RI-NW
WATERSHED MANAGEMENT
Water Relations
Quality

Report of 1958 Survey of Catchment Basins at Stream Gage Sites 1, 2, and 3 H. J. Andrews Experimental Forest

by
J. T,.Sabo

The catchment basins in watersheds 1, 2, and 3, below the stream gages, were remeasured in August 1958. This is a report on the remeasurement of these basins and analysis of the sediment accumulation during the 1958 water year.

Measurement.

The measurements were obtained by the method outline by Graber in the initial report. The basins were cross sectioned at 3 ft. intervals. A rod, with a flexible metal plate attached to the bottom, and level were used.

Some difficulty in locating the lines in their proper location was encounter. This problem was also encountered in the 1957 survey. An attempt was made in 1957 to solve this problem by marking lines with aluminum tags. Since the same problem was encountered again this year, the lines were remeasured from the control corners. It was found that the distances between control corners, as reported by Graber in the initial report, were wrong in a couple of instances. To alleviate this problem the distances from control corners to strategic lines and the distances between control corners was remeasured for each catchment basin. Each strategic line was then marked.

with a n aluminum tag. For each catchment basin a new control map was developed and is included in this report.

Calculations.

The same method of calculation used in 1957 was used this year. A description of the method is explained by Jerry Franklin in the 1957 report.

The method used is as follows:

(1) All points used in 1957 were used in the 1958 calculations whether or not these points were in or out of the water. The points used are marked by red checks on the original field sheets.

(2) A new map of each area was then drawn and the area determined by polar planimeter.

(3)The average rod reading and average depth of each basin was determined for 1958 water year. The difference in depths between 1957 and 1958 was then multiplied by the 1958 surface area to get the total cubic foot accumualation of sediment for each basin during the 1958 water year.

After measurement of watershed number 2 catchment basin part of the silt accumulation from line 10 to line 18 was removed. This part of the basin was then remeasured. Next years calculations will have to be based upon the new readings obtained after removal of the silt accumulated in this area of the basin.

While measuring watershed #3 it was found that at the 3 ft station, which is on the dam, the elevation varies considerably depending on the

placement of the rod. Since this measurement is not on the bottom of the basin where it should be it is suggested that these readings eith either be eliminated from the calculations or be taken at a different location near the bottom of the dam.

Also when placing the rod upon the bench mark (railroad spike in the hemlock) for a reading, place the rod upon the head of the spike.

References.

Graber, Raymond, Measurement of Sediment Accumulation in Catchment Basin at Stream Gage Sites 1, 2, and 3. H. J. Andrews Experimental Forest S September, 1956. (RI-NW, WATERSHED MANAGEMENT, Water Yield, Small Watersheds or Water relations, Quality.)

Franklin, Jerry, Report of 1957 Survey of Catchment Basins at Stream Gage Sites 1, 2, and 3, H. J. Andrews Experimental Forest. September, 1957. (RI-NW, WATERSHED MANAGEMENT, Water Relations, Quality.)

SEDIMENT ACCUMULATION
SUMMARY OF CALCULATIONS
1957[1] AND 1958[2] WATER YEAR

SEDIMENT BASINS →	STREAM I (237 ACRES)		STREAM II (149 ACRES)[2]		STREAM III (250 ACRES)	
	1956 1957 1958		1956 1957 1958		1956 1957 1958	
SUM OF POINTS	1619.39 1747.54 1650.53		1589.78 1318.93 ~~1529.00~~		1214.89 1551.57 1724.31	
TOTAL POINTS	237 237 237		224 224 224		183 183 183	
AV. ROD RDG.	6.833 7.374 7.133		7.097 5.888 ~~6.883~~		6.639 8.478 9.422	
WATER LEVEL	4.130 4.950 4.770		5.840 4.860 6.020		3.943 5.927 7.337	
AV. DEPTH BASIN	2.703 2.424 2.363		1.267 1.028 .763		2.696 2.551 2.085	
DEPTH 1956	~~2.703~~		1.267		2.696	
DEPTH 57	2.424	2.424	1.028	1.028	2.551	2.551
DEPTH 58	_____	2.363	_____	0.763	_____	2.085
DIFFERENCE	0.279	0.061	0.239	0.265	0.145	0.466
EL. WATER 56	108.270		102.260		91.617	
EL. WATER 57	108.300	108.300	102.220	102.220	91.707	91.707
EL. WATER 58	_____	~~108.350~~	_____	~~102.260~~	_____	~~91.583~~
DIFFERENCE	−.030	−.050	+.040	−.040	−.090	+.124
DIFFERENCE	0.279	0.061	0.239	0.265	0.145	0.466
WATER LEVEL CORRECTION	±.030	±.050	−.040	±.040	±.090	±.124
CORRECT DIFF.	.309	.111	.199	.305	.235	.590
AREA X DIFF. CU. FT.	.309 X 2111 *	.111 X 2022 *	.199 X 2025 *	.305 X 1787 *	.235 X 1639 ↓	.590 X 1630 ↓
SED. ACCUM.	652.30	224.44	402.98	545.04	385.16	961.70
CU. FT./ACRE	~~2.75~~	~~1.95~~	~~2.70~~	~~3.66~~	~~1.54~~	~~3.85~~

* for both years - all three watersheds 2.43 cu ft/ac

① THE 1956 & 1957 REPORTS WERE CHECKED AND ALL MISTAKES CORRECTED. CORRECT FIGURES USED IN THIS REPORT.

② W/S #2 DISTURBED AFTER MEASUREMENT. CORRECT FIGURES FOR 1959 CALULATIONS INCLUDED IN THIS REPORT.

SEDIMENT ACCUMULATION
W/S #2
SUMMARY OF CALULATIONS AFTER PARTIAL REMOVAL OF ACCUMULATED SILT

	1957	1958
SUM OF POINTS	1318.93	1540.74*
TOTAL POINTS	224	224
AV. ROD RDG.	5.888	6.878
WATER LEVEL	4.860	6.020
AV. DEPTH BASIN	1.028	0.858
DEPTH 1957	1.028	
DEPTH 1958	0.858	
DIFFERENCE	0.170	
EL. WATER 57	102.220	
EL. WATER 58	102.260	
DIFFERENCE	-.040	
DIFFERENCE WATER LEVEL CORRECTION	0.170 +0.040	
CORRECT DIFF.	0.210	
AREA X DIFF. CUBIC FT. SED. ACCUM.	1787 X 0.210 = 375.27	
CU. FT./ACRE	375.27 ÷ 149 = 2.52	

* 96 REMEASURED POINTS CORRECTED TO WATER LEVEL 6.020.

