120.01
G797
19159
Please keep with the Special Report!

APPENDIX

SOME ASPECTS of TROPHIC INTERACTIONS in SELECTED BACKWATERS and the MAIN CHANNEL of the GREEN RIVER, UTAH 1987 - 1988

By

Stephen J. Grabowski

and

Steven D. Hiebert

BUREAU OF RECLAMATION
Denver Office
Research and Laboratory Services Division
Applied Sciences Branch
Environmental Sciences Section
Denver, Colorado
March, 1988

Performed for
BUREAU OF RECLAMATION
Upper Colorado Regional Office
Salt Lake City, Utah

TABLE OF CONTENTS

FIGURES

Page

Figure 1. - Water temperature for Island Park main river and backwaters, July to October, 1988.....17

Figure 2. - Water temperature for Jensen main river and backwaters, July to October, 1988.....17

Figure 3. - Water temperature for Ouray main river and backwaters, July to October, 1988.....18

Figure 4. - Dissolved oxygen, mg/ L, for Island Park main river and backwaters, July to October, 1988.....18

Figure 5. - Dissolved oxygen, mg/L, for Jensen main river and backwaters, July to October, 1988.....19

Figure 6. - Dissolved oxygen, mg/L, for Ouray main river and backwaters, July to October, 1988.....19

Figure 7. - pH for Island Park main river and backwaters, July to October, 1988.....20

Figure 8. - pH for Jensen main river and backwaters, July to October, 1988.....20

Figure 9. - pH for Ouray main river and backwaters, July to October, 1988.....21

Figure 10. - Specific conductance, uS/cm, for Island Park main river and backwaters, July to October, 1988....21

Figure 11. - Specific conductance, uS/cm, for Jensen main river and backwaters, July to October, 1988.....22

Figure 12. - Specific conductance, uS/cm, for Ouray main river and backwaters, July to October, 1988.....22

Figure 13. - E_7 for Island Park main river and backwaters, July to October, 1988.....23

Figure 14. - E_7 for Jensen main river and backwaters, July to October, 1988.....23

Figure 15. - E_7 for Ouray main river and backwaters, July to October, 1988.....24

Figure 16. - Turbidity, NTU, for Island Park main river and backwaters, July to October, 1988.....24

Figure 17. - Turbidity, NTU, for Jensen main river and backwaters, July to October, 1988.....25

Figure 18. - Turbidity, NTU, for Ouray main river and backwaters, July to October, 1988.....25

Figure 19. - Light extinction coefficient for Island Park main river and backwaters, July to October, 1988....26

Figure 20. - Light extinction coefficient for Jensen main river and backwaters, July to October, 1988.....26

Figure 21. - Light extinction coefficient for Ouray main river and backwaters, July to October, 1988.....27

Figure 22. - Secchi depth, m, for Island Park main river and backwaters, July to October, 1988.....27

Figure 23. - Secchi depth, m, for Jensen main river and backwaters, July to October, 1988.....28

Figure 24. - Secchi depth, m, for Ouray main river and backwaters, July to October, 1988.....28

Figure 25. - Sodium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987....34

Figure 26. - Potassium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987....34

Figure 27. - Calcium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987....35

Figure 28. - Magnesium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987....35

Figure 29. - Bicarbonate (mg/L) for the main river and two backwaters at Island Park, June to October, 1987....36

Figure 30. - Sulfate (mg/L) for the main river and two backwaters at Island Park, June to October, 1987....36

Figure 31. - Chloride (mg/L) for the main river and two backwaters at Island Park, June to October, 1987....37

Figure 32. - Sodium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.....38

Figure 33. - Potassium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.....38

Figure 34. - Calcium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.....39

Figure 35. - Magnesium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.....39

Figure 36. - Bicarbonate (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.....40

Figure 37. - Sulfate (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.....40

Figure 38. - Chloride (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.....41

Figure 39. - Sodium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.....42

Figure 40. - Potassium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.....42

Figure 41. - Calcium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.....43

Figure 42. - Magnesium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.....43

Figure 43. - Bicarbonate (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.....44

Figure 44. - Sulfate (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.....44

Figure 45. - Chloride (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.....45

Figure 46. - Number per liter of three major zooplankton groups in the river at Island Park from June to November, 1987.....65

Figure 47. - Number per liter of three major zooplankton groups in BA 332.2 at Island Park from June to November, 1987.....65

Figure 48. - Number per liter of three major zooplankton groups in BA 333.2 at Island Park from June to November, 1987.....66

Figure 49. - Number per liter of three major zooplankton groups in the river at Jensen from June to November, 1987.....67

Figure 50. - Number per liter of three major zooplankton groups in BA 300.26 at Jensen from June to November, 1987.....67

Figure 51. - Number per liter of three major zooplankton groups in BA 300.27 at Jensen from June to November, 1987.....68

Figure 52. - Number per liter of three major zooplankton groups in BA 298.6 at Jensen from June to November, 1987.....68

Figure 53. - Number per liter of three major zooplankton groups in the river at Ouray from June to November, 1987.....69

Figure 54. - Number per liter of three major zooplankton groups in BA 251.0 at Ouray from June to November, 1987.....69

Figure 55. - Number per liter of three major zooplankton groups in BA 250.8 at Ouray from June to November, 1987.....70

Figure 56. - Number per liter of three major zooplankton groups in BA 249.7 at Ouray from June to November, 1987.....70

Figure 57. - Percent chironomid larvae in Island Park main river and backwaters, July to October, 1988...124

Figure 58. - Percent chironomid larvae in Jensen main river and backwaters, July to October, 1988.....124

Figure 59. - Percent chironomid larvae in Ouray main river and backwaters, July to October, 1988.....125

Figure 60. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Island Park river, July to October, 1988.....125

Figure 61. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Island Park BA 333.2, July to October, 1988.....126

Figure 62. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Island Park BA 327.6, July to October, 1988.....126

Figure 63. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen river, July to October, 1988.....127

Figure 64. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 300.6, July to October, 1988.....127

Figure 65. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 300.5, July to October, 1988.....128

Figure 66. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 298.6, July to October, 1988.....128

Figure 67. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 298.4, July to October, 1988.....129

Figure 68. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray river, July to October, 1988.....129

Figure 69. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 251.0, July to October, 1988.....130

Figure 70. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 250.8, July to October, 1988.....130

Figure 71. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 250.7, July to October, 1988.....131

Figure 72. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 249.3, July to October, 1988.....131

TABLES

Page

Table 1. - Volumes of backwaters sampled at Island Park, Jensen, and Ouray on the Green River, Utah, in 1987.....1

Table 2. - Surface area and volumes of backwaters sampled at Island Park, Jensen, and Ouray on the Green River, Utah, in 1988.....2

Table 3. - Limnological parameters measured in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987.....3

Table 4. - Temperature (C) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....7

Table 5. - Dissolved oxygen (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....8

Table 6. - pH for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....9

Table 7. - Specific conductance (uS/cm) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....10

Table 8. - Oxidation-reduction potential for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....11

Table 9. - E7 for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....12

Table 10. - Turbidity (NTU) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....13

Table 11. - Light extinction coefficient for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....14

Table 12. - Secchi depth (m) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....15

Table 13. - Total dissolved solids (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....16

Table 14. - Total dissolved solids (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to October, 1987.....29

Table 15. - Major cations and anions for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987.....30

Table 16. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987.....46

Table 17. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....49

Table 18. - Average heavy metal concentrations (ug/L) in the main river and selected backwaters at Island Park, Jensen, and Ouray for the 1987 sampling season.....54

Table 19. - Concentrations (ug/L) for six heavy metals in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to October, 1987.....55

Table 20. - Chlorophyll a concentrations (mg/m^3) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.....57

Table 21. - Concentration (g/m^3) of <25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1987.....58

Table 22. - Concentration (g/m^3) of >25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1987.....58

Table 23. - Concentration (g/m^3) of <25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.....59

Table 24. - Concentration (g/m^3) of >25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.....60

