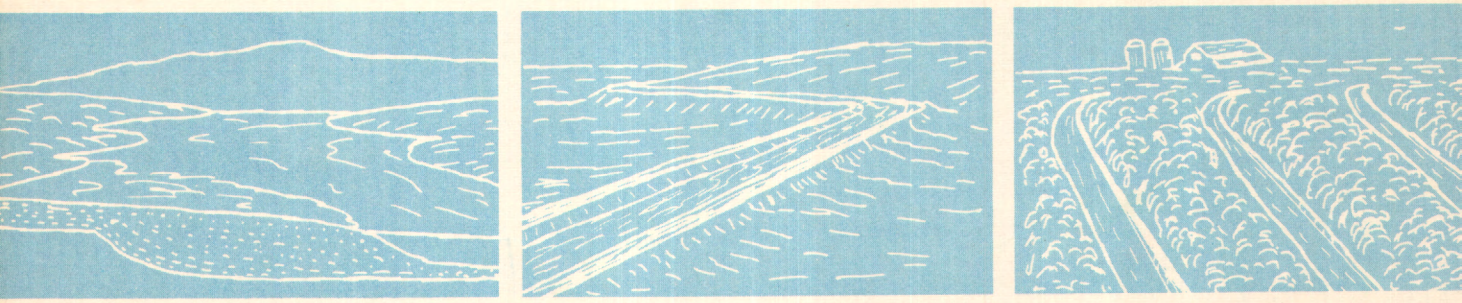
SEDIMENT TRANSPORT BY IRRIGATION RETURN FLOWS IN THE LOWER YAKIMA RIVER BASIN, WASHINGTON, 1975 AND 1976 IRRIGATION SEASONS



U.S. GEOLOGICAL SURVEY
Open-File Report 78-946

Prepared in Cooperation With
State of Washington Department of Ecology

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SEDIMENT TRANSPORT BY IRRIGATION RETURN FLOWS IN THE LOWER YAKIMA RIVER BASIN, WASHINGTON, 1975 AND 1976 IRRIGATION SEASONS

By Leonard M. Nelson

Open-File ~~Report~~ 78-946

Prepared in cooperation with the
State of Washington Department of Ecology

Tacoma, Washington
1979

For additional information write to:

U.S. Geological Survey
1201 Pacific Avenue - Suite 600
Tacoma, Washington 98402

CONTENTS

ILLUSTRATIONS

TABLES

METRIC CONVERSIONS

Multiply	By	To obtain
Feet (ft)	0.3048	meters (m)
Miles (mi)	1.609	kilometer (km)
Square miles (mi^2)	2.590	square kilometers (km^2)
Cubic feet per second (ft^3/s)	.02832	cubic meters per second (m^3/s)
Tons (2,000 lbs)	.9072	tonnes
Tons per square mile ($tons/mi^2$)	.3503	tonnes per square kilometer ($tonnes/km^2$)

SEDIMENT TRANSPORT BY IRRIGATION RETURN FLOWS IN THE LOWER YAKIMA RIVER BASIN, WASHINGTON, 1975 AND 1976 IRRIGATION SEASONS

By Leonard M. Nelson

ABSTRACT

The suspended sediment transported by irrigation return flows in the lower Yakima River basin during the 1975 and 1976 irrigation seasons ranged from about 65,000 tons in the Sulphur Creek Wasteway to less than 100 tons in Wamba Drain. The Roza and Sunnyside Canals transported a considerable amount of sediment, as indicated by the estimated 61,000 tons transported during the 1976 season by the Sunnyside Canal at Grandview.

No data to estimate the sediment yields from nonirrigated lands were obtained because no runoff was observed during the 1975 and 1976 irrigation seasons. Other investigators have estimated annual yields of 50 tons per square mile from these areas. Yields may be greater where dryland farming practices have changed the ground cover.

The comparison of suspended-sediment concentration to water discharge and to turbidity indicated no significant relationships. The measurement of turbidity of water sampled was not considered an acceptable substitute for determining suspended-sediment concentration.

INTRODUCTION

Purpose and Scope

This report describes the results of a study which is a part of a continuing program of evaluating the amount of sediment trasnported by streams in Washington and the probable source and character of such fluvial sediment. The objectives of this study of irrigation return flows in the lower Yakima River basin are to evaluate (1) the amount of sediment transported by irrigation return flows reaching the Yakima River, (2) the sediment yield from selected nonirrigated areas adjacent to and upstream from the irrigated areas, and (3) the relationships of suspended-sediment concentration to turbidity and water discharge.

This report compiles the data collected during the study, lists references to other sources of sediment data available for the basin, and provides interpretation for the three objectives.

Description of the Basin

The entire Yakima River basin occupies an area of about 6,160 mi^2 in south-central Washington State (fig. 1). The river and its many tributaries originate on the eastern slope of the Cascade Range and drain the lower areas of Kittitas, Yakima, Benton, and Klickitat Counties. The basin ranges in elevation from more than 8,000 feet at the crest of the Cascade Range to about 340 feet at the Columbia River at Richland. From near the crest of the Cascade Range, the river flows southeasternly through and across several alternately narrow and wide valleys along the river's 200-mile course to the Columbia River.

As defined in this study, the lower Yakima River basin includes the area delineated in figure 1, with Wenas Creek as the farthest upstream tributary. The study area includes the irrigated agricultural lands and grasslands of the lower Yakima valley, exept those of the Yakima Indian Reservation which adjoin on the west and which are discussed in a separate report (Nelson, 1979). Other small streams that are included in the study area are Sulphur, Spring, and Snipes Creeks, which originate in the Rattlesnake Hills north of the lower Yakima valley.

Average annual precipitation over the study area is about 10 inches. The dry eastern part of the basin is treeless and native vegetation there consist of sagebrush, desert shrubs, and grasses. Strong winds sweep down from the mountains and hills, eroding and transporting much fine soil from the farmlands to streams and wasteways.

Slopes in the valley range from 0 to 5 percent in most areas, but steeper slopes are found along Snipes Mountain and on the hills north and south of the valley. The fine, loamy soils throughout the valley bottom are fertile and ideal for farming. However, because the low annual precipitation provides little water for growing crops, much of the flow of the Yakima River and its tributaries is diverted for irrigation in the lower valley.

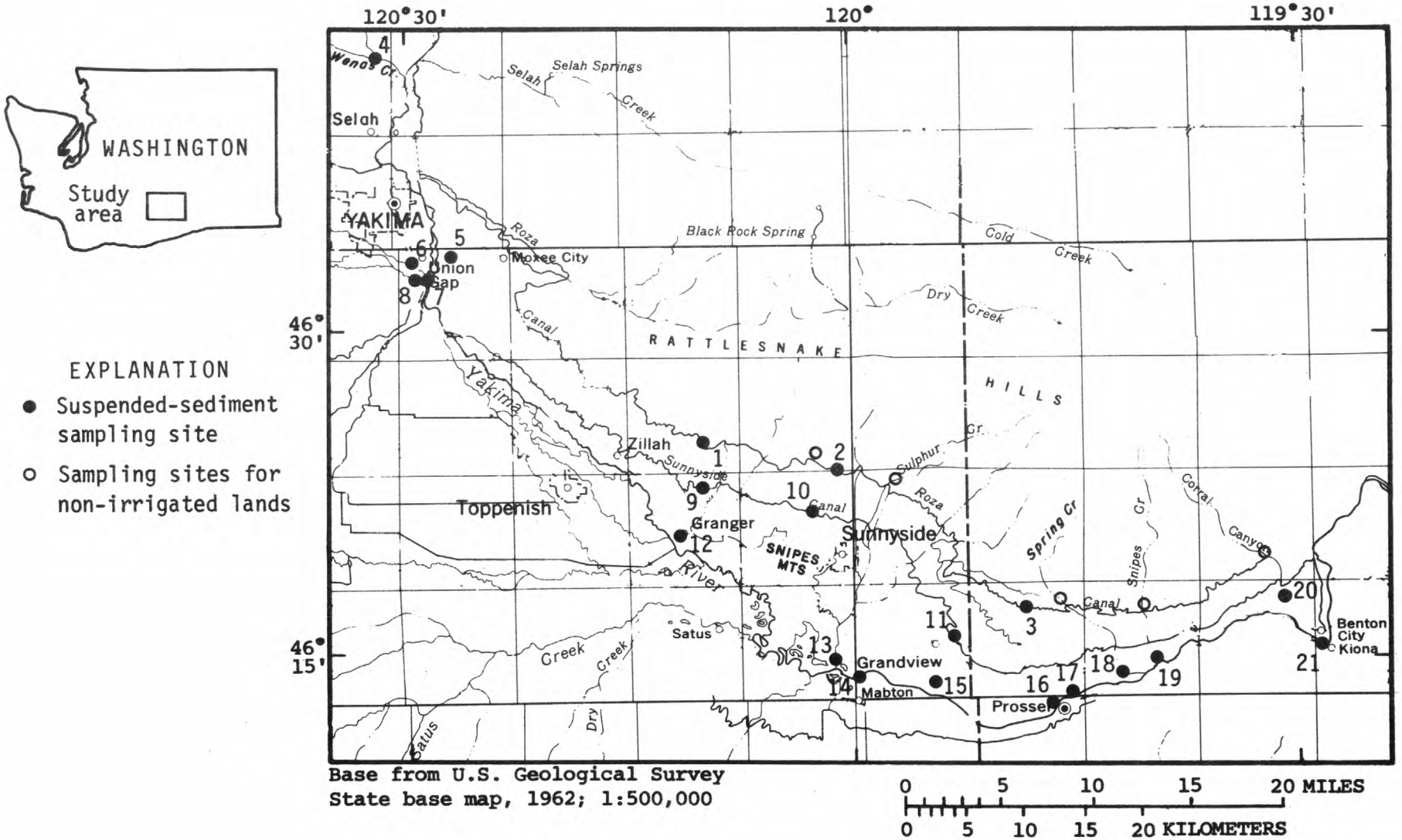


FIGURE 1.--Suspended-sediment sampling sites in the lower Yakima River basin. Sampling sites are identified by number as listed in table 1.

Data Collection

A total of 26 sites were established to provide data for this study (fig. 1). Data were collected at 3 sites on the Yakima River, at 12 sites on major drains carrying irrigation return flows to the Yakima River, at 3 sites on the Sunnyside Canal, at 3 sites on the Roza Canal, and at 5 sites above the canal system. Sites 9, 10, and 11 on the Sunnyside Canal and sites 1, 2, and 3 on the Roza Canal were selected to measure the sediment transported in the two canals (fig. 1). (Sites 2 and 10 replaced sites 1 and 9, respectively, during the 1976 irrigation season, being moved downstream to accommodate the needs of a study of the Sulphur Creek basin.)

The data-collection sites were visited generally twice a week during the 1975 and 1976 irrigation seasons (April 1-September 30) to obtain water samples for suspended-sediment and turbidity analysis, and to record water temperature, specific conductance, and stage.

The suspended-sediment samples were collected by depth integration. The method of collection is described by Guy and Norman (1970) and the method of analysis is described by Guy (1969). Turbidity samples were collected in plastic bottles by depth integration, kept on ice, and analyzed in the U.S. Geological Survey's field office in Pasco. After a sample was shaken for 30 seconds and allowed to settle for 15 seconds, the turbidity was read immediately using a Hach 2100 turbidimeter.[1]

Water stages were recorded by gages on the Yakima River and Ahtanum Creek and were measured using staff gages or tape measurements from a reference point at the other sites. Water discharge was measured periodically with a current meter and discharge-stage relations were established from those data, using standard techniques described by Carter and Davidian (1965a, 1965b).

---

[1]The mention of brand names and commercial operators in this report is for identification purposes only and does not imply endorsement by the U.S. Geological Survey.

Factors Affecting Sediment Transport

Much sediment is transported in irrigation return flows, via streams, canals, and drains in the lower Yakima River basin. Partial diversion of water in the lower Yakima River to irrigation canals reduces the flow and therefore reduces erosion along the main river channel, but some of the river sediment is diverted into the canal system and onto the farmland. In addition, many small, intermittent streams and irrigation return flows transport sediment into the canals.

The application of excess irrigation water to the area's soils increases the erosion of the agricultural lands even though slope gradients generally are low. Runoff transports this eroded sediment into drains, creeks, and wasteways where it may be either temporarily deposited or transported.

The low precipitation in the area results in little runoff except from irrigation return flows and occasionally during (1) intense thunderstorms or (2) periods of rain or rapid melting of the snow cover during periods of rapidly rising temperatures. Much of the sediment transported during these high-flow periods is transported into the Yakima River and out of the basin.

Another source of sediment is the wind, which transports soils throughout the basin and deposits unknown quantities into the creeks, drains, and wasteways. Although the quantities are unknown, they can be affected by farming practices and may be significant.

In irrigated areas, different combinations of cultivation, crop type, slope, and irrigation methods are known to have differing influences on the magnitude of sediment discharge (Stansbury and Milhous, 1975). Suspended-sediment concentrations generally increase as the water discharge increases, although the relationship between suspended-sediment concentration and water discharge is seldom stable. The accuracy of estimated sediment discharge is discussed by Boucher and Fretwell (1979).

Available Sediment Data

During the 1975 and 1976 irrigation seasons about 2,000 suspended-sediment samples and associated data were collected at the established sites (fig. 1). These data were compiled and are presented in table 4 (end of this report). Other sediment data have been collected by the U.S. Bureau of Reclamation (Yakima office) on the Chandler Power Canal and Yakima River during 1966 and 1967, by CH_2M Hill (1975, 1977), by the U.S. Geological Survey (Nelson, 1974; Boucher, 1975; and Boucher and Fretwell, 1979) and by the U.S. Bureau of Reclamation (1975). In addition, the Yakima office of the U.S. Bureau of Reclamation is collecting periodic sediment data in the basin in a continuing program.

The sediment data from all these sources are not equivalent because several methods of sample collection were used. Welborn (1967) found large differences in suspended-sediment concentrations between samples obtained by depth integration and those obtained by grab sampling.

SUSPENDED-SEDIMENT TRANSPORT

From Irrigated Areas

Estimated water and suspended-sediment discharges were computed for the 1975 and 1976 irrigation seasons by interpolating between data presented in table 4 (end of report). The estimated discharges (table 1) are illustrated in figure 2 for 1975 and in figure 3 for 1976. Except for discharges from the Yakima Indian Reservation, these discharges represent most of the suspended sediment discharged into the Yakima River between Yakima and Kiona.

The monthly mean discharge-weighted suspended-sediment concentrations in Granger Drain at Granger during the 1975 and 1976 irrigation seasons, as shown in figure 4, illustrate the seasonal variation that occurs in the irrigation return flow. Suspended-sediment transport from the study streams varied widely, as indicated by the biweekly suspended-sediment concentrations (table 4, end of report), and the monthly-mean concentrations (fig. 4) show a general trend which may be associated with ground cover and irrigation practices. The apparent differences in the concentrations in Granger Drain between 1975 and 1976 (fig. 4) may be the result of year-to-year variations in the application of irrigation water and variations in ground cover.

From Nonirrigated Areas

To evaluate sediment transport from nonirrigated lands upstream of the canal system, five sites were selected, one each on Spring Canyon, Sulphur, Spring, Snipes, and Corral Canyon Creeks. However, evaluations could not be made for the 1975 and 1976 irrigation seasons because no flow occurred in any of these streams during the twice-weekly visits to the sites. Therefore, no data are given in tables 1 and 4 nor represented in figures 2 and 3.

Based on data from Boucher (1975), the long-term annual sediment yield from the nonirrigated lands is estimated to be about 50 tons per square mile. However, because large areas of grasslands on the Rattlesnake Hills have since been converted to dryland farming, the present (1977) sediment yields probably are higher.

TABLE 1.--Estimated water and suspended-sediment discharges at selected sites, 1975 and 1976 irrigation season

Site number	Station number	Station name	1975 irrigation season		1976 irrigation seasons	
			Water discharge (ft^3/s-days)	Suspended-sediment discharge (tons)	Water discharge (ft^3/s-days)	Suspended-sediment discharge (tons)
1	12485005	Roza Canal at Beam Rd	163,000	15,000	--	--
2	12485010	Roza Canal at Scoon Rd	--	--	102,000	12,000
3	12485018	Roza Canal at Wilgus Rd	49,000	9,700	51,000	14,000
4	12485960	Wenas Creek	8,300	4,500	4,100	3,300
5	12500420	Moxee Drain	10,000	14,000	11,000	16,000
6	12500445	Wide Hollow Creek	11,000	800	8,300	400
7	12500450	Yakima River above Ahtanum Creek	1,001,000	210,000	990,000	89,000
8	12502500	Ahtanum Creek	21,000	6,000	18,000	3,500
9	12504505	Sunnyside Canal at Beam Rd	186,000	40,000	--	--
10	12504510	Sunnyside Canal at Maple Grove Rd	--	--	140,000	49,000
11	12504518	Sunnyside Canal at Grandview	95,000	49,000	99,000	61,000
12	12505450	Granger Drain	10,000	15,000	11,000	18,000
13	12508850	Sulphur Creek Wasteway	56,000	61,000	54,000	65,000
14	12508990	Yakima River at Mabton	763,000	162,000	720,000	160,000
15	12508997	Grandview Drain	3,000	1,600	5,900	5,000
16	12509492	Wamba Drain	600	100	1,500	250
17	12509496	Shelby Drain	1,500	2,100	870	1,300
18	12509700	Spring Creek	9,200	7,500	9,100	10,000
19	12509820	Snipes Creek	11,000	13,000	14,500	6,500
20	12510200	Corral Canyon Creek	3,400	1,300	3,400	1,000
21	12510500	Yakima River at Kiona	786,000	197,000	757,000	152,000

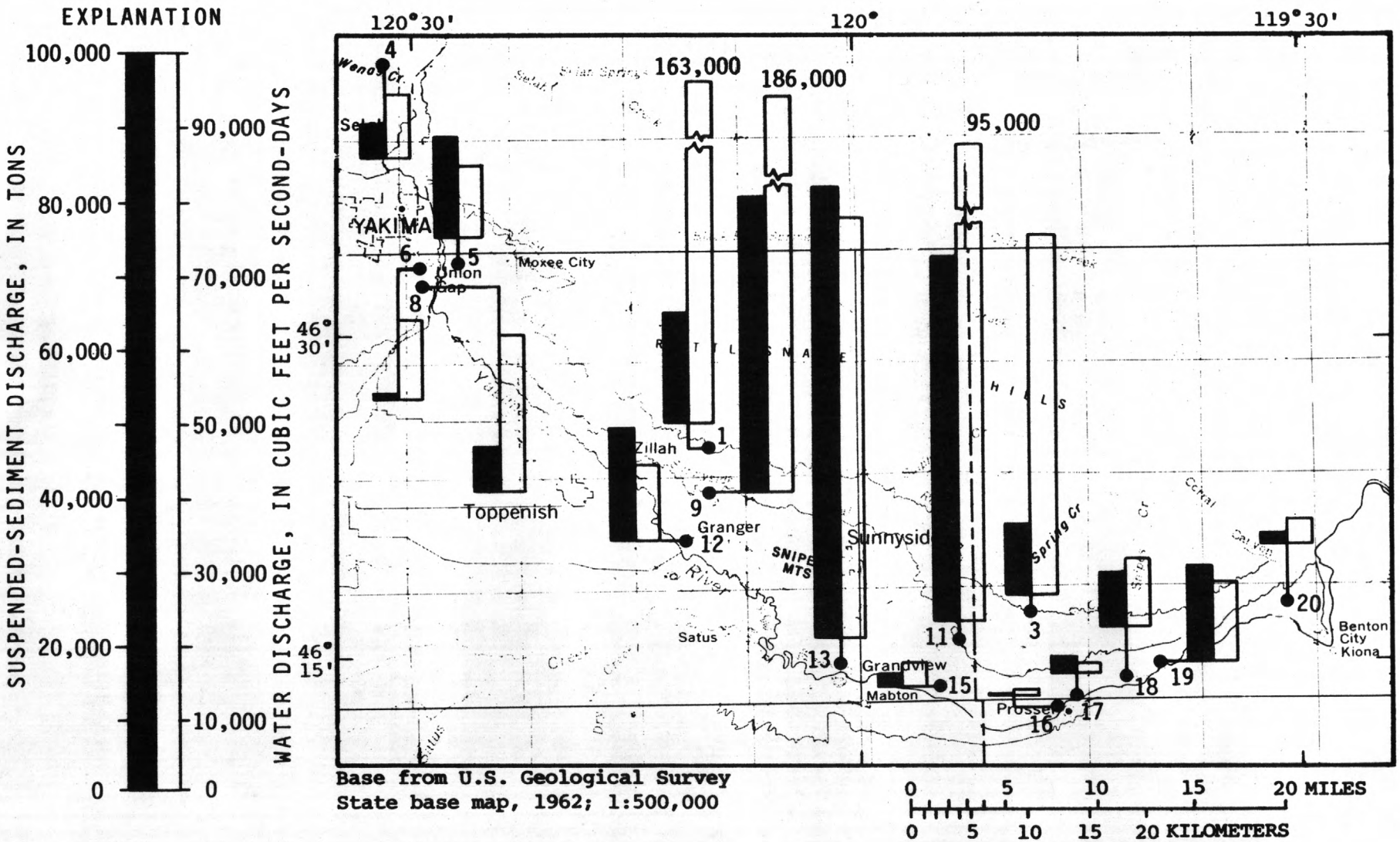


FIGURE 2.--Estimated suspended-sediment and water discharges at selected sites during the 1975 irrigation season. Sampling sites are identified by number as listed in table 1.

