kid	Chaco River	San Juan	In Channel, Well	trust	Sheep Dip Reservoir	57.94	3.61	125.45
1357	Tsin-nas-kid	Chaco River	San Juan	In Channel, Well	trust		4.86	6.53	19.04
1810	Crystal	Chinle Wash	San Juan	Off Channel	trust		0.24	4.93	0.71
1811	Newcomb	Chaco River	San Juan	Off Channel	trust		2.45	4.59	6.74
1804	Old Pine Spring	Chaco River	San Juan	Off Channel	trust		0.35	4.00	0.84
1812	Sanostee West	Chaco River	San Juan	Off Channel	trust		0.19	4.82	0.55
1284	Toadlena	Chaco River	San Juan	Off Channel	trust		1.14	5.86	4.01
1255	Toadlena	Chaco River	San Juan	Off Channel	trust		0.41	2.89	0.71
1808	Tsin-nas-kid	Chaco River	San Juan	Off Channel	trust		5.75	9.19	31.69
1285	Two Grey Hills	Chaco River	San Juan	Off Channel	trust		0.61	4.23	1.55
1257	Two Grey Hills	Chaco River	San Juan	Off Channel	trust		0.93	2.49	1.39
1256	Two Grey Hills	Chaco River	San Juan	Off Channel	trust		0.38	4.52	1.03
1380	Sallies Spring	SJ River below CR	San Juan	San Juan River	trust		16.63	35.12	350.38
1823	Big Rock Hill	Chaco River	McKinley	Well	trust	Bass Lake	4.83	2.29	6.65
13	Big Rock Hill	Chaco River	McKinley	Well	trust		0.64	5.60	2.15
1177	Chuska Lake	Chaco River	McKinley	Well	trust		1.93	10.09	11.68
1807	Newcomb	Chaco River	San Juan	Well	trust		0.39	1.62	0.38
1347	Sanostee East	Chaco River	San Juan	Well	trust		0.91	3.28	1.79
1349	Sanostee East	Chaco River	San Juan	Well	trust		0.22	3.41	0.45
1350	Sanostee East	Chaco River	San Juan	Well	trust		0.14	3.81	0.32
1312	Sanostee West	Chaco River	San Juan	Well	trust		0.85	8.63	4.40
5072	The Pillar 3 SE	Chaco River	San Juan	Well	trust		0.22	4.85	0.64
1806	Tsin-nas-kid	Chaco River	San Juan	Well	trust		1.09	5.60	3.66
Total							1,135.88	666.20	12,974.86
Average							12.08	7.09	138.03

Notes:

- ¹ Includes all reservoirs claimed by the US Survey as irrigation reservoirs, plus four reservoirs that were claimed by the US Survey as livestock reservoirs and that also historically supported irrigation project uses on Navajo Nation trust lands (Naschitti Reservoir, Little White Cone Lake, Long Lake and Sheep Dip Reservoir).
- ² Maximum area or capacity at spillway crest claimed by the US Survey at Appendix F, table F-3, or Appendix M, table M-3.
- ³ Maximum depth at spillway crest used by the US Survey as calculated from the maximum area and capacity at spillway crest claimed by the US Survey at Appendix F, table F-3, or Appendix M, table M-3, and a reservoir shape factor of 0.6 used for all reservoirs by the US Survey (see Keller-Bliesner Report, page 3).