RI - NW
SOIL STABILIZATION
Watersheds
Benchmark:
H.I.
Elev.

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

Experimental Area: H.J. ANDREWS
Basin Location: WATERSHED #1

Date: 7/30/55
Party: Level Rothacher - Wilson
Rod Sabo
Notes Rothacher - Wilson

Station*	Transects (Designated in ft. starting at crest of dam)													
	LINE 1		LINE 2		LINE 3		LINE 4		LINE 5		LINE 6		LINE 7	
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
00														
03											4.26			
06	3.11		3.65		3.60		3.53	WE 8.1	3.58	WE 8.2	3.56	WE 8.4	3.52	WE 8.5
09	4.59	9.1*	5.74	W 8.1	6.03	W 7.7	6.36	"	5.69	"	5.28	"	5.23	"
12	6.46	W 5.5	7.66	"	8.07	"	7.98	"	7.46	"	7.67	"	7.34	"
15	7.09	W 4.6	9.01	"	9.54	"	9.24	"	9.20	"	9.33	"	9.90	"
18	6.78	W 5.0	8.92	"	10.39	"	10.80	"	10.68	"	10.65	"	10.13	"
21	7.16	W 5.1	9.10	"	10.43	"	10.62	"	10.39	"	10.20	"	10.06	"
24	7.20	W 6.1	8.93	"	10.03	"	9.74	"	9.39	"	9.18	"	9.12	"
27	6.72	W 5.6	8.50	"	9.39	"	9.11	"	9.03	"	8.69	"	8.46	"
30	5.91	W 4.7	8.21	"	8.77	"	8.73	"	8.54	"	8.36	"	8.20	"
33		W 2.9	7.64	"	8.42	"	8.42	"	8.51	"	8.48	"	8.16	"
36		W 0.9	7.29	"	8.03	"	8.12	"	8.62	"	8.65	"	8.36	"
39		W 0.7	6.27	"	7.52	"	7.64	"	8.59	"	8.89	"	8.76	"
42		W 0.5	5.16	"	7.16	"	7.15	"	8.10	"	8.76	"	8.79	"
45			3.68	W 45.0	6.42	"	7.33	"	7.87	"	8.42	"	8.55	"
48			4.46	W 48.0	5.45	"	7.19	"	7.55	"	8.04	"	8.11	"
51					6.27	"	7.04	"	7.69	"	7.74	"	7.70	"
54					6.13	W 56.5	6.60	"	6.85	"	7.23	"	7.47	"
57					4.25		5.60	"	5.97	"	6.88	"	7.20	"
60					3.53		4.98	WE 62.0	5.55	"	6.39	"	6.74	"
63		#WEdge					4.56	mouth of creek	4.80	W 64.5	6.18	"	6.51	"
66		on LINE 1					3.97		4.59	"	6.12	"	6.30	"
69							3.77		4.34	"	5.58	"	6.16	"
72							3.97		4.32	"	4.80	WE 72.3	5.62	WE 72.3
75							4.12		4.10				4.06	
	Check on BM 13.125													
	(7)		(10)		(16)		(19)		(23)		(22)		(22)	
Total	47.26		81.00		128.05		147.21		163.73		171.52		172.87	
Average														

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

RI - NW
SOIL STABILIZATION
Watersheds
Benchmark:
H.I.
Elev.

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

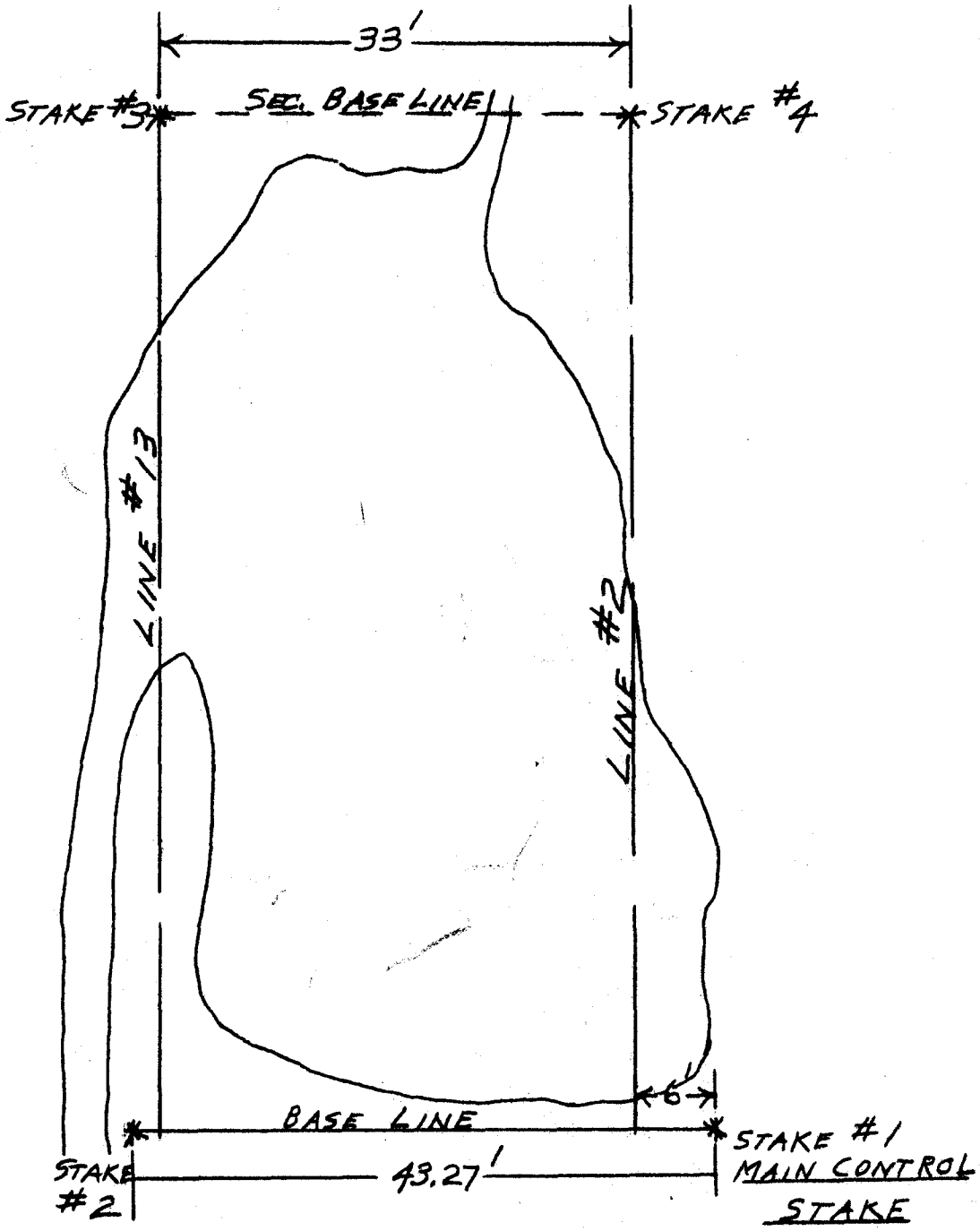
Date: 7/30/58
Party: Level Rothacher
Rod Sa 60
Notes Rothacher