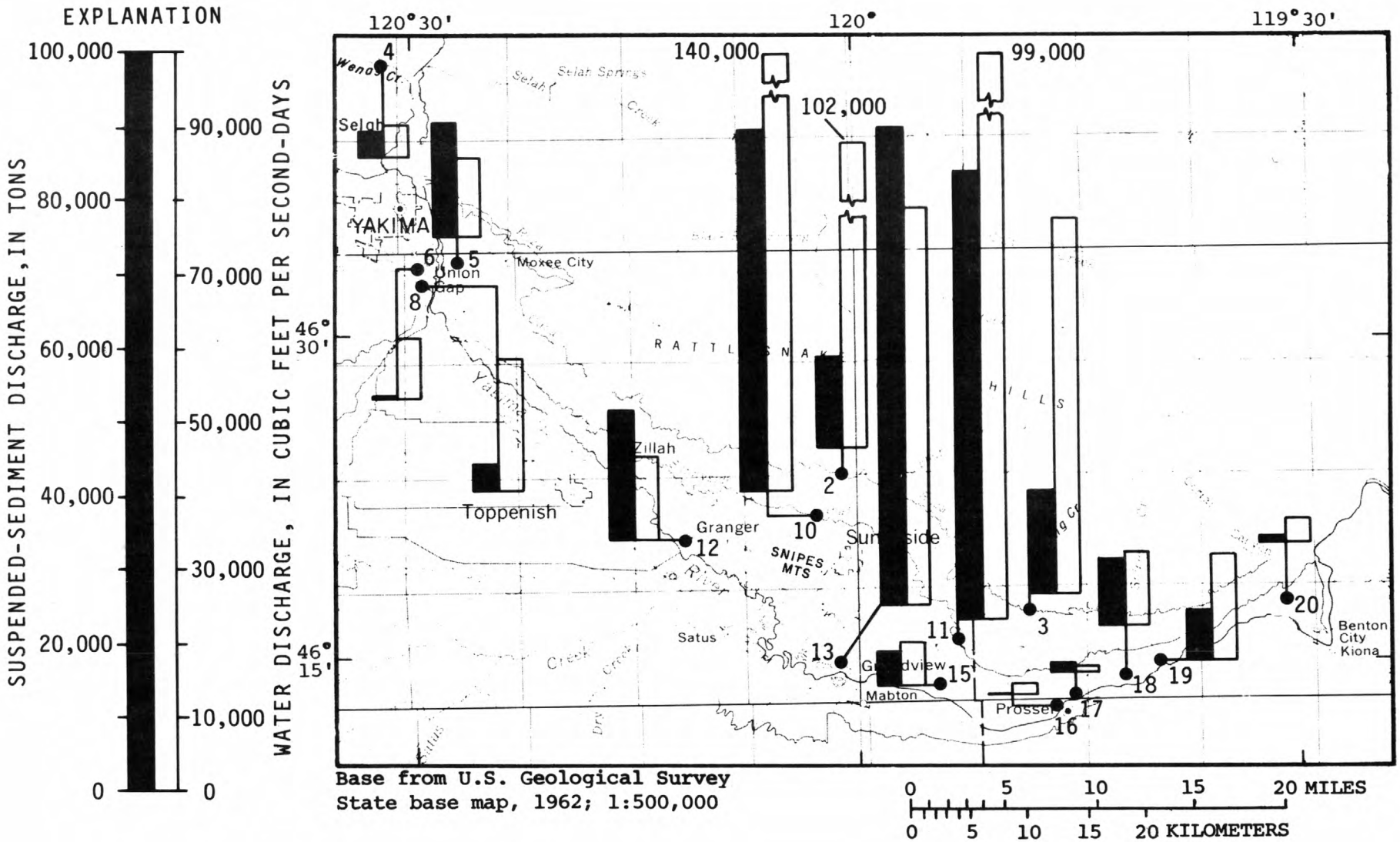


FIGURE 3.--Estimated suspended-sediment and water discharges at selected sites during the 1976 irrigation season. Sampling sites are identified by number as listed in table 1.

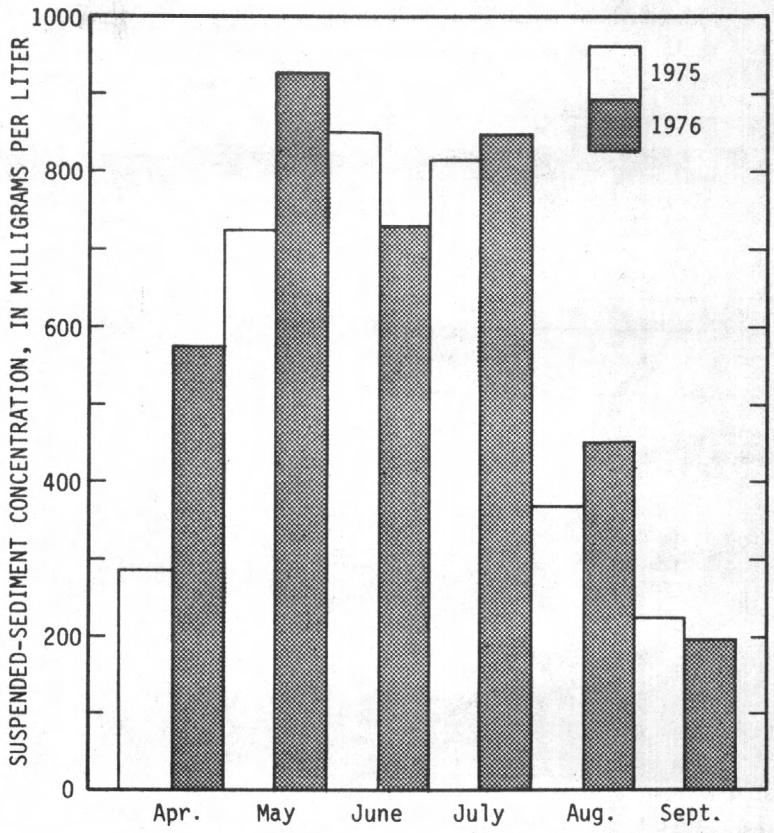


FIGURE 4.--Monthly mean suspended-sediment concentration at site 12 (Granger Drain at Granger), during the 1975 and 1976 irrigation seasons.

RELATIONS OF SUSPENDED-SEDIMENT CONCENTRATION TO WATER DISCHARGE AND TURBIDITY

Water Discharge

Suspended-sediment concentration is poorly related to water discharge, as illustrated in figure 5, for Granger Drain at Granger. That logarithmic relationship is typical of those representing irrigation return flows in the basin. The figure shows a large standard error of estimate--the statistical measure of accuracy of estimates made from a regression equation--for logarithms of the sediment concentration at that site, and it is large for all sites in the basin (table 2). A correlation coefficient of ± 1.00 indicates a perfect correlation, and a value of less than ± 0.80 is often considered representative of a poor relationship. Because the errors of estimate are large and the correlation coefficients small, only rough estimates of suspended-sediment concentration can be made from measurements of water discharge.

Turbidity

Suspended-sediment concentration and turbidity were compared to determine any relationship that would allow suspended-sediment discharge to be estimated from turbidity measurements. As an example, the logarithmic relationship found for Granger Drain at Granger is shown in figure 6. The regression equation for the linear relationship of logarithms of the values also is shown in figure 6, and results of regression analyses for 21 sites are given in table 3.

As indicated by values of the standard error of estimate and the correlation coefficient for the various sites (table 3), the relationships of sediment concentration are, with a few exceptions, generally poor also. Therefore, where accuracy is required, measurement of turbidity is not an acceptable substitute for sampling and measurement of suspended-sediment concentration. Similar conclusions on the relationships were reached by the U.S. Soil Conservation Service (1976, p. 32), which noted that turbidity readings can be affected by factors not directly related to suspended-sediment concentration.

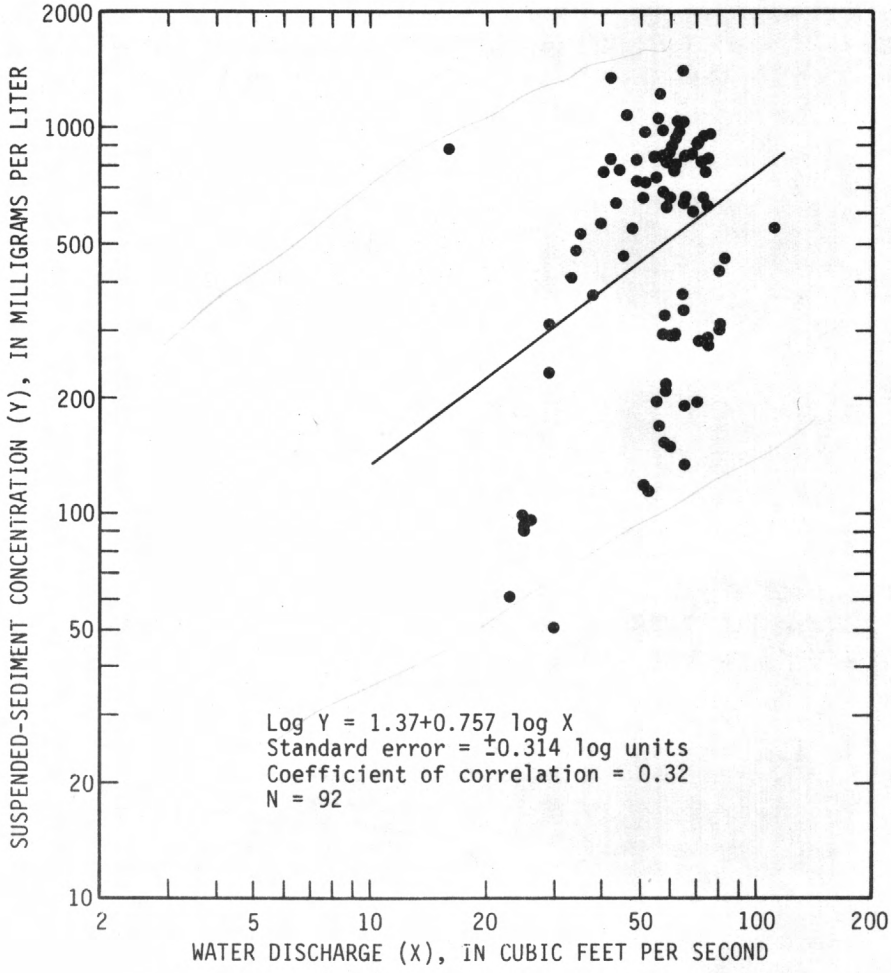


FIGURE 5.--Relation of suspended-sediment concentration to water discharge at site 12 (Granger Drain at Granger), during the 1975 and 1976 irrigation seasons.

TABLE 2.--Summary of regression relationships of suspended-sediment concentration to water discharge at selected sites

[Equation is log Y = a + b log X,

where
Y is suspended-sediment concentration (mg/L),
X is water discharge (ft^3/s), and
N is the number of values used for the relationship]

Site number	Station number	Station name	N	Regression coefficient		Standard error (units of log Y)	Coefficient of correlation
				a	b		
1	12485005	Roza Canal at Beam Rd	42	-3.19	1.57	0.298	0.54
2	12485010	Roza Canal at Scoon Rd	52	-1.46	1.07	.400	.20
3	12485018	Roza Canal at Wilgus Rd	94	-1.31	1.29	.242	.53
4	12485960	Wenas Creek	67	.858	.541	.334	.81
5	12500420	Moxee Drain	80	2.66	.003	.240	.003
6	12500445	Wide Hollow Creek	92	-.329	.599	.273	.29
7	12500450	Yakima River above Ahtanum Creek	90	-2.81	1.17	.238	.69
8	12502500	Ahtanum Creek	92	-.090	.885	.251	.85
9	12504505	Sunnyside Canal at Beam Rd	40	-3.24	1.66	.317	.66
10	12504510	Sunnyside Canal at Maple Grove Rd	52	-8.61	3.69	.210	.73
11	12504518	Sunnyside Canal at Grandview	94	-4.37	2.42	.278	.68
12	12505450	Granger Drain	92	1.37	.757	.314	.32
13	12508850	Sulphur Creek Wasteway	77	.601	.765	.270	.48
14	12508990	Yakima River at Mabton	92	-.586	.648	.168	.71
15	12508997	Grandview Drain	97	2.32	.036	.302	.03
16	12509492	Wamba Drain	79	1.97	-.264	.250	-.35
17	12509496	Shelby Drain	85	1.95	.892	.328	.60
18	12509700	Spring Creek	90	2.85	-.214	.323	-.11
19	12509820	Snipes Creek	92	4.28	-1.08	.390	-.26
20	12510200	Corral Canyon Creek	92	1.21	.528	.234	.42
21	12510500	Yakima River at Kiona	87	-2.09	1.06	.151	.87
		21 sites from this study and 10 sites on Yakima Indian Reservation	2871	1.98	-.044	.557	.07

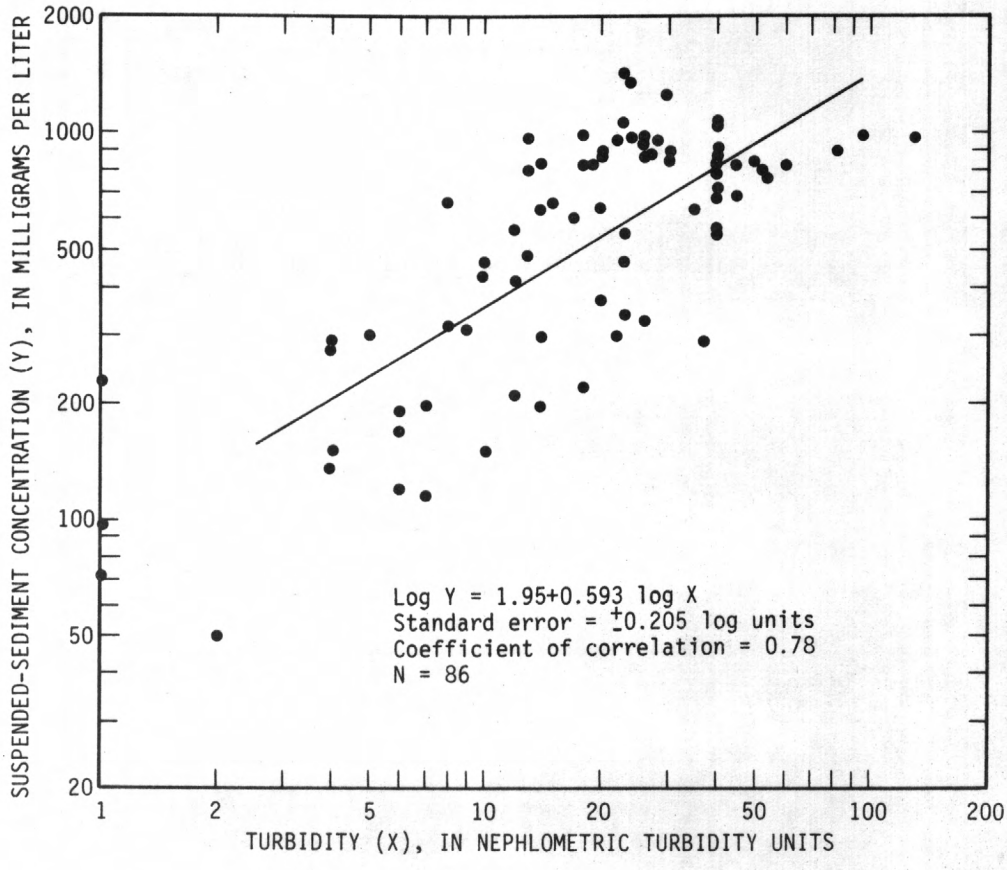


FIGURE 6.--Relation of suspended-sediment concentration to turbidity at site 12 (Granger Drain at Granger), during the 1975 and 1976 irrigation seasons.

TABLE 3.--Summary of regression relationships of suspended-sediment concentration to turbidity at selected sites

[Equation is log Y = a + b log X,
where
Y is suspended-sediment concentration (mg/L)
X is turbidity (NTU), and
N is the number of values used for the relationship]

Site number	Station number	Station name	N	Regression coefficient		Standard error (units of log Y)	Coefficient of correlation
				a	b		
1	12485005	Roza Canal at Beam Rd	41	0.983	0.747	0.206	0.82
2	12485010	Roza Canal at Scoon Rd	52	.943	1.03	.326	.60
3	12485018	Roza Canal at Wilgus Rd	94	1.48	.434	.234	.57
4	12485960	Wenas Creek	70	.644	1.36	.259	.89
5	12500420	Moxee Drain	80	2.13	.434	.180	.66
6	12500445	Wide Hollow Creek	90	1.11	.328	.260	.42
7	12500450	Yakima River above Ahtanum Creek	88	1.05	.794	.183	.83
8	12502500	Ahtanum Creek	90	.872	1.04	.312	.75
9	12504505	Sunnyside Canal at Beam Rd	39	1.07	.816	.236	.83
10	12504510	Sunnyside Canal at Maple Grove Rd	52	1.68	.406	.293	.30
11	12504518	Sunnyside Canal at Grandview	92	1.65	.544	.307	.57
12	12505450	Granger Drain	86	1.95	.593	.205	.78
13	12508850	Sulphur Creek Wasteway	70	1.88	.521	.249	.52
14	12508990	Yakima River at Mabton	89	1.28	.519	.198	.58
15	12508997	Grandview Drain	94	1.91	.410	.260	.52
16	12509492	Wamba Drain	77	1.44	.344	.245	.40
17	12509496	Shelby Drain	83	1.44	.843	.292	.71
18	12509700	Spring Creek	88	1.72	.582	.241	.66
19	12509820	Snipes Creek	91	1.34	.766	.300	.67
20	12510200	Corral Canyon Creek	88	1.54	.389	.241	.40
21	12510500	Yakima River at Kiona	86	1.25	.544	.242	.62
	21 sites from this study and 10 sites on Yakima Indian Reservation		2793	1.07	.940	.378	.74

REFERENCES CITED

Boucher, P. R., 1975, Reconnaissance study of sediment transport by selected streams in the Yakima Indian Reservation, Washington, 1974 water year: U.S. Geological Survey Open-File Report 75-67, 11 p.

Boucher, P. R., and Fretwell, M. O., 1979, Irrigation-water quality during 1977 irrigation season in the Sulphur Creek basin, Yakima and Benton Counties, Washington: Tacoma, Washington, U.S. Geological Survey unpublished report.

Carter, R. W., Davidian, Jacob, 1965a, General procedures for gaging streams: U.S. Geological Survey Techniques of Water Resources Investigations, book 1, chap. 9, 13 p.

-----1965b, Discharge ratings at gaging stations: U.S. Geological Survey Techniques of Water Resources Investigations, book 1, chap. 12, 35 p.

CH_2M Hill, 1975, Characterization of present water quality conditions in the Yakima Basin: Washington Department Ecology Technical Bulletin 10, 37 p.

-----1977, A status report on water quality investigations - Yakima River basin Washington: U.S. Bureau of Reclamation, contract 14-06-100-9158, 111 p.

Guy, H. P., 1969, Laboratory theory and methods for sediment analysis: U.S. Geological Survey Techniques of Water Resources Investigations, book 5, chap. C1, 58 p.

Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chap. C2, 59 p.

Nelson, L. M., 1974, Sediment transport by streams in the upper Columbia River basin, Washington, May 1969-June 1971: U.S. Geological Survey Water Resources Investigations 39-73, 69 p.

-----1979, Sediment transport by irrigation return flows on the Yakima Indian Reservation, Washington: U.S. Geological Survey Open-File Report 78-947, 42 p.

Stansbury, M., and Milhous, R. T., 1975, Water quality aspects of irrigation drainage in the Yakima Basin: Washington Department Ecology, Office Report 34, 22 p.

U.S. Bureau of Reclamation, 1975, Effects of irrigation and storage on water quality, Yakima Project, Washington: Boise, Idaho, 249 p.

U.S. Soil Conservation Service, 1976, Columbia Basin water quality study irrigation blocks 42, 44, 45, 74, and 741: U.S. Department of Agriculture, 32 p.