Table 25. - Percent organic material of the total suspended solids in the <25 um size-fraction in the river and selected backwaters at Island Park, Jensen, and Ouray in 1988.....61

Table 25A.- Percent organic material of the total suspended solids in the >25 um size-fraction in the river and selected backwaters at Island Park, Jensen, and Ouray in 1988.....62

Table 26. - Average annual concentrations of major groups of phytoplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.....63

Table 27. - Average annual concentrations of major groups of nannoplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.....64

Table 28. - Average annual concentrations of major groups of zooplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.....71

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987..74

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987..85

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988...96

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988..110

Table 33. - Density per m^3 of Colorado squawfish collected in Green River backwaters at Island Park, Jensen, and Ouray in 1987.....132

Table 34. - Density per m^3 of larval and juvenile fish collected in Green River backwaters at Island Park, Jensen, and Ouray in 1987.....133

Table 35. - Percent frequency of occurrence of major food items in stomachs of larval and juvenile fish collected in Green River backwaters at Island Park, Jensen, and Ouray in 1988.....134

Table 36. - Food items and percent frequency of occurrence from larval speckled dace stomachs collected in 1988 from Green River backwaters.....135

Table 37. - Food items and percent frequency of occurrence from juvenile speckled dace stomachs collected in 1988 from Green River backwaters.....136

Table 38. - Food items and percent frequency of occurrence from juvenile red side shiner stomachs collected in 1988 from Green River backwaters.....137

Table 39. - Food items and percent frequency of occurrence from juvenile flannelmouth sucker stomachs collected in 1988 from Green River backwaters.....138

Table 40. - Food items and percent frequency of occurrence from larval sand shiner stomachs collected in 1988 from Green River backwaters.....140

Table 41. - Food items and percent frequency of occurrence from juvenile sand shiner stomachs collected in 1988 from Green River backwaters.....141

Table 42. - Food items and percent frequency of occurrence from larval red shiner stomachs collected in 1988 from Green River backwaters.....142

Table 43. - Food items and percent frequency of occurrence from juvenile red shiner stomachs collected in 1988 from Green River backwaters.....144

Table 44. - Food items and percent frequency of occurrence from larval Gila sp. stomachs collected in 1988 from Green River backwaters.....146

Table 45. - Food items and percent frequency of occurrence from juvenile Gila sp. stomachs collected in 1988 from Green River backwaters.....147

Table 46. - Food items and percent frequency of occurrence from larval fathead minnow stomachs collected in 1988 from Green River backwaters.....148

Table 47. - Food items and percent frequency of occurrence from juvenile fathead minnow stomachs collected in 1988 from Green River backwaters.....149

Table 48. - Food items and percent frequency of occurrence from juvenile carp stomachs collected in 1988 from Green River backwaters.....150

Table 49. - Food items and percent frequency of occurrence from juvenile green sunfish stomachs collected in 1988 from Green River backwaters.....151

Table 50. - Food items and percent frequency of occurrence from juvenile channel catfish stomachs collected in 1988 from Green River backwaters.....152

Table 51. - Food items and percent frequency of occurrence from juvenile white sucker stomachs collected in 1988 from Green River backwaters.....153

Table 52. - Food items and percent frequency of occurrence from juvenile bluehead sucker stomachs collected in 1988 from Green River backwaters.....154

TAble 53. - Food items and percent frequency of occurrence from larval bluehead sucker stomachs collected from Green River backwaters.....155.

Table 1. - Volumes of backwaters sampled at Island Park, Jensen, and Ouray on the Green River, Utah, in 1987.

SITE	STACODE (RMI)	JUNE 2-4	JUNE 23-25	JULY 21-23	AUG 4-6	AUG 18-20	SEPT 1-3	SEPT 22-24	OCT 20-22	NOV 18-20
IP-BA-BIG	333.2				862.4	852.03	880.01	957.86	1249.4	
IP-BA-GRD	332.2			2	1.04	7.82	4.01	0.79	2.01	60.73
JN-BA-NEA	300.27				5.19	24.31	28.61			
JN-BA-REF	300.26				552.49	147.53	132.49	132.78	133.6	
JN-BA-ABS	298.60			143.21	160.25	189.32	172.36	60.22	68.36	
OU-BA-NEA	251.00			512.41	515.73	493.92	509.04	225.09	248.82	
OU-BA-MOU	250.80			253.1	163.43	500.2	545.68	231.7	328.77	
OU-BA-OLD	249.70			111.62	65.69	60.48	128.83	107.19	111.15	

Table 2. - Surface area and volumes of backwaters sampled at Island Park, Jensen, and Ouray on the Green River, Utah, in 1988.

SAMPLING LOCATION	RIVERMILE INDEX	JULY 12-14 VOLUME	JULY 12-14 SURFACE	JULY 26-28 VOLUME	JULY 26-28 SURFACE	AUG 9-11 VOLUME	AUG 9-11 SURFACE	AUG 23-25 VOLUME	AUG 23-25 SURFACE	SEPT 6-8 VOLUME	SEPT 6-8 SURFACE	SEPT 20-22 VOLUME	SEPT 20-22 SURFACE	OCT 11-13 VOLUME	OCT 11-13 SURFACE
RIVER FLOW	[illegible]														
IP-BA-BIGISL	303.70	720.27	2830.30	657.45	2596.80	204.55	1564.50	222.37	2035.20	533.05	1949.50	322.45	2139.50	519.92	2469.60
IP-BA-RHINBO	327.00	429.40	1009.40	210.77	692.29	506.17	1733.77	347.66	1297.10	316.58	1184.80	404.66	1309.30	296.95	1495.90
JN-BA-EPHEM	300.60	1.59	42.90	24.27	235.29	2.91	22.57	13.24	150.90	19.27	259.14	7.98	137.30	4.02	117.65
JN-BA-PUMPS	300.50	450.83	779.50	365.76	757.90	272.98	576.63	288.10	646.35	131.25	447.15	189.11	557.34	211.36	597.92
JN-BA-ABVSUU	298.60	7.72	66.40	7.09	61.99	151.33	1517.96	128.39	664.30	43.07	377.05	37.93	312.52	81.37	575.86
JN-BA-BLWSUU	298.40	6.35	108.10	1.45	34.49	1.44	36.74	1.04	24.54	0.32	8.54	0.76	19.52	0.75	34.46
OU-BA-NEARRE	251.01	254.73	543.50	154.57	397.12	61.92	240.96	59.07	319.63	20.63	211.25	62.19	321.97	58.11	329.90
OU-BA-MOULT	250.60	67.32	459.00	31.80	325.58	4.74	120.60	7.33	127.15	6.58	108.52	5.33	112.56	3.56	78.20
OU-BA-SANDBE	250.60	27.36	94.50	19.43	78.99	59.47	183.39	53.46	158.20	41.85	158.15	54.41	168.68	46.59	164.44
OU-BA-OLDCHA	249.30	155.04	606.90	70.12	312.10	12.82	86.15	14.89	90.40	5.32	59.70	15.84	97.70	20.44	120.33

Table 3. - Limnological parameters measured in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987.