Experimental Area: H. J. ANDREWS
Basin Location: WATER SHED #1

Station*	Transects (Designated in ft. starting at crest of dam)													
	Line 8		9		10		11		12		13		14	
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
00														
03														
06	3.30		3.01											
09	4.63	WE 9.6	4.12	WE 10.0	3.58	W 11.4	3.24							
12	6.66	"	6.10	"	5.15	"	4.29		3.09		2.52			
15	8.19	"	7.69	"	6.89	"	5.84	W 12.8	4.46	"	3.42			
18	9.68	"	9.15	"	8.64	"	7.63	"	5.90	W 15.6	4.28			
21	10.09	"	10.16	"	9.30	"	8.28	"	5.53	"	3.83			
24	9.39	"	10.20	"	9.57	"	7.73	"	4.34	W 22.6	3.30			
27	8.64	"	9.67	"	9.59	"	7.20	"	4.38	"	2.87		3.78	
30	8.25	"	9.03	"	9.58	"	7.31	"	4.04	"	3.09		4.46	
33	8.24	"	8.45	"	9.60	"	6.43	"	4.01	"	3.51		5.22	WE 30.5
36	8.00	"	7.95	"	9.25	"	6.10	"	4.02	"	3.95	W 38.0	5.38	"
39	8.25	"	8.04	"	7.66	"	6.15	"	4.81	W 38.5	5.28	"	5.40	"
42	7.68	"	7.91	"	7.49	"	6.14	"	5.22	"	5.61	"	5.21	"
45	8.32	"	7.58	"	7.00	"	5.55	"	5.53	"	5.46	"	5.22	"
48	7.90	"	6.75	"	6.10	"	5.95	"	5.80	"	5.21	"	5.13	"
51	7.31	"	6.92	"	6.60	"	6.17	"	5.67	"	5.14	"	5.03	"
54	7.30	"	6.97	"	6.50	"	5.89	"	5.48	"	5.26	"	4.90	"
57	6.99	"	6.54	"	6.27	"	5.73	"	5.10	"	5.14	"	4.11	WE 55.9
60	6.70	"	6.60	"	6.27	"	5.15	"	5.07	"	4.90	W 61.3	3.70	
63	6.62	"	6.55	"	5.80	"	5.35	"	5.26	"	3.74	"	2.48	
66	6.56	"	6.39	"	5.31	"	5.36	"	4.05	W 64.3	2.73			
69	6.29	"	5.72	"	5.47	"	4.77	W 69.0	3.39					
72	5.16	WE 72.6	5.36	WE 71.0	5.03	"	3.06							
75	3.72		4.45		3.96	WE 73.2								
	ROD ON BM 13.12								4 I - WATER LEVEL				9.77	
	Assumed elev. 100.00												4.77	
	LINE OF SIGHT 113.12												9.77	
	ROD ON WATER SURFACE 4.77												4.77	
	ELEV of water 108.35													
	(23)		(21)		(21)		(19)		(18)		(9)		(9)	
Total	166.85		159.73		153.07		119.23		88.67		45.74		45.60	
Average	No. pts. = 237		TOTAL ALL POINTS = 1698.53						Av. = 7.133					

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

SEDIMENT BASIN WATERSHED No 1.
LOCATION MAP



LINES 2, 7, & 13 are MARKED WITH A ALUMINUM TAG ON THE PRIMARY CONTROL LOG.

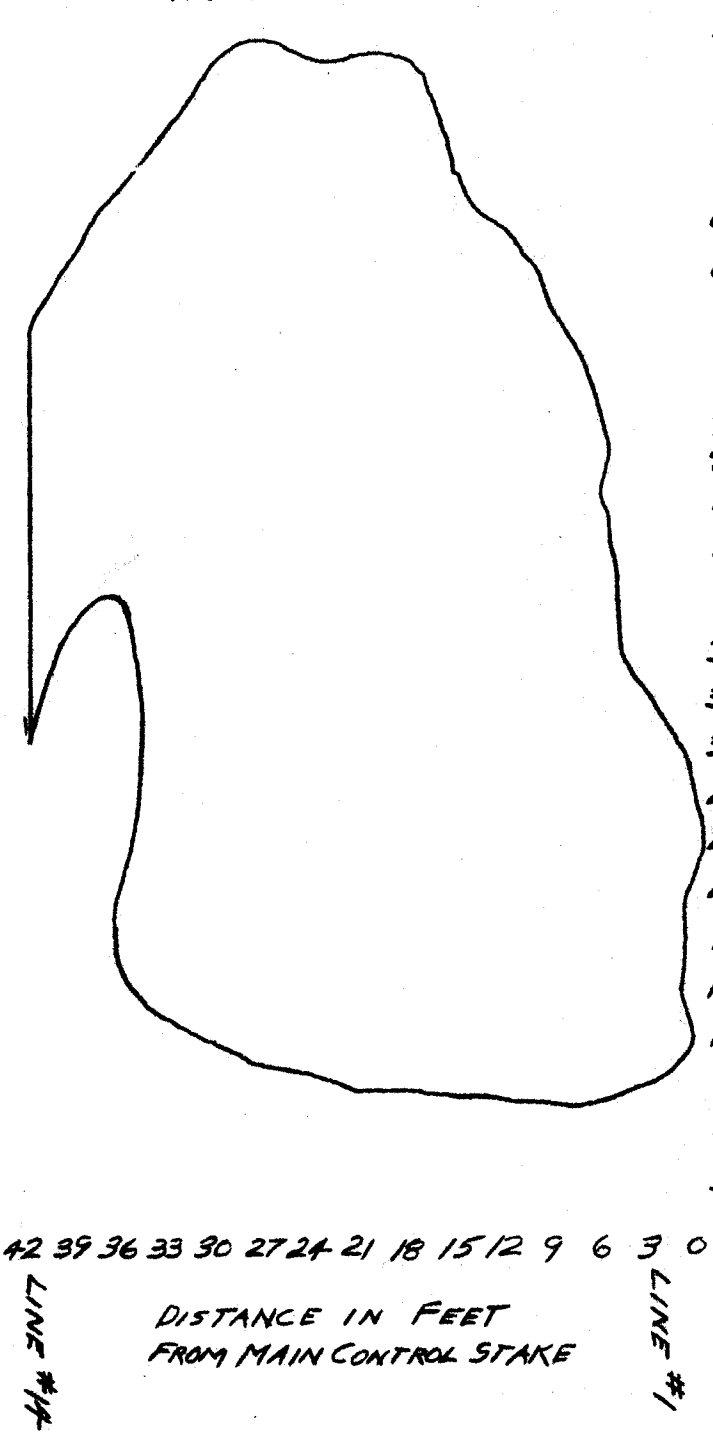
8/8/58
J. T. SABO

SEDIMENT BASIN WATERSHED No 1.