Welborn, C. T., 1967, Comparative results of sediment sampling with the Texas sampler and the depth-integrating samplers and specific weight of fluvial sediment deposits in Texas: Texas Water Development Board, Report 36, 109 p.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES

12485005: ROZA CANAL AT BEAM ROAD NEAR ZILLAH

LATITUDE 46°24'58" LONGITUDE 120° 9'59"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/19/75	1510	510.	5.5	56.	6.	77.
3/21/75	1610	510.	4.5	31.	3.	43.
3/25/75	1620	530.	6.0	24.	2.	34.
3/27/75	1550	540.	4.0	12.	2.	17.
4/02/75	1200	500.	6.0	11.	1.	15.
4/03/75	1930	490.	6.0	5.	1.	6.6
4/07/75	1555	530.	8.0	4.	2.	5.7
4/09/75	1600	550.	8.0	7.	1.	10.
4/14/75	1555	550.	8.0	10.	2.	15.
4/22/75	1615	1400.	9.0	22.	6.	83.
4/24/75	1620	630.	16.0	24.	6.	41.
4/30/75	0840	630.	9.0	36.	8.	61.
5/02/75	1500	700.	11.0	34.	5.	64.
5/07/75	1400	750.	12.0	41.	--	83.
5/10/75	1450	780.	14.0	39.	5.	82.
5/16/75	1435	820.	12.0	126.	30.	279.
5/18/75	2020	840.	13.0	95.	6.	215.
5/25/75	0930	780.	10.0	68.	10.	143.
5/31/75	1705	950.	16.0	62.	10.	159.
6/05/75	1050	1080.	13.0	81.	10.	236.
6/09/75	1715	1400.	14.0	53.	7.	200.
6/13/75	1035	1050.	16.0	117.	6.	332.
6/18/75	1615	1100.	14.0	33.	6.	98.
6/21/75	1045	1100.	17.0	31.	5.	92.
6/21/75	1045	1100.	17.0	31.	5.	92.
6/24/75	1045	1150.	15.0	36.	7.	112.
6/26/75	1245	1230.	15.0	28.	4.	93.
7/01/75	1050	1090.	16.0	22.	6.	65.
7/03/75	1045	1010.	17.0	27.	6.	74.
7/08/75	1645	1020.	18.0	84.	10.	231.
7/11/75	1745	1050.	20.0	43.	10.	122.
7/17/75	0935	1080.	17.0	26.	4.	76.
7/21/75	1045	1200.	18.6	34.	4.	110.
7/23/75	1045	1070.	19.8	25.	4.	72.
7/25/75	1645	1060.	22.2	30.	5.	86.
7/29/75	1615	1020.	19.2	21.	6.	58.
8/01/75	1730	1000.	18.2	24.	6.	65.
8/05/75	1630	1000.	18.8	25.	4.	67.
8/14/75	1610	670.	16.0	15.	1.	27.
8/19/75	0900	740.	14.5	19.	2.	38.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485005: ROZA CANAL AT BEAM ROAD NEAR ZILLAH

LATITUDE 46°24'58" LONGITUDE 120° 9'59"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/21/75	1200	900.	17.2	26.	1.	63.
8/27/75	1745	800.	16.7	16.	1.	35.
9/04/75	0900	750.	13.9	9.	1.	18.
9/10/75	1025	790.	17.1	16.	1.	34.
9/16/75	1805	980.	16.2	9.	1.	24.
9/25/75	1100	660.	14.2	8.	1.	14.
3/23/76	1230	510.	5.4	16.	--	22.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485010: ROZA CANAL AT SCOON ROAD NEAR SUNNYSIDE

LATITUDE 46*23'25". LONGITUDE 120* 1' 7"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/18/76	1415	351.	8.1	104.	22.	99.
3/22/76	1455	327.	5.8	30.	11.	26.
3/26/76	1255	395.	7.0	54.	15.	58.
3/29/76	1610	375.	7.6	36.	15.	36.
4/02/76	1650	399.	4.4	63.	6.	68.
4/05/76	1520	373.	11.0	19.	3.	19.
4/09/76	1155	382.	8.0	36.	9.	37.
4/13/76	1215	448.	8.4	80.	13.	97.
4/15/76	1020	437.	7.4	44.	6.	52.
4/19/76	1335	395.	10.0	23.	4.	25.
4/22/76	1345	407.	9.4	30.	4.	33.
4/27/76	1125	453.	9.3	52.	4.	64.
4/30/76	1250	433.	11.4	43.	4.	50.
5/03/76	1605	420.	13.2	72.	6.	82.
5/07/76	0905	469.	11.2	83.	6.	105.
5/10/76	1245	535.	12.6	108.	8.	156.
5/13/76	1130	633.	12.0	86.	6.	147.
5/17/76	1130	630.	12.4	70.	4.	119.
5/21/76	0900	595.	10.6	67.	4.	108.
5/24/76	1130	620.	11.7	43.	3.	72.
5/27/76	1155	625.	12.2	77.	3.	130.
6/01/76	1400	600.	11.2	50.	2.	81.
6/03/76	1100	550.	11.3	59.	2.	88.
6/08/76	1030	535.	14.9	7.	2.	10.
6/10/76	1225	575.	14.9	64.	3.	99.
6/14/76	1200	617.	13.4	48.	2.	80.
6/17/76	1130	619.	15.3	47.	2.	79.
6/21/76	1425	623.	17.0	41.	2.	69.
6/24/76	1100	625.	15.0	46.	2.	78.
6/28/76	1200	625.	16.5	74.	2.	125.
7/01/76	1230	600.	15.6	70.	2.	113.
7/06/76	1115	633.	18.6	32.	3.	55.
7/08/76	1145	635.	18.8	34.	2.	58.
7/12/76	1155	680.	16.6	31.	2.	57.
7/16/76	1220	645.	18.5	45.	6.	78.
7/19/76	1400	630.	19.6	38.	6.	65.
7/22/76	1230	630.	18.1	26.	4.	44.
7/26/76	1345	645.	19.2	30.	4.	52.
7/29/76	1115	647.	16.7	33.	7.	58.
8/03/76	1215	660.	16.1	43.	7.	77.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485010: ROZA CANAL AT SCOON ROAD NEAR SUNNYSIDE

LATITUDE 46°23'25" LONGITUDE 120° 1' 7"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/06/76	1400	655.	16.8	36.	4.	64.
8/10/76	1020	675.	16.2	25.	3.	46.
8/12/76	1045	635.	18.6	23.	3.	39.
8/16/76	1315	630.	15.5	20.	3.	34.
8/20/76	1045	590.	15.5	26.	3.	41.
8/24/76	1145	580.	17.5	19.	3.	30.
8/27/76	1215	555.	15.2	12.	2.	18.
8/31/76	1230	550.	17.6	12.	3.	18.
9/02/76	1430	545.	18.1	14.	2.	21.
9/07/76	1300	540.	14.0	10.	2.	15.
9/09/76	1115	555.	13.6	7.	2.	10.
9/15/76	1230	485.	14.6	8.	2.	10.
9/17/76	1315	498.	15.3	7.	2.	9.4
9/20/76	1445	502.	--	4.	1.	5.4
9/23/76	1145	460.	15.8	1.	1.	1.2
9/27/76	1300	440.	16.1	5.	2.	5.9
10/01/76	1230	448.	15.8	2.	2.	2.4
10/04/76	1530	458.	12.4	6.	2.	7.4
10/08/76	1145	425.	13.5	7.	2.	8.0
10/12/76	1445	430.	13.9	5.	2.	5.8
10/15/76	1145	455.	11.1	8.	2.	9.8
10/18/76	1300	465.	9.7	6.	1.	7.5

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485018: ROZA CANAL AT WILGUS ROAD NEAR GRANDVIEW

LATITUDE 46°17'22" LONGITUDE 119°49'48"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/20/75	1455	117.	6.0	139.	--	44.
3/24/75	1515	87.	6.5	146.	6.	34.
3/26/75	1525	96.	5.0	54.	8.	14.
3/28/75	1330	130.	5.0	45.	20.	16.
4/02/75	1015	141.	8.0	23.	3.	8.8
4/04/75	1515	159.	7.0	18.	2.	7.7
4/08/75	1520	175.	9.0	13.	1.	6.1
4/10/75	1510	151.	10.5	16.	3.	6.5
4/15/75	1600	157.	9.5	23.	3.	9.7
4/21/75	1520	177.	11.0	28.	7.	13.
4/23/75	1530	194.	11.0	53.	10.	28.
4/28/75	0945	221.	9.0	83.	20.	50.
5/01/75	1300	300.	12.0	43.	10.	35.
5/05/75	0925	300.	10.0	46.	10.	37.
5/08/75	1655	300.	15.0	65.	10.	53.
5/14/75	1530	300.	13.0	153.	30.	124.
5/18/75	1105	326.	13.0	133.	20.	117.
5/23/75	1030	306.	14.0	135.	30.	112.
5/29/75	1425	326.	12.0	115.	20.	101.
6/01/75	1050	287.	18.0	106.	20.	82.
6/03/75	1030	329.	12.0	108.	20.	96.
6/06/75	1300	348.	18.0	139.	30.	131.
6/10/75	1125	341.	17.0	112.	20.	103.
6/16/75	1300	352.	17.0	118.	20.	112.
6/19/75	1125	359.	15.0	94.	20.	91.
6/23/75	1300	362.	18.0	95.	20.	93.
6/25/75	1400	363.	17.0	67.	10.	66.
6/27/75	1400	371.	15.0	60.	20.	60.
7/02/75	1415	111.	19.0	57.	20.	17.
7/04/75	1400	353.	18.0	89.	20.	85.
7/09/75	1415	337.	19.0	102.	20.	93.
7/12/75	1400	349.	20.0	98.	20.	92.
7/16/75	0915	301.	17.0	74.	10.	60.
7/18/75	0915	303.	18.6	71.	10.	58.
7/22/75	1115	309.	21.8	70.	10.	58.
7/28/75	1130	307.	23.8	62.	10.	51.
7/31/75	1145	300.	18.8	51.	10.	41.
8/04/75	1115	306.	18.8	128.	10.	106.
8/14/75	1330	188.	19.2	59.	4.	30.
8/19/75	1305	77.	18.0	61.	5.	13.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485018: ROZA CANAL AT WILGUS ROAD NEAR GRANDVIEW

LATITUDE 46°17'22" LONGITUDE 119°49'48"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/21/75	0815	316.	16.4	48.	3.	41.
8/26/75	1030	318.	16.5	32.	1.	27.
9/02/75	1015	258.	14.0	31.	2.	22.
9/09/75	1030	232.	17.3	32.	1.	20.
9/17/75	0850	233.	15.5	35.	1.	22.
9/23/75	1010	233.	14.7	25.	1.	16.
3/18/76	1615	160.	8.0	324.	36.	140.
3/23/76	1340	134.	6.3	50.	13.	18.
3/26/76	1000	155.	6.1	86.	19.	36.
3/29/76	1325	180.	13.0	43.	13.	21.
4/02/76	1315	230.	7.4	71.	15.	44.
4/05/76	1715	212.	9.8	34.	4.	19.
4/09/76	1030	187.	9.3	45.	9.	23.
4/13/76	1000	205.	9.4	81.	12.	45.
4/15/76	1005	194.	7.4	72.	7.	38.
4/19/76	1645	197.	10.8	29.	7.	15.
4/22/76	1130	198.	10.0	34.	4.	18.
4/27/76	1350	232.	10.3	97.	6.	61.
4/30/76	1015	234.	11.2	51.	5.	32.
5/03/76	1735	235.	14.4	73.	6.	46.
5/07/76	1125	239.	12.9	80.	9.	52.
5/10/76	1100	235.	13.6	112.	9.	71.
5/13/76	1000	282.	11.9	170.	12.	129.
5/17/76	1000	287.	12.7	175.	6.	136.
5/21/76	1145	292.	12.0	120.	6.	95.
5/24/76	1000	302.	12.5	126.	4.	103.
5/27/76	1315	313.	13.5	155.	4.	131.
6/01/76	1030	315.	11.2	108.	3.	92.
6/03/76	0915	302.	11.5	103.	4.	84.
6/08/76	0845	282.	15.9	90.	3.	69.
6/10/76	1425	290.	18.0	118.	5.	92.
6/14/76	1030	292.	14.1	130.	4.	102.
6/17/76	1000	298.	16.1	131.	3.	105.
6/21/76	1250	302.	18.2	112.	3.	91.
6/24/76	0930	308.	16.0	137.	4.	114.
6/28/76	1030	314.	17.3	157.	3.	133.
7/01/76	1100	306.	16.6	121.	4.	100.
7/06/76	0945	308.	19.6	109.	3.	91.
7/08/76	1015	313.	19.6	136.	3.	115.
7/12/76	1035	312.	17.2	104.	3.	88.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485018: ROZA CANAL AT WILGUS ROAD NEAR GRANDVIEW

LATITUDE 46°17'22" LONGITUDE 119°49'48"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/16/76	1500	315.	22.1	133.	13.	113.
7/19/76	1130	310.	21.0	140.	12.	117.
7/22/76	0945	317.	19.9	145.	16.	124.
7/26/76	1215	329.	20.8	87.	11.	77.
7/29/76	0945	317.	18.2	113.	12.	97.
8/03/76	1515	327.	18.5	130.	12.	115.
8/06/76	1445	328.	19.0	106.	9.	94.
8/10/76	1330	329.	18.8	76.	7.	68.
8/12/76	1305	308.	20.0	63.	4.	52.
8/16/76	1115	315.	16.2	76.	8.	65.
8/20/76	1345	325.	17.5	88.	7.	77.
8/24/76	1545	302.	19.5	50.	6.	41.
8/27/76	1445	292.	17.5	35.	4.	28.
8/31/76	1600	283.	20.0	26.	4.	20.
9/02/76	1130	284.	18.9	31.	2.	24.
9/07/76	1115	275.	16.0	38.	4.	28.
9/09/76	0945	285.	13.6	51.	4.	39.
9/15/76	1045	269.	14.4	33.	3.	24.
9/17/76	1515	260.	--	28.	2.	20.
9/20/76	1145	267.	--	21.	2.	15.
9/23/76	1015	218.	15.6	15.	2.	8.8
9/27/76	1045	235.	16.1	16.	2.	10.
10/01/76	1015	228.	15.5	26.	3.	16.
10/04/76	1345	240.	13.4	28.	3.	18.
10/08/76	0930	225.	12.6	27.	4.	16.
10/12/76	1130	223.	13.5	21.	3.	13.
10/15/76	0945	238.	10.6	21.	3.	13.
10/18/76	1000	246.	8.6	18.	3.	12.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485960: WENAS CREEK AT WENAS ROAD CROSSING NEAR SELAH

LATITUDE 46°30' 2" LONGITUDE 120°31'10"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/03/75	1600	--	8.0	160.	6.	--
3/14/75	1100	79.	3.5	75.	15.	16.
3/19/75	1010	79.	4.0	79.	15.	17.
3/21/75	0855	76.	3.5	--	8.	--
3/25/75	0935	31.	4.0	40.	2.	3.3
3/27/75	0910	30.	2.0	27.	7.	2.2
3/31/75	1110	47.	5.0	111.	20.	14.
4/03/75	0900	68.	4.0	74.	5.	14.
4/07/75	0935	59.	4.0	44.	4.	7.0
4/09/75	1010	78.	5.0	121.	5.	25.
4/14/75	0955	290.	5.5	529.	15.	414.
4/18/75	1010	260.	8.0	336.	--	236.
4/22/75	1010	210.	8.0	175.	20.	99.
4/24/75	1010	183.	8.0	155.	10.	77.
4/29/75	0940	170.	8.0	141.	10.	65.
5/02/75	1025	--	9.0	155.	10.	--
5/06/75	0955	--	10.0	79.	10.	--
5/10/75	1050	--	14.0	89.	10.	--
5/15/75	1925	--	13.0	89.	10.	--
5/18/75	1730	--	14.0	92.	10.	--
5/21/75	1550	80.	--	82.	--	18.
5/24/75	1000	104.	13.0	37.	7.	10.
5/31/75	1010	27.	18.0	37.	7.	2.7
6/01/75	1710	26.	18.0	47.	10.	3.3
6/04/75	1620	26.	12.0	58.	8.	4.1
6/09/75	1225	20.	16.0	35.	4.	1.9
6/11/75	1345	65.	17.0	36.	5.	6.3
6/18/75	1155	15.	17.0	21.	4.	0.9
6/20/75	1550	11.	19.0	13.	4.	0.4
6/24/75	1600	54.	19.0	14.	4.	2.0
6/26/75	1600	8.8	17.0	11.	3.	0.3
7/01/75	1600	6.2	19.0	8.	4.	0.1
7/03/75	1600	4.0	18.0	12.	4.	0.1
7/08/75	1115	27.	19.0	15.	2.	1.1
7/11/75	1115	3.	20.0	--	3.	--
7/21/75	1600	1.1	22.9	14.	3.	0.0
7/25/75	1105	0.8	22.8	28.	4.	0.1
8/01/75	1310	1.1	19.2	6.	2.	0.0
8/13/75	1500	0.2	23.6	28.	1.	0.0
8/19/75	0810	0.9	16.3	9.	2.	0.0

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485960: WENAS CREEK AT WENAS ROAD CROSSING NEAR SELAH

LATITUDE 46°30' 2" LONGITUDE 120°31'10"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
9/05/75	0815	3.5	13.2	35.	2.	0.3
9/12/75	0925	3.2	14.5	9.	1.	0.1
9/19/75	0920	4.8	10.5	10.	2.	0.1
9/25/75	1620	6.0	18.2	20.	2.	0.3
10/20/75	1415	9.0	10.6	3.	1.	0.1
3/03/76	0805	19.	0.6	19.	6.	1.0
3/10/76	0855	14.	5.4	13.	5.	0.5
3/17/76	0810	20.	6.7	57.	22.	3.1
3/23/76	0820	44.	2.7	63.	20.	7.5
3/25/76	1510	41.	7.0	54.	18.	6.0
3/31/76	0945	54.	6.1	199.	39.	29.
4/01/76	1645	54.	8.5	87.	13.	13.
4/05/76	1505	88.	12.5	590.	18.	140.
4/09/76	0950	282.	8.0	763.	31.	581.
4/13/76	0820	166.	7.4	261.	22.	117.
4/15/76	1535	91.	8.7	242.	12.	59.
4/20/76	1520	72.	12.2	108.	8.	21.
4/23/76	0815	54.	6.0	46.	5.	6.7
4/26/76	1615	31.	11.4	46.	5.	3.9
4/29/76	1505	36.	14.0	38.	5.	3.7
5/03/76	1800	47.	15.8	82.	6.	10.
5/06/76	1420	41.	15.0	38.	4.	4.2
5/10/76	1630	45.	13.6	66.	5.	8.0
5/13/76	1645	35.	17.2	37.	5.	3.5
5/17/76	1530	31.	15.2	27.	4.	2.3
5/20/76	1445	19.	16.5	22.	4.	1.1
5/24/76	1600	13.	14.6	25.	2.	0.8
5/27/76	1635	8.8	13.9	22.	2.	0.5
6/02/76	0815	5.4	8.5	6.	1.	0.1
6/03/76	1545	5.4	18.8	9.	2.	0.1
6/07/76	1445	3.5	20.5	9.	2.	0.1
6/11/76	0815	3.9	12.5	9.	2.	0.1
6/15/76	0730	3.9	14.7	9.	2.	0.1
6/25/76	0830	3.0	10.5	7.	2.	0.1
6/28/76	1815	1.3	24.0	4.	2.	0.0
7/06/76	2000	2.2	24.4	4.	1.	0.0
7/13/76	1150	2.8	17.7	6.	1.	0.0
7/20/76	0815	1.	19.2	--	2.	--
7/27/76	0830	2.0	14.2	4.	2.	0.0
8/02/76	1515	1.5	20.8	6.	1.	0.0

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12485960: WENAS CREEK AT WENAS ROAD CROSSING NEAR SELAH

LATITUDE 46°30' 2" LONGITUDE 120°31'10"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/10/76	0830	0.3	16.5	6.	2.	0.0
8/17/76	1645	0.4	18.6	11.	1.	0.0
8/23/76	1700	0.5	19.9	6.	2.	0.0
8/30/76	1900	0.1	21.6	12.	2.	0.0
9/07/76	1915	1.1	15.8	10.	2.	0.0
9/14/76	1100	1.0	14.0	7.	2.	0.0
9/21/76	0800	2.0	--	7.	2.	0.0
9/27/76	1845	1.9	18.7	8.	2.	0.0

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500420: MOXEE DRAIN AT BIRCHFIELD ROAD NEAR UNION GAP

LATITUDE 46°32'46" LONGITUDE 120°26'13"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
5/24/75	1210	54.	16.0	1540.	50.	225.
5/31/75	1235	52.	18.0	801.	50.	112.
6/01/75	1820	58.	20.0	558.	40.	87.
6/04/75	1415	44.	19.0	440.	30.	52.
6/09/75	1330	58.	16.0	478.	30.	75.
6/11/75	1605	51.	18.0	675.	40.	93.
6/18/75	1240	85.	16.0	747.	40.	171.
6/20/75	1345	75.	18.0	474.	30.	96.
6/24/75	1415	77.	18.0	520.	40.	108.
6/26/75	1410	77.	16.0	668.	30.	139.
7/01/75	1410	59.	17.0	646.	30.	103.
7/03/75	1415	73.	19.0	636.	40.	125.
7/08/75	1245	61.	20.0	1730.	40.	285.
7/11/75	1245	54.	19.0	872.	40.	127.
7/15/75	1445	61.	19.0	670.	50.	110.
7/17/75	1305	53.	19.6	632.	45.	90.
7/21/75	1420	65.	21.3	618.	35.	108.
7/25/75	1230	57.	22.6	659.	40.	101.
7/29/75	1045	69.	17.1	411.	35.	77.
8/01/75	1100	63.	17.0	295.	20.	50.
8/05/75	1100	62.	18.4	376.	35.	63.
8/13/75	1230	74.	17.7	307.	11.	61.
8/18/75	1640	54.	18.7	951.	30.	139.
8/21/75	1500	108.	20.2	362.	5.	106.
8/28/75	1150	115.	16.4	261.	4.	81.
9/04/75	1500	74.	18.0	197.	3.	39.
9/11/75	1325	114.	18.4	199.	2.	61.
9/18/75	1805	115.	16.5	149.	3.	46.
9/25/75	1300	102.	15.5	205.	4.	56.
10/20/75	1530	26.	12.1	52.	1.	3.7
3/03/76	0850	9.0	2.8	12.	3.	0.3
3/10/76	1040	9.0	8.2	45.	1.	1.1
3/17/76	0905	12.	7.4	29.	9.	0.9
3/23/76	0850	13.	5.5	78.	27.	2.7
3/25/76	1535	12.	10.3	41.	17.	1.3
3/31/76	0915	37.	8.0	1200.	14.	120.
4/01/76	1600	83.	9.8	404.	12.	91.
4/05/76	1535	34.	15.0	493.	2.	45.
4/09/76	0915	60.	7.8	74.	10.	12.
4/13/76	0845	56.	8.4	336.	15.	51.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500420: MOXEE DRAIN AT BIRCHFIELD ROAD NEAR UNION GAP