SITE	TEMPERATURE, C	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	16.5	19.26	19.33	20.81	17.56	18.29	15	9.58	4.54
	BA - 332.2	16.7	20.63	20.44	22.06	18.7	18.76	15.16	9.96	3.8
	BA - 333.2	30.1	22.58	25.73	26.83	22.8	21.22	19.31	11.09	5.36
		3 JUN	24 JUN	22 JUL	5 AUG	19 AUG	2 SEP	23 SEP	21 OCT	18 NOV
JENSEN	RIVER	18.3	20.23	22.4	22.55	18.86	19.55	14.76	8.74	3.43
	BA - 300.26	22.8	18.9	22.08	20.22	17.28	17.2	12.29	5.96	3.46
	BA - 300.27		21.7	25.85	25.38	21.36	21.23	19.4	13.91	3.68
	BA - 298.6		25.6	27.96	29.94	23.08	23.33	19.07	13.02	5.25
		4 JUN	25 JUN	23 JUL	6 AUG	20 AUG	3 SEP	24 SEP	22 OCT	19 NOV
OURAY	RIVER	19.8	22.8	22.5	24.18	21.38	20.81	16.47	9.64	1.72
	BA - 251.0	21.7	22.3	23.05	24.12	20.33	20.36	15.1	9.27	2.2
	BA - 250.8		24.3	28.6	30.98	22.4	21	18.42	11.96	3.25
	BA - 249.7		29.2	29.71	26.24	24.04	24.35	21.64	14.41	5.24

SITE	DISSOLVED OXYGEN, mg/L	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	8.1	7.33	8.03	7.7	7.45	8.34	9.22	9.7	10.64
	BA - 332.2	7.6	7.22	7.89	7.66	7.32	8.77	8.14	9.89	8.46
	BA - 333.2	6.76	7.94	7.75	7.06	7.36	7.04	8.56	9.9	10.66
JENSEN	RIVER	7.65	7.12	6.95	6.98	7.2	7.51	8.35	9.42	11.38
	BA - 300.26	7.58	5.5	4.7	4.15	5.84	7.01	8.26	8.04	9.75
	BA - 300.27		7.01	5.88	7.28	7.64	7.69	9.2	10.41	9.36
	BA - 298.6		7.14	7.34	7.68	7.5	7.75	8.81	9.51	9.3
OURAY	RIVER	7.51	6.82	6.7	6.5	6.65	7.49	8.56	9.11	11.51
	BA - 251.0	7.89	7.32	6.73	6.26	7.45	6.9	7.37	9.61	9.51
	BA - 250.8		6.3	6.81	9.81	7.59	7.61	8.76	9.28	10.09
	BA - 249.7		6.37	6.75	5.23	7.08	9.06	9.29	9.6	8.91

Table 3. - Limnological parameters measured in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

SITE	pH	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	8.4	8.58	8.65	8.64	8.52	8.71	8.78	8.64	8.46
	BA - 332.2	8.1	8.5	8.61	8.5	8.42	8.64	8.75	8.65	7.6
	BA - 333.2	8.47	8.47	8.36	8.39	8.45	8.45	8.53	8.46	8.54
JENSEN	RIVER	8.43	8.46	8.44	8.56	8.47	8.63	8.72	8.64	8.47
	BA - 300.26	8.57	8.22	7.87	7.95	8.45	8.44	8.6	8.5	8.5
	BA - 300.27		8.51	8.44	8.57	8.46	8.59	8.59	8.49	8.52
	BA - 298.6		8.5	8.26	8.52	8.46	8.59	8.63	8.45	8.5
OURAY	RIVER	8.47	8.53	8.47	8.58	8.33	8.6	8.67	8.6	8.46
	BA - 251.0	8.5	8.46	8.05	8.53	8.53	8.63	8.69	8.62	8.45
	BA - 250.8		8.36	8.37	8.37	8.45	8.49	8.56	8.5	8.47
	BA - 249.7		8.41	8.49	8.33	8.43	8.64	8.69	8.58	8.45

SITE	SPECIFIC CONDUCTANCE, uS/cm	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	451	511	637	648	637	659	779	745	713
	BA - 332.2	453	513	639	648	643	660	779	743	653
	BA - 333.2	759	564	739	791	702	753	854	784	713
JENSEN	RIVER	463	525	650	669	647	669	772	761	716
	BA - 300.26	465	542	700	764	714	693	780	751	729
	BA - 300.27		526	660	664	650	669	781	758	720
	BA - 298.6		528	658	669	660	673	772	771	711
OURAY	RIVER	486	548	729	713	704	718	804	806	749
	BA - 251.0	482	544	720	733	706	712	801	799	767
	BA - 250.8		554	724	801	705	715	811	802	772
	BA - 249.7		545	722	724	698	711	791	798	749

Table 3. - Limnological parameters measured in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

SITE	LIGHT EXTINCTION COEFFICIENT	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	5.63	1.78		1.51	12.06	1.23	1.34	0.98	2.06
	BA - 332.2	4.23		2.25		11.29	1.3	2.71	0.72	2.11
	BA - 333.2		2.59	2.39	4.77	6.45	4.42	2.26	0.95	2.63
JENSEN	RIVER	6.92	2.2	12.96	2.2	8.69	3.3	1.79	1.25	2.07
	BA - 300.26	3.91	4.71	5.17	3.42	8.27	2.14	1.69	1.23	2.52
	BA - 300.27				2.67	6.11	2.23			2.16
	BA - 298.6		4.31	4.4	3.94	4.69	1.88	2.02	1.03	1.01
OURAY	RIVER	9.12	3.07	4.91	2.76		4.21	2.53	2.04	2.63
	BA - 251.0	5.39	2.85	4.2	6.75	1.99	5.01	2.32	1.9	1.85
	BA - 250.8		6.21	7.37		5.8	6.71	5.28	1.63	1.49
	BA - 249.7		5.81	3.29	2.75	9.81	4.95	2.82	2.38	1.94

SITE	SECCHI DEPTH, m	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	0.22	0.6	0.4	0.85	0.11	0.85	1.15	1.3	0.4
	BA - 332.2	0.25	0.5	0.38		0.12	0.3	0.23	0.22	0.2
	BA - 333.2		0.4	0.3	0.35	0.2	0.35	0.48	0.55	0.55
JENSEN	RIVER	0.2	0.55	0.4	0.65	0.19	0.04	0.55	1	0.5
	BA - 300.26	0.3	0.27	0.2	0.4	0.17	0.52	0.45	0.55	0.5
	BA - 300.27		0.2			0.2	0.2	0.1	0.2	0.3
	BA - 298.6		0.25	0.27	0.23	0.2	0.32	0.2	0.25	0.6
OURAY	RIVER	0.18	0.4	0.32	0.43	0.01	0.25	0.45	0.5	0.41
	BA - 251.0	0.21	0.32	0.28	0.28	0.36	0.23	0.22	0.33	0.48
	BA - 250.8		0.2	0.2		0.1	0.2	0.2	0.2	0.35
	BA - 249.7		0.3	0.37	0.28	0.12	0.2	0.4	0.35	0.4

Table 3. - Limnological parameters measured in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

SITE	TURBIDITY NTU	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	51	14.7	25.8	12.2	175.3	14	9.2	9	22.3
	BA - 332.2	40	18.3	26.7	11.3	165.3	12.8	9.6	10.7	17.5
	BA - 333.2	16.5	19.7	39.7	32.3	80.5	35.8	16.5	10	18.8
JENSEN	RIVER	68.5	18.3	36.3	18.2	100.6	32.5	15	12.3	31.7
	BA - 300.26	37.5	52.7	50.3	22.8	77.6	25.3	8	10.4	14
	BA - 300.27		29.7	64.7	17	67.1	32.5	13	8	18.5
	BA - 298.6		37	51	66.3	71.3	28.5	9.3	10.1	13.7
OURAY	RIVER	70.3	32.7	59	31.3	946	57.8	20.7	24.5	32.2
	BA - 251.0	47	35.7	49.7	70.7	30.3	60	26	21.5	16.3
	BA - 250.8		55.3	116.7	30.8	97.7	83.8	56	32.3	12.2
	BA - 249.7		29.3	31	33.3	133.3	72.6	26	20.5	17.3

SITE	E7	2 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV
ISLAND PARK	RIVER	406	423	409	408	424	460	507	500	404
	BA - 332.2	402	426	438	395	399	387	458	498	333
	BA - 333.2	387	424	463	401	472	448	495	526	437
JENSEN	RIVER	415	455	423	412	496	426	486	522	472
	BA - 300.26	382	405	422	400	489	463	474	503	445
	BA - 300.27		462	456	411	484	492	460	520	463
	BA - 298.6		424	423	465	484	472	512	519	402
OURAY	RIVER	490	430	444	485	436	463	503	517	538
	BA - 251.0	469	436	416	468	426	464	511	499	525
	BA - 250.8		415	427	491	463	482	485	508	505
	BA - 249.7		442	433	457	473	503	493	499	420