SURFACE AREA = 14.04 by POLAR PLANIMETER
x 144
2022 Sq. FT.

SCALE : 1" = 12'

SURFACE AREA 1957 = 2111 SQ. FT.
" " 1956 = 1998 " "



8/8/58
J. T. SABO

RI - NW
SOIL STABILIZATION
Watersheds
Benchmark:
H.I.
Elev.

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

Date: 7/29/58
Party: Level Rothacher
Rod Sabo
Notes Rothacher

Experimental Area: H. J. A.
Basin Location: Watershed #2

Station*	Transects (Designated in ft. starting at crest of dam)													
	LINE 1		LINE 2		LINE 3		LINE 4		LINE 5		LINE 6		LINE 7	
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
0+00														
03			4.62		4.86		5.67	3.1 WE	6.08	2.85 WE	6.17	WE 2.5	5.82	WE 3.5
06			5.61		6.39	WE 5.2 2.35 to NE	7.48		7.10		7.33		6.75	
09			6.46		7.02	3.6 to E	7.61		7.59		7.55		7.31	
12			6.20		7.26	3.64 to E	7.67		7.70		7.65		7.52	
15			6.69		7.41	4.2 to E	7.30		7.15		7.52		7.43	
18			6.61		7.27	4.6 to E	7.11		6.92		7.48		7.60	
21	6.57		7.34		7.43	6.65 to W	6.95		7.02		7.41		7.68	
24	6.98		7.46		7.26	7.0 to W	7.08		7.15		7.40		7.75	
27	7.31		7.24		7.25	7.2 to W	7.39		7.39		7.39		7.70	
30	7.30		7.44		7.48	7.25 to W	7.73		7.75		7.45		7.72	
33	6.18	ROCK SHORE	7.31		7.35	6.3 to W	7.77		7.88		7.60		7.72	
36			7.25		7.49	5.6 to W	7.73		7.87		7.63		7.50	
39			7.13		7.54	4.6 to W	7.57		7.79		7.60		6.85	
42			6.91		7.44	4.5 to W	7.33		7.63		7.04		6.17	
45			6.50	7 on edge of WE 47.0	6.97	WE 47.4	6.89	WE 47.0	6.46	WE 46.6	5.82	WE 44.0	5.45	42.6 WE
48			5.82	corner inlet	5.76		5.80		5.35	(inlet)	5.20		5.50	
51					5.46		5.46		5.25		5.00		5.20	
54					5.40		5.30		4.91		4.91		4.92	
57					4.80									
60														
63														
66														
69														
72														

FROM LINE #3

ROD ON BM 8.28
Assumed elev. 100.00
Line of sight 108.28
Rod on water surface 6.02
Elevation water 102.26

ROD ON WATER SURFACE 6.01
6.02
6.03
Av. 6.02

	(2)	(10)	(16)	(17)	(18)	(18)	(16)
Total	14.29	71.38	112.78	120.17	124.99	124.15	111.83
Average							

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

RI - NW
SOIL STABILIZATION
Watersheds
Benchmark:
H.I.
Elev.

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

Date: 7/29/58
Party: Level Rothacher
Rod Sa 60
Notes Rothacher

Experimental Area: HJA
Basin Location: WATERSHED #2

Station*	Transects (Designated in ft. starting at crest of dam)													
	LINE 8		LINE 9		LINE 10		LINE 11		LINE 12		LINE 13		LINE 14	
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
0+00														
03	5.18	WE 4.2	5.45	WE 3.9	4.95	WE 4.4	5.40	WE 4.3	4.48	WE 5.1	4.37		4.50	
06	6.72	"	7.02	"	6.49	"	6.68	"	6.35	"	5.83	WE 6.4	5.21	WE 6.2
09	7.40		7.59		7.39	"	7.21	"	6.77	"	6.52	"	6.89	"
12	7.48		7.62		7.50	"	7.39	"	6.89	"	6.94	"	6.65	"
15	7.52		7.57		7.46	"	7.25	"	7.11	"	7.09	"	6.73	"
18	7.65		7.67		7.58	"	7.42	"	7.24	"	6.76	"	6.11	" edge of island
21	7.70		7.73		7.62	"	7.52	"	7.29	"	6.96	"	6.01	" island
24	7.78		7.79		7.71	"	7.60	"	6.99	"	6.23	"	6.51	21.6 WE
27	7.71		7.83		7.80	"	7.40	"	6.82	"	6.73	"	6.85	"
30	7.74		7.83		7.68	"	7.18	"	6.94	"	7.29	"	6.90	"
33	7.69		7.77		7.46	"	7.10	"	7.25	"	7.29	"	6.78	"
36	7.38		7.36		6.98	"	6.99		7.36	"	6.90	"	6.36	38.1 WE
39	6.78	WE 40.8	6.62	WE 40.5	6.37	WE 41.0	6.92		6.99	"	6.48	"	4.79	trail edge
42	5.67		5.53		5.88	"	6.06	WE 42.1	6.03	WE 42.0	6.30	WE 43.1	4.95	Trail
45	5.09		5.20		5.37	"	5.78	"	5.63	"	5.60	"		
48	5.16		5.07		5.60	"	5.41	"	5.37		4.53	ON TRAIL		
51	5.02		5.16		4.92		5.03		4.10	ON TRAIL				
54	4.97		5.12		4.98		4.66							
57														
	(16)		(15)		(15)		(15)		(14)		(13)		(12)	
Total	110.49		106.20		104.89		103.91		95.66		86.59		75.53	
Average														

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

RI - NW
SOIL STABILIZATION
Watersheds
Benchmark:
H.I.
Elev.