LATITUDE 46°32'46" LONGITUDE 120°26'13"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
4/15/76	1605	53.	9.7	266.	8.	38.
4/20/76	1550	73.	13.6	457.	8.	90.
4/23/76	0845	75.	7.2	280.	5.	57.
4/26/76	1650	68.	12.0	240.	5.	44.
4/29/76	1540	54.	15.9	243.	7.	35.
5/04/76	0830	43.	9.8	221.	8.	26.
5/06/76	1445	50.	17.2	384.	10.	52.
5/11/76	0815	74.	9.1	460.	9.	92.
5/13/76	1600	60.	18.1	482.	16.	78.
5/17/76	1500	54.	16.4	346.	11.	50.
5/20/76	1415	36.	17.2	486.	15.	47.
5/24/76	1500	77.	14.2	643.	12.	134.
5/27/76	1445	76.	13.4	542.	9.	111.
6/01/76	1700	76.	15.1	663.	17.	136.
6/03/76	1515	74.	16.9	581.	14.	116.
6/07/76	1430	62.	18.5	462.	12.	77.
6/11/76	0845	75.	12.3	1320.	24.	267.
6/15/76	0800	74.	13.6	577.	18.	115.
6/17/76	1445	73.	20.0	807.	21.	159.
6/21/76	1515	73.	18.3	875.	20.	172.
6/25/76	0845	78.	12.0	756.	18.	159.
6/28/76	2015	73.	21.6	719.	20.	142.
7/01/76	1630	115.	19.3	758.	20.	235.
7/06/76	2030	75.	20.8	654.	22.	132.
7/09/76	0815	81.	16.1	669.	18.	146.
7/13/76	1225	78.	17.4	597.	19.	126.
7/16/76	0730	73.	15.4	759.	16.	150.
7/20/76	0830	73.	16.5	962.	119.	190.
7/22/76	1945	73.	21.8	981.	94.	193.
7/27/76	0845	79.	14.6	733.	108.	156.
7/29/76	1645	74.	21.4	724.	37.	145.
8/02/76	1545	77.	18.6	494.	27.	103.
8/05/76	1600	13.	21.0	483.	39.	17.
8/09/76	1820	18.	20.7	401.	18.	19.
8/17/76	1700	24.	18.7	413.	23.	27.
8/19/76	1600	19.	16.3	413.	20.	21.
8/23/76	1630	17.	20.1	282.	19.	13.
8/26/76	1615	23.	17.6	985.	13.	61.
8/30/76	1915	14.	20.3	298.	18.	11.
9/02/76	1845	13.	19.5	343.	13.	12.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500420: MOXEE DRAIN AT BIRCHFIELD ROAD NEAR UNION GAP

LATITUDE 46°32'46" LONGITUDE 120°26'13"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
9/07/76	1930	78.	16.1	298.	14.	63.
9/09/76	1745	80.	17.2	266.	13.	57.
9/14/76	1145	77.	14.1	196.	11.	41.
9/17/76	1330	80.	16.8	246.	9.	53.
9/20/76	1930	77.	--	334.	11.	69.
9/23/76	1645	76.	17.7	279.	13.	57.
9/28/76	0930	76.	14.3	235.	14.	48.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500445: WIDE HOLLOW CREEK NEAR MOUTH AT UNION GAP

LATITUDE 46°32'19" LONGITUDE 120°28'17"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/12/75	1450	48.	8.5	27.	2.	3.5
3/14/75	0935	38.	7.0	22.	4.	2.3
3/19/75	0930	35.	7.0	14.	2.	1.3
3/21/75	1040	32.	7.0	14.	0.	1.2
3/25/75	1100	31.	6.0	15.	3.	1.3
3/27/75	1040	43.	4.5	18.	2.	2.1
3/31/75	1020	46.	7.0	16.	2.	2.0
4/03/75	1035	65.	--	37.	2.	6.5
4/07/75	1100	74.	7.0	28.	2.	5.6
4/09/75	1140	73.	8.0	35.	1.	6.9
4/14/75	1140	63.	8.5	22.	2.	3.7
4/18/75	1150	60.	11.0	16.	--	2.6
4/22/75	1145	60.	10.0	25.	4.	4.0
4/24/75	1145	52.	10.0	14.	4.	2.0
4/29/75	1120	38.	11.0	12.	5.	1.2
5/02/75	1205	40.	11.0	39.	5.	4.2
5/06/75	1135	60.	12.0	22.	20.	3.6
5/10/75	1235	70.	16.0	43.	--	8.1
5/15/75	1835	93.	14.0	33.	3.	8.3
5/18/75	1920	82.	14.0	59.	10.	13.
5/24/75	1105	80.	13.0	38.	8.	8.2
5/31/75	1120	37.	17.0	37.	4.	3.7
6/01/75	1950	48.	17.0	31.	8.	4.0
6/04/75	1535	38.	18.0	76.	10.	7.8
6/09/75	1505	50.	15.0	44.	6.	5.9
6/11/75	1445	40.	17.0	51.	6.	5.5
6/18/75	1400	44.	15.0	72.	9.	8.6
6/20/75	1500	44.	18.0	25.	5.	3.0
6/24/75	1515	43.	16.0	23.	8.	2.7
6/26/75	1515	32.	16.0	26.	4.	2.2
7/01/75	1515	40.	16.0	25.	5.	2.7
7/03/75	1515	40.	17.0	14.	6.	1.5
7/08/75	1200	33.	18.0	18.	6.	1.6
7/11/75	1205	36.	17.0	113.	6.	11.
7/15/75	1545	36.	17.0	21.	7.	2.0
7/17/75	1405	38.	17.2	6.	3.	0.6
7/21/75	1515	33.	20.4	9.	2.	0.8
7/25/75	1145	27.	19.6	6.	10.	0.4
7/29/75	1145	31.	16.4	22.	3.	1.8
8/01/75	1230	31.	17.2	7.	2.	0.6

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500445: WIDE HOLLOW CREEK NEAR MOUTH AT UNION GAP

LATITUDE 46°32'19" LONGITUDE 120°28'17"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/05/75	1200	31.	18.4	5.	4.	0.4
8/13/75	1135	55.	19.0	13.	1.	1.9
8/18/75	1610	75.	17.8	62.	9.	13.
8/21/75	1615	60.	19.0	26.	4.	4.2
8/27/75	1555	65.	17.4	18.	10.	3.2
9/04/75	1525	75.	16.7	--	3.	--
9/11/75	1130	75.	16.2	14.	6.	2.8
9/19/75	0830	62.	13.0	16.	7.	2.7
9/25/75	1320	62.	16.0	25.	15.	4.2
10/20/75	1700	37.	13.0	7.	--	0.7
3/03/76	1055	18.	6.2	11.	11.	0.5
3/09/76	1610	18.	11.6	2.	22.	0.1
3/17/76	1000	16.	10.0	20.	27.	0.9
3/23/76	0945	16.	7.7	21.	18.	0.9
3/25/76	1635	15.	11.1	21.	26.	0.9
3/31/76	0830	44.	9.0	187.	31.	22.
4/01/76	1530	37.	10.6	48.	29.	4.8
4/05/76	1620	27.	14.5	25.	22.	1.8
4/09/76	0805	38.	8.6	34.	9.	3.5
4/13/76	0935	39.	10.0	32.	9.	3.4
4/15/76	1630	43.	9.6	34.	8.	3.9
4/20/76	1615	43.	12.1	43.	7.	5.0
4/23/76	0945	26.	10.0	30.	8.	2.1
4/26/76	1720	41.	10.8	32.	6.	3.5
4/29/76	1625	37.	14.5	35.	14.	3.5
5/04/76	0915	38.	11.8	31.	6.	3.2
5/06/76	1500	41.	13.7	44.	10.	4.9
5/11/76	0930	52.	10.7	16.	11.	2.2
5/13/76	1530	44.	16.0	31.	9.	3.7
5/20/76	1330	44.	13.0	34.	3.	4.0
5/24/76	1415	48.	13.0	31.	3.	4.0
5/27/76	1605	43.	12.2	19.	2.	2.2
6/01/76	1615	46.	13.0	24.	2.	3.0
6/03/76	1430	48.	13.8	16.	2.	2.1
6/07/76	1345	44.	15.9	12.	2.	1.4
6/11/76	0930	42.	13.3	19.	2.	2.2
6/15/76	0845	35.	13.8	13.	1.	1.2
6/17/76	1400	38.	17.0	9.	1.	0.9
6/21/76	1400	37.	16.4	18.	4.	1.8
6/25/76	1030	37.	13.1	24.	1.	2.4

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500445: WIDE HOLLOW CREEK NEAR MOUTH AT UNION GAP

LATITUDE 46°32'19" LONGITUDE 120°28'17"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
6/28/76	2100	30.	17.7	19.	1.	1.5
7/01/76	1545	38.	15.5	18.	1.	1.8
7/06/76	2115	38.	17.5	14.	1.	1.4
7/09/76	0900	42.	16.0	5.	1.	0.6
7/13/76	1305	42.	16.6	4.	1.	0.5
7/15/76	1515	32.	18.2	12.	4.	1.0
7/20/76	0915	28.	15.9	12.	1.	0.9
7/22/76	2030	26.	17.4	28.	1.	2.0
7/27/76	0930	30.	15.0	6.	3.	0.5
7/29/76	1530	29.	18.0	10.	2.	0.8
8/02/76	1635	32.	17.0	6.	4.	0.5
8/05/76	1515	26.	17.9	7.	9.	0.5
8/09/76	1800	30.	17.8	31.	5.	2.5
8/17/76	1800	43.	16.1	15.	3.	1.7
8/19/76	1515	43.	15.5	15.	2.	1.7
8/23/76	1530	44.	17.8	18.	2.	2.1
8/26/76	1530	53.	16.0	18.	3.	2.6
8/31/76	0800	43.	16.3	11.	2.	1.3
9/02/76	1800	38.	17.5	7.	2.	0.7
9/07/76	2015	45.	15.0	12.	4.	1.5
9/09/76	1830	45.	15.7	23.	4.	2.8
9/14/76	1230	55.	14.5	18.	4.	2.7
9/17/76	1415	68.	16.5	21.	3.	3.9
9/20/76	1900	58.	--	19.	3.	3.0
9/23/76	1615	65.	17.0	20.	2.	3.5
9/27/76	1630	56.	16.3	20.	4.	3.0

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500450: YAKIMA RIVER ABOVE AHTANUM CREEK AT UNION GAP

LATITUDE 46°32' 4" LONGITUDE 120°27'58"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/14/75	0900	3790.	4.0	16.	2.	164.
3/19/75	0840	2900.	3.5	11.	3.	86.
3/21/75	0945	2460.	4.0	13.	3.	86.
3/25/75	1010	2640.	4.0	10.	2.	71.
3/27/75	1010	2480.	3.5	8.	3.	54.
3/31/75	0945	2800.	5.0	32.	4.	242.
4/03/75	0950	2800.	5.0	25.	2.	189.
4/07/75	1020	2560.	6.0	25.	2.	173.
4/09/75	1105	2700.	7.0	41.	1.	299.
4/14/75	1055	4390.	6.5	69.	6.	818.
4/18/75	1100	4430.	10.0	50.	--	598.
4/22/75	1105	4610.	9.0	27.	5.	336.
4/24/75	1100	4500.	9.0	26.	5.	316.
4/29/75	1035	4380.	9.0	31.	7.	367.
5/02/75	1120	4380.	10.0	42.	6.	497.
5/06/75	1045	4690.	10.0	35.	5.	443.
5/10/75	1135	14700.	14.0	182.	--	7220.
5/15/75	1755	14500.	15.0	239.	20.	9350.
5/18/75	1820	12600.	11.0	115.	10.	3910.
5/24/75	1125	13300.	10.0	106.	20.	3800.
5/31/75	1145	10700.	15.0	76.	10.	2190.
6/01/75	1850	12100.	15.0	93.	20.	3030.
6/04/75	1445	10600.	13.0	88.	10.	2510.
6/09/75	1400	8410.	13.0	60.	8.	1360.
6/11/75	1515	8120.	15.0	121.	10.	2650.
6/18/75	1300	7370.	13.0	124.	10.	2460.
6/20/75	1410	7280.	16.0	50.	6.	983.
6/23/75	1430	6490.	16.0	103.	10.	1800.
6/26/75	1435	6200.	14.0	69.	8.	1150.
7/01/75	1430	4160.	15.0	98.	10.	1100.
7/03/75	1430	5050.	17.0	120.	10.	1630.
7/08/75	1305	4730.	17.0	62.	10.	792.
7/11/75	1305	4290.	12.0	126.	6.	1450.
7/15/75	1510	4770.	18.0	62.	8.	798.
7/17/75	1325	3820.	18.4	29.	5.	299.
7/21/75	1445	3980.	21.4	48.	5.	516.
7/25/75	1305	3550.	22.3	48.	10.	460.
7/29/75	1115	3420.	17.2	46.	8.	425.
8/01/75	1145	3550.	17.4	20.	5.	192.
8/05/75	1130	3560.	18.8	23.	8.	221.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500450: YAKIMA RIVER ABOVE AHTANUM CREEK AT UNION GAP

LATITUDE 46°32' 4" LONGITUDE 120°27'58"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/13/75	1255	3210.	18.0	--	1.	--
8/18/75	1620	4590.	17.0	33.	2.	409.
8/21/75	1540	4080.	20.8	15.	1.	165.
9/04/75	1425	3150.	17.0	12.	1.	102.
9/11/75	1300	2350.	17.4	15.	1.	95.
9/18/75	1745	2720.	16.0	12.	1.	88.
9/25/75	1230	2580.	15.4	12.	1.	84.
10/20/75	1600	1730.	11.2	11.	1.	51.
3/03/76	0920	2290.	0.8	5.	3.	31.
3/10/76	1100	2920.	6.0	28.	7.	221.
3/17/76	0930	2520.	6.0	11.	6.	75.
3/23/76	0915	3000.	4.3	10.	6.	81.
3/25/76	1605	2980.	7.0	12.	7.	97.
3/31/76	0845	4400.	7.6	73.	18.	867.
4/01/76	1545	4480.	6.5	30.	5.	363.
4/05/76	1550	4760.	10.4	36.	4.	463.
4/09/76	0850	9470.	6.6	182.	16.	4650.
4/13/76	1010	9720.	7.2	46.	9.	1200.
4/15/76	1740	8360.	6.8	35.	5.	790.
4/20/76	1640	6690.	9.7	37.	3.	668.
4/23/76	0915	6200.	6.8	29.	3.	485.
4/27/76	0805	5400.	7.7	18.	3.	262.
4/29/76	1600	5040.	11.1	14.	3.	191.
5/04/76	0845	9420.	8.6	71.	8.	1800.
5/06/76	1530	7840.	11.6	30.	4.	635.
5/11/76	0900	12500.	7.7	99.	11.	3340.
5/13/76	1600	9640.	11.8	43.	6.	1110.
5/20/76	1400	7330.	10.8	13.	3.	257.
5/24/76	1445	8820.	11.3	29.	3.	691.
5/27/76	1515	8030.	11.4	29.	3.	629.
6/01/76	1645	6720.	11.1	18.	2.	327.
6/03/76	1500	4580.	12.4	23.	2.	284.
6/07/76	1415	3720.	14.9	15.	1.	151.
6/11/76	0900	4800.	11.7	30.	3.	389.
6/15/76	0815	3720.	13.2	20.	2.	201.
6/17/76	1430	5240.	16.2	32.	2.	453.
6/21/76	1440	6470.	14.2	40.	3.	699.
6/25/76	0915	6320.	12.1	33.	3.	563.
6/28/76	2030	5800.	18.0	31.	3.	485.
7/01/76	1615	6060.	14.7	30.	2.	491.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12500450: YAKIMA RIVER ABOVE AHTANUM CREEK AT UNION GAP

LATITUDE 46°32' 4" LONGITUDE 120°27'58"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/06/76	2045	5580.	18.1	21.	2.	316.
7/09/76	0830	7820.	14.9	78.	3.	1640.
7/13/76	1245	5970.	16.6	22.	1.	355.
7/16/76	0825	4020.	16.3	13.	2.	141.
7/20/76	0845	3740.	16.6	35.	5.	353.
7/22/76	2000	3920.	19.5	29.	5.	307.
7/27/76	0900	3680.	14.6	24.	5.	238.
7/29/76	1600	3630.	18.2	17.	4.	167.
8/02/76	1600	4140.	16.3	15.	2.	168.
8/05/76	1545	4000.	18.0	17.	2.	184.
8/09/76	1740	4340.	18.5	13.	2.	152.
8/17/76	1730	4320.	16.8	22.	3.	257.
8/19/76	1545	3680.	15.3	17.	3.	169.
8/23/76	1600	3320.	18.5	15.	2.	134.
8/26/76	1600	3700.	16.3	16.	2.	160.
8/30/76	1930	3550.	19.0	18.	2.	173.
9/02/76	1830	3120.	18.3	16.	2.	135.
9/07/76	1945	3500.	15.6	19.	2.	180.
9/09/76	1800	3320.	16.0	15.	2.	134.
9/14/76	1200	3030.	14.0	13.	3.	106.
9/17/76	1345	3120.	15.9	11.	2.	93.
9/20/76	1915	3080.	--	14.	2.	116.
9/23/76	1630	2850.	17.1	11.	2.	85.
9/27/76	1600	2790.	16.7	15.	2.	113.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12502500: AHTANUM CREEK AT UNION GAP

LATITUDE 46°32' 8" LONGITUDE 120°28'20"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/12/75	1515	145.	7.0	59.	--	23.
3/14/75	1015	123.	5.0	32.	--	11.
3/18/75	0915	129.	5.0	24.	4.	8.4
3/21/75	1015	117.	3.5	33.	2.	10.
3/25/75	1045	104.	6.0	34.	3.	9.5
3/27/75	1025	96.	4.0	12.	3.	3.1
3/31/75	1010	93.	5.5	79.	4.	20.
4/03/75	1020	96.	5.0	11.	1.	2.9
4/07/75	1045	95.	6.5	10.	1.	2.6
4/09/75	1125	92.	6.5	10.	1.	2.5
4/14/75	1125	136.	6.5	60.	3.	22.
4/18/75	1135	151.	9.0	115.	--	47.
4/22/75	1125	122.	9.0	42.	5.	14.
4/24/75	1125	138.	9.0	49.	5.	18.
4/29/75	1105	127.	9.0	54.	7.	19.
5/02/75	1145	84.	10.0	49.	6.	11.
5/06/75	1120	138.	11.0	46.	7.	17.
5/10/75	1210	195.	14.0	149.	10.	78.
5/15/75	1850	333.	13.0	319.	30.	287.
5/18/75	1905	291.	12.0	182.	20.	143.
5/24/75	1045	174.	12.0	94.	10.	44.
5/31/75	1100	240.	16.0	238.	30.	154.
6/01/75	1930	288.	17.0	238.	30.	185.
6/04/75	1520	321.	16.0	212.	20.	184.
6/09/75	1445	230.	13.0	114.	10.	71.
6/11/75	1430	205.	16.0	114.	10.	63.
6/18/75	1340	190.	13.0	82.	10.	42.
6/20/75	1425	185.	16.0	83.	10.	41.
6/24/75	1500	141.	16.0	72.	10.	27.
6/26/75	1455	174.	14.0	54.	8.	25.
7/01/75	1500	75.	16.0	33.	10.	6.7
7/03/75	1500	72.	17.0	45.	10.	8.7
7/08/75	1215	67.	20.0	55.	10.	9.9
7/11/75	1220	50.	19.0	53.	10.	7.2
7/15/75	1600	32.	18.0	26.	5.	2.2
7/17/75	1350	28.	18.8	7.	4.	0.5
7/21/75	1500	18.	22.3	15.	4.	0.7
7/25/75	1200	12.	21.9	8.	2.	0.3
7/29/75	1200	9.0	18.2	9.	4.	0.2
8/01/75	1215	10.	19.4	8.	4.	0.2

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12502500: AHTANUM CREEK AT UNION GAP

LATITUDE 46°32' 8" LONGITUDE 120°28'20"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/05/75	1215	7.0	21.0	12.	6.	0.2
8/13/75	1315	11.	20.4	9.	2.	0.3
8/18/75	1600	33.	18.6	38.	9.	3.4
8/21/75	1600	11.	22.0	43.	2.	1.3
8/28/75	1115	31.	16.4	13.	3.	1.1
9/04/75	1350	29.	17.4	7.	1.	0.5
9/11/75	1110	22.	16.4	7.	1.	0.4
9/18/75	1705	22.	16.7	10.	1.	0.6
9/25/75	1200	24.	15.3	8.	2.	0.5
10/20/75	1620	19.	11.4	7.	1.	0.4
3/03/76	0935	--	2.0	11.	4.	--
3/09/76	1600	72.	9.4	27.	5.	5.2
3/17/76	0940	86.	6.8	24.	7.	5.6
3/23/76	0935	92.	5.4	23.	8.	5.7
3/25/76	1625	89.	8.2	23.	5.	5.5
3/31/76	0815	90.	8.0	38.	3.	9.2
4/01/76	1530	89.	9.0	22.	3.	5.3
4/05/76	1605	99.	13.2	46.	3.	12.
4/09/76	0830	268.	6.8	319.	15.	231.
4/13/76	0950	235.	7.6	104.	6.	66.
4/15/76	1725	195.	9.4	68.	5.	36.
4/20/76	1625	147.	11.8	81.	4.	32.
4/23/76	0930	118.	7.4	45.	3.	14.
4/26/76	1700	98.	11.4	47.	3.	12.
4/29/76	1615	84.	14.7	37.	3.	8.4
5/04/76	0900	322.	10.0	123.	6.	107.
5/06/76	1515	183.	13.9	107.	4.	53.
5/11/76	0915	291.	8.6	176.	10.	138.
5/13/76	1530	275.	14.5	160.	--	119.
5/20/76	1345	190.	12.0	112.	8.	57.
5/24/76	1430	165.	11.8	104.	3.	46.
5/27/76	1555	187.	12.1	80.	4.	40.
6/01/76	1630	149.	13.1	35.	3.	14.
6/03/76	1445	132.	13.2	28.	3.	10.0
6/07/76	1400	115.	15.9	34.	3.	11.
6/11/76	0915	153.	12.0	63.	4.	26.
6/15/76	0830	115.	13.5	41.	3.	13.
6/17/76	1415	153.	17.4	104.	3.	43.
6/21/76	1415	174.	15.5	60.	4.	28.
6/25/76	1015	120.	12.1	32.	3.	10.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12502500: AHTANUM CREEK AT UNION GAP