Table 4. - Temperature (C) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	23.3	20.42	19.18	19.77	18.06	11.01	10.59	17.5	4.48
IP-BA-333.2	25.58	22.5	21.73	24.92	23.06	13.6	11.33	20.4	5.20
IP-BA-327.6	24	24.03	25.97	25.82	23.21	17.3	14.26	22.1	4.17
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		0.00
JN-RIVER	22.6	23.95	20.77	21.31	19.38	13.59	10.63	18.9	4.56
JN-BA-300.6	25.99	26.36	22.89	22.03	17.94	13.81	10.66	20.0	5.59
JN-BA-300.5	24.62	23.58	23.24	22.23	19.8	16.14	10.44	20.0	4.72
JN-BA-298.6	29.81	28.85	32.67	26.03	26.71	14.01	13.06	24.4	7.19
JN-BA-298.4	29.8	28.09	27.33	35.15	28.05	16.84	14.95	25.7	6.70
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	24.58	24.5	22.39	24.31	20.22	14.86	11.74	20.4	4.77
OU-BA-251.0	25	26.1	21.73	24	19.9	15.57	10.28	20.4	5.27
OU-BA-250.8	27.8	29	27.41	31.57	28.3	20.07	17.38	25.9	4.78
OU-BA-250.7	28	27.49	25.12	28.95	25.51	18.39	14.72	24.0	4.98
OU-BA-249.3	27	28.17	24.68	23.6	18.82	13.93	11.22	21.1	6.07

Table 5. - Dissolved oxygen (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	6.86	7.72	6.74	8.68	8.57	9.29	9.02	8.1	0.95
IP-BA-333.2	7.14	7.14	6.61	6.86	8.83	7.2	8.38	7.5	0.76
IP-BA-327.6	6.8	7.23	7.07	7.45	7.79	9.01	9.01	7.8	0.84
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		0.00
JN-RIVER	6.39	6.9	6.37	6.64	7.58	8.17	8.6	7.2	0.83
JN-BA-300.6	7.77	8.61	7.29	6.87	6.75	9.06	7.89	7.7	0.80
JN-BA-300.5	6.75	6.75	6.75	7.52	7.65	9.45	8.79	7.7	1.00
JN-BA-298.6	6.48	7.72	7.78	7.51	11.26	9.11	8.73	8.4	1.42
JN-BA-298.4	7.4	8.22	6.72	10.3	9.22	10.25	10.66	9.0	1.44
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	6.53	7.11	6.24	6.5	7.7	8.56	8.82	7.4	0.96
OU-BA-251.0	6.03	6.76	4.73	6.08	7.62	8.58	7.9	6.8	1.22
OU-BA-250.8	5.3	7.57	4.57	7.83	9.18	9.82	10.2	7.8	2.02
OU-BA-250.7	6.3	7.67	7.02	7.37	8.37	9.94	9.47	8.0	1.22
OU-BA-249.3	6.35	6.85	6.55	6.33	8.26	8.46	8.74	7.4	0.99

Table 6. - pH for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	8.61	8.61	8.56	8.67	8.78	8.74	8.47	8.6	0.10
IP-BA-333.2	8.41	8.26	8.2	8.13	8.29	8.24	8.1	8.2	0.10
IP-BA-327.6	8.6	8.45	8.46	8.5	8.6	8.6	8.44	8.5	0.07
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER	8.54	8.59	8.47	8.56	8.57		8.47	8.5	0.05
JN-BA-300.6	8.51	8.68	8.53	8.56	8.22	8.62	8.14	8.5	0.19
JN-BA-300.5	8.5	8.52	7.89	8.1	7.94	7.94	7.39	8.0	0.36
JN-BA-298.6	8.49	8.68	8.56	8.55	8.62	8.63	8.42	8.6	0.08
JN-BA-298.4	8.58	8.73	8.47	8.67	8.6	8.66	8.48	8.6	0.09
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	8.51	8.58	8.59	8.52	8.58	8.62	8.46	8.6	0.05
OU-BA-251.0	8.44	8.54	8.11	8.35	8.48	8.55		8.4	0.15
OU-BA-250.8	8.37	8.58	8.46	8.34	8.48	8.58	8.5	8.5	0.09
OU-BA-250.7	8.48	8.63	8.52	8.47	8.51	8.65	8.46	8.5	0.07
OU-BA-249.3	8.46	8.52	8.52	8.49	8.61	8.54	8.49	8.5	0.04

Table 7. - Specific conductance (uS/cm) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	603	679	715	738	767	850	766	731.1	71.79
IP-BA-333.2	874	965	1317	1314	1520	1469	1480	1277.0	239.00
IP-BA-327.6	603	699	718	763	799	862	788	747.4	77.22
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER	642	698	728	762	793	864	784	753.0	66.48
JN-BA-300.6	628	695	749	776	1860	898	972	939.7	390.96
JN-BA-300.5	654	762	2280	1550	4530	3710	1660	2163.7	1356.37
JN-BA-298.6	632	690	748	747	800	857	799	753.3	69.50
JN-BA-298.4	633	711	723	748	778	853	863	758.4	75.22
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	624	698	753	787	849	872	819	771.7	81.16
OU-BA-251.0	625	703	789	794	889	836	832	781.1	82.76
OU-BA-250.8	625	704	756	785	815	876	826	769.6	77.64
OU-BA-250.7	624	702	759	789	826	874	811	769.3	77.51
OU-BA-249.3	630	677	752	784	833	870	816	766.0	79.95

Table 8. - Oxidation-reduction potential for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	166	108	112	120	145	166	177	142.0	26.53
IP-BA-333.2	125	158	141	143	142	216	243	166.9	41.23
IP-BA-327.6	111	140	136	146	189	207	212	163.0	36.38
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER	170	184	212	214	200		181	193.5	16.35
JN-BA-300.6	164	165	195	204	178	169	182	179.6	14.19
JN-BA-300.5	145	175	221	191	200	206	235	196.1	27.59
JN-BA-298.6	154	130	152	166	202	172	213	169.9	26.92
JN-BA-298.4	179	145	178	129	170	166	207	167.7	23.30
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	191	166	203	180	216	225	223	200.6	20.89
OU-BA-251.0	185	159	196	165	160	214		179.8	20.42
OU-BA-250.8	145	110	194	158	187	207	214	173.6	34.74
OU-BA-250.7	155	140	188	220	187	208	235	190.4	31.59
OU-BA-249.3	147	-27	130	170	172	169	235	142.3	75.40

Table 9. - E7 for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	461	402	402	417	448	464	459	436.1	26.01
IP-BA-333.2	409	432	411	410	418	486	505	438.7	37.08
IP-BA-327.6	405	426	423	435	483	499	494	452.1	35.77
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER	460	478	498	505	491		463	385.5	16.78
JN-BA-300.6	454	465	485	495	448	461	446	464.9	17.31
JN-BA-300.5	434	464	473	455	455	460	457	456.9	11.24
JN-BA-298.6	444	431	447	458	498	465	493	462.3	23.52
JN-BA-298.4	474	449	466	431	466	461	491	462.6	17.52
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	480	459	496	470	508	517	505	490.9	19.93
OU-BA-251.0	470	451	461	445	446	503		369.0	20.03
OU-BA-250.8	427	405	481	439	476	499	500	461.0	34.61
OU-BA-250.7	444	437	478	508	477	503	518	480.7	29.18
OU-BA-249.3	434	264	420	458	465	456	519	430.9	73.93