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

Date: _____
Party: Level _____
Rod _____
Notes _____

Experimental Area: _____
Basin Location: _____

Station*	Transects (Designated in ft. starting at crest of dam)													
	LINE 15		LINE 16		LINE 17				LINE 18					
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
00					6.19	3' above spillway	West East	WE 1.8 " 2.16						
03	4.93	WE 5.6	5.46	WE 3.8	6.50	"	W E	" 2.8 WE 1.8						
06	6.15	"	6.23	"	6.41	WE 1.35 E								
09	6.53	"	6.70	"	6.26	" 2.25 E			4.94					
12	6.73	"	6.19	"	6.09	" 3.35 E			5.79	WE 9.5				
15	6.03	WE 18.5 and 18.5 WE	6.07	edge of culvert	6.16	" 4.5 E			6.21	"				
18	6.04		6.27		5.63	WE at 15.9			5.02					
21	6.43		6.25	WE 23.5	4.99	edge of trail			6.13					
24	6.72		5.99	"	5.02	trail								
27	6.60		4.82	edge of trail										
~~30~~	6.37		5.03	trail										
33	6.02	WE 33.0												
36	5.02	trail												
	CHECK READING ON BM 8.28													
	(11)		(8)		(7)				(4)					
Total	68.64		48.52		43.24				6.21					
Average	No. pts. = 224		TOTAL ALL POINTS = 1529.47, AV. = 6.828											

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

RI - NW
SOIL STABILIZATION
Watersheds

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

Benchmark: REMEASUREMENT AFTER PARTIAL CLEANOUT
H.I. LINES 1-9
Elev. SAME AS BEFORE
Experimental Area: H. J. A.
Basin Location: WATERSHED #2

Date: 7/30/58
Party: Level Rothacher
Rod Sabo
Notes Rothacher

Station*	Transects (Designated in ft. starting at crest of dam)													
	LINE 10		LINE 11		LINE 12		LINE 13		LINE 14		LINE 15		LINE 16	
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
0+00														
03	4.84	WE 4.4	5.31	WE 4.3	4.39	WE 5.3	4.24		4.36		4.52	WE 5.6	5.37	WE 9.0
06	6.42	"	6.59	"	6.19	"	5.63	WE 6.4	5.57	WE 6.2	6.08	"	6.43	"
09	7.29	"	7.13	"	6.72	"	6.48	"	6.71	"	6.47	"	6.73	"
12	7.37	"	7.28	"	6.82	"	6.89	"	6.63	"	6.74	"	6.58	"
15	7.32	"	7.21	"	6.99	"	6.92	"	7.14	"	6.76	"	6.31	"
18	7.45	"	7.33	"	7.10	"	6.88	"	7.15	"	6.33	"	6.20	"
21	7.59	"	7.36	"	7.19	"	7.04	"	6.88	"	6.42	"	6.23	"
24	7.60	"	7.39	"	7.46	"	7.24	"	6.69	"	6.54	"	5.90	WE 24.0
27	7.64	"	7.21	"	7.15	"	7.10	"	6.78	"	6.54	"	4.98	"
30	7.57	"	7.07	"	7.36	"	7.44	"	6.79	"	6.30	WE 32.5	4.30	
33	7.34	"	6.95	"	7.34	"	7.16	"	6.65	"	5.63	edge Trail		
36	6.90	"	7.13	"	7.18	"	6.75	"	6.29	WE 38.3	4.59	Trail		
39	6.95	"	6.83	"	6.88	"	6.40	"	4.57	edge Trail	4.29	Trail		
42	5.76	WE 41.1	5.99	WE 42.2	6.41	"	6.21	WE 43.5	4.50	"				
45	5.26	"	5.66	"	5.95	WE 45.2	4.62	edge of Trail						
48	5.48	"	5.30	"	5.25		4.00							
51	4.82		4.90		4.80	Trail								
54	4.79		4.56											

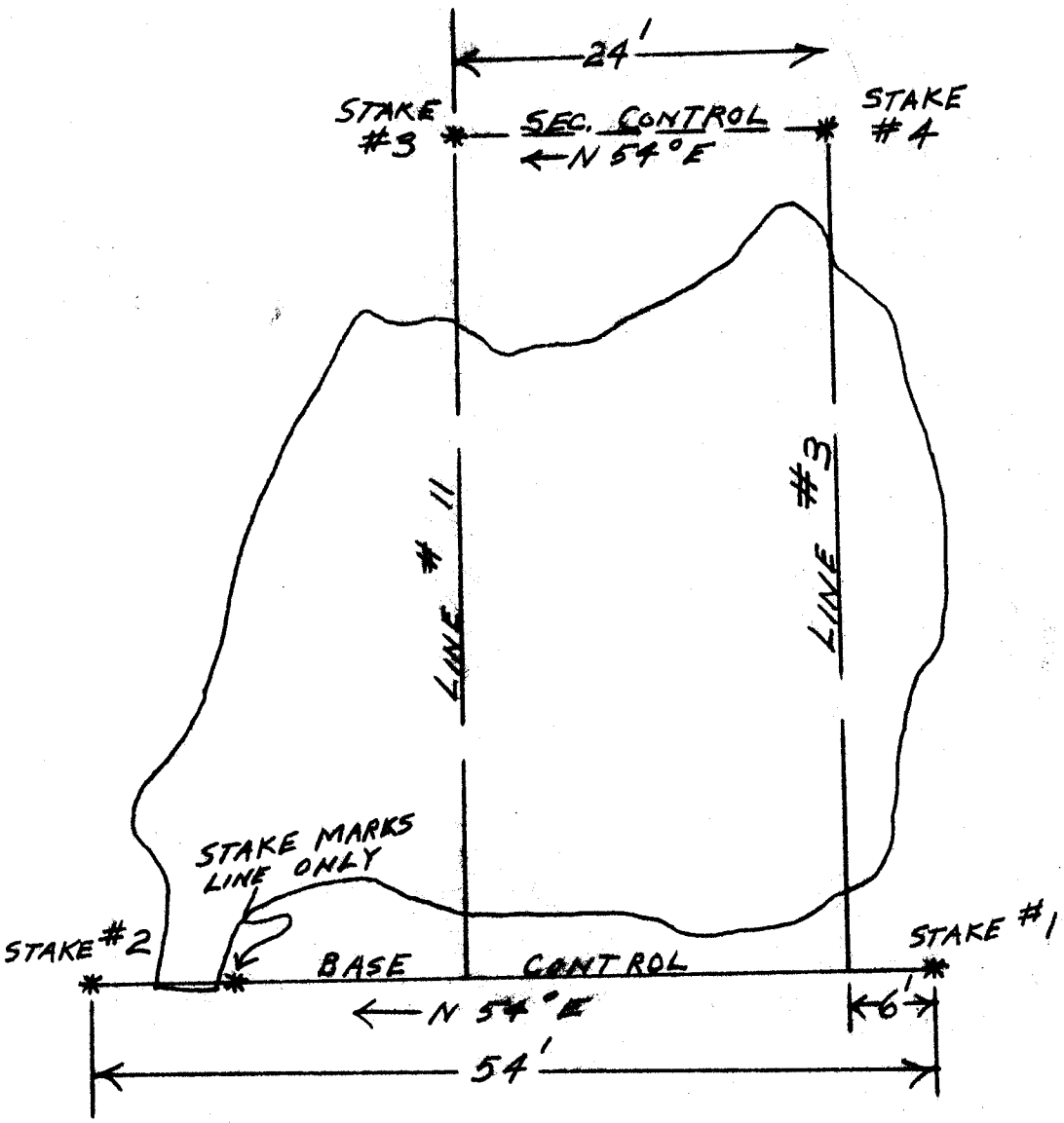
	LINE 17		LINE 18	
0+00	6.28	WE 2.9 E		
03	6.31	" 2.2 E		
06	6.26	" 1.7 E		
09	6.18	" 2.4 E	5.67	
12	6.11	" 4.0 E	6.18	WE 13.2
15	6.09	" 1.3 E	4.87	edge Trail
18	5.75	WE 17.4	4.47	Trail
21	4.53	edge Trail		
24	4.34	Trail		
	(9)		(1)	
	42.98		6.18	