LATITUDE 46°32' 8" LONGITUDE 120°28'20"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
6/28/76	2045	83.	19.6	31.	4.	6.9
7/01/76	1600	98.	15.8	166.	2.	44.
7/06/76	2100	83.	20.2	31.	4.	6.9
7/09/76	0845	93.	16.3	41.	4.	10.
7/13/76	1315	73.	18.0	27.	5.	5.3
7/15/76	1500	53.	20.9	26.	5.	3.7
7/20/76	0900	33.	17.5	21.	6.	1.9
7/22/76	2030	32.	19.8	23.	3.	2.0
7/27/76	0915	26.	16.1	14.	3.	1.0
7/29/76	1545	21.	20.5	14.	4.	0.8
8/02/76	1625	24.	19.0	13.	3.	0.8
8/05/76	1530	21.	20.6	51.	2.	2.9
8/09/76	1750	27.	21.1	4.	2.	0.3
8/17/76	1745	29.	18.5	15.	3.	1.2
8/19/76	1530	29.	16.2	10.	3.	0.8
8/23/76	1545	23.	20.2	8.	2.	0.5
8/26/76	1545	32.	17.7	11.	2.	1.0
8/30/76	1945	28.	20.4	13.	3.	1.0
9/02/76	1815	22.	19.9	8.	2.	0.5
9/07/76	2000	20.	15.7	11.	3.	0.6
9/09/76	1815	19.	17.4	8.	2.	0.4
9/14/76	1215	16.	14.3	6.	2.	0.3
9/17/76	1400	16.	16.4	13.	2.	0.6
9/20/76	1915	18.	--	10.	2.	0.5
9/23/76	1600	18.	18.6	9.	2.	0.4
9/27/76	1615	18.	17.9	20.	3.	1.0

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12504505: SUNNYSIDE CANAL AT BEAM ROAD NEAR GRANGER

LATITUDE 46°22'39" LONGITUDE 120° 9'59"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/25/75	1550	130.	7.0	21.	3.	7.4
3/27/75	1625	180.	6.0	12.	1.	5.8
4/02/75	1140	295.	7.0	15.	2.	12.
4/07/75	1540	430.	7.0	5.	5.	5.8
4/09/75	1540	480.	8.5	18.	2.	23.
4/14/75	1540	540.	9.5	16.	3.	23.
4/22/75	1600	540.	9.0	21.	7.	31.
4/24/75	1600	620.	11.0	29.	7.	49.
4/30/75	0830	790.	9.0	61.	10.	130.
5/02/75	1440	900.	11.0	65.	10.	158.
5/07/75	1340	1000.	12.0	87.	5.	235.
5/10/75	1425	1000.	15.0	106.	10.	286.
5/16/75	1420	990.	13.0	244.	30.	652.
5/18/75	2100	1150.	13.0	148.	20.	460.
5/25/75	0915	1090.	12.0	142.	20.	418.
5/31/75	1640	1200.	17.0	157.	--	509.
6/05/75	1030	1380.	15.0	189.	20.	704.
6/09/75	1655	1400.	15.0	158.	20.	597.
6/13/75	1015	1600.	12.0	110.	10.	475.
6/18/75	1555	1260.	14.0	165.	20.	561.
6/21/75	1030	1150.	17.0	126.	10.	391.
6/24/75	1030	1300.	15.0	108.	10.	379.
6/26/75	1230	1200.	15.0	87.	9.	282.
7/01/75	1030	570.	16.0	80.	10.	123.
7/03/75	1030	1400.	18.0	95.	10.	359.
7/08/75	1700	1450.	18.0	107.	20.	419.
7/11/75	1730	1240.	19.0	89.	10.	298.
7/17/75	0915	1400.	18.0	97.	8.	367.
7/21/75	1030	1200.	20.6	70.	10.	227.
7/23/75	1700	1080.	21.2	55.	6.	160.
7/25/75	1655	1040.	23.4	49.	8.	138.
7/29/75	1600	1090.	20.6	46.	8.	135.
8/01/75	1715	970.	20.9	33.	6.	86.
8/05/75	1615	1000.	21.2	31.	6.	84.
8/14/75	1000	1000.	19.4	40.	3.	108.
8/19/75	0915	1440.	17.4	57.	5.	222.
8/21/75	1145	1150.	18.8	68.	2.	211.
8/27/75	1725	930.	18.0	20.	1.	50.
9/04/75	0915	1150.	16.0	14.	1.	43.
9/10/75	1000	700.	16.0	11.	1.	21.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12504505: SUNNYSIDE CANAL AT BEAM ROAD NEAR GRANGER

LATITUDE 46*22'39" LONGITUDE 120* 9'59"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
9/16/75	1745	1010.	18.2	12.	1.	33.
9/25/75	1040	990.	15.5	12.	1.	32.
3/31/76	1115	360.	7.2	38.	--	37.
4/01/76	1115	450.	7.8	26.	--	32.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12504510: SUNNYSIDE CANAL AT MAPLE GROVE ROAD NEAR SUNNYSIDE

LATITUDE 46°21'27" LONGITUDE 120° 2'22"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/26/76	1540	150.	8.2	95.	33.	38.
3/29/76	1600	180.	8.3	75.	29.	36.
4/02/76	1630	450.	8.2	54.	18.	66.
4/05/76	1500	500.	10.4	42.	7.	57.
4/09/76	1145	590.	9.4	35.	8.	56.
4/13/76	1225	620.	9.4	53.	11.	89.
4/15/76	1610	580.	8.0	45.	6.	70.
4/19/76	1320	650.	10.6	33.	4.	58.
4/22/76	1400	690.	9.4	57.	5.	106.
4/27/76	1100	696.	9.0	109.	5.	205.
4/30/76	1305	722.	10.6	79.	4.	154.
5/03/76	1550	750.	13.1	92.	6.	186.
5/07/76	0850	770.	10.7	143.	8.	297.
5/10/76	1300	800.	13.0	254.	10.	549.
5/13/76	1145	800.	12.4	236.	13.	510.
5/17/76	1145	820.	12.4	239.	5.	529.
5/21/76	0845	820.	10.2	164.	7.	363.
5/24/76	1145	820.	12.5	162.	6.	359.
5/27/76	1145	820.	12.5	218.	4.	483.
6/01/76	1415	820.	12.0	135.	4.	299.
6/03/76	1115	820.	11.4	132.	4.	292.
6/08/76	1045	780.	15.1	132.	5.	278.
6/10/76	1205	780.	15.6	180.	6.	379.
6/14/76	1215	790.	13.7	154.	3.	328.
6/17/76	1145	800.	15.5	143.	3.	309.
6/21/76	1435	800.	16.3	174.	5.	376.
6/24/76	1115	790.	14.4	177.	4.	378.
6/28/76	1215	790.	16.6	170.	4.	363.
7/01/76	1245	805.	14.4	207.	4.	450.
7/06/76	1130	805.	18.5	150.	4.	326.
7/08/76	1200	800.	18.2	215.	4.	464.
7/12/76	1200	805.	16.0	204.	4.	443.
7/16/76	1150	805.	18.9	130.	16.	283.
7/19/76	1415	815.	19.6	130.	13.	286.
7/22/76	1245	805.	18.6	145.	16.	315.
7/26/76	1400	840.	20.8	477.	17.	1080.
7/29/76	1130	830.	17.9	171.	10.	383.
8/03/76	1200	860.	17.4	138.	14.	320.
8/06/76	1340	860.	18.3	119.	8.	276.
8/10/76	0950	870.	16.7	98.	6.	230.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12504510: SUNNYSIDE CANAL AT MAPLE GROVE ROAD NEAR SUNNYSIDE

LATITUDE 46°21'27" LONGITUDE 120° 2'22"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/12/76	1030	840.	18.7	87.	12.	197.
8/16/76	1345	850.	16.1	98.	7.	225.
8/20/76	1030	790.	15.9	88.	5.	188.
8/24/76	1115	760.	18.2	74.	6.	152.
8/27/76	1315	730.	16.4	56.	4.	110.
8/31/76	1200	740.	18.3	46.	5.	92.
9/02/76	1445	730.	19.7	52.	3.	102.
9/07/76	1330	730.	15.8	50.	4.	99.
9/09/76	1130	710.	14.2	51.	5.	98.
9/15/76	1245	700.	15.6	45.	4.	85.
9/17/76	1300	640.	16.1	42.	3.	73.
9/20/76	1515	640.	--	34.	3.	59.
9/23/76	1200	620.	16.8	22.	3.	37.
9/27/76	1315	610.	16.8	20.	3.	33.
10/01/76	1245	635.	16.5	18.	3.	31.
10/04/76	1545	624.	13.5	17.	4.	29.
10/08/76	1700	620.	14.3	22.	4.	37.
10/12/76	1500	600.	14.4	18.	4.	29.
10/15/76	1200	600.	12.0	21.	4.	34.
10/18/76	1330	600.	10.2	22.	3.	36.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12504518: SUNNYSIDE CANAL AT GRANDVIEW

LATITUDE 46°15'32". LONGITUDE 119°53'25"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/28/75	1010	200.	5.0	23.	9.	12.
4/01/75	1250	200.	8.0	12.	1.	6.5
4/04/75	1155	350.	6.0	17.	2.	16.
4/08/75	1125	350.	7.0	19.	2.	18.
4/10/75	1125	350.	9.0	20.	20.	19.
4/15/75	1140	350.	10.0	39.	1.	37.
4/21/75	1125	370.	11.0	32.	--	32.
4/23/75	1140	400.	10.0	48.	10.	52.
4/28/75	1325	460.	11.0	69.	20.	86.
5/01/75	0940	460.	11.0	88.	20.	109.
5/05/75	1325	490.	11.0	153.	20.	202.
5/08/75	2035	550.	13.0	185.	20.	275.
5/14/75	1905	550.	13.0	252.	20.	374.
5/18/75	1430	560.	13.0	238.	30.	360.
5/23/75	1355	560.	13.0	390.	40.	590.
5/29/75	1800	570.	15.0	220.	30.	339.
6/01/75	1405	570.	--	215.	30.	331.
6/03/75	1405	570.	16.0	337.	40.	519.
6/06/75	1625	570.	15.0	301.	40.	463.
6/10/75	1455	570.	12.0	258.	30.	397.
6/16/75	1635	570.	16.0	236.	50.	363.
6/19/75	1505	570.	15.0	286.	20.	440.
6/23/75	1715	570.	17.0	184.	30.	283.
6/25/75	1330	570.	16.0	304.	30.	468.
6/27/75	1330	570.	14.0	256.	30.	394.
7/02/75	1345	550.	13.0	219.	20.	325.
7/04/75	1330	570.	18.0	265.	--	408.
7/09/75	1345	600.	19.0	229.	10.	371.
7/12/75	1045	600.	20.0	258.	30.	418.
7/16/75	0845	600.	17.0	286.	30.	463.
7/18/75	0845	600.	18.2	329.	30.	533.
7/22/75	1045	600.	20.8	346.	30.	561.
7/28/75	1100	610.	23.1	206.	20.	339.
7/31/75	1120	600.	18.4	249.	15.	403.
8/04/75	1045	610.	19.8	387.	15.	637.
8/14/75	1310	590.	20.0	271.	8.	432.
8/19/75	1345	570.	18.6	197.	5.	303.
8/21/75	0800	570.	17.4	161.	4.	248.
8/26/75	1005	500.	17.0	85.	2.	115.
9/02/75	0900	480.	15.6	76.	3.	98.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12504518: SUNNYSIDE CANAL AT GRANDVIEW

LATITUDE 46°15'32" LONGITUDE 119°53'25"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
9/09/75	1000	480.	18.5	47.	1.	61.
9/16/75	1525	490.	18.6	53.	2.	70.
9/23/75	0945	470.	15.4	33.	2.	42.
3/26/76	1030	50.	7.1	10.	6.	1.3
4/02/76	1045	155.	8.2	403.	38.	169.
4/05/76	1730	200.	10.9	26.	9.	14.
4/09/76	1015	340.	10.7	36.	7.	33.
4/13/76	0945	380.	10.4	50.	13.	51.
4/15/76	1050	427.	8.4	83.	8.	96.
4/19/76	1620	465.	10.3	74.	6.	93.
4/22/76	1115	480.	10.0	107.	5.	139.
4/27/76	1330	500.	10.6	200.	7.	270.
4/30/76	0950	495.	10.6	170.	5.	227.
5/03/76	1750	515.	14.4	210.	6.	292.
5/07/76	1105	550.	12.6	252.	15.	374.
5/10/76	1045	590.	14.0	346.	9.	551.
5/13/76	0945	590.	12.6	389.	18.	620.
5/17/76	0945	600.	12.7	376.	6.	609.
5/21/76	1130	610.	11.8	337.	13.	555.
5/24/76	0945	610.	13.0	277.	6.	456.
5/27/76	1330	610.	11.6	302.	10.	497.
6/01/76	1015	610.	11.2	256.	6.	422.
6/03/76	0900	590.	12.0	220.	5.	350.
6/08/76	0815	560.	16.5	229.	7.	346.
6/10/76	1410	560.	17.3	276.	9.	417.
6/14/76	1015	580.	14.7	241.	5.	377.
6/17/76	0945	590.	15.8	271.	4.	432.
6/21/76	1035	590.	16.4	324.	7.	516.
6/24/76	0915	580.	15.6	319.	11.	500.
6/28/76	1015	580.	17.0	311.	7.	487.
7/01/76	1045	580.	16.2	285.	6.	446.
7/06/76	0930	580.	19.6	388.	7.	608.
7/08/76	1000	585.	19.4	314.	6.	496.
7/12/76	1020	585.	16.4	256.	5.	404.
7/16/76	1445	580.	20.7	246.	24.	385.
7/19/76	1100	600.	20.3	240.	24.	389.
7/22/76	0930	590.	19.9	262.	26.	417.
7/26/76	1200	620.	21.5	776.	18.	1290.
7/29/76	0930	610.	19.0	278.	23.	458.
8/03/76	1450	620.	19.0	227.	19.	380.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12504518: SUNNYSIDE CANAL AT GRANDVIEW

LATITUDE 46°15'32" LONGITUDE 119°53'25"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/06/76	1415	620.	19.1	533.	13.	892.
8/10/76	1350	650.	18.6	139.	8.	244.
8/12/76	1245	620.	20.4	144.	16.	241.
8/16/76	1100	620.	16.8	188.	9.	315.
8/20/76	1330	570.	17.9	133.	9.	205.
8/24/76	1515	545.	19.6	117.	9.	172.
8/27/76	1430	520.	17.9	97.	12.	136.
8/31/76	1530	520.	20.3	111.	6.	156.
9/02/76	1145	510.	19.7	125.	5.	172.
9/07/76	1100	510.	16.9	92.	8.	127.
9/09/76	0930	500.	15.0	91.	14.	123.
9/15/76	1030	490.	15.7	70.	8.	93.
9/17/76	1500	430.	--	50.	4.	58.
9/20/76	1100	430.	--	58.	4.	67.
9/23/76	1000	430.	16.7	46.	3.	53.
9/27/76	1100	420.	17.1	52.	5.	59.
10/01/76	1030	460.	16.5	33.	5.	41.
10/04/76	1330	488.	14.7	29.	4.	38.
10/08/76	0945	455.	13.5	31.	5.	38.
10/12/76	1200	435.	14.0	24.	5.	28.
10/15/76	1000	425.	11.7	21.	5.	24.
10/18/76	1030	425.	9.7	19.	3.	22.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12505450: GRANGER DRAIN AT GRANGER

LATITUDE 46°20'37" LONGITUDE 120°11' 9"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/17/75	0820	26.	9.5	98.	3.	6.9
3/20/75	0820	25.	8.5	75.	10.	5.1
3/24/75	0835	25.	9.0	68.	2.	4.6
3/26/75	0830	23.	8.5	58.	--	3.6
4/02/75	1250	26.	10.5	72.	1.	5.1
4/04/75	0820	26.	9.0	98.	1.	6.9
4/15/75	0830	29.	10.0	232.	1.	18.
4/21/75	0820	35.	9.0	530.	--	50.
4/23/75	0835	38.	10.0	372.	20.	38.
5/01/75	0820	44.	10.0	786.	40.	93.
5/02/75	0835	46.	11.0	1080.	40.	134.
5/08/75	1425	40.	17.0	776.	40.	84.
5/18/75	0830	49.	15.0	728.	40.	96.
5/18/75	1535	51.	15.0	568.	40.	78.
5/24/75	1605	48.	14.0	545.	40.	71.
5/31/75	0830	55.	17.0	648.	--	96.
6/06/75	1030	62.	12.0	812.	60.	136.
6/09/75	1030	68.	15.0	851.	--	156.
6/11/75	1940	51.	20.0	713.	40.	98.
6/16/75	1030	64.	15.0	1040.	40.	180.
6/18/75	1015	72.	15.0	816.	40.	159.
6/23/75	1030	58.	18.0	839.	50.	131.
6/24/75	1015	62.	17.0	859.	40.	144.
6/26/75	1315	57.	16.0	844.	30.	130.
7/01/75	1115	16.	16.0	899.	40.	39.
7/03/75	1115	56.	18.0	1240.	30.	187.
7/04/75	1510	23.	13.5	62.	--	3.9
7/08/75	1615	49.	19.0	817.	50.	108.
7/11/75	1700	62.	21.0	1040.	40.	174.
7/17/75	0955	67.	16.6	867.	40.	157.
7/21/75	1100	58.	19.8	618.	--	97.
7/23/75	1300	60.	21.8	675.	40.	109.
7/25/75	1630	55.	24.1	814.	45.	121.
7/29/75	1545	57.	20.1	686.	45.	106.
8/05/75	1600	68.	22.2	--	45.	--
8/14/75	1025	71.	--	661.	15.	127.
8/19/75	0930	82.	15.6	460.	10.	102.
8/21/75	1125	80.	18.0	425.	10.	92.
8/25/75	1630	80.	20.4	303.	--	65.
8/28/75	1020	80.	16.4	315.	8.	68.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12505450: GRANGER DRAIN AT GRANGER

LATITUDE 46°20'37". LONGITUDE 120°11' 9"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
9/04/75	0930	80.	13.8	300.	5.	65.
9/10/75	1045	75.	15.6	274.	4.	55.
9/11/75	1015	70.	16.0	288.	4.	54.
9/16/75	1830	65.	16.4	191.	6.	34.
9/18/75	1615	70.	17.8	197.	7.	37.
9/22/75	1715	60.	18.2	151.	4.	24.
9/25/75	1120	65.	14.5	135.	4.	24.
10/21/75	0840	60.	11.4	275.	7.	45.
3/03/76	1425	25.	11.0	94.	5.	6.3
3/09/76	1505	26.	13.7	73.	3.	5.1
3/17/76	1215	25.	12.9	89.	7.	6.0
3/22/76	1450	25.	12.0	104.	20.	7.0
3/25/76	1330	26.	12.0	257.	60.	18.
3/30/76	1600	23.	14.8	99.	6.	6.1
4/01/76	1145	25.	12.6	100.	3.	6.7
4/05/76	1300	30.	15.7	51.	2.	4.1
4/08/76	1450	33.	12.7	416.	12.	37.
4/12/76	1530	29.	13.0	310.	9.	24.
4/15/76	1335	40.	13.0	561.	12.	61.
4/20/76	1305	34.	15.0	481.	13.	44.
4/23/76	1130	43.	12.0	638.	14.	74.
4/26/76	1450	42.	13.8	1340.	24.	152.
4/29/76	1300	42.	15.1	820.	18.	93.
5/04/76	1045	51.	12.9	981.	13.	135.
5/06/76	1155	55.	14.0	1060.	23.	157.
5/11/76	1015	57.	12.1	993.	18.	153.
5/14/76	0830	53.	11.1	884.	27.	127.
5/20/76	1245	60.	15.2	856.	20.	139.
5/25/76	0900	62.	10.4	807.	13.	135.
5/28/76	0915	70.	10.7	921.	26.	174.
6/02/76	0930	76.	10.9	967.	26.	198.
6/04/76	0915	62.	12.1	957.	24.	160.
6/07/76	1300	64.	17.7	835.	14.	144.
6/11/76	1015	110.	13.7	548.	23.	163.
6/14/76	1415	65.	18.3	656.	8.	115.
6/18/76	0945	64.	15.4	1400.	23.	242.
6/21/76	1235	74.	18.0	287.	37.	57.
6/25/76	1115	74.	14.3	826.	19.	165.
6/29/76	0915	67.	16.4	888.	30.	161.
7/01/76	1530	62.	18.8	945.	22.	158.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12505450: GRANGER DRAIN AT GRANGER