Table E-6. Adjustments to Maximum Areas and Storage Volumes for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin in New Mexico Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Adjusted Maximum Area in Acres					Adjusted Maximum Depth in Feet				Adjusted Maximum Storage Volume		
	US Survey Field Measured ^a	OSE Photo-Interpreted ^b	BIA Area-Capacity Table Data ^c	95% of US Survey Stereo Analyst Area ^d	Adjusted Maximum Area	US Survey Field Measured ^a	BIA Area-Capacity Table Data ^c	4.9 in-Channel, 3.9 Well/Spring, 5.5 Diversion/OC ^e	Adjusted Maximum Depth	Reservoir Shape Factor: 0.4 in-Channel, 0.6 Other	BIA Area-Capacity Table Data (acre-feet) ^f	Adjusted Maximum Volume (acre-feet) ^g
	1352	-	-	-	1.06	1.06	-	-	5.50	5.50	0.60	-
1351	-	-	-	1.31	1.31	-	-	5.50	5.50	0.60	-	4.33
1353	-	-	-	1.15	1.15	-	-	5.50	5.50	0.60	-	3.79
1307	-	-	-	1.05	1.05	-	-	5.50	5.50	0.60	-	3.48
1308	-	-	-	0.95	0.95	-	-	5.50	5.50	0.60	-	3.14
1354	-	-	-	1.17	1.17	-	-	3.90	3.90	0.60	-	2.73
14	-	-	-	0.29	0.29	-	-	3.90	3.90	0.60	-	0.69
2	-	-	-	0.05	0.05	-	-	3.90	3.90	0.60	-	0.11
19	-	-	-	3.92	3.92	-	-	4.90	4.90	0.40	-	7.69
529	-	-	-	1.97	1.97	-	-	4.90	4.90	0.40	-	3.85
525	-	17.18	-	-	17.18	-	-	4.90	4.90	0.40	-	33.67
27	-	12.55	-	-	12.55	-	-	4.90	4.90	0.40	-	24.60
203	-	-	-	2.46	2.46	-	-	4.90	4.90	0.40	-	4.82
21	-	-	-	1.79	1.79	-	-	4.90	4.90	0.40	-	3.50
32	-	-	-	0.62	0.62	-	-	4.90	4.90	0.40	-	1.21
9	-	-	-	0.48	0.48	-	-	4.90	4.90	0.40	-	0.95
1162	-	-	115.00	-	115.00	-	28.00	-	28.00	-	1,500.00	1,500.00
43	-	-	138.00	-	138.00	-	10.00	-	10.00	-	1,200.00	1,200.00
559	-	-	-	2.02	2.02	-	-	4.90	4.90	0.40	-	3.97
20	-	-	-	2.52	2.52	-	-	4.90	4.90	0.40	-	4.93
30	-	-	-	1.65	1.65	-	-	4.90	4.90	0.40	-	3.24
553	-	-	-	0.82	0.82	-	-	4.90	4.90	0.40	-	1.60
31	-	-	-	0.93	0.93	-	-	4.90	4.90	0.40	-	1.82
580	-	-	-	0.16	0.16	-	-	4.90	4.90	0.40	-	0.32
1101	-	-	-	1.94	1.94	-	-	4.90	4.90	0.40	-	3.80
1104	-	-	-	1.04	1.04	-	-	4.90	4.90	0.40	-	2.03
1816	-	-	-	5.39	5.39	-	-	4.90	4.90	0.40	-	10.56
647	-	-	-	0.80	0.80	-	-	4.90	4.90	0.40	-	1.56
1320	-	-	-	3.92	3.92	-	-	4.90	4.90	0.40	-	7.69
1321	-	-	-	3.61	3.61	-	-	4.90	4.90	0.40	-	7.08
5073	1.09	-	-	-	1.09	3.90	-	-	3.90	0.40	-	1.70
257	-	-	90.00	-	90.00	-	21.70	-	21.70	-	650.00	650.00
1815	-	2.26	-	-	2.26	-	-	4.90	4.90	0.40	-	4.43
1152	-	-	-	0.96	0.96	-	-	4.90	4.90	0.40	-	1.88
1130	-	-	-	0.18	0.18	-	-	4.90	4.90	0.40	-	0.35
36	-	-	100.00	-	100.00	-	26.10	-	26.10	-	1,020.00	1,020.00
1087	-	14.75	-	-	14.75	-	10.30	-	10.30	-	130.00	130.00
1818	-	-	-	0.13	0.13	-	-	4.90	4.90	0.40	-	0.26
1392	-	-	-	1.36	1.36	-	-	4.90	4.90	0.40	-	2.66
1077	-	-	-	3.60	3.60	-	-	4.90	4.90	0.40	-	7.06
1311	-	-	-	0.84	0.84	-	-	4.90	4.90	0.40	-	1.64
1809	-	-	-	1.97	1.97	-	-	4.90	4.90	0.40	-	3.85
1096	-	-	-	3.95	3.95	-	-	4.90	4.90	0.40	-	7.75
160	-	-	-	6.21	6.21	-	-	4.90	4.90	0.40	-	12.18
29	-	-	-	0.63	0.63	-	-	4.90	4.90	0.40	-	1.23
37	-	-	-	4.11	4.11	-	18.00	-	18.00	0.40	-	29.62
1091	-	-	-	0.62	0.62	-	-	4.90	4.90	0.40	-	1.21
1232	-	-	-	6.41	6.41	-	-	4.90	4.90	0.40	-	12.57
4	-	-	-	4.13	4.13	-	-	4.90	4.90	0.40	-	8.10
3	-	-	-	1.25	1.25	-	-	4.90	4.90	0.40	-	2.46
1212	-	-	-	1.03	1.03	-	-	4.90	4.90	0.40	-	2.01
6	-	-	-	0.72	0.72	-	-	4.90	4.90	0.40	-	1.42
7	-	-	-	0.51	0.51	-	-	4.90	4.90	0.40	-	1.01
5	-	-	-	0.11	0.11	-	-	4.90	4.90	0.40	-	0.22
161	-	-	-	1.30	1.30	-	-	4.90	4.90	0.40	-	2.55
162	-	-	-	1.11	1.11	-	-	4.90	4.90	0.40	-	2.18
11	-	-	-	0.26	0.26	-	-	4.90	4.90	0.40	-	0.50
1283	-	-	-	5.23	5.23	-	-	4.90	4.90	0.40	-	10.26
1282	-	-	-	1.76	1.76	-	-	4.90	4.90	0.40	-	3.44
1410	-	-	-	1.11	1.11	-	-	4.90	4.90	0.40	-	2.18
1296	-	-	-	1.01	1.01	-	-	4.90	4.90	0.40	-	1.97
1409	-	-	-	0.94	0.94	-	-	4.90	4.90	0.40	-	1.84
1159	-	16.69	-	-	16.69	-	-	4.90	4.90	0.40	-	32.71
12	-	-	-	1.49	1.49	-	-	4.90	4.90	0.40	-	2.92
1158	-	-	-	1.62	1.62	-	-	4.90	4.90	0.40	-	3.18
8	-	-	-	1.11	1.11	-	-	4.90	4.90	0.40	-	2.18
1250	-	-	-	1.13	1.13	-	-	4.90	4.90	0.40	-	2.22
1258	-	-	-	0.85	0.85	-	-	4.90	4.90	0.40	-	1.66
1	-	-	-	0.11	0.11	-	-	4.90	4.90	0.40	-	0.22
1092	-	34.39	-	-	34.39	-	-	4.90	4.90	0.40	-	67.40