LINES 1-9: 128 pts FOR 896.28 TOTAL
Av. = 7.002
LINES 10-18: 96 pts FOR 632.94 TOTAL
Av. =

	(15)	(15)	(14)	(13)	(12)	(11)	(8)
Total	103.44	102.43	96.74	87.13	76.78	68.40	48.86
Average	No points = 224		TOTAL ALL POINTS	1540.74,	Av. = 6.878		

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

SEDIMENT BASIN WATERSHED No. 2
LINE LOCATION MAP



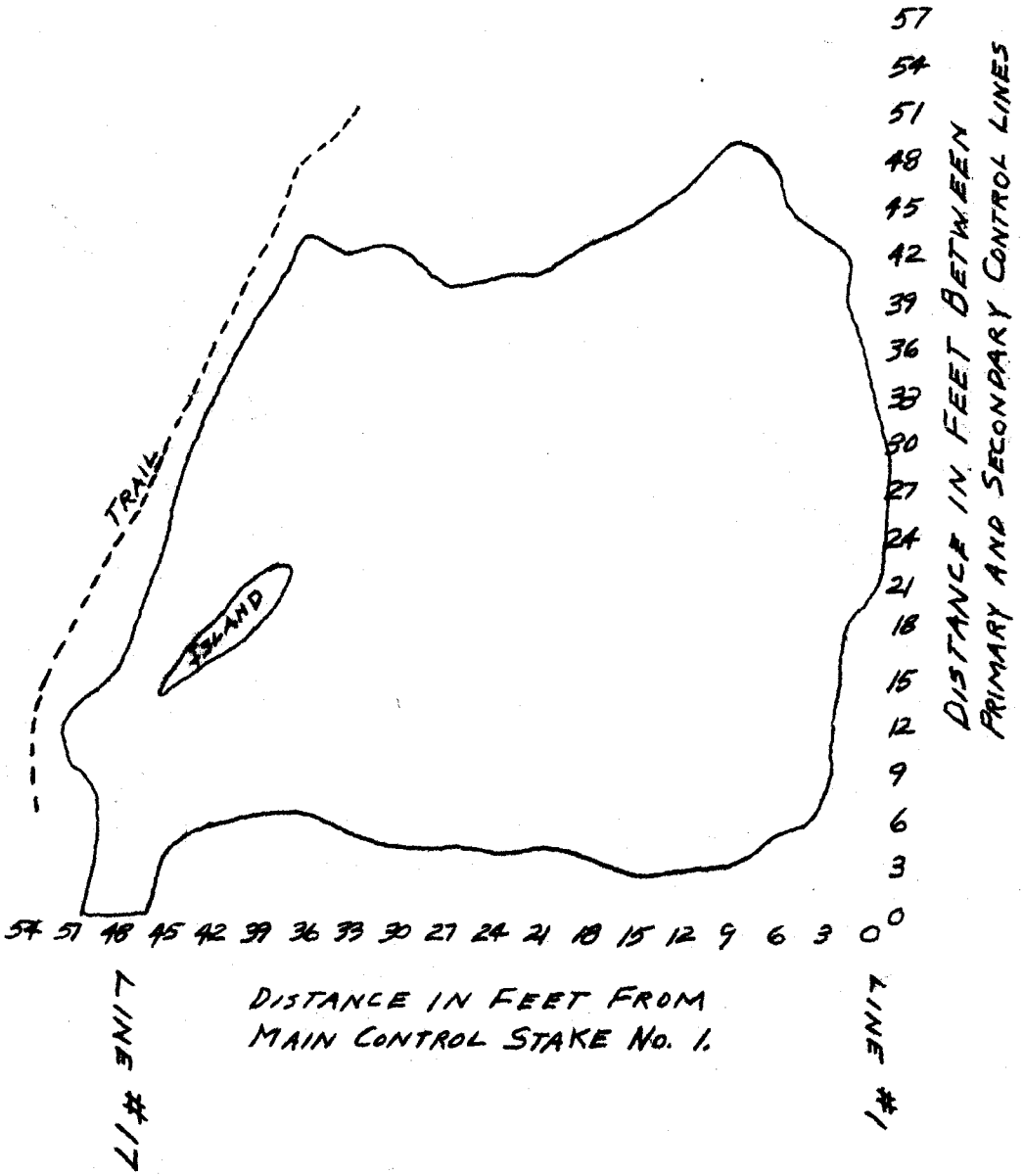
ALUMINUM TAGS LOCATE LINES 3, 11, & 15 ON BOTH THE PRIMARY AND SECONDARY CONTROL LINES (LOGS).

8/11/58
J. T. SABO

SEDIMENT BASIN WATERSHED No. 2

SURFACE AREA 1958 = 1787 SQ. FT.
" " 1957 = 2025 " "
" " 1956 = 1890 " "

SCALE: 1" = 12'



8/8/58
J. T. SABO

RI - NW
SOIL STABILIZATION
Watersheds
Benchmark:
H.I.
Elev.