Table 10. - Turbidity (NTU) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	53.6	11.7	540	10.5	8.4	13.7	11.5	92.8	183.17
IP-BA-333.2	25.17	16.2	6.3	9.8	9.3	9.8	18.5	13.6	6.16
IP-BA-327.6	46.8	56	71.3	43	24.3	17.2	16.7	39.3	19.26
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER	49	19	297	19.7	9.7	19.7	10.5	60.7	97.25
JN-BA-300.6	37.7	12	71	15.2	4.9	18.8	17.5	25.3	20.84
JN-BA-300.5	41.3	29.3	20.7	15.8	8.8	14.2	6.5	19.5	11.33
JN-BA-298.6	78.7	27.3	11.3	78.5	126.7	55.3	48.3	60.9	35.33
JN-BA-298.4	28.5	19	79.3	13.7	23.7	23	17.7	29.3	20.89
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	62.8	35.8	71.8	39.2	23.7	75.3	32.3	48.7	19.24
OU-BA-251.0	38	53	98.7	41.3	24.3	58	50.8	52.0	21.70
OU-BA-250.8	92.5	84.3	238.5	50.3	19.8	26.3	28.8	77.2	70.97
OU-BA-250.7	63.8	27.5	68.8	40.7	34	38.3	25.5	42.7	15.82
OU-BA-249.3	50.3	97.7	81	54.7	41.3	75	39.2	62.7	20.49

Table 11. - Light extinction coefficient for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	8.16	1.42	5.5	0.93	0.73	1.75	1.24	2.8	2.65
IP-BA-333.2	6.88	0.91	1.23	1.42	1.38	1.03	1.61	2.1	1.98
IP-BA-327.6	4.25	5.6	6.96	4.91	2.64	2.26	1.51	4.0	1.82
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER	4.04	2.12	9.84	1.74	1.07	2.37	1.12	3.2	2.87
JN-BA-300.6			7.83	0.12				4.0	3.86
JN-BA-300.5	3.59	3.52	2.9	1.77	1.36	3.26	2.26	2.7	0.82
JN-BA-298.6		2.6		8.33		2.74	5.34	4.8	2.34
JN-BA-298.4									
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	5.36	2.64	5.35	2.56	1.34	5.45	2.24	3.6	1.63
OU-BA-251.0	5.64	3.18	9.83	8.39	2.46	4.85	4.26	5.5	2.50
OU-BA-250.8									
OU-BA-250.7	3.83	2.58	6.1	4.17	4.42	4.29	2.48	4.0	1.14
OU-BA-249.3	4.15	3.99	7.66	4.07	5.1	14.47	2.44	6.0	3.76

Table 12. - Secchi depth (m) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	0.2	0.7	0.05	0.9		0.82	0.9	0.6	0.34
IP-BA-333.2	0.3	0.5	0.45	0.4	0.4	0.42	0.38	0.4	0.06
IP-BA-327.6	0.27	0.2	0.25	0.2	0.45	0.45	0.4	0.3	0.10
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER		0.5	0.1	0.5	0.5	0.42	0.7	0.5	0.18
JN-BA-300.6	0.08	0.05	0.2	0.3	0.1	0.2	0.15	0.2	0.08
JN-BA-300.5	0.25	0.33	0.45	0.5	0.4	0.5	0.6	0.4	0.11
JN-BA-298.6	0.1	0.11	0.15	0.25	0.1	0.25	0.3	0.2	0.08
JN-BA-298.4	0.2	0.08	0.09	0.15	0.1	0.21	0.15	0.1	0.05
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	0.18	0.38	0.21	0.3	0.55	0.2	0.2	0.3	0.13
OU-BA-251.0	0.27	0.23	0.15	0.2	0.28	0.2	0.25	0.2	0.04
OU-BA-250.8	0.15	0.2	0.1	0.1	0.12	0.15	0.1	0.1	0.03
OU-BA-250.7	0.21	0.35	0.18	0.3	0.3	0.31	0.3	0.3	0.06
OU-BA-249.3		0.3	0.15	0.24	0.15	0.1	0.33	0.2	0.08

Table 13. - Total dissolved solids (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SITE	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	STD
IP-RIVER	384.05	423.57	442.29	454.25	469.33	512.49	468.81	450.7	37.33
IP-BA-333.2	524.97	572.29	755.33	753.77	860.89	834.37	840.09	734.5	124.28
IP-BA-327.6	384.05	433.97	443.85	467.25	485.97	518.73	480.25	459.2	40.16
	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT		
JN-RIVER	404.33	433.45	449.05	466.73	482.85	519.77	478.17	462.1	34.57
JN-BA-300.6	397.05	431.89	459.97	474.01	1037.69	537.45	575.93	559.1	203.30
JN-BA-300.5	410.57	466.73	1256.09	876.49	2426.09	1999.69	933.69	1195.6	705.31
JN-BA-298.6	399.13	429.29	459.45	458.93	486.49	516.13	485.97	462.2	36.14
JN-BA-298.4	399.65	440.21	446.45	459.45	475.05	514.05	519.25	464.9	39.12
	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT		
OU-RIVER	394.97	433.45	462.05	479.73	511.97	523.93	496.37	471.8	42.20
OU-BA-251.0	395.49	436.05	480.77	483.37	532.77	505.21	503.13	476.7	43.03
OU-BA-250.8	395.49	436.57	463.61	478.69	494.29	526.01	500.01	470.7	40.37
OU-BA-250.7	394.97	435.53	465.17	480.77	500.01	524.97	492.21	470.5	40.30
OU-BA-249.3	398.09	422.53	461.53	478.17	503.65	522.89	494.81	468.8	41.57

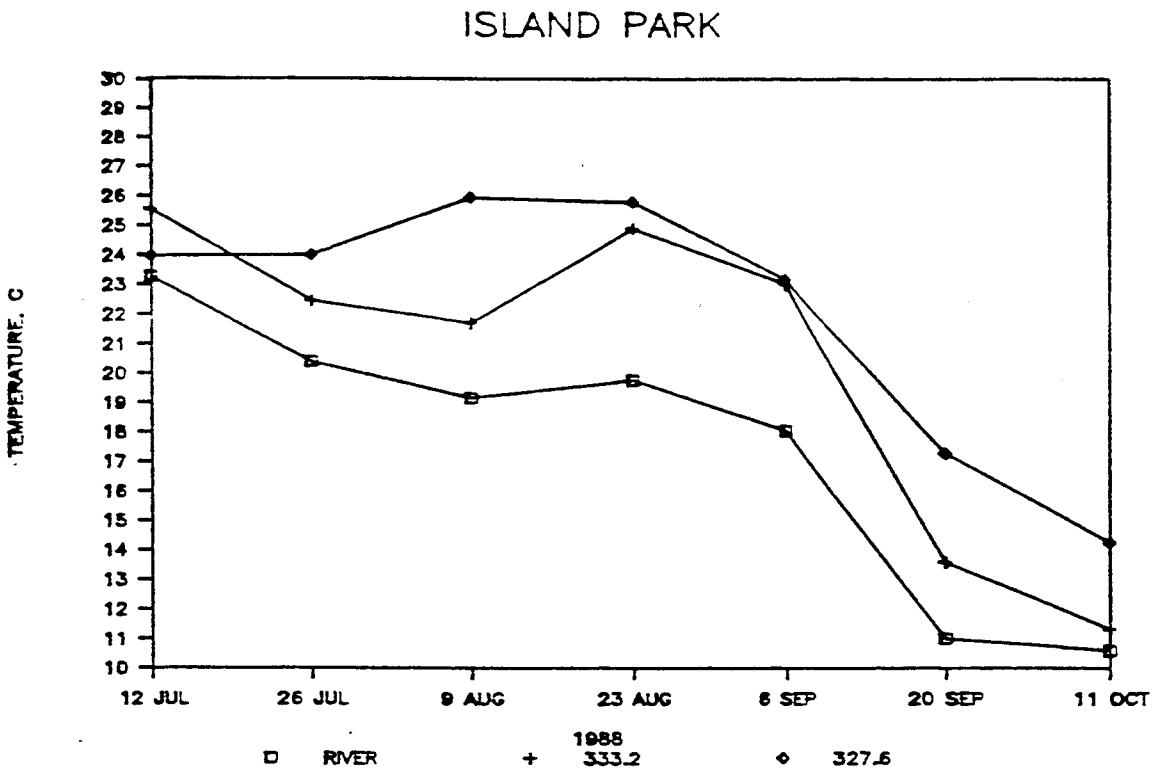

Figure 1. - Water temperature for Island Park main river and backwaters, July to October, 1988.