Table E-6. Adjustments to Maximum Areas and Storage Volumes for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin in New Mexico Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Adjusted Maximum Area in Acres				Adjusted Maximum Depth in Feet				Adjusted Maximum Storage Volume			
	US Survey Field Measured ¹	OSE Photo-Interpreted ²	BIA Area-Capacity Table Data ³	95% of US Survey Stereo Analyst Area ⁴	Adjusted Maximum Area	US Survey Field Measured ¹	BIA Area-Capacity Table Data ³	4.9 In-Channel, 3.9 Well/Spring, 5.5 Diversion/OC ²	Adjusted Maximum Depth	Reservoir Shape Factor: 0.4 In-Channel, 0.6 Other	BIA Area-Capacity Table Data (acre-feet) ³	Adjusted Maximum Volume (acre-feet) ⁴
42	-	258.42	-	-	258.42	-	10.00	-	10.00	-	1,350.00	1,350.00
15	-	-	-	2.92	2.92	-	-	4.90	4.90	0.40	-	5.72
1263	-	-	-	1.13	1.13	-	-	4.90	4.90	0.40	-	2.22
34	-	0.00	-	-	0.00	-	-	4.90	4.90	0.40	-	0.00
1412	-	-	-	0.88	0.88	-	-	4.90	4.90	0.40	-	1.73
1128	-	-	-	0.46	0.46	-	-	4.90	4.90	0.40	-	0.89
1200	-	-	-	4.90	4.90	-	-	4.90	4.90	0.40	-	9.61
10	-	-	-	0.64	0.64	-	-	4.90	4.90	0.40	-	1.25
39	-	30.19	-	-	30.19	-	5.00	-	5.00	0.40	-	60.38
1357	-	-	-	4.62	4.62	-	-	4.90	4.90	0.40	-	9.05
1810	-	-	-	0.23	0.23	-	-	5.50	5.50	0.60	-	0.75
1811	-	-	-	2.33	2.33	-	-	5.50	5.50	0.60	-	7.68
1804	-	-	-	0.33	0.33	-	-	5.50	5.50	0.60	-	1.10
1812	-	-	-	0.18	0.18	-	-	5.50	5.50	0.60	-	0.60
1284	-	-	-	1.08	1.08	-	-	5.50	5.50	0.60	-	3.57
1255	-	-	-	0.39	0.39	-	-	5.50	5.50	0.60	-	1.29
1808	-	-	-	5.46	5.46	-	-	5.50	5.50	0.60	-	18.03
1285	-	-	-	0.58	0.58	-	-	5.50	5.50	0.60	-	1.91
1257	-	-	-	0.88	0.88	-	-	5.50	5.50	0.60	-	2.92
1256	-	-	-	0.36	0.36	-	-	5.50	5.50	0.60	-	1.19
1380	-	-	-	-	-	-	-	-	-	-	-	-
1823	-	-	-	4.59	4.59	-	-	3.90	3.90	0.60	-	10.74
13	-	-	-	0.61	0.61	-	-	3.90	3.90	0.60	-	1.42
1177	-	-	-	1.83	1.83	-	-	3.90	3.90	0.60	-	4.29
1807	-	-	-	0.37	0.37	-	-	3.90	3.90	0.60	-	0.87
1347	-	-	-	0.86	0.86	-	-	3.90	3.90	0.60	-	2.02
1349	-	-	-	0.21	0.21	-	-	3.90	3.90	0.60	-	0.49
1350	-	-	-	0.13	0.13	-	-	3.90	3.90	0.60	-	0.31
1312	-	-	-	0.81	0.81	-	-	3.90	3.90	0.60	-	1.89
5072	0.22	-	-	-	0.22	4.80	-	-	4.80	0.60	-	0.63
1806	-	-	-	1.04	1.04	-	-	3.90	3.90	0.60	-	2.42
Total					969.40				575.80			6,396.67
Average					10.31				6.13			68.05

Notes:

- ¹ Maximum area or depth at spillway crest claimed by the US Survey at Appendix F, table F-3, that were measured in the field. Measured depths are from US Survey backup data, which may vary slightly from the depths calculated in table E-5 for those reservoirs that were surveyed in the field due to rounding or other factors.
- ² Maximum area based on high water mark interpreted by the OSE Hydrographic Survey Bureau from available aerial imagery provided by the United States and from US Geological Survey topographic mapping of reservoir areas (see Appendix D).
- ³ Maximum area, depth or capacity at spillway crest from BIA area-capacity tables, USBR reports, or reservoir site maps where available:
 Chuska Lake - Area and capacity from Downstream Hazard Classification, Chuska Dam, prepared by the BIA and dated July 15, 1991. Maximum depth from Updating Report "A Proposed Plan for Economic Development of Water Resources in the Tohatchi Area", prepared by the BIA and dated September 1970. The 1986 SCS Inventory suggests that an original capacity of 1,500 acre-feet has been reduced to 1,200 acre-feet due to sedimentation.
 Whiskey Lake - Area and capacity from map of Whiskey Lake, Proposed Reservoir Site, prepared by the US Indian Service and dated June 29, 1950 (the dam was constructed at the site proposed). The reservoir impounded by the dam has a total area at spillway crest of about 138 acres not including the storage area that is on top of two natural lakes with a pre-reservoir water surface at reference elevation 100 feet. Based on the map, it is estimated that the combined surface area of the natural lakes within the reservoir area was approximately 70 acres, which suggests a total reservoir area of approximately 208 acres at spillway crest. The OSE Hydrographic Survey Bureau photo-interpreted high water mark area is about 209 acres (see Appendix D). The reservoir capacity of about 1,200 acre-feet at spillway crest from the area-capacity table on the map excludes natural storage in the lakes below reference elevation 100 feet. Maximum depth from USBR Memorandum from James T. Melena to the BIA dated September 24, 2003.
 Naschitti Reservoir - Area, maximum depth and capacity from map of Northern Naschitti Unit, prepared by the US Indian Service and dated January 9, 1939 (see Ebert and Associates Report, figure A-19).
 Captain Tom Reservoir - Area and maximum depth from Analysis of Hydrologic/Hydraulic Issues for Captain Tom Dam, Navajo Indian Reservation, prepared by Leedshill-Herkenhoff, Inc., and dated December 13, 1987, included in SEED Report on Captain Tom Dam, prepared by the BIA and dated March 28, 1988. Capacity from map of Captain Tom Wash Unit, prepared by the US Indian Service and dated December 9, 1938 (see Ebert and Associates Report, figure A-9).
 Tociito Lake - Maximum depth and capacity from map of Tociito Lake Unit Reservoir Topography, prepared by the US Indian Service and dated November 9, 1938 (see Ebert and Associates Report, figure A-39). Area of reservoir is constrained by dikes on the side of the reservoir opposite from the dam.
 Hudson Lake - Maximum depth from map of Hudson Lake Unit reservoir topography, prepared by the US Indian Service and dated January 10, 1939 (see Ebert and Associates Report, figure A-40).
 Long Lake - Maximum depth from map of Long Lake and Proposed Reservoir Site, prepared by the US Indian Service and dated June 23, 1950 (see Ebert and Associates Report, figure A-36). The dam to raise the lake 5 feet was constructed between the original dike forming the lake and proposed Damsite No. 1 (see map of Long Lake, prepared by the Navajo Tribe Division of Water Resources and dated May 14, 1986, and US Geological Survey topographic map, Washington Pass quadrangle). At Damsite No. 1, the area and capacity at spillway crest would have been 290 acres and 1,625 acre-feet (see 1950 map of Long Lake and Proposed Reservoir Site). A reduction in area of about 10 percent for construction of the dam further upstream than Damsite No. 1 would result in a maximum area of about 260 acres, which is about the same as the high water mark area for Long Lake of 258.4 acres photo-interpreted by the OSE. Based on the area-elevation curve shown on the map that appears to shift about 20-30 acres between reference elevations 98.5 and 99.8, with elevation 100 being the original water surface elevation for Long Lake and elevation 99.8 being the water surface of the two connected lakes, it appears that these two lakes totaling about 18.9 acres or more are extensions of the reservoir formed by the original dike (see 1950 map of Long Lake and Proposed Reservoir Site). Reducing the capacity at Damsite No. 1 for about 30 acres of intervening area between the dam and Damsite No. 1 where the average depth at spillway crest would be close to 8-10 feet gives a capacity of about 1,350 acre-feet for Long Lake.