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

Experimental Area: H.J. ANDREWS
Basin Location: W.S. #3

Date: 7/31/58
Party: Level Rothacher
Rod Sako
Notes Rothacher

Station*	Transects (Designated in ft. starting at crest of dam)													
	LINE 1		LINE 2		LINE 3		LINE 4		LINE 5		LINE 6		LINE 7	
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
0+00														
03	7.86	1.2 to WE	8.38	✓	10.14	✓	10.10	✓	.090 10.16 / 1.03.9 11.34	bot. dam	.090 10.11 / .02 11.62	bot dam	10.04 / 11.59	9.0 / 4.4 bot dam
06	7.60	1.0 to WE	9.85	✓	10.98	✓ 7.03.7	11.10 / 11.35	bottom dam	11.65	✓	11.72	✓	11.21	✓
09	7.21	1.4 " "	9.85	✓	10.95	✓	11.60	✓	11.55	✓	11.11	✓	10.26	✓
12	7.42	3.0 " "	9.22	✓	10.90	✓	11.53	✓	11.20	✓	10.61	✓	10.03	
15	6.76	WE 14.6	9.16	✓	11.13	✓	11.10	✓	10.76	✓	10.24	✓	9.92	✓
18	3.76		8.12	WE 19.0	10.63	✓	10.61	✓	10.31	✓	10.01	✓	10.05	✓
21		on bank	7.86	WE 19.9	10.19	✓	10.19	✓	10.12	✓	10.20	✓	10.15	✓
24	4.11		9.46	✓	9.69	✓	9.83	✓	10.30	✓	10.51	✓	10.07	✓
27	7.07	✓	9.29	✓	9.41	✓	9.95	✓	10.51	✓	10.68	✓	10.55	✓
30	6.72	edge of water	9.01	✓	9.22	✓	10.02	✓	10.43	✓	10.46	✓	10.35	✓
33	7.46	local WE	8.66	✓	9.10	✓	9.79	✓	10.10	✓	9.97	✓	9.97	✓
36	7.43	✓	8.17	✓	8.53	✓	9.36	✓	9.56	✓	8.96	✓	8.88	✓
39	8.09	✓	8.16	✓	8.55	✓	8.95	✓	8.43	✓	7.95	WE 41.8	7.46	WE 39.2
42	8.15	✓	8.09	✓	8.39	✓	8.31	✓	8.04	WE 42.9	6.14		6.88	
45	7.87	✓	7.88	WE 46.9	7.92	✓	8.76	WE 47.5	6.31		5.35		6.47	
48	7.26	WE in creek	7.22		7.18	WE 48.3	6.27							
51	6.60	about 46.0	5.47		4.64									
54														
57														
60														
	(12)		(15)		(16)		(15)		(14)		(13)		(13)	
Total	90.14		131.16		152.91		151.45		143.11		132.53		128.94	
Average														

BM ASSUMED 100.000
ROD ON BM .335
100.335
TP 6.285
TP ELEV. 94.050
TP 4.870
98.92
7.33
ELEV. OF WATER 91.59

T.P. - 6.285

Spillway elev. 7.34
7.36
7.31
7.337

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

RI - NW
SOIL STABILIZATION
Watersheds
Benchmark:
H.I.
Elev.

ELEVATIONS OF SEDIMENT ACCUMULATED IN CATCHMENT BASINS

FORM RI-2

Date: 7/31/58
Party: Level Rothacher
Rod Sabo
Notes Rothacher

Experimental Area: H.J. ANDREWS
Basin Location: WS #3

Station*	Transects (Designated in ft. starting at crest of dam)													
	LINE 8		LINE 9		LINE 10		LINE 11		LINE 12		LINE 13		LINE 14	
	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.	H.I.	Elev.
0+00			~~9.74~~ 10.46	~~3.0~~ 3.8 dam	9.12 10.28	3.0' 4.1'	8.98 10.46	3.6'	8.68' 10.13	4.5'	~~8.34~~ 9.05	~~3.0'~~ 3.2'	7.63	
03	9.91		10.05		10.14		10.59		10.75		9.80		8.25	
06	~~11.13~~ 10.55	4.2	9.97		10.08		10.39		10.55		10.06		8.66	
09	9.89		9.81		10.02		10.44		10.60		10.12		8.86	
12	9.87		9.99		10.06		10.28		10.58		9.90		8.83	
15	10.12		10.12		10.33		10.65		10.42		9.31		7.61	WE 18.0
18	10.18		10.22		10.53		10.82		10.02		8.54			
21	10.39		10.51		10.72		10.64		9.40		7.72	WE 26.3		
24	10.61		10.69		10.27		9.59		8.84		7.90			
27	10.42		9.95		7.74	log	9.14		8.81					
30	10.38		9.06		7.99	"	9.24		8.85	WE 34.1				
33	9.88		8.12		8.48		9.07		7.54	" 36.0				
36	8.50		6.65	WE 38.5	6.94	WE log 39.0	8.76		6.84	" 38.0				
39	7.20	WE			6.31		8.44		7.09					
42	6.26				8.19		7.82	WE 47.7	6.17					
45					7.77		6.99							
48					6.67									
51														
54														