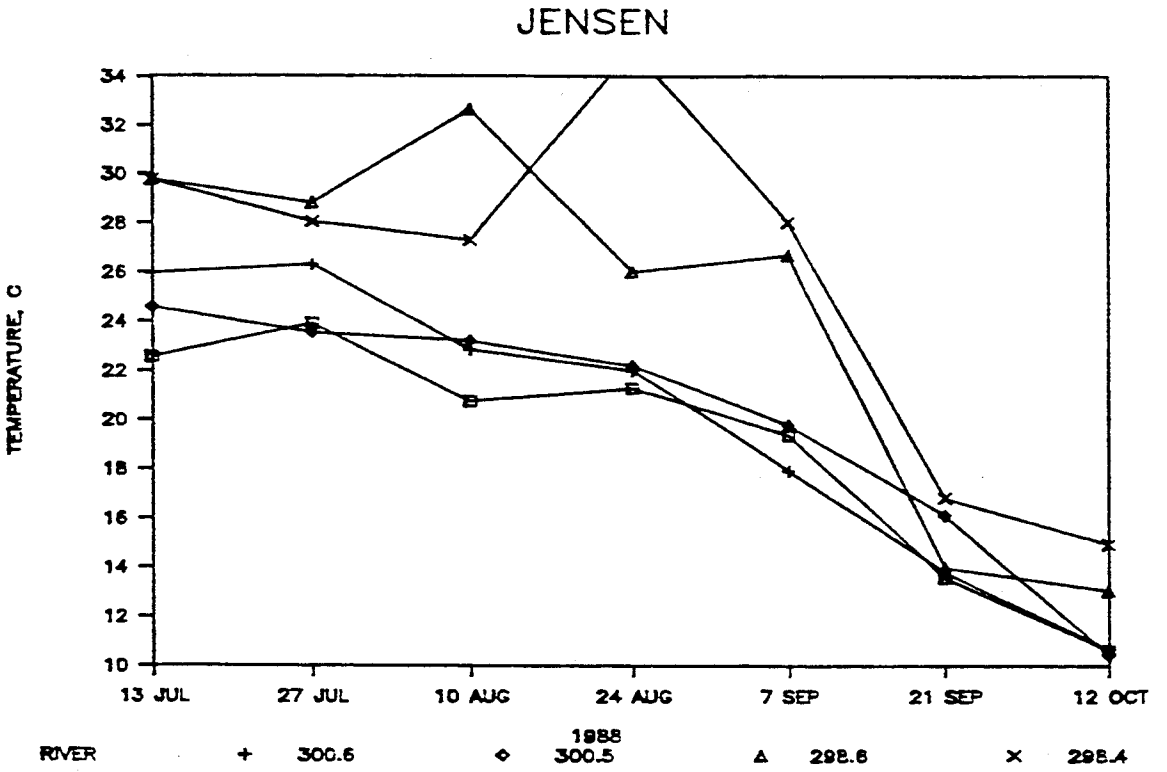

Figure 2. - Water temperature for Jensen main river and backwaters, July to October, 1988.

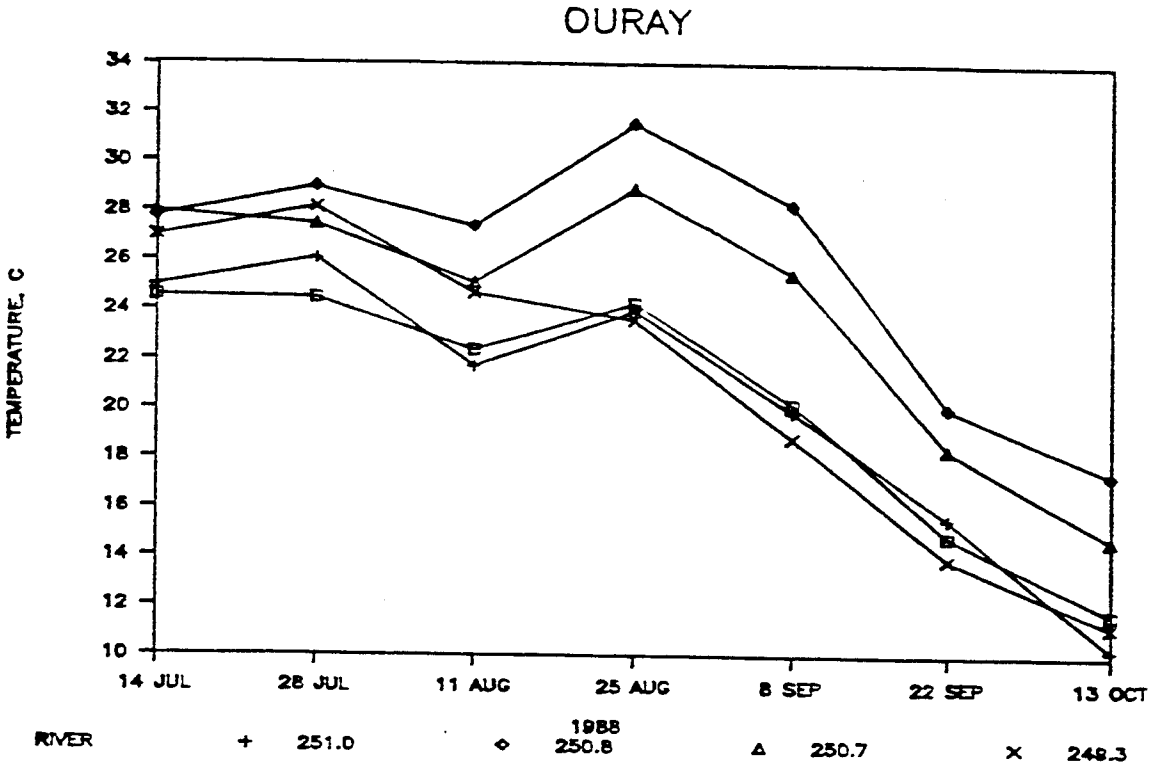

Figure 3. - Water temperature for Ouray main river and backwaters, July to October, 1988.

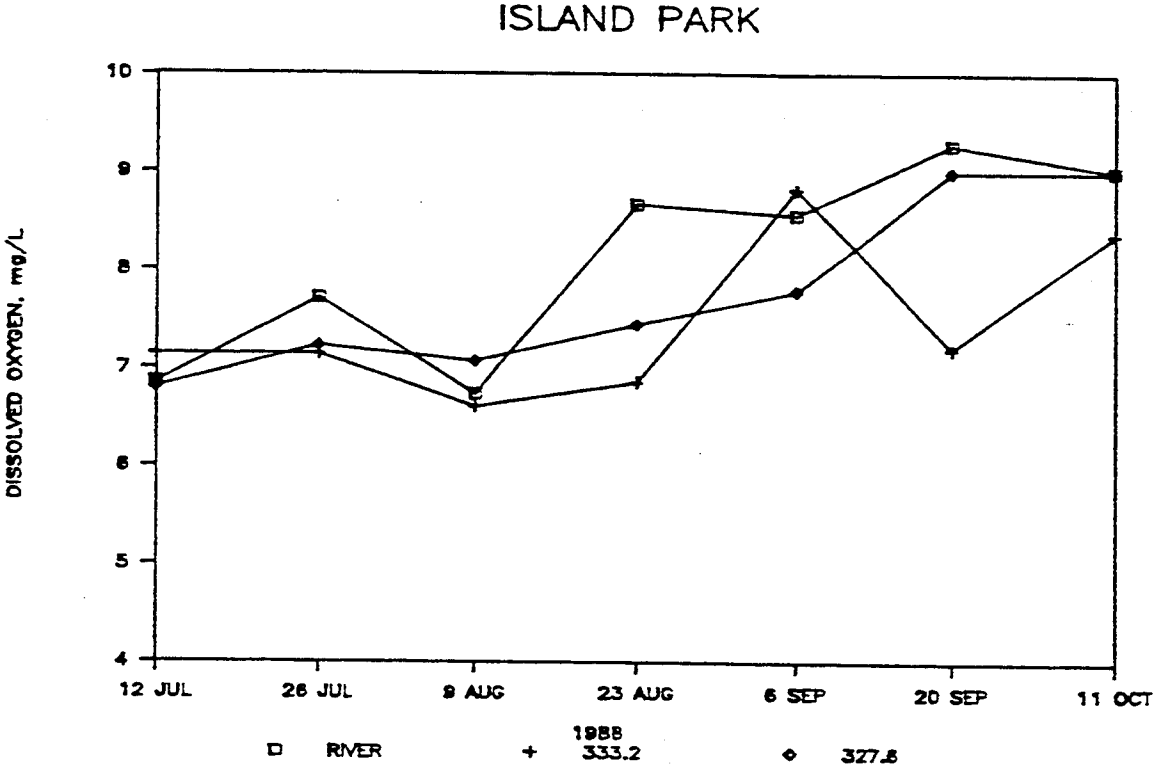

Figure 4. - Dissolved oxygen, mg/ L, for Island Park main river and backwaters, July to October, 1988.