LATITUDE 46*20'37" LONGITUDE 120*11' 9"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/07/76	1000	72.	17.3	946.	28.	184.
7/09/76	1000	70.	16.7	860.	26.	163.
7/13/76	1425	68.	20.2	602.	17.	111.
7/15/76	1405	64.	20.8	637.	20.	110.
7/20/76	1015	58.	17.6	961.	130.	150.
7/23/76	0915	60.	16.8	895.	82.	145.
7/27/76	1030	60.	16.0	986.	95.	160.
7/30/76	0930	62.	17.4	796.	52.	133.
8/02/76	1415	74.	20.6	632.	35.	126.
8/05/76	1400	74.	21.8	763.	54.	152.
8/09/76	1640	45.	21.8	464.	23.	56.
8/17/76	1245	64.	17.6	374.	20.	65.
8/19/76	1330	58.	16.3	294.	14.	46.
8/23/76	1415	57.	20.6	296.	22.	46.
8/26/76	1430	65.	17.7	340.	23.	60.
8/30/76	1545	62.	20.4	295.	22.	49.
9/03/76	1000	58.	15.1	324.	26.	51.
9/08/76	0930	58.	12.4	220.	18.	34.
9/09/76	1430	57.	16.6	208.	12.	32.
9/14/76	1330	55.	15.0	197.	14.	29.
9/17/76	1245	56.	15.6	170.	6.	26.
9/20/76	1815	51.	--	121.	6.	17.
9/23/76	1500	53.	18.2	117.	7.	17.
9/28/76	1100	57.	15.4	152.	10.	23.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508850: SULPHUR CREEK WASTEWAY NEAR SUNNYSIDE

LATITUDE 46°15' 3" LONGITUDE 120° 1' 7"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/04/75	1030	70.	8.5	80.	--	15.
3/11/75	1525	65.	11.5	40.	--	7.0
3/17/75	1210	214.	8.5	1230.	5.	711.
3/20/75	1010	--	5.0	821.	20.	--
3/20/75	1600	--	6.0	47.	20.	--
3/21/75	1025	123.	6.0	351.	--	117.
3/24/75	1605	--	7.0	260.	3.	--
3/26/75	1040	195.	6.0	304.	10.	160.
3/26/75	1605	--	6.0	22.	10.	--
3/28/75	0915	--	4.5	188.	8.	--
3/28/75	1430	--	5.5	34.	8.	--
4/01/75	1005	128.	7.0	69.	8.	24.
4/04/75	1105	75.	6.5	64.	2.	13.
4/08/75	1030	53.	7.0	57.	2.	8.2
4/10/75	1440	52.	10.0	38.	4.	5.3
4/12/75	1025	112.	8.0	92.	--	28.
4/15/75	1050	241.	9.5	100.	15.	65.
4/21/75	1030	239.	10.0	102.	--	66.
4/23/75	1040	--	10.0	175.	20.	--
4/28/75	1425	208.	12.0	193.	--	108.
4/30/75	1115	112.	11.0	226.	--	68.
5/05/75	1425	--	11.0	265.	50.	--
5/07/75	1625	--	15.0	430.	40.	--
5/14/75	2000	--	17.0	248.	40.	--
5/16/75	1700	--	17.0	186.	30.	--
5/23/75	1505	--	16.0	234.	40.	--
5/25/75	1200	--	15.0	282.	50.	--
5/29/75	1900	280.	18.0	428.	--	324.
5/31/75	1930	--	18.0	318.	40.	--
6/03/75	1505	--	19.0	140.	20.	--
6/05/75	1315	--	18.0	502.	20.	--
6/10/75	1555	--	20.0	492.	30.	--
6/13/75	1305	--	18.0	636.	30.	--
6/19/75	1600	--	16.0	769.	40.	--
6/21/75	1315	--	17.0	430.	40.	--
7/22/75	1515	537.	21.8	621.	--	900.
7/28/75	1530	365.	22.1	651.	--	642.
7/31/75	1545	445.	20.8	593.	--	712.
8/04/75	1515	481.	21.2	801.	--	1040.
8/14/75	1155	400.	18.0	505.	--	545.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508850: SULPHUR CREEK WASTEWAY NEAR SUNNYSIDE

LATITUDE 46°15' 3" LONGITUDE 120° 1' 7"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/19/75	1010	380.	16.4	441.	--	452.
8/20/75	1310	376.	18.0	324.	--	329.
8/26/75	0805	457.	14.8	226.	--	279.
8/28/75	0900	418.	16.2	181.	--	204.
9/02/75	1415	445.	17.2	111.	--	133.
9/09/75	0900	330.	14.4	146.	--	130.
9/11/75	0905	280.	16.4	175.	--	132.
9/16/75	1435	258.	17.7	164.	--	114.
9/18/75	0800	288.	13.1	192.	--	149.
9/23/75	0900	369.	13.8	133.	--	133.
9/25/75	0930	320.	14.0	111.	--	96.
10/21/75	1645	227.	11.6	335.	--	205.
3/02/76	1410	60.	8.4	24.	4.	3.9
3/09/76	1310	67.	11.5	32.	4.	5.8
3/16/76	1435	59.	12.2	25.	3.	4.0
3/18/76	1200	205.	9.1	341.	23.	189.
3/22/76	1630	153.	8.0	107.	13.	44.
3/26/76	1630	639.	8.6	532.	35.	918.
3/29/76	1710	379.	9.4	142.	23.	145.
4/02/76	1535	449.	10.0	203.	18.	246.
4/05/76	1100	429.	9.6	131.	12.	152.
4/09/76	1540	284.	10.5	227.	17.	174.
4/12/76	1415	320.	11.5	145.	17.	125.
4/15/76	1435	251.	10.3	223.	7.	151.
4/19/76	1100	223.	10.7	277.	12.	167.
4/22/76	1630	177.	13.8	257.	11.	123.
4/27/76	0950	265.	9.8	275.	10.	197.
4/30/76	1210	218.	16.1	326.	13.	192.
5/03/76	1430	164.	16.9	286.	11.	127.
5/07/76	0735	191.	11.4	502.	28.	259.
5/10/76	1500	223.	15.0	743.	19.	447.
5/13/76	1430	338.	17.4	556.	18.	507.
5/17/76	1345	296.	15.4	553.	13.	442.
5/21/76	1115	285.	12.6	591.	23.	455.
5/24/76	1330	314.	14.3	585.	12.	496.
5/27/76	1025	317.	14.0	610.	16.	522.
6/01/76	1435	418.	13.4	520.	12.	587.
6/03/76	1245	330.	14.1	530.	13.	472.
6/08/76	2200	270.	16.7	661.	18.	482.
6/09/76	2200	274.	17.4	659.	17.	488.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508850: SULPHUR CREEK WASTEWAY NEAR SUNNYSIDE

LATITUDE 46°15' 3" LONGITUDE 120° 1' 7"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
6/14/76	1345	355.	16.7	575.	10.	551.
6/17/76	1315	290.	17.9	602.	10.	471.
6/21/76	1620	260.	19.2	577.	10.	405.
6/24/76	1345	278.	17.9	602.	19.	452.
6/28/76	1345	280.	19.3	584.	10.	442.
7/01/76	1430	251.	17.4	502.	10.	340.
7/06/76	1300	302.	20.2	691.	15.	563.
7/08/76	1345	320.	21.0	704.	15.	608.
7/12/76	1415	394.	19.2	572.	12.	608.
7/16/76	1040	320.	18.0	--	27.	--
7/19/76	1600	260.	22.0	506.	27.	355.
7/22/76	1515	218.	20.2	491.	36.	289.
7/26/76	1700	218.	23.7	429.	23.	253.
7/29/76	1450	255.	19.4	594.	30.	409.
8/03/76	0900	317.	17.0	499.	29.	427.
8/06/76	0900	338.	17.2	426.	31.	389.
8/10/76	2100	355.	18.4	376.	23.	360.
8/11/76	2100	357.	19.3	422.	26.	407.
8/16/76	1530	397.	17.6	507.	23.	543.
8/20/76	0915	352.	16.1	328.	16.	312.
8/24/76	0945	305.	17.1	361.	23.	297.
8/27/76	1100	352.	15.7	277.	15.	263.
8/31/76	1045	344.	17.3	262.	13.	243.
9/02/76	1600	305.	20.4	269.	13.	222.
9/07/76	1515	341.	17.1	237.	15.	218.
9/09/76	1315	433.	15.6	307.	14.	359.
9/15/76	1415	362.	17.4	202.	10.	197.
9/17/76	1200	414.	16.0	193.	6.	216.
9/20/76	1700	425.	--	203.	8.	233.
9/23/76	1345	362.	17.5	140.	6.	137.
9/27/76	1500	330.	17.5	173.	7.	154.
10/01/76	1400	299.	16.3	152.	10.	123.
10/04/76	1730	327.	14.6	202.	8.	178.
10/08/76	1315	311.	14.1	159.	6.	134.
10/12/76	1615	320.	15.5	179.	8.	155.
10/15/76	1315	344.	12.0	198.	10.	184.
10/18/76	1530	366.	11.5	184.	8.	182.
10/22/76	1400	162.	11.5	94.	7.	41.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508990: YAKIMA RIVER AT MABTON

LATITUDE 46°13'53" LONGITUDE 119°59'54"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/11/75	1500	5410.	7.0	54.	--	789.
3/17/75	1145	4740.	--	40.	5.	512.
3/20/75	1055	4190.	6.0	44.	4.	498.
3/24/75	1010	3670.	6.5	34.	6.	337.
3/26/75	1015	3510.	6.5	76.	5.	720.
3/28/75	0845	3010.	4.5	29.	5.	236.
4/01/75	0940	3190.	7.0	28.	5.	241.
4/04/75	1020	3010.	6.5	34.	2.	276.
4/08/75	1000	2700.	8.5	24.	4.	175.
4/10/75	0955	2620.	9.0	25.	2.	177.
4/15/75	1015	4440.	8.5	48.	3.	575.
4/21/75	0955	4650.	10.0	56.	--	703.
4/23/75	1010	4160.	11.0	41.	8.	461.
4/28/75	1455	4470.	11.0	79.	10.	953.
4/30/75	1140	3550.	12.0	37.	10.	355.
5/05/75	1500	4550.	11.0	67.	9.	823.
5/07/75	1655	3440.	14.0	45.	8.	418.
5/14/75	2035	9270.	13.0	166.	20.	4150.
5/16/75	1735	12600.	12.0	205.	30.	6970.
5/23/75	1535	11500.	13.0	108.	20.	3350.
5/25/75	1230	11900.	12.0	70.	20.	2240.
5/29/75	1925	8030.	15.0	77.	10.	1660.
5/31/75	2000	8530.	13.0	78.	20.	1790.
6/03/75	1525	12200.	15.0	156.	20.	5130.
6/05/75	1345	9360.	15.0	102.	30.	2570.
6/10/75	1625	6510.	16.0	94.	10.	1650.
6/13/75	1335	6650.	17.0	78.	10.	1400.
6/19/75	1625	5390.	16.0	80.	--	1160.
6/21/75	1345	5470.	17.0	62.	10.	916.
6/25/75	1230	4830.	16.0	50.	10.	652.
6/28/75	1230	4460.	15.0	66.	--	795.
7/02/75	1250	2150.	18.0	63.	10.	366.
7/04/75	1230	3100.	18.0	57.	20.	477.
7/09/75	1245	4510.	19.0	66.	10.	804.
7/12/75	1315	4160.	19.0	54.	10.	607.
7/16/75	1315	2590.	19.0	73.	10.	510.
7/18/75	1305	1850.	19.9	34.	10.	170.
7/22/75	1545	1740.	22.9	38.	10.	179.
7/28/75	1600	1240.	24.6	42.	10.	141.
7/31/75	1615	1560.	20.6	46.	10.	194.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508990: YAKIMA RIVER AT MABTON

LATITUDE 46°13'53" LONGITUDE 119°59'54"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/04/75	1545	1630.	22.4	51.	10.	224.
8/14/75	1130	1320.	20.8	37.	7.	132.
8/19/75	1025	3090.	19.1	53.	5.	442.
8/20/75	1330	2860.	19.6	59.	6.	456.
8/26/75	0900	3190.	17.4	38.	3.	327.
9/02/75	1445	2710.	17.4	24.	3.	176.
9/09/75	1430	2070.	19.4	19.	2.	106.
9/16/75	1400	1680.	19.0	24.	2.	109.
9/23/75	1400	1960.	17.0	23.	2.	122.
3/02/76	1440	3170.	4.6	32.	3.	274.
3/09/76	1325	2450.	7.9	4.	4.	26.
3/16/76	1510	3000.	8.8	13.	6.	105.
3/22/76	1235	3990.	6.9	27.	7.	291.
3/25/76	1040	3600.	7.6	198.	24.	1920.
3/30/76	1345	3720.	9.0	24.	10.	241.
4/01/76	1000	5180.	7.4	71.	6.	993.
4/05/76	1105	3510.	10.4	53.	3.	502.
4/08/76	1255	7050.	9.0	133.	8.	2530.
4/12/76	1330	10400.	9.2	167.	14.	4680.
4/15/76	1140	9010.	7.2	87.	6.	2110.
4/20/76	1800	5370.	10.8	78.	5.	1130.
4/23/76	1300	5750.	9.7	40.	4.	621.
4/26/76	1240	5320.	10.0	46.	3.	661.
4/29/76	1120	3820.	11.8	46.	4.	474.
5/04/76	1300	8550.	11.8	94.	12.	2160.
5/06/76	1020	6830.	11.7	81.	6.	1490.
5/11/76	1200	10600.	11.0	125.	12.	3570.
5/14/76	1030	7920.	13.1	90.	9.	1920.
5/20/76	1030	6170.	11.7	66.	4.	1090.
5/25/76	1230	6870.	12.1	68.	4.	1260.
5/28/76	1120	6370.	12.3	70.	6.	1200.
6/01/76	1515	5350.	12.6	71.	4.	1020.
6/03/76	1300	4020.	14.0	64.	4.	695.
6/07/76	1100	1780.	17.1	49.	5.	235.
6/11/76	1215	2770.	17.5	49.	7.	366.
6/15/76	1415	1860.	17.0	42.	8.	211.
6/18/76	1130	2820.	18.8	64.	5.	487.
6/21/76	1045	4650.	16.7	133.	5.	1660.
6/25/76	1315	4280.	16.2	59.	6.	682.
6/29/76	1115	3570.	19.5	50.	5.	482.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508990: YAKIMA RIVER AT MABTON

LATITUDE 46°13'53" LONGITUDE 119°59'54"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/02/76	1015	3850.	15.6	50.	5.	520.
7/07/76	1145	3520.	19.9	60.	5.	570.
7/09/76	1115	4780.	19.2	73.	5.	942.
7/12/76	1435	4760.	17.4	76.	4.	977.
7/15/76	1315	2890.	19.9	48.	5.	375.
7/20/76	1200	1800.	21.2	47.	17.	228.
7/23/76	1115	1400.	21.0	44.	16.	166.
7/27/76	1230	1590.	21.3	47.	15.	202.
7/30/76	1145	1380.	20.8	--	25.	--
8/02/76	1235	1820.	20.6	--	15.	--
8/05/76	1200	1780.	20.7	36.	8.	173.
8/09/76	1430	2950.	19.4	43.	8.	342.
8/16/76	1530	2550.	17.8	34.	9.	234.
8/19/76	1130	2530.	17.4	27.	6.	184.
8/23/76	1200	1900.	19.4	28.	6.	144.
8/26/76	1215	2030.	18.6	24.	5.	132.
8/30/76	1345	2240.	19.8	30.	6.	181.
9/03/76	1130	1680.	19.3	29.	6.	132.
9/08/76	1115	2010.	16.3	24.	7.	130.
9/10/76	1000	1930.	15.8	20.	6.	104.
9/14/76	1530	1970.	16.1	25.	6.	133.
9/17/76	1515	2140.	17.2	24.	5.	139.
9/21/76	1100	2010.	--	24.	5.	130.
9/23/76	1815	1920.	18.6	22.	4.	114.
9/28/76	1330	2010.	17.6	22.	4.	119.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508997: GRANDVIEW DRAIN AT CHASE ROAD NEAR GRANDVIEW

LATITUDE 46°13'46" LONGITUDE 119°55'28"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/12/75	1350	5.0	12.0	66.	1.	0.9
3/18/75	0945	6.5	--	38.	3.	0.7
3/20/75	1035	6.7	9.5	41.	3.	0.7
3/24/75	1055	6.5	10.0	33.	2.	0.6
3/26/75	1110	6.3	9.5	47.	2.	0.8
3/28/75	0940	6.5	8.0	57.	2.	1.0
4/01/75	1020	7.7	8.5	179.	8.	3.7
4/04/75	1125	15.	7.0	221.	3.	8.7
4/08/75	1055	17.	9.0	192.	2.	8.8
4/10/75	1055	13.	9.5	132.	4.	4.6
4/15/75	1110	8.0	11.0	65.	2.	1.4
4/21/75	1105	14.	12.0	132.	--	5.0
4/23/75	1110	8.4	12.0	57.	8.	1.3
4/28/75	1355	9.6	15.0	99.	20.	2.6
4/30/75	1050	8.0	13.0	77.	20.	1.7
5/05/75	1355	8.8	13.0	134.	20.	3.2
5/07/75	1600	10.	14.0	166.	6.	4.5
5/14/75	1935	8.0	14.0	233.	30.	5.0
5/16/75	1630	7.0	16.0	205.	20.	3.9
5/23/75	1435	6.7	16.0	228.	30.	4.1
5/25/75	1130	7.7	16.0	215.	40.	4.5
5/25/75	1130	7.7	16.0	215.	40.	4.5
5/29/75	1830	7.2	17.0	225.	40.	4.4
5/31/75	1905	6.7	19.0	237.	50.	4.3
6/03/75	1430	7.2	19.0	182.	30.	3.5
6/05/75	1245	7.7	18.0	242.	50.	5.0
6/10/75	1530	10.	19.0	313.	30.	8.5
6/13/75	1230	15.	18.0	228.	30.	9.0
6/19/75	1535	16.	16.0	308.	30.	13.
6/21/75	1250	17.	19.0	263.	30.	12.
6/25/75	1300	22.	18.0	304.	30.	18.
6/27/75	1300	19.	16.0	222.	30.	11.
7/02/75	1320	13.	19.0	212.	30.	7.3
7/04/75	1300	15.	19.0	227.	30.	8.9
7/09/75	1315	9.2	18.0	289.	30.	7.2
7/12/75	1445	11.	19.0	335.	30.	10.
7/16/75	1245	21.	18.0	347.	40.	20.
7/18/75	1240	21.	19.4	377.	--	21.
7/22/75	1500	19.	21.8	488.	30.	25.
7/28/75	1515	15.	23.6	352.	25.	14.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508997: GRANDVIEW DRAIN AT CHASE ROAD NEAR GRANDVIEW

LATITUDE 46°13'46" LONGITUDE 119°55'28"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/31/75	1530	17.	20.4	294.	30.	14.
8/04/75	1500	15.	21.6	251.	--	10.
8/14/75	1215	21.	19.9	249.	8.	14.
8/19/75	1205	21.	18.8	199.	8.	11.
8/21/75	0945	28.	19.0	146.	5.	11.
8/26/75	0945	25.	16.6	442.	2.	30.
8/28/75	0930	22.	16.8	89.	2.	5.2
9/02/75	1420	24.	14.8	68.	4.	4.3
9/09/75	0940	25.	16.7	86.	2.	5.9
9/11/75	0930	25.	17.5	63.	2.	4.3
9/16/75	1500	32.	18.3	83.	2.	7.2
9/18/75	0830	35.	14.0	63.	3.	6.0
9/23/75	0915	30.	14.3	57.	2.	4.6
9/25/75	1000	26.	15.0	55.	2.	3.9
10/21/75	1455	7.5	13.6	63.	5.	1.3
3/02/76	1250	4.0	12.0	70.	4.	0.8
3/09/76	1250	4.0	13.9	59.	5.	0.6
3/16/76	1415	4.0	15.0	40.	3.	0.4
3/22/76	1210	4.0	11.0	79.	4.	0.9
3/25/76	1020	4.5	11.0	33.	4.	0.4
3/30/76	1315	4.5	16.5	16.	2.	0.2
4/01/76	0945	17.	8.6	79.	16.	3.6
4/05/76	1045	14.	11.8	259.	11.	9.8
4/08/76	1235	16.	11.4	194.	7.	8.4
4/12/76	1300	13.	12.1	175.	15.	6.1
4/15/76	1115	15.	10.7	288.	11.	12.
4/20/76	1115	9.5	14.0	192.	6.	4.9
4/23/76	1315	9.0	14.0	593.	5.	14.
4/26/76	1220	9.0	11.8	160.	6.	3.9
4/29/76	1105	9.0	13.7	245.	8.	6.0
5/04/76	1345	13.	16.6	498.	14.	17.
5/06/76	0950	16.	12.4	418.	12.	18.
5/11/76	1215	14.	15.3	362.	18.	14.
5/14/76	1045	12.	14.0	375.	22.	12.
5/20/76	1015	14.	13.3	424.	14.	16.
5/25/76	1300	22.	14.6	766.	8.	46.
5/28/76	1135	28.	14.5	453.	16.	34.
6/02/76	1230	38.	15.0	652.	12.	67.
6/04/76	1030	30.	14.1	68.	8.	5.5
6/07/76	1045	28.	16.7	496.	10.	37.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12508997: GRANDVIEW DRAIN AT CHASE ROAD NEAR GRANDVIEW