LINE 15

0+00		
03	6.37	WE 1.0
06	6.91	" 2.2
09	6.88	" 2.0

CHECK ON T.P. 9.87

TP 8.91
BM (Top of nail head) 2.96

100.00
2.96
102.96
- 8.91
94.05
4.87
98.920
7.337
91.583

FROM LINE # 14

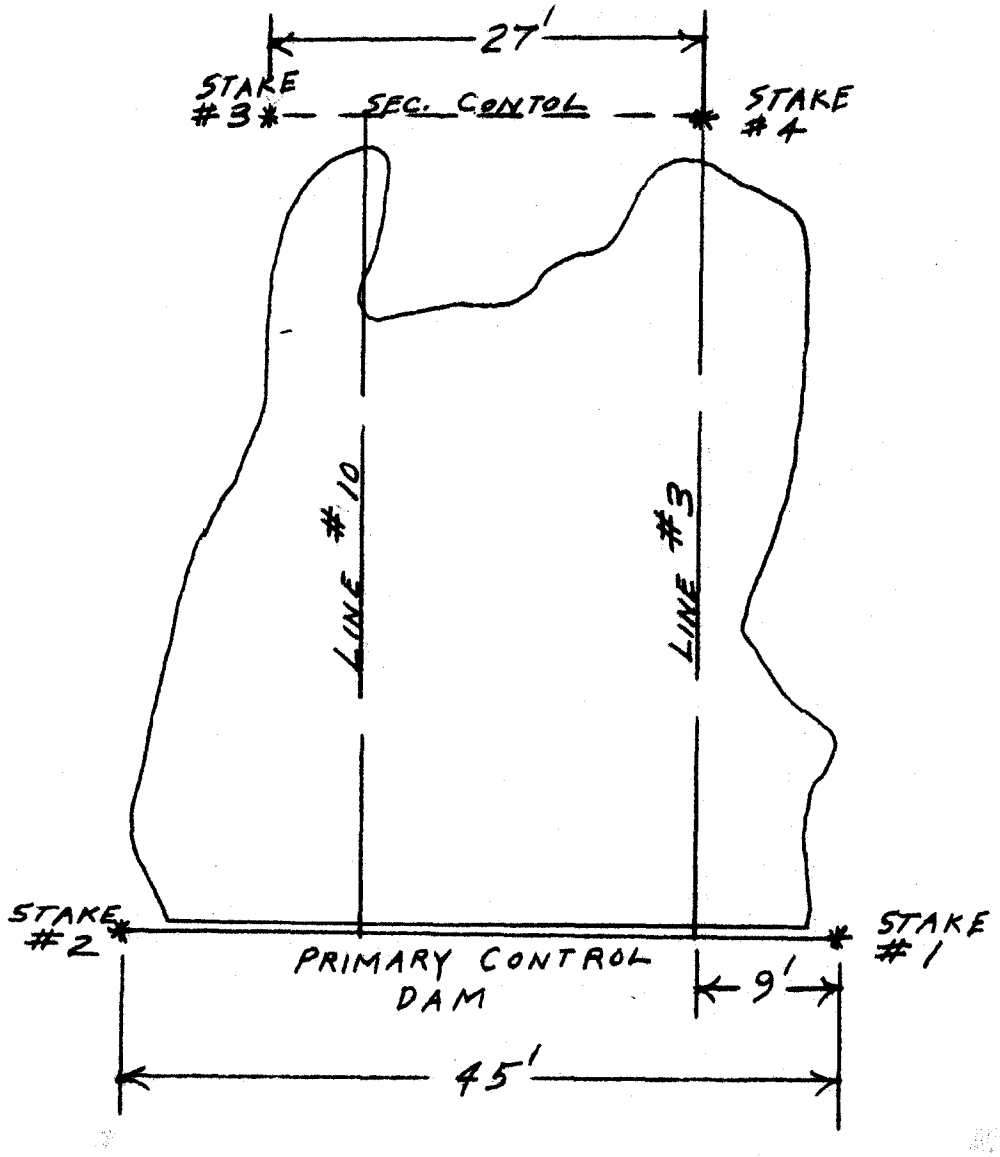
LINE # 14

	(14)	(12)	(16)	(16)	(13)	(9)	(5)
Total	134.16	118.23	144.19	151.84	121.88	81.24	42.53
Average							

*Numbered to right starting with 0 at borderline which extends upstream from left end of dam.

SEDIMENT BASIN WATERSHED No. 3
LINE LOCATION MAP

ALUMINUM TAGS LOCATE LINES 3 & 10 ON BOTH THE PRIMARY AND SECONDARY CONTROL LINES (LOGS).

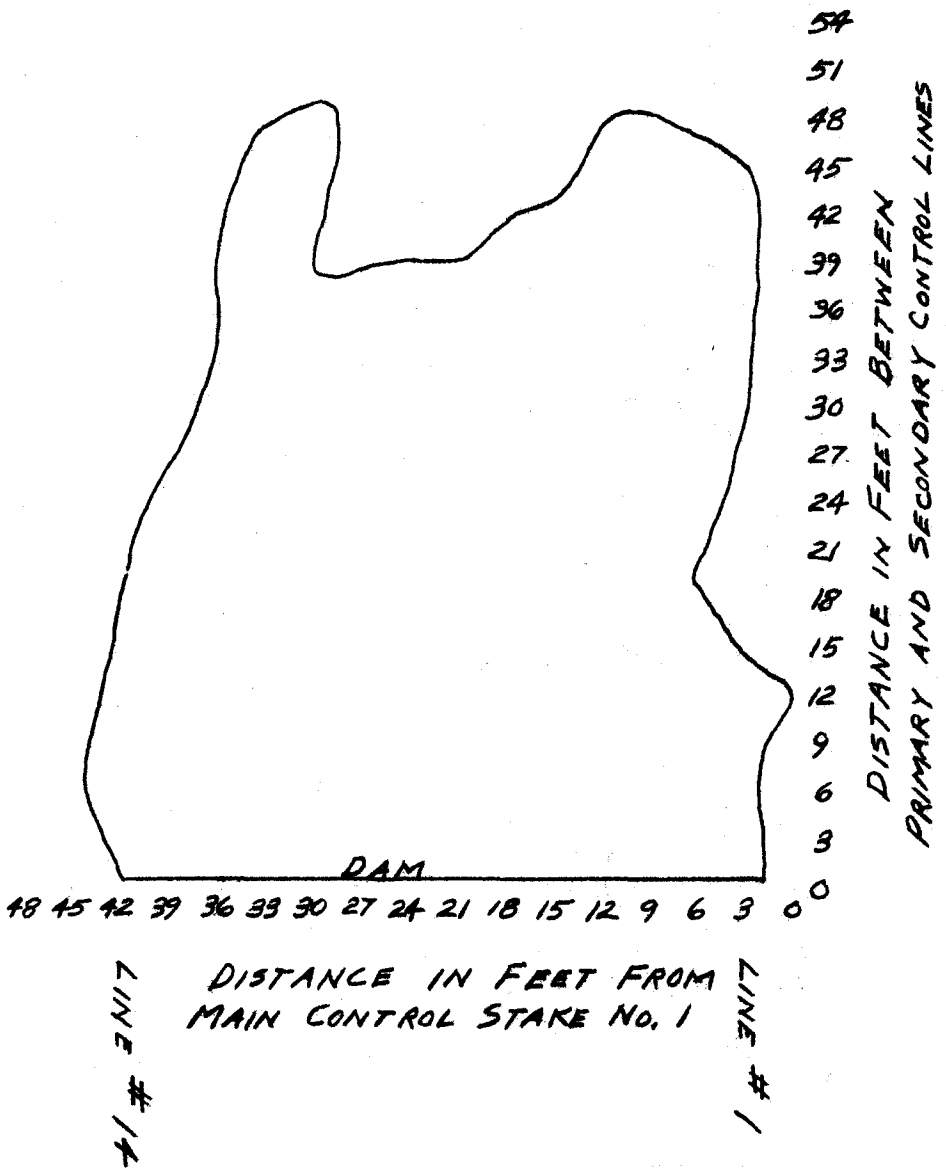


8/11/58
J. T. SABO

SEDIMENT BASIN WATERSHED No. 3

SURFACE AREA 1958 = 1630 Sq. FT.
" " 1957 = 1639 " "
" " 1956 = 1593 " "

SCALE: 1" = 12'



8/11/58
J. T. SABO