Table E-6. Adjustments to Maximum Areas and Storage Volumes for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin in New Mexico Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Adjusted Maximum Area in Acres					Adjusted Maximum Depth in Feet				Adjusted Maximum Storage Volume		
	US Survey Field Measured ²	OSE Photo- Interpreted ²	BIA Area- Capacity Table Data ³	95% of US Survey Stereo Analyst Area ⁴	Adjusted Maximum Area	US Survey Field Measured ²	BIA Area- Capacity Table Data ³	4.9 In-Channel, 3.9 Well/Spring, 5.5 Diversion/OC ⁵	Adjusted Maximum Depth	Reservoir Shape Factor: 0.4 In-Channel, 0.6 Other	BIA Area- Capacity Table Data (acre-feet) ³	Adjusted Maximum Volume (acre-feet) ⁶

Notes (continued):

Sheep Dip Reservoir - Maximum depth from map of Sheep Dip Reservoir Topography, prepared by the US Indian Service and dated March 15, 1938 (see Ebert and Associates Report, figure A-41; aerial imagery indicates the dam was not enlarged as proposed on the map). The storage volumes indicated on the map and associated reservoir elevations do not appear to be consistent with reservoir surface areas and depths.

- ⁴ Maximum area based on adjusting the US Survey claimed area for the relationship between field measured spillway crest area and stereo analysis interpreted area (see Appendix B, figure B-4(a)). Applied to all reservoirs claimed by the US Survey to have a maximum area of less than 8 acres determined by stereo analysis for which field measured areas or BIA/USBR data are not available.
- ⁵ Maximum depth based on the average maximum depths for 413 livestock or irrigation reservoirs for which depth at spillway crest was measured in the field by the US Survey, separated as to in-channel reservoirs, well reservoirs and diversion reservoir types (see table E-2, note 5).
- ⁶ Maximum storage volume based on capacity at spillway crest from BIA area-capacity data where available, or otherwise calculated as maximum area, times maximum depth, times the reservoir shape factor. Used to evaluate total volume for Navajo reservoirs in the San Juan River Basin or within drainages in the basin.

Table E-7. Average Reservoir Statistics for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin Claimed by the US Survey

<u>Reservoir Category</u>	<u>Number of Reservoirs</u>	<u>US Survey Claims</u>			<u>Adjusted Reservoir Sizes</u>		
		<u>Total Area (acres)</u>	<u>Maximum Depth (feet)</u>	<u>Capacity (ac-ft)</u>	<u>Maximum Area (acres)</u>	<u>Maximum Depth (feet)</u>	<u>Maximum Volume (ac-ft)</u>
Diversion	5	1.16	4.66	3.21	1.11	5.50	3.65
Improved Spring	3	0.53	5.08	1.67	0.50	3.90	1.18
In Channel	72	15.34	7.37	178.78	13.05	6.13	87.65
Off Channel	10	1.25	4.75	4.92	1.18	5.50	3.90
Well	10	1.12	4.92	3.21	1.07	3.99	2.51
All	100	12.08	7.09	138.03	10.31	6.13	68.05

Table E-8. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
1352	1.06	-	-	0.40	0.40
1351	1.31	-	-	0.50	0.50
1353	1.15	-	-	0.44	0.44
1307	1.05	-	-	0.40	0.40
1308	0.95	-	-	0.36	0.36
1354	1.17	-	-	0.44	0.44
14	0.29	-	-	0.11	0.11
2	0.05	-	-	0.02	0.02
19	3.92	0.57	-	-	0.57
529	1.97	-	-	0.75	0.75
525	17.18	17.18	-	-	17.18
27	12.55	12.55	-	-	12.55
203	2.46	-	-	0.93	0.93
21	1.79	-	-	0.68	0.68
32	0.62	-	-	0.23	0.23
9	0.48	-	-	0.18	0.18
1162	115.00	100.95	-	-	100.95
43	138.00	138.00	-	-	138.00
559	2.02	-	-	0.77	0.77
20	2.52	-	-	0.96	0.96
30	1.65	-	-	0.63	0.63
553	0.82	-	-	0.31	0.31
31	0.93	-	-	0.35	0.35
580	0.16	-	-	0.06	0.06
1101	1.94	-	-	0.74	0.74
1104	1.04	-	-	0.39	0.39
1816	5.39	-	-	2.05	2.05
647	0.80	-	-	0.30	0.30
1320	3.92	-	-	1.49	1.49
1321	3.61	-	-	1.37	1.37
5073	1.09	-	0.54	-	0.54
257	90.00	5.62	-	-	5.62
1815	2.26	2.26	-	-	2.26
1152	0.96	-	-	0.36	0.36
1130	0.18	-	-	0.07	0.07
36	100.00	50.15	-	-	50.15
1087	14.75	14.75	-	-	14.75
1818	0.13	-	-	0.05	0.05
1392	1.36	-	-	0.52	0.52
1077	3.60	-	-	1.37	1.37
1311	0.84	-	-	0.32	0.32
1809	1.97	-	-	0.75	0.75
1096	3.95	1.25	-	-	1.25
160	6.21	5.74	-	-	5.74
29	0.63	-	-	0.24	0.24
37	4.11	-	-	1.56	1.56
1091	0.62	-	-	0.23	0.23
1232	6.41	4.70	-	-	4.70
4	4.13	0.00	-	-	0.00
3	1.25	-	-	0.48	0.48
1212	1.03	-	-	0.39	0.39
6	0.72	-	-	0.27	0.27
7	0.51	-	-	0.19	0.19
5	0.11	-	-	0.04	0.04
161	1.30	0.92	-	-	0.92
162	1.11	-	-	0.42	0.42
11	0.26	-	-	0.10	0.10
1283	5.23	-	-	1.99	1.99
1282	1.76	-	-	0.67	0.67
1410	1.11	-	-	0.42	0.42
1296	1.01	-	-	0.38	0.38
1409	0.94	-	-	0.36	0.36
1159	16.69	16.69	-	-	16.69
12	1.49	-	-	0.57	0.57
1158	1.62	-	-	0.62	0.62
8	1.11	-	-	0.42	0.42
1250	1.13	-	-	0.43	0.43
1258	0.85	-	-	0.32	0.32
1	0.11	-	-	0.04	0.04
1092	34.39	34.39	-	-	34.39