LATITUDE 46°13'46" LONGITUDE 119°55'28"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
6/11/76	1230	15.	16.7	375.	20.	15.
6/15/76	1430	14.	16.2	434.	24.	16.
6/18/76	1130	13.	18.6	408.	17.	14.
6/21/76	1030	15.	16.6	381.	19.	15.
6/25/76	1330	14.	18.1	469.	15.	18.
6/29/76	1130	14.	19.4	--	21.	--
7/02/76	1030	15.	15.6	699.	21.	28.
7/07/76	1200	16.	19.4	--	22.	--
7/09/76	1130	22.	19.1	875.	14.	52.
7/12/76	1520	19.	19.7	479.	12.	25.
7/15/76	1210	17.	19.9	423.	18.	19.
7/20/76	1215	14.	20.6	778.	13.	29.
7/23/76	1130	15.	18.1	514.	32.	21.
7/27/76	1245	18.	20.1	457.	34.	22.
7/30/76	1200	16.	20.6	466.	35.	20.
8/02/76	1215	19.	20.0	468.	35.	24.
8/05/76	1100	21.	19.5	492.	32.	28.
8/09/76	1135	24.	18.5	452.	14.	29.
8/16/76	1630	39.	18.2	631.	22.	66.
8/19/76	1115	35.	16.6	323.	12.	31.
8/23/76	1145	29.	19.6	266.	13.	21.
8/26/76	1200	38.	18.3	193.	6.	20.
8/30/76	1330	38.	20.2	230.	11.	24.
9/03/76	1145	28.	19.0	156.	10.	12.
9/08/76	1130	28.	16.4	153.	12.	12.
9/10/76	1015	30.	15.0	119.	10.	9.6
9/15/76	1430	35.	18.0	155.	13.	15.
9/17/76	1530	28.	17.3	118.	12.	8.9
9/21/76	1115	32.	--	207.	10.	18.
9/23/76	1830	27.	18.2	161.	6.	12.
9/28/76	1345	29.	18.1	150.	11.	12.
6/27/75	1300	19.	16.0	222.	30.	11.
7/02/75	1320	13.	19.0	212.	30.	7.3
7/04/75	1300	15.	19.0	227.	30.	8.9
7/09/75	1315	9.2	18.0	289.	30.	7.2
7/12/75	1445	11.	19.0	335.	30.	10.
7/16/75	1245	21.	18.0	347.	40.	20.
7/18/75	1240	21.	19.4	377.	--	21.
7/22/75	1530	19.	21.8	488.	30.	25.
7/28/75	1315	16.	24.6	354.	25.	14.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509492: WAMBA DRAIN AT PROSSER

LATITUDE 46°12'53" LONGITUDE 119°16'44"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/12/75	1320	1.0	10.0	18.	2.	0.0
3/18/75	1015	1.0	6.5	21.	--	0.1
3/20/75	1120	1.0	8.5	44.	2.	0.1
3/24/75	1140	1.0	10.0	9.	2.	0.0
3/26/75	1150	1.0	7.0	43.	--	0.1
3/28/75	1040	1.0	4.0	10.	1.	0.0
4/01/75	1320	1.0	11.5	82.	3.	0.2
4/04/75	1210	1.0	6.0	67.	3.	0.2
4/08/75	1145	1.0	10.5	33.	2.	0.1
4/10/75	1145	1.0	10.5	109.	4.	0.3
4/15/75	1145	1.0	11.0	31.	--	0.1
4/21/75	1145	1.0	12.0	99.	--	0.3
4/23/75	1205	1.0	13.0	133.	30.	0.4
6/19/75	1445	1.5	17.0	67.	30.	0.3
6/23/75	1645	1.5	20.0	32.	10.	0.1
6/25/75	1430	1.5	18.0	42.	10.	0.2
6/27/75	1700	2.5	17.0	49.	10.	0.3
7/02/75	1715	2.5	20.0	38.	10.	0.3
7/04/75	1700	2.5	20.0	67.	20.	0.5
7/09/75	1715	1.5	20.0	346.	20.	1.4
7/12/75	1100	1.5	21.0	80.	10.	0.3
7/16/75	0945	7.0	16.0	67.	20.	1.3
7/18/75	1045	6.5	17.8	58.	10.	1.0
7/22/75	1145	6.5	21.8	59.	15.	1.0
7/28/75	1200	2.5	23.8	57.	20.	0.4
7/31/75	1215	3.5	20.4	82.	30.	0.8
8/09/75	1335	7.0	21.2	94.	6.	1.8
8/04/75	1145	4.5	21.8	71.	25.	0.9
8/14/75	1405	5.0	23.5	104.	9.	1.4
8/21/75	0910	8.0	17.2	59.	5.	1.3
8/26/75	1145	6.5	18.5	43.	2.	0.8
9/02/75	1045	6.5	15.8	31.	3.	0.5
9/09/75	1115	4.5	17.6	34.	1.	0.4
9/17/75	0930	7.0	14.7	28.	2.	0.5
9/23/75	1050	6.5	15.5	25.	3.	0.4
10/21/75	1400	6.5	11.8	37.	5.	0.6
3/02/76	1210	1.0	6.2	40.	4.	0.1
3/09/76	1120	1.0	11.0	31.	5.	0.1
3/16/76	1340	1.0	14.3	34.	5.	0.1
3/22/76	1145	1.0	9.6	19.	3.	0.1

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509492: WAMBA DRAIN AT PROSSER

LATITUDE 46°12'53" LONGITUDE 119°16'44"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/25/76	1010	1.5	8.4	250.	75.	1.0
3/30/76	1300	11.	15.0	267.	67.	7.9
4/01/76	0930	12.	5.8	110.	22.	3.6
4/05/76	1025	3.5	12.2	147.	10.	1.4
4/08/76	1145	2.5	11.4	98.	10.	0.7
4/12/76	1250	3.5	12.9	129.	23.	1.2
4/15/76	1100	3.5	10.4	164.	22.	1.5
4/20/76	1050	5.0	14.5	338.	13.	4.6
4/23/76	1330	4.5	14.1	329.	18.	4.0
4/26/76	1150	4.0	12.4	177.	10.	1.9
4/29/76	1025	3.5	14.3	118.	6.	1.1
5/04/76	1400	3.0	18.0	49.	6.	0.4
5/06/76	0935	3.0	12.4	40.	7.	0.3
5/11/76	1245	3.0	18.0	104.	12.	0.8
5/14/76	1100	3.5	15.5	133.	22.	1.3
5/20/76	1000	3.5	13.6	113.	20.	1.1
5/25/76	1315	3.5	16.4	127.	5.	1.2
5/28/76	1155	4.0	16.1	68.	11.	0.7
6/02/76	1245	6.0	17.1	78.	13.	1.3
6/04/76	1045	6.5	15.1	65.	11.	1.1
6/07/76	1030	5.5	17.0	52.	12.	0.8
6/11/76	1245	11.	16.6	54.	20.	1.6
6/15/76	1445	11.	16.9	25.	8.	0.7
6/18/76	1200	12.	19.9	23.	7.	0.7
6/21/76	1015	12.	16.4	26.	8.	0.8
6/25/76	1345	15.	18.9	30.	10.	1.2
6/29/76	1145	17.	20.4	89.	35.	4.1
7/02/76	1045	18.	16.1	56.	20.	2.7
7/07/76	1215	15.	19.9	39.	12.	1.6
7/09/76	1145	15.	20.0	42.	12.	1.7
7/12/76	1540	16.	21.8	49.	11.	2.1
7/15/76	1055	16.	18.1	35.	5.	1.5
7/20/76	1230	10.	20.7	29.	9.	0.8
7/23/76	1215	9.5	21.1	35.	16.	0.9
7/27/76	1300	8.5	19.9	37.	17.	0.8
7/30/76	1300	8.5	21.8	52.	20.	1.2
8/02/76	1145	6.5	20.6	63.	23.	1.1
8/05/76	1030	9.0	19.1	59.	17.	1.4
8/09/76	1115	11.	19.0	97.	18.	2.9
8/16/76	1645	8.0	18.3	63.	15.	1.4

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509492: WAMBA DRAIN AT PROSSER

LATITUDE 46°12'53" LONGITUDE 119°16'44"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/19/76	1100	6.5	16.0	68.	14.	1.2
8/23/76	1100	7.0	19.1	53.	12.	1.0
8/26/76	1115	9.0	16.5	43.	11.	1.0
8/30/76	1300	9.0	20.0	35.	5.	0.9
9/03/76	1200	7.0	18.7	31.	8.	0.6
9/08/76	1145	8.0	16.2	30.	10.	0.6
9/10/76	1030	10.	14.8	48.	12.	1.3
9/15/76	1445	10.	18.6	39.	10.	1.1
9/17/76	1530	8.0	--	40.	11.	0.9
9/21/76	1130	10.	--	37.	8.	1.0
9/23/76	0845	9.0	14.8	34.	6.	0.8
9/28/76	1400	7.0	18.9	48.	11.	0.9

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509496: SHELBY DRAIN AT SHELBY ROAD

LATITUDE 46°13'19" LONGITUDE 119°15'24"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/18/75	1045	0.1	5.5	223.	2.	0.1
3/20/75	1135	0.2	6.5	19.	7.	0.0
3/24/75	1205	0.1	8.5	20.	2.	0.0
3/26/75	1210	0.1	4.5	23.	1.	0.0
3/28/75	1050	0.1	3.0	44.	9.	0.0
4/01/75	1330	1.1	10.0	25.	1.	0.1
4/04/75	1225	1.1	5.0	42.	2.	0.1
4/08/75	1200	0.8	9.0	16.	1.	0.0
4/10/75	1200	0.7	10.0	29.	40.	0.1
4/15/75	1210	7.6	9.5	459.	25.	9.4
4/21/75	1205	7.6	12.0	296.	--	6.1
4/23/75	1215	12.	12.0	729.	40.	24.
4/28/75	1255	14.	12.0	1290.	45.	49.
5/01/75	1010	7.0	11.0	1260.	50.	24.
5/05/75	1305	7.0	12.0	742.	50.	14.
5/08/75	1950	7.0	15.0	740.	40.	14.
5/14/75	1835	8.0	17.0	1240.	40.	27.
5/18/75	1350	13.	16.0	896.	40.	31.
5/23/75	1335	10.	--	973.	50.	26.
5/29/75	1725	7.6	19.0	965.	40.	20.
6/01/75	1350	7.6	18.0	1340.	30.	27.
6/03/75	1335	5.5	--	1380.	40.	20.
6/06/75	1545	12.	20.0	990.	50.	32.
6/10/75	1435	6.5	19.0	939.	40.	16.
6/16/75	1605	6.5	19.0	704.	30.	12.
6/23/75	1635	12.	19.0	596.	50.	19.
6/27/75	1645	7.0	17.0	549.	40.	10.
7/22/75	1200	6.5	20.9	419.	35.	7.4
7/28/75	1215	4.0	22.9	547.	35.	5.9
7/31/75	1230	5.0	19.1	434.	40.	5.9
8/04/75	1200	4.0	20.2	336.	45.	3.6
8/14/75	1420	3.0	21.5	385.	16.	3.1
8/19/75	1340	6.0	19.6	367.	20.	5.9
8/21/75	0845	11.	17.3	306.	10.	9.1
8/26/75	1200	6.5	18.3	237.	15.	4.2
9/02/75	1100	20.	15.7	155.	6.	8.4
9/09/75	1125	15.	17.4	149.	7.	6.0
9/17/75	0945	6.5	14.9	80.	2.	1.4
9/23/75	1105	17.	16.0	98.	5.	4.5
10/21/75	1320	1.5	11.2	214.	6.	0.9

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509496: SHELBY DRAIN AT SHELBY ROAD

LATITUDE 46°13'19" LONGITUDE 119°15'24"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/02/76	1115	1.0	7.6	9.	1.	0.0
3/09/76	1105	1.0	8.3	12.	2.	0.0
4/01/76	0915	1.0	4.8	47.	16.	0.1
4/05/76	1010	3.0	11.0	240.	17.	1.9
4/08/76	1105	2.5	10.6	252.	26.	1.7
4/12/76	1235	2.5	12.2	231.	43.	1.6
4/15/76	1045	4.5	10.0	772.	24.	9.4
4/20/76	1035	3.0	14.1	528.	22.	4.3
4/23/76	1345	5.5	14.2	1840.	34.	27.
4/26/76	1145	5.5	11.0	1150.	20.	17.
4/29/76	1015	3.0	12.8	674.	24.	5.5
5/04/76	1415	3.0	18.5	430.	19.	3.5
5/06/76	0945	3.0	12.7	606.	23.	4.9
5/11/76	1300	9.0	16.7	1430.	24.	35.
5/14/76	1115	9.5	13.8	1100.	40.	28.
5/20/76	0945	9.5	12.0	1330.	32.	34.
5/25/76	1330	5.5	16.0	670.	19.	9.9
5/28/76	1200	10.	14.2	555.	28.	15.
6/02/76	1300	6.0	15.8	671.	16.	11.
6/04/76	1100	6.0	14.1	547.	14.	8.9
6/07/76	1015	7.0	16.5	595.	16.	11.
6/11/76	1300	3.0	16.5	442.	32.	3.6
6/15/76	1500	3.0	17.6	447.	31.	3.6
6/18/76	1215	5.0	18.7	473.	30.	6.4
6/21/76	1000	5.5	17.0	440.	25.	6.5
6/25/76	1400	4.5	17.8	713.	32.	8.7
6/29/76	1245	3.0	19.8	545.	28.	4.4
7/02/76	1100	2.5	16.8	419.	20.	2.8
7/07/76	1230	6.5	20.3	421.	38.	7.4
7/09/76	1200	5.0	19.5	392.	20.	5.3
7/12/76	1545	5.0	21.9	384.	19.	5.2
7/15/76	1045	6.0	17.6	361.	29.	5.8
7/20/76	1245	5.0	20.3	336.	37.	4.5
7/23/76	1230	5.0	21.0	557.	38.	7.5
7/27/76	1315	4.0	20.2	338.	26.	3.7
7/30/76	1315	3.0	21.2	334.	25.	2.7
8/02/76	1130	5.0	20.5	318.	22.	4.3
8/05/76	1015	5.0	19.0	347.	22.	4.7
8/09/76	1105	5.5	18.2	464.	27.	6.9
8/16/76	1700	3.5	17.6	185.	12.	1.7

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509496: SHELBY DRAIN AT SHELBY ROAD

LATITUDE 46°13'19" LONGITUDE 119°15'24"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/19/76	1045	2.5	15.5	174.	11.	1.2
8/23/76	1045	4.0	18.7	113.	9.	1.2
8/26/76	1100	4.0	16.1	173.	--	1.9
8/30/76	1245	4.0	19.3	152.	17.	1.6
9/03/76	1215	4.0	18.3	172.	24.	1.9
9/08/76	1200	4.0	15.6	243.	22.	2.6
9/10/76	1045	6.0	14.6	246.	23.	4.0
9/15/76	1445	4.0	18.0	262.	33.	2.8
9/17/76	1545	4.0	--	322.	37.	3.5
9/21/76	1145	3.5	--	207.	15.	2.0
9/24/76	0945	3.5	16.0	201.	19.	1.9
9/28/76	1415	3.5	18.1	167.	14.	1.6

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509700: SPRING CREEK AT HESS ROAD

LATITUDE 46°14' 2" LONGITUDE 119°41' 2"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/12/75	1200	20.	8.0	21.	1.	1.1
3/18/75	1115	20.	8.5	26.	1.	1.4
3/20/75	1235	20.	8.5	11.	1.	0.6
3/24/75	1255	19.	11.0	13.	3.	0.7
3/26/75	1310	19.	9.0	7.	--	0.4
3/28/75	1110	21.	4.5	22.	4.	1.2
4/01/75	1430	40.	10.0	334.	3.	36.
4/04/75	1305	90.	7.0	618.	6.	150.
4/10/75	1255	47.	10.0	123.	2.	16.
4/15/75	1315	36.	10.5	96.	8.	9.3
4/21/75	1300	37.	13.0	64.	--	6.4
4/23/75	1315	45.	13.0	237.	20.	29.
4/28/75	1200	41.	12.0	119.	20.	13.
5/01/75	1045	37.	12.0	98.	20.	9.8
5/05/75	1155	34.	12.0	129.	30.	12.
5/08/75	1920	34.	16.0	289.	30.	27.
5/14/75	1805	38.	18.0	287.	30.	29.
5/18/75	1320	36.	15.0	343.	30.	33.
5/23/75	1305	36.	17.0	566.	50.	55.
5/29/75	1655	38.	18.0	512.	50.	53.
6/01/75	1315	39.	18.0	531.	40.	56.
6/03/75	1305	39.	19.0	541.	40.	57.
6/06/75	1520	39.	20.0	613.	50.	65.
6/10/75	1405	40.	20.0	594.	40.	64.
6/16/75	1530	8.0	19.0	680.	40.	15.
6/19/75	1400	40.	16.0	536.	40.	58.
6/23/75	1530	31.	19.0	554.	40.	46.
6/25/75	1515	40.	19.0	414.	30.	45.
6/27/75	1615	40.	17.0	397.	40.	43.
7/02/75	1630	35.	20.0	541.	40.	51.
7/04/75	1615	40.	19.0	575.	5.	62.
7/09/75	1630	37.	20.0	748.	40.	75.
7/12/75	1145	42.	20.0	490.	30.	56.
7/16/75	1030	43.	17.0	448.	40.	52.
7/18/75	1030	63.	18.2	421.	35.	72.
7/22/75	1230	115.	22.1	512.	35.	159.
7/28/75	1245	62.	24.2	381.	40.	64.
7/31/75	1300	63.	18.4	353.	45.	60.
8/04/75	1230	73.	20.6	290.	35.	57.
8/14/75	1500	46.	22.6	345.	34.	43.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509700: SPRING CREEK AT HESS ROAD

LATITUDE 46°14' 2" LONGITUDE 119°41' 2"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/19/75	1400	78.	20.2	230.	18.	48.
8/20/75	1140	79.	18.4	183.	10.	39.
8/26/75	1215	95.	18.4	114.	4.	29.
9/02/75	1120	50.	15.6	87.	7.	12.
9/09/75	1200	46.	18.1	46.	2.	5.7
9/17/75	1015	38.	15.5	61.	3.	6.3
9/23/75	1130	75.	16.1	84.	4.	17.
10/21/75	1240	58.	9.8	51.	6.	8.0
3/02/76	1055	39.	4.4	8.	1.	0.8
3/09/76	1025	2.2	7.8	3.	1.	0.0
3/16/76	1310	2.1	12.4	5.	3.	0.0
3/22/76	1120	1.9	9.6	15.	1.	0.1
3/25/76	0945	3.6	7.8	11.	6.	0.1
3/30/76	1215	53.	11.6	--	--	--
4/01/76	0915	34.	6.0	389.	24.	36.
4/05/76	0955	52.	10.6	119.	8.	17.
4/08/76	1050	32.	10.6	110.	9.	9.5
4/12/76	1220	41.	12.3	120.	24.	13.
4/15/76	1035	50.	9.1	207.	21.	28.
4/20/76	1020	52.	12.2	240.	16.	34.
4/23/76	1400	53.	11.9	178.	14.	25.
4/26/76	1125	52.	10.4	148.	9.	21.
4/29/76	1000	40.	11.4	183.	11.	20.
5/04/76	1430	19.	16.0	195.	32.	10.
5/06/76	0910	24.	11.8	264.	31.	17.
5/11/76	1315	16.	17.3	343.	28.	15.
5/14/76	1130	31.	14.8	622.	27.	52.
5/20/76	0930	43.	12.0	848.	23.	98.
5/25/76	1315	33.	15.8	704.	36.	63.
5/28/76	1215	60.	14.7	644.	30.	104.
6/02/76	1315	65.	15.6	694.	32.	122.
6/04/76	1115	40.	14.2	739.	27.	80.
6/07/76	1000	97.	16.1	747.	15.	196.
6/11/76	1315	32.	17.0	766.	63.	66.
6/15/76	1515	33.	17.3	670.	33.	60.
6/18/76	1230	36.	19.7	721.	34.	70.
6/21/76	0950	58.	17.0	871.	30.	136.
6/25/76	1415	49.	18.0	648.	40.	86.
6/29/76	1300	39.	21.4	568.	51.	60.
7/02/76	1115	47.	17.0	711.	41.	90.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509700: SPRING CREEK AT HESS ROAD

LATITUDE 46*14' 2" LONGITUDE 119*41' 2"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/07/76	1245	46.	21.0	642.	27.	80.
7/09/76	1215	37.	20.4	448.	28.	45.
7/12/76	1600	56.	20.7	400.	19.	60.
7/15/76	1030	62.	18.2	637.	37.	107.
7/20/76	1300	47.	20.5	128.	119.	16.
7/23/76	1345	40.	22.0	763.	101.	82.
7/27/76	1330	37.	20.7	682.	108.	68.
8/02/76	1115	55.	20.0	473.	40.	70.
8/05/76	1000	37.	18.7	595.	46.	59.
8/09/76	1050	65.	18.4	405.	--	71.
8/16/76	1715	80.	18.0	351.	34.	76.
8/19/76	1030	93.	15.6	670.	34.	168.
8/23/76	1030	66.	18.3	277.	21.	49.
8/27/76	1045	68.	16.3	202.	20.	37.
8/30/76	1230	63.	19.0	188.	14.	32.
9/02/76	1115	52.	18.0	200.	17.	28.
9/07/76	1215	70.	15.9	161.	16.	30.
9/09/76	1100	65.	14.7	252.	17.	44.
9/15/76	1500	84.	17.8	128.	12.	29.
9/17/76	1600	70.	17.0	119.	11.	22.
9/21/76	1200	50.	16.0	131.	11.	18.
9/24/76	1000	43.	15.6	135.	11.	16.
9/28/76	1430	44.	18.3	111.	12.	13.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509820: SNIPES CREEK NEAR PROSSER