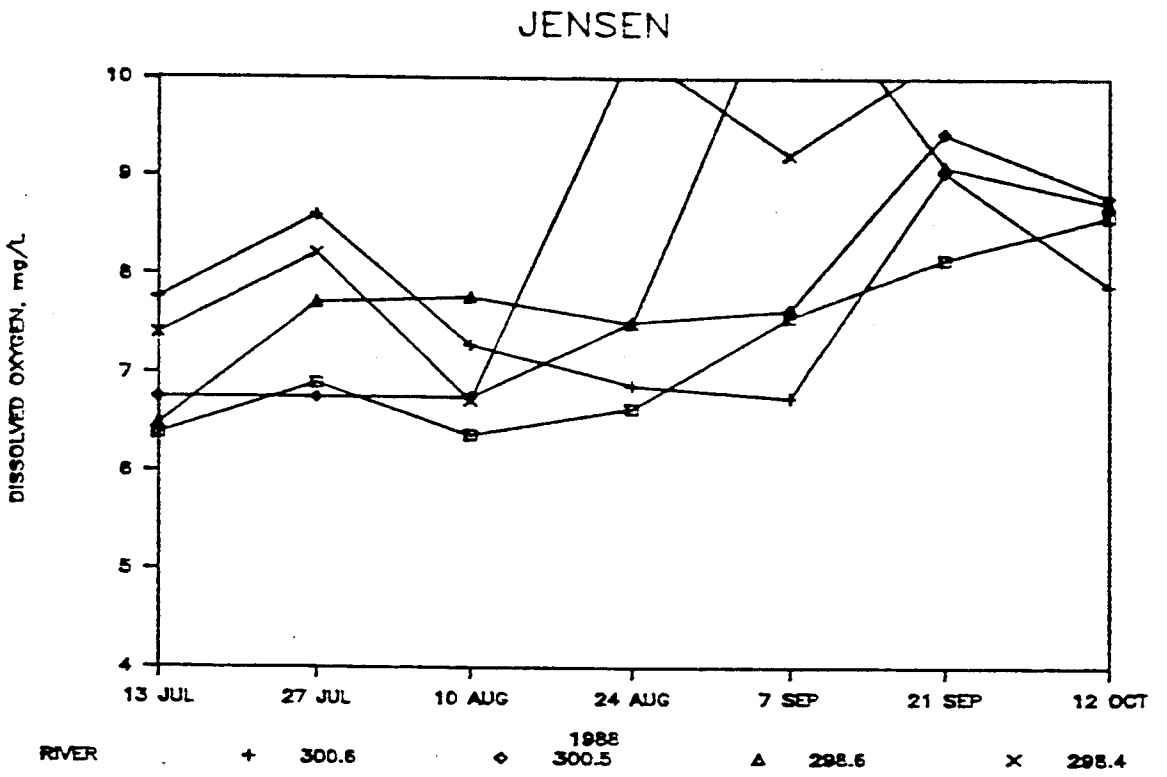

Figure 5. - Dissolved oxygen, mg/L, for Jensen main river and backwaters, July to October, 1988.

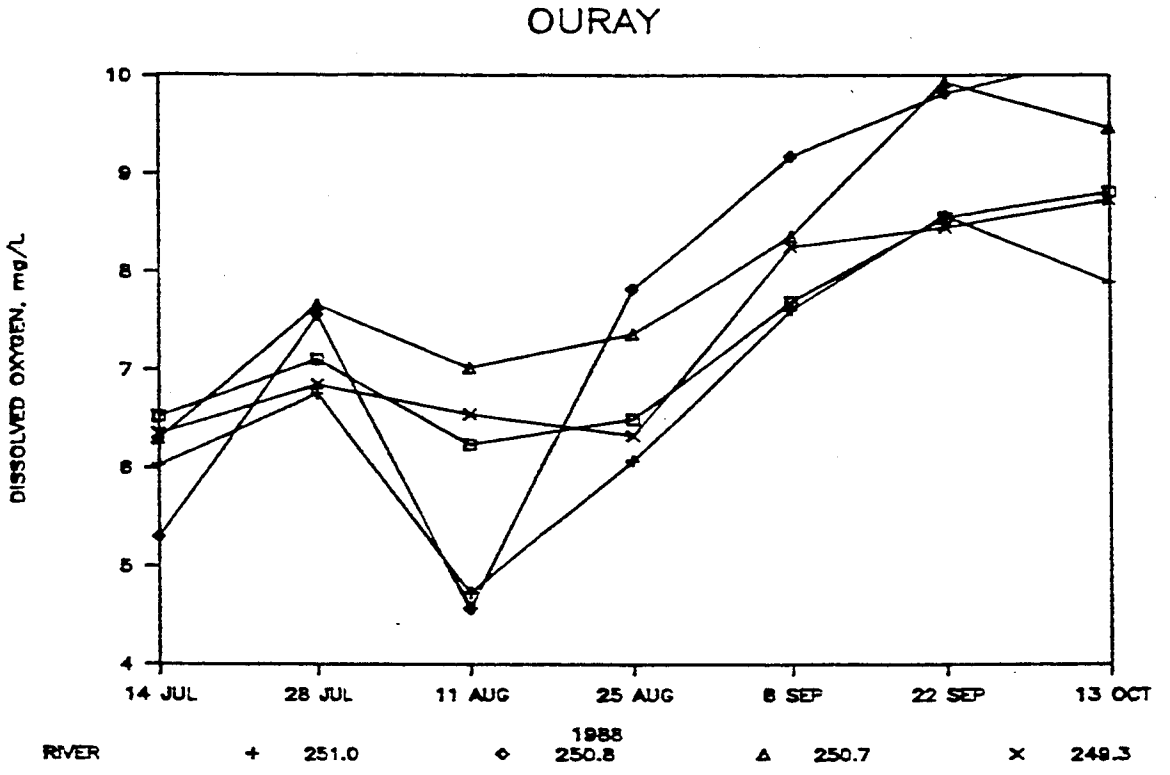

Figure 6. - Dissolved oxygen, mg/L, for Ouray main river and backwaters, July to October, 1988.