Table E-8. Maximum Reservoir Surface Areas Adjusted for High Water Mark for Irrigation Reservoirs on Navajo Lands in the San Juan River Basin Claimed by the US Survey

Reservoir Site Number (P-xxxx)	Maximum Historic Surface Acres				Historic Maximum Surface Area
	Maximum Area ¹	OSE Photo-Interpreted HWM ²	HWM area from Relationship to Field Measured Maximum Area ³	HWM area from Relationship to US Survey Stereo Analyst Area ⁴	
42	258.42	258.42	-	-	258.42
15	2.92	0.42	-	-	0.42
1263	1.13	-	-	0.43	0.43
34	0.00	0.00	-	-	0.00
1412	0.88	-	-	0.34	0.34
1128	0.46	-	-	0.17	0.17
1200	4.90	-	-	1.86	1.86
10	0.64	-	-	0.24	0.24
39	30.19	30.19	-	-	30.19
1357	4.62	-	-	1.75	1.75
1810	0.23	-	-	0.09	0.09
1811	2.33	-	-	0.88	0.88
1804	0.33	-	-	0.13	0.13
1812	0.18	-	-	0.07	0.07
1284	1.08	-	-	0.41	0.41
1255	0.39	-	-	0.15	0.15
1808	5.46	-	-	2.08	2.08
1285	0.58	-	-	0.22	0.22
1257	0.88	-	-	0.34	0.34
1256	0.36	-	-	0.14	0.14
1380					
1823	4.59	-	-	1.74	1.74
13	0.61	-	-	0.23	0.23
1177	1.83	-	-	0.70	0.70
1807	0.37	-	-	0.14	0.14
1347	0.86	-	-	0.33	0.33
1349	0.21	-	-	0.08	0.08
1350	0.13	-	-	0.05	0.05
1312	0.81	-	-	0.31	0.31
5072	0.22	-	0.19	-	0.19
1806	1.04	-	-	0.39	0.39
Total	969.40				737.20
Average	10.31				7.84

Notes:

- ¹ Adjusted maximum reservoir area from table E-6. Maximum net evaporative loss area for Whiskey Lake based on area of 138 acres at spillway crest from area-capacity table on map of Whiskey Lake, Proposed Reservoir Site (dated June 29, 1950), excluding about 70 acres of natural water surface area inundated by the reservoir.
- ² Maximum area based on high water mark interpreted by the OSE Hydrographic Survey and Mapping Bureau from available aerial imagery provided by the United States and from US Geological Survey topographic mapping of reservoir areas (see Appendix D). For Whiskey Lake, the high water mark area of about 209 acres was reduced to 138 acres for the amount of the high water mark area that is in excess of the pre-dam natural lake water surface loss area within the reservoir pool.
- ³ Estimate of historic high water mark area based on the relationship between OSE photo-interpreted high water mark area and US Survey field measured area at spillway crest (see Appendix B, figure B-5(b)). Applied to all reservoirs claimed by the US Survey that were field surveyed with a measured maximum area of less than 6 acres and for which OSE photo-interpreted high water mark estimates or BIA water surface loss area data are not available. Reflects water supply availability, and may reflect dam and spillway conditions.
- ⁴ Estimate of historic high water mark area based on the relationship between OSE photo-interpreted high water mark area and US Survey stereo analysis area at spillway crest (see Appendix B, figure B-6(d)). Applied to all reservoirs claimed by the US Survey with a maximum area of less than 6 acres interpreted by stereo analysis for which OSE photo-interpreted high water mark estimates, BIA water surface loss area data or field measured areas are not available. Reflects water supply availability, and may reflect dam and spillway conditions.

Figure E-1. Cumulative Frequency Distribution of Livestock Reservoir Surface Areas