LATITUDE 46°14'32" LONGITUDE 119°40'48"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/12/75	1130	20.	5.5	1.	0.	0.1
3/18/75	1130	25.	6.5	8.	1.	0.5
3/20/75	1245	85.	6.0	--	--	--
3/24/75	1310	100.	8.0	1110.	30.	300.
3/26/75	1120	90.	5.5	226.	25.	55.
3/28/75	1125	100.	4.5	298.	20.	80.
4/01/75	1450	95.	8.5	183.	2.	47.
4/04/75	1320	100.	6.0	198.	6.	53.
4/08/75	1310	100.	8.5	148.	2.	40.
4/10/75	1310	90.	9.5	59.	2.	14.
4/15/75	1355	80.	9.0	100.	20.	22.
4/21/75	1315	85.	12.0	89.	20.	20.
4/23/75	1325	80.	12.0	124.	20.	27.
4/28/75	1145	90.	12.0	87.	20.	21.
5/01/75	1105	90.	13.0	106.	10.	26.
5/05/75	1140	85.	12.0	76.	20.	17.
5/08/75	1905	75.	16.0	109.	20.	22.
5/14/75	1750	70.	16.0	261.	40.	49.
5/18/75	1305	70.	15.0	197.	40.	37.
5/23/75	1200	65.	17.0	647.	50.	114.
5/29/75	1645	55.	19.0	460.	50.	68.
6/01/75	1305	70.	18.0	727.	40.	137.
6/03/75	1245	65.	18.0	704.	40.	124.
6/06/75	1505	65.	19.0	410.	50.	72.
6/10/75	1345	65.	20.0	401.	40.	70.
6/16/75	1515	55.	19.0	290.	40.	43.
6/19/75	1340	65.	17.0	460.	40.	81.
6/23/75	1510	75.	19.0	316.	30.	64.
6/25/75	1530	75.	18.0	453.	40.	92.
6/27/75	1600	75.	16.0	483.	30.	98.
7/02/75	1615	70.	18.0	339.	40.	64.
7/04/75	1600	65.	20.0	718.	40.	126.
7/09/75	1615	35.	21.0	244.	30.	23.
7/12/75	1200	55.	21.0	1630.	40.	242.
7/16/75	1045	70.	18.0	421.	30.	80.
7/18/75	1045	70.	18.8	633.	30.	120.
7/22/75	1245	80.	22.2	373.	30.	81.
7/28/75	1300	65.	24.8	504.	30.	88.
7/31/75	1315	65.	20.9	1280.	35.	225.
8/04/75	1245	65.	22.0	459.	40.	81.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509820: SNIPES CREEK NEAR PROSSER

LATITUDE 46°14'32" LONGITUDE 119°40'48"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/14/75	1515	45.	22.4	83.	15.	10.
8/19/75	1410	75.	20.4	472.	10.	96.
8/20/75	1130	85.	18.6	234.	10.	54.
8/26/75	1230	110.	17.8	1570.	7.	466.
9/02/75	1140	85.	16.6	123.	8.	28.
9/09/75	1215	70.	19.4	36.	2.	6.8
9/17/75	1030	65.	15.8	45.	3.	7.9
9/23/75	1145	85.	16.8	72.	4.	17.
10/21/75	1250	105.	8.8	107.	3.	30.
3/02/76	1040	1.0	1.0	40.	1.	0.1
3/09/76	1010	1.0	6.0	20.	1.	0.1
3/16/76	1300	1.0	12.2	9.	2.	0.0
3/22/76	1045	110.	7.9	282.	29.	84.
3/25/76	0935	105.	6.7	238.	44.	67.
3/30/76	1200	100.	10.6	87.	23.	23.
4/01/76	0900	150.	6.4	265.	18.	107.
4/05/76	0945	140.	9.6	228.	9.	86.
4/08/76	0950	110.	9.6	112.	9.	33.
4/12/76	1210	110.	11.8	92.	19.	27.
4/15/76	0945	80.	8.8	97.	14.	21.
4/20/76	1015	80.	12.4	63.	11.	14.
4/23/76	1415	80.	12.7	63.	8.	14.
4/26/76	1120	95.	10.2	63.	6.	16.
4/29/76	0950	90.	11.1	56.	7.	14.
5/04/76	1430	85.	16.1	140.	9.	32.
5/06/76	0900	50.	11.8	81.	19.	11.
5/11/76	1330	65.	17.8	141.	17.	25.
5/14/76	1130	65.	15.8	204.	--	36.
5/20/76	0915	60.	12.4	234.	13.	38.
5/25/76	1400	80.	14.7	506.	18.	109.
5/28/76	1230	75.	14.8	344.	17.	70.
6/02/76	1330	90.	15.3	162.	9.	39.
6/04/76	1130	90.	14.5	112.	8.	27.
6/07/76	0945	90.	16.5	156.	7.	38.
6/11/76	1330	65.	17.4	217.	30.	38.
6/15/76	1530	50.	17.1	324.	30.	44.
6/18/76	1230	70.	20.4	469.	23.	89.
6/21/76	0935	60.	17.4	376.	22.	61.
6/25/76	1430	60.	19.2	316.	23.	51.
6/29/76	1315	60.	22.2	158.	17.	26.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12509820: SNIPES CREEK NEAR PROSSER

LATITUDE 46°14'32" LONGITUDE 119°40'48"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/02/76	1130	65.	18.4	702.	37.	123.
7/07/76	1300	70.	21.5	279.	22.	53.
7/09/76	1230	75.	21.3	231.	18.	47.
7/12/76	1610	75.	21.2	227.	13.	46.
7/15/76	1015	80.	18.9	190.	17.	41.
7/20/76	1300	55.	21.0	150.	20.	22.
7/23/76	1400	65.	22.7	176.	32.	31.
7/27/76	1330	60.	21.8	183.	23.	30.
7/30/76	1345	50.	22.2	61.	20.	8.2
8/02/76	1100	65.	20.6	123.	22.	22.
8/05/76	0945	75.	19.0	126.	18.	26.
8/09/76	1040	80.	19.0	135.	13.	29.
8/16/76	1730	80.	17.6	290.	33.	63.
8/19/76	1015	90.	16.0	187.	14.	45.
8/23/76	1015	95.	18.7	97.	9.	25.
8/26/76	1030	85.	16.1	71.	8.	16.
8/30/76	1215	105.	19.2	70.	9.	20.
9/03/76	1230	85.	19.5	52.	6.	12.
9/08/76	1230	80.	16.4	38.	8.	8.2
9/10/76	1115	80.	15.2	54.	10.	12.
9/15/76	1515	85.	17.2	41.	6.	9.4
9/17/76	1600	90.	--	56.	7.	14.
9/21/76	1215	90.	--	39.	5.	9.5
9/24/76	1015	80.	16.6	32.	4.	6.9
9/28/76	1445	80.	18.6	24.	4.	5.2

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12510200: CORRAL CANYON CREEK NEAR BENTON CITY

LATITUDE 46°17' 3" LONGITUDE 119°32' 6"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/04/75	1045	3.4	11.5	96.	--	0.9
3/12/75	1030	3.2	7.0	105.	1.	0.9
3/18/75	1300	3.4	10.5	139.	2.	1.3
3/24/75	1340	34.	9.0	340.	20.	31.
3/26/75	1310	3.1	11.0	124.	35.	1.0
3/26/75	1350	29.	5.0	302.	35.	24.
3/28/75	1155	32.	5.0	159.	20.	14.
4/01/75	1515	22.	10.5	169.	5.	10.
4/04/75	1340	29.	6.0	104.	3.	8.1
4/08/75	1340	60.	9.5	527.	7.	85.
4/10/75	1310	26.	10.0	139.	4.	9.8
4/15/75	1425	12.	10.5	93.	3.	3.0
4/21/75	1340	9.0	14.0	50.	--	1.2
4/23/75	1355	20.	15.0	77.	10.	4.2
4/28/75	1120	12.	13.0	44.	10.	1.4
5/01/75	1130	8.5	14.0	25.	7.	0.6
5/05/75	1110	13.	12.0	60.	10.	2.1
5/08/75	1810	12.	15.0	54.	10.	1.7
5/14/75	1720	9.0	17.0	112.	10.	2.7
5/18/75	1220	23.	16.0	142.	20.	8.8
5/23/75	1220	17.	17.0	107.	20.	4.9
5/29/75	1610	32.	18.0	172.	30.	15.
6/01/75	1215	13.	18.0	55.	--	1.9
6/03/75	1215	12.	19.0	63.	--	2.0
6/06/75	1410	22.	19.0	106.	20.	6.3
6/10/75	1315	23.	19.0	83.	--	5.2
6/16/75	1445	18.	19.0	58.	9.	2.8
6/19/75	1315	20.	17.0	68.	10.	3.7
6/23/75	1445	23.	19.0	88.	10.	5.5
6/25/75	1600	20.	20.0	52.	10.	2.8
6/27/75	1530	36.	17.0	118.	10.	11.
7/02/75	1545	22.	20.0	67.	9.	4.0
7/04/75	1530	26.	19.0	112.	20.	7.9
7/09/75	1545	22.	21.0	57.	9.	3.4
7/12/75	1230	18.	20.0	48.	10.	2.3
7/16/75	1115	23.	17.0	64.	9.	4.0
7/18/75	1110	23.	17.8	45.	5.	2.8
7/22/75	1315	22.	21.0	45.	9.	2.7
7/28/75	1400	19.	23.9	51.	8.	2.6
7/31/75	1415	25.	20.4	116.	15.	7.8

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12510200: CORRAL CANYON CREEK NEAR BENTON CITY

LATITUDE 46°17' 3" LONGITUDE 119°32' 6"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/04/75	1345	22.	21.8	55.	15.	3.3
8/14/75	1540	21.	20.6	36.	4.	2.0
8/19/75	1425	52.	19.6	181.	8.	25.
8/20/75	1105	60.	18.4	122.	7.	20.
8/26/75	1315	10.	18.4	45.	2.	1.2
9/02/75	1200	22.	16.5	38.	2.	2.3
9/09/75	1245	16.	18.8	29.	1.	1.3
9/17/75	1100	23.	15.5	33.	1.	2.0
9/23/75	1205	22.	16.7	31.	1.	1.8
10/21/75	0950	20.	11.6	35.	1.	1.9
3/02/76	0950	3.0	5.2	28.	2.	0.2
3/09/76	0920	3.0	8.2	4.	1.	0.0
3/16/76	1200	2.5	12.0	8.	2.	0.1
3/22/76	1025	18.	8.2	256.	40.	12.
3/25/76	0915	34.	6.6	484.	60.	44.
3/30/76	1145	33.	10.2	146.	24.	13.
4/01/76	0845	15.	5.8	69.	10.	2.8
4/05/76	0930	20.	10.9	104.	7.	5.6
4/08/76	0935	9.5	10.8	281.	7.	7.2
4/12/76	1150	7.0	13.8	74.	12.	1.4
4/15/76	0920	8.0	9.1	51.	9.	1.1
4/20/76	0950	11.	13.0	77.	6.	2.3
4/23/76	1430	12.	14.6	105.	7.	3.4
4/26/76	1100	18.	10.7	114.	6.	5.5
4/29/76	0935	7.5	11.8	48.	5.	1.0
5/04/76	1500	8.0	18.0	48.	7.	1.0
5/06/76	0845	5.5	11.8	35.	8.	0.5
5/11/76	1400	6.5	18.6	31.	5.	0.5
5/14/76	1200	9.0	16.4	131.	21.	3.2
5/20/76	0900	11.	12.3	89.	9.	2.6
5/25/76	1415	26.	16.8	895.	17.	63.
5/28/76	1240	15.	15.5	81.	13.	3.3
6/02/76	1345	20.	16.5	69.	6.	3.7
6/04/76	1145	26.	15.3	71.	9.	5.0
6/07/76	0930	19.	16.1	77.	6.	4.0
6/11/76	1345	13.	17.2	71.	9.	2.5
6/15/76	1545	16.	15.7	60.	8.	2.6
6/18/76	1245	16.	19.9	90.	14.	3.9
6/21/76	0920	15.	16.2	73.	12.	3.0
6/25/76	1445	18.	16.7	151.	16.	7.3

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12510200: CORRAL CANYON CREEK NEAR BENTON CITY

LATITUDE 46°17' 3" LONGITUDE 119°32' 6"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
6/29/76	1330	22.	22.0	105.	12.	6.2
7/02/76	1145	22.	18.1	65.	8.	3.9
7/07/76	1315	13.	20.5	74.	7.	2.6
7/09/76	1245	23.	20.4	79.	9.	4.9
7/12/76	1625	29.	21.4	75.	6.	5.9
7/15/76	1000	20.	17.5	57.	6.	3.1
7/20/76	1315	13.	18.6	162.	4.	5.7
7/23/76	1415	13.	21.4	44.	10.	1.5
7/27/76	1345	9.0	19.7	29.	8.	0.7
7/30/76	1400	15.	20.8	45.	9.	1.8
8/02/76	1050	19.	18.7	47.	6.	2.4
8/05/76	0930	22.	17.8	63.	7.	3.7
8/09/76	1025	32.	17.8	88.	10.	7.6
8/16/76	1745	22.	17.7	88.	9.	5.2
8/19/76	1000	22.	15.7	59.	6.	3.5
8/23/76	1000	19.	17.6	44.	4.	2.3
8/26/76	1015	34.	16.0	115.	7.	11.
8/30/76	1015	34.	17.5	78.	4.	7.2
9/03/76	1430	14.	19.0	38.	3.	1.4
9/08/76	1245	18.	16.7	77.	6.	3.7
9/10/76	1130	20.	15.2	34.	6.	1.8
9/15/76	1530	22.	17.6	146.	10.	8.7
9/17/76	1415	32.	--	196.	7.	17.
9/21/76	1230	30.	--	68.	4.	5.5
9/24/76	1030	34.	16.1	73.	6.	6.7
9/28/76	1500	34.	18.3	118.	7.	11.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12510500: YAKIMA RIVER AT KIONA

LATITUDE 46°15'13". LONGITUDE 119°28'37"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
3/12/75	1045	5310.	6.5	50.	4.	717.
3/18/75	1400	4340.	7.0	33.	6.	387.
3/20/75	1340	4300.	6.5	27.	4.	313.
3/24/75	1405	3780.	8.0	27.	5.	276.
3/26/75	1410	3570.	7.0	32.	6.	308.
3/28/75	1220	3110.	6.0	17.	4.	143.
4/01/75	1535	3380.	9.5	26.	1.	237.
4/04/75	1400	3280.	8.0	23.	3.	204.
4/08/75	1405	2950.	9.5	23.	1.	183.
4/10/75	1400	2810.	10.0	16.	2.	121.
4/15/75	1450	4460.	11.0	75.	2.	903.
4/21/75	1405	4670.	12.0	50.	--	630.
4/23/75	1415	4130.	12.0	39.	10.	435.
4/28/75	1105	4180.	12.0	39.	4.	440.
5/01/75	1150	3170.	13.0	33.	9.	282.
5/05/75	1040	4400.	12.0	54.	10.	642.
5/08/75	1835	3340.	16.0	32.	10.	289.
5/14/75	1650	9180.	16.0	172.	20.	4260.
5/18/75	1230	12400.	13.0	204.	20.	6820.
5/23/75	1140	11600.	14.0	156.	20.	4880.
5/29/75	1545	8340.	17.0	125.	20.	2810.
6/01/75	1230	9270.	18.0	121.	20.	3020.
6/03/75	1150	11700.	17.0	208.	30.	6570.
6/06/75	1435	9180.	13.0	124.	20.	3070.
6/10/75	1245	7030.	18.0	135.	20.	2560.
6/16/75	1415	7500.	17.0	104.	20.	2100.
6/19/75	1245	5670.	15.0	73.	10.	1110.
6/23/75	1415	5620.	17.0	77.	10.	1160.
6/25/75	1620	4830.	18.0	56.	20.	730.
6/27/75	1500	4500.	15.0	51.	20.	620.
7/02/75	1515	2390.	18.0	29.	20.	187.
7/04/75	1500	3420.	18.0	54.	10.	499.
7/09/75	1515	4890.	20.0	84.	20.	1100.
7/12/75	1300	4320.	20.0	78.	20.	910.
7/16/75	1140	2940.	17.0	39.	10.	310.
7/18/75	1145	2120.	20.2	30.	9.	172.
7/22/75	1340	2070.	23.4	31.	9.	173.
7/28/75	1330	1510.	26.1	32.	7.	130.
7/31/75	1340	1500.	21.8	31.	10.	126.
8/04/75	1315	1730.	24.0	30.	6.	140.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12510500: YAKIMA RIVER AT KIONA

LATITUDE 46°15'13" LONGITUDE 119°28'37"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
8/14/75	1610	1330.	24.4	16.	4.	57.
8/19/75	1450	2850.	21.4	50.	4.	385.
8/20/75	1020	3540.	19.8	90.	3.	860.
8/26/75	1430	3240.	19.6	77.	3.	674.
9/02/75	1315	2580.	18.8	28.	2.	195.
9/09/75	1330	3100.	20.2	19.	1.	159.
9/17/75	1150	1650.	17.8	17.	1.	76.
9/23/75	1310	1980.	17.8	19.	1.	102.
3/02/76	0915	3490.	3.4	17.	3.	160.
3/09/76	0900	3140.	5.6	10.	2.	85.
3/16/76	1115	3240.	7.6	16.	6.	140.
3/22/76	0955	4400.	6.7	34.	7.	404.
3/25/76	0950	3840.	7.2	47.	15.	487.
3/30/76	1115	3870.	9.9	36.	13.	376.
4/01/76	0830	5130.	7.4	160.	6.	2210.
4/05/76	0900	5440.	9.4	58.	4.	852.
4/08/76	0915	7170.	9.3	128.	8.	2470.
4/12/76	1125	10200.	11.0	211.	12.	5810.
4/15/76	0855	9720.	7.8	119.	7.	3120.
4/20/76	0930	6350.	10.3	64.	4.	1090.
4/23/76	1445	5820.	11.8	54.	4.	849.
4/26/76	1040	5460.	10.4	44.	4.	649.
4/29/76	0905	3910.	11.3	30.	3.	317.
5/04/76	1515	8640.	14.0	147.	12.	3420.
5/06/76	0820	7120.	11.5	80.	7.	1530.
5/11/76	1415	10400.	13.7	184.	18.	5160.
5/14/76	1230	8080.	14.4	104.	12.	2260.
5/20/76	0845	6310.	12.1	61.	7.	1030.
5/25/76	1430	7050.	14.0	70.	4.	1330.
5/28/76	1300	6360.	14.2	51.	6.	876.
6/02/76	1400	5310.	14.2	52.	5.	746.
6/04/76	1200	3430.	15.1	33.	4.	306.
6/07/76	0915	2460.	17.4	28.	3.	186.
6/11/76	1400	2890.	18.9	38.	6.	297.
6/15/76	1600	2220.	17.8	26.	5.	156.
6/18/76	1300	2630.	19.5	32.	4.	227.
6/21/76	0900	4380.	18.1	93.	4.	1090.
7/02/76	1200	3870.	17.6	50.	5.	522.
7/13/76	1615	4530.	20.6	58.	4.	709.
7/15/76	0930	3270.	18.3	43.	3.	380.

TABLE 4. -- SUMMARY OF STREAMFLOW AND SUSPENDED-SEDIMENT DATA AT SELECTED SITES--CON.

12510500: YAKIMA RIVER AT KIONA

LATITUDE 46°15'13" LONGITUDE 119°28'37"

DATE	TIME	WATER DISCHARGE (CFS)	TEMP (C)	SUSPENDED-SEDIMENT CONCENTRATION (MG/L)	TURBIDITY (NTU)	SEDIMENT DISCHARGE (TONS/DAY)
7/20/76	1330	2070.	21.7	34.	9.	190.
7/23/76	1430	1650.	24.2	28.	10.	125.
7/27/76	1400	1820.	22.3	34.	9.	167.
7/30/76	1430	1480.	24.2	25.	8.	100.
8/02/76	1030	1850.	21.4	34.	7.	170.
8/05/76	0915	2170.	21.1	43.	6.	252.
8/09/76	1010	3270.	19.9	69.	6.	609.
8/16/76	1800	2500.	19.0	37.	7.	250.
8/19/76	0930	2790.	17.4	44.	5.	331.
8/23/76	0930	2190.	19.3	26.	2.	154.
8/26/76	1000	1990.	18.3	24.	4.	129.
8/30/76	0945	2510.	19.4	33.	4.	224.
9/03/76	1445	1900.	22.1	20.	4.	103.
9/08/76	1300	2180.	18.1	25.	5.	147.
9/10/76	1145	2120.	17.0	20.	6.	114.
9/15/76	1545	2150.	18.2	27.	4.	157.
9/21/76	1245	2270.	--	14.	4.	86.
9/24/76	1045	2060.	18.1	17.	3.	95.
9/28/76	1515	2180.	19.1	13.	3.	77.