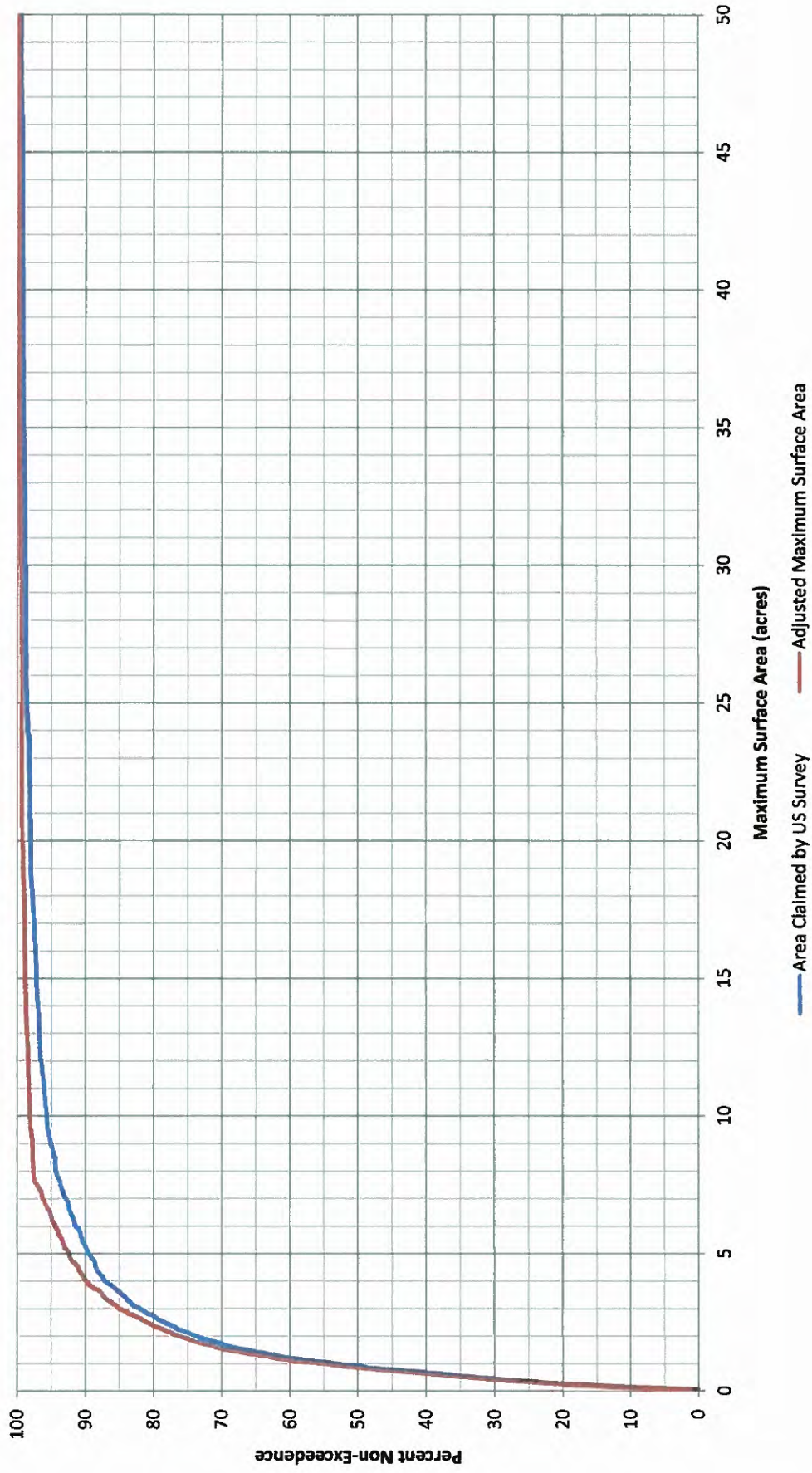


Figure E-2. Cumulative Frequency Distribution of Livestock Reservoir Depths

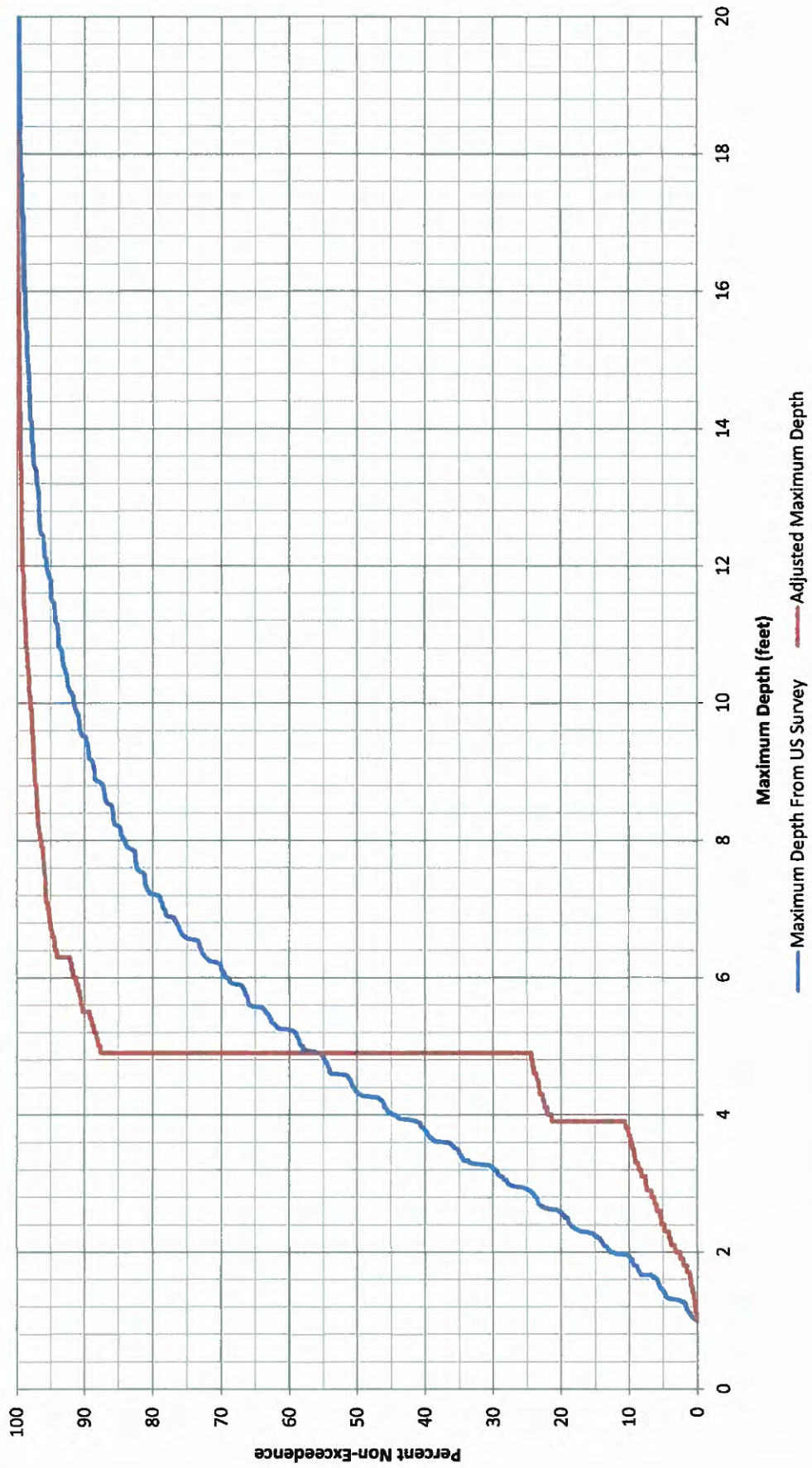


Figure E-3. Cumulative Frequency Distribution of Livestock Reservoir Storage Volumes

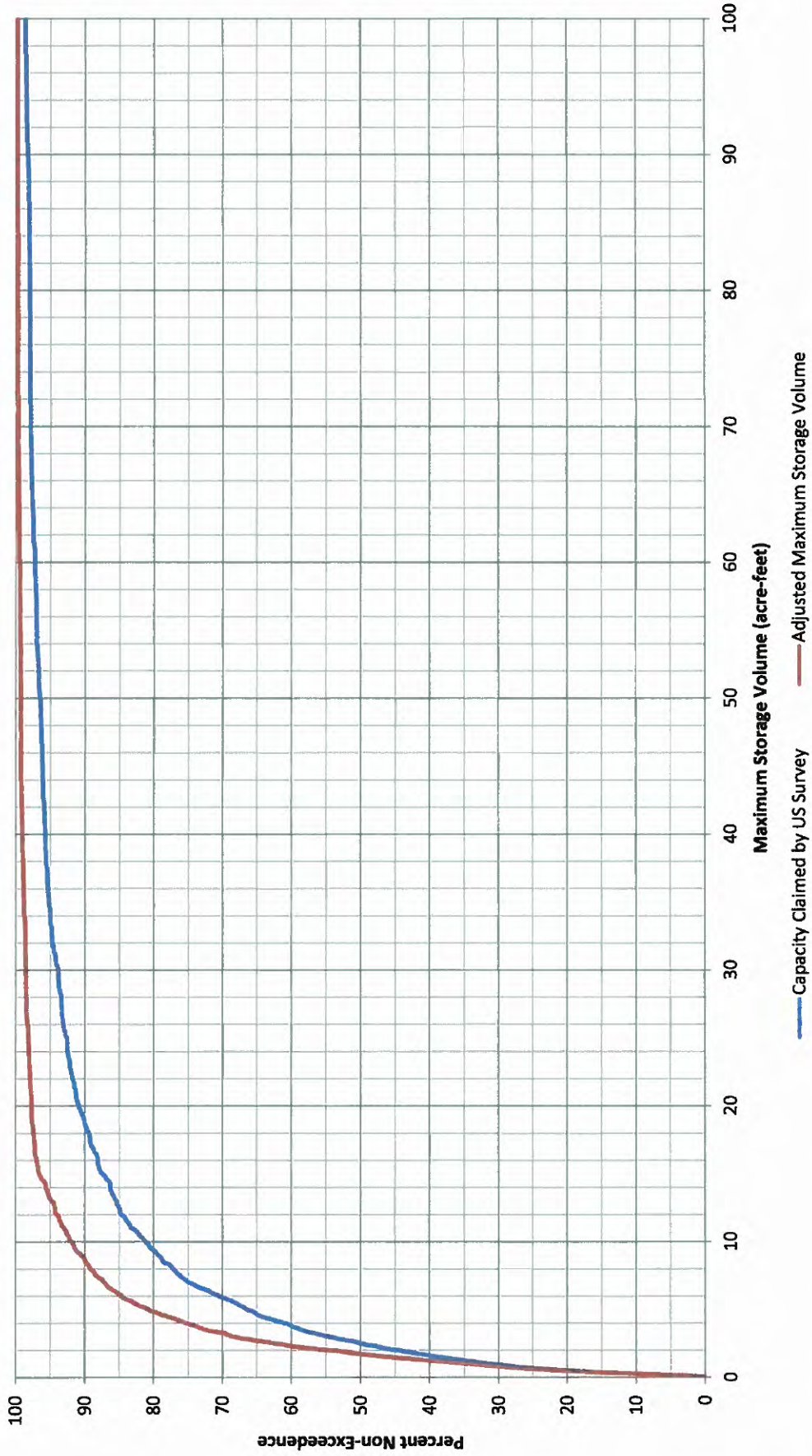


Figure E-4. Cumulative Frequency Distribution of Irrigation Reservoir Surface Areas

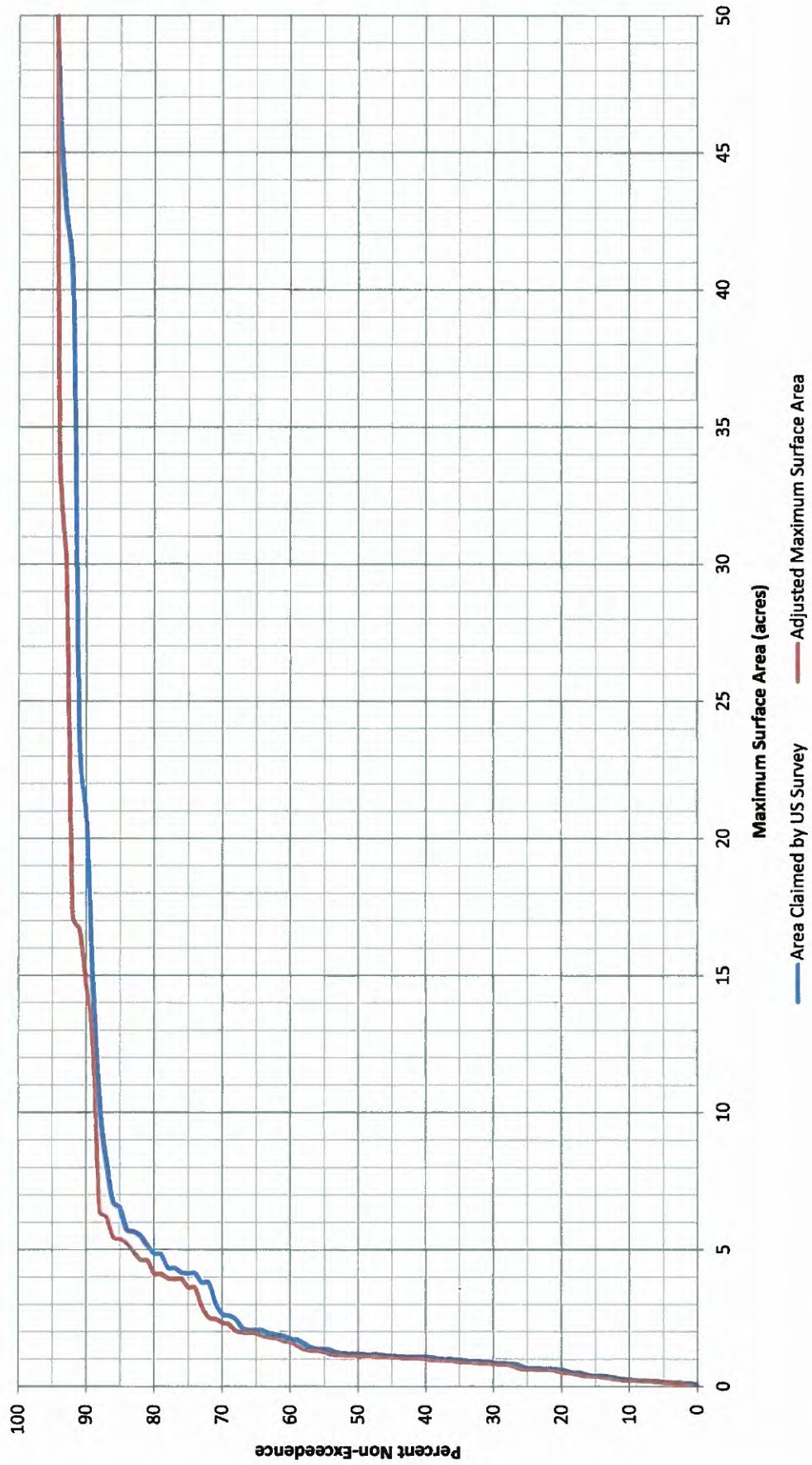


Figure E-5. Cumulative Frequency Distribution of Irrigation Reservoir Depths

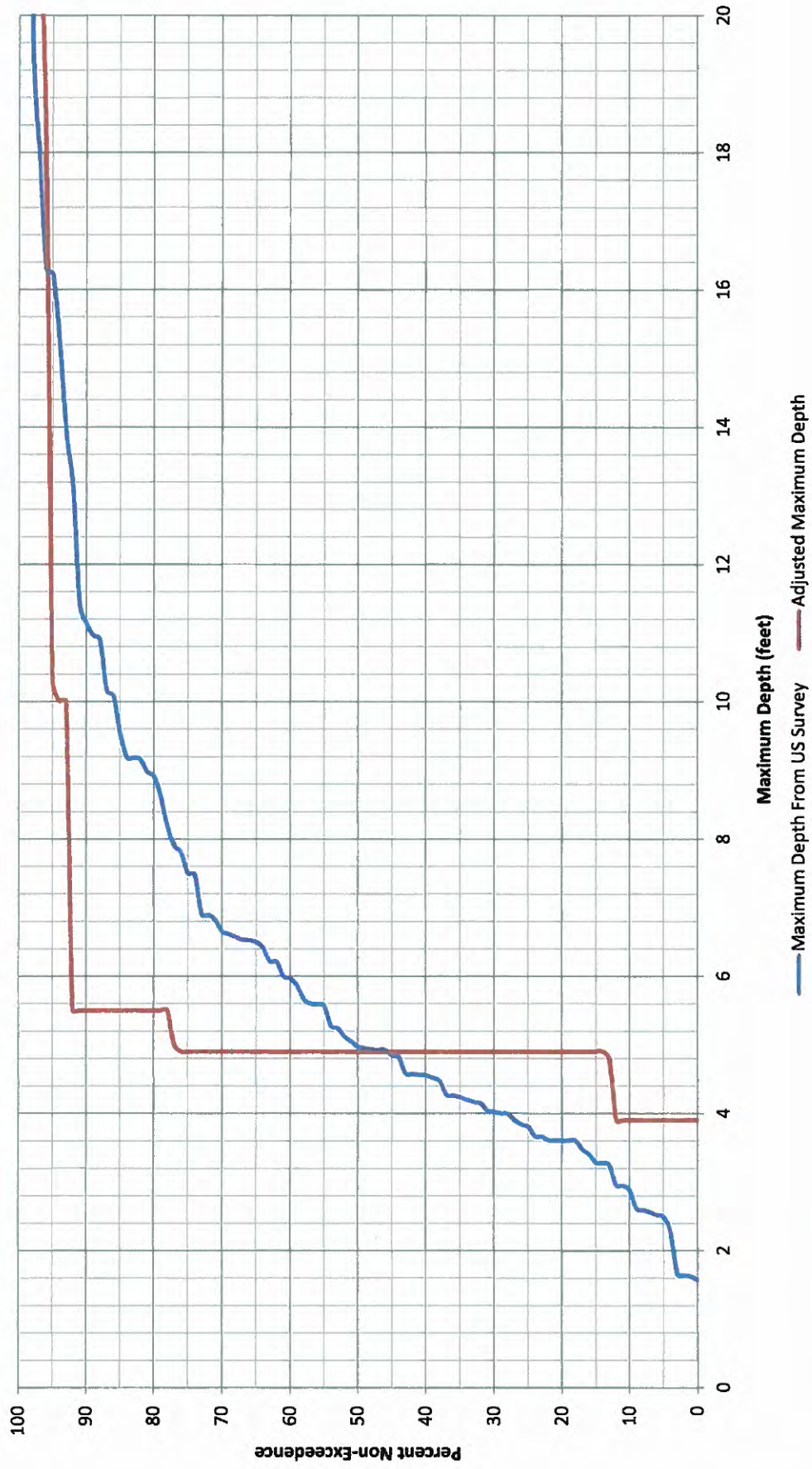


Figure E-6. Cumulative Frequency Distribution of Irrigation Reservoir Storage Volumes