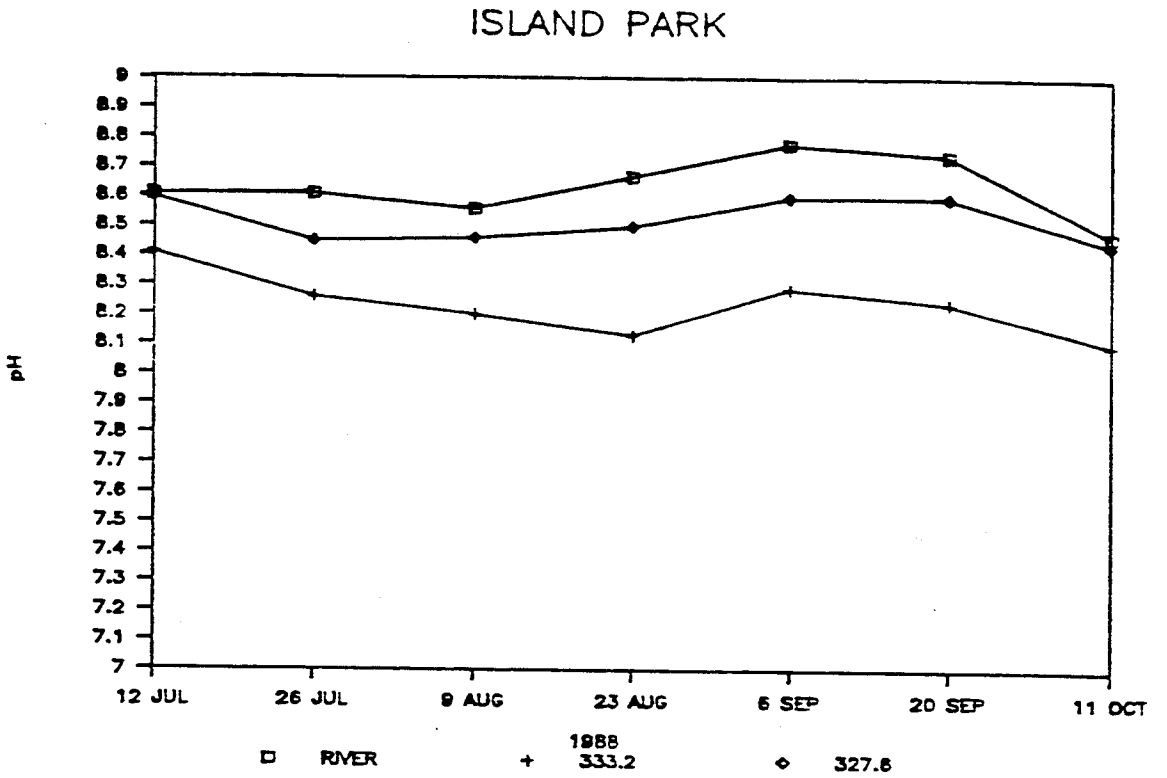

Figure 7. - pH for Island Park main river and backwaters, July to October, 1988.

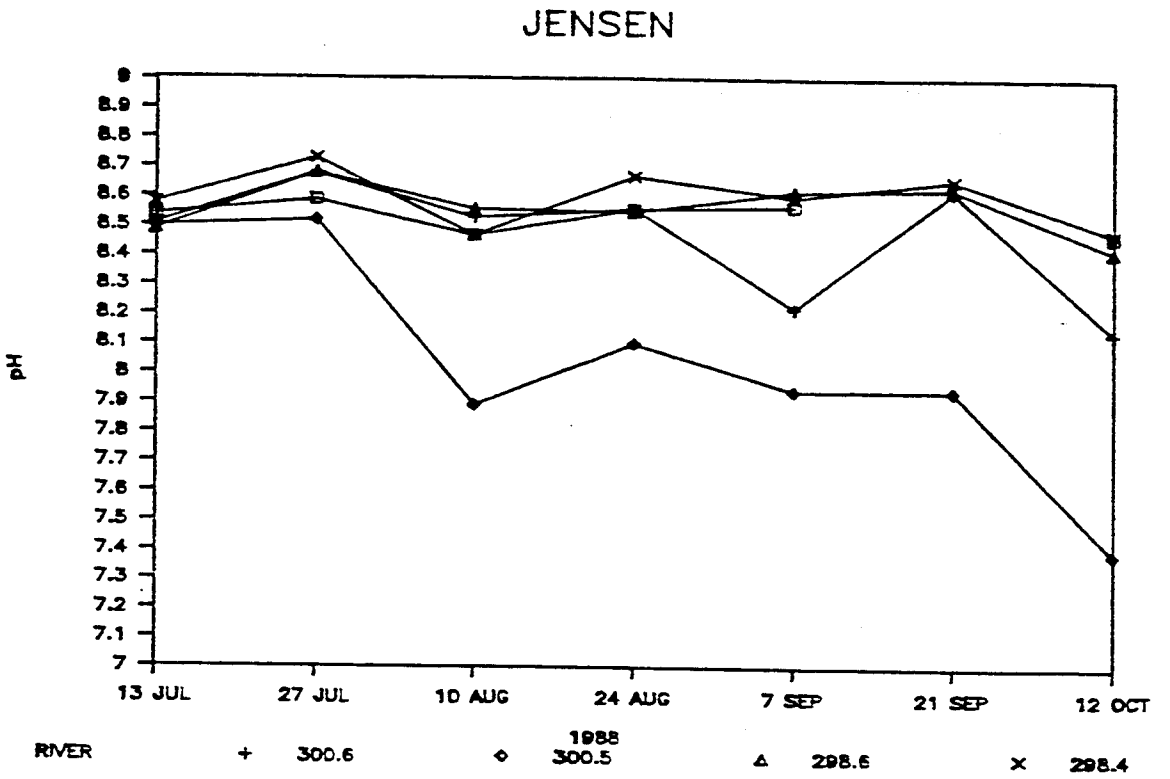

Figure 8. - pH for Jensen main river and backwaters, July to October, 1988.

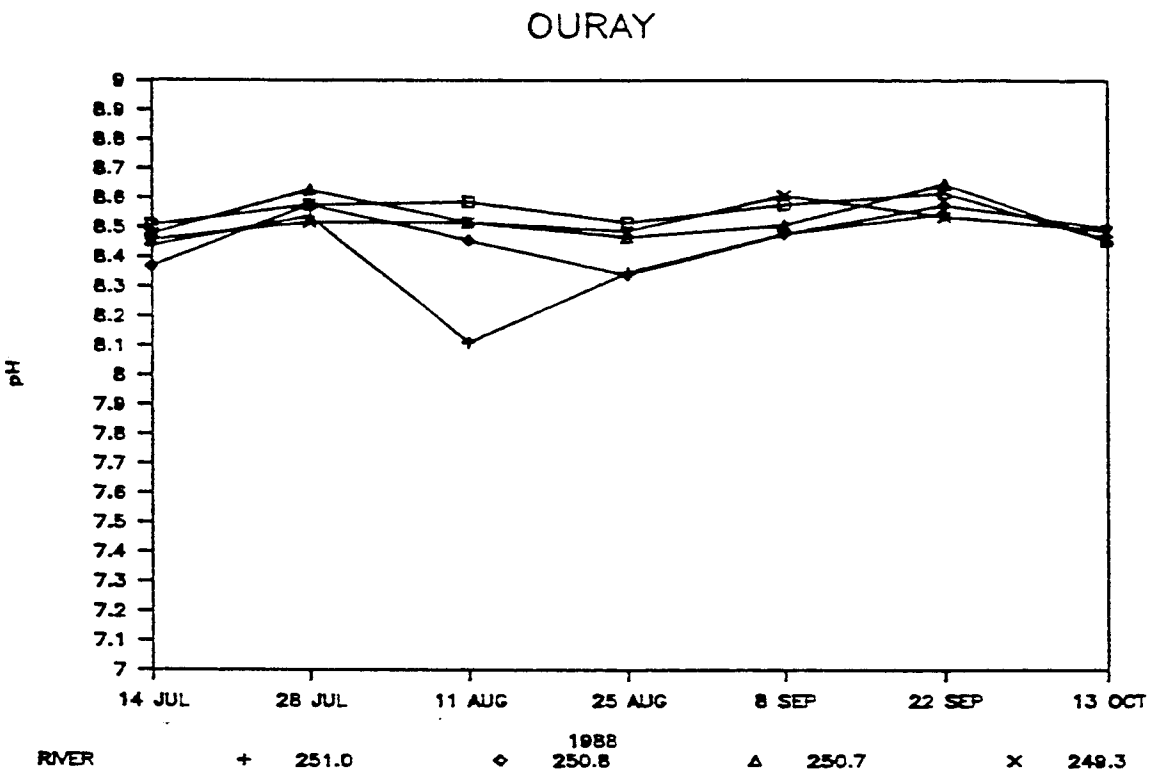

Figure 9. - pH for Ouray main river and backwaters, July to October, 1988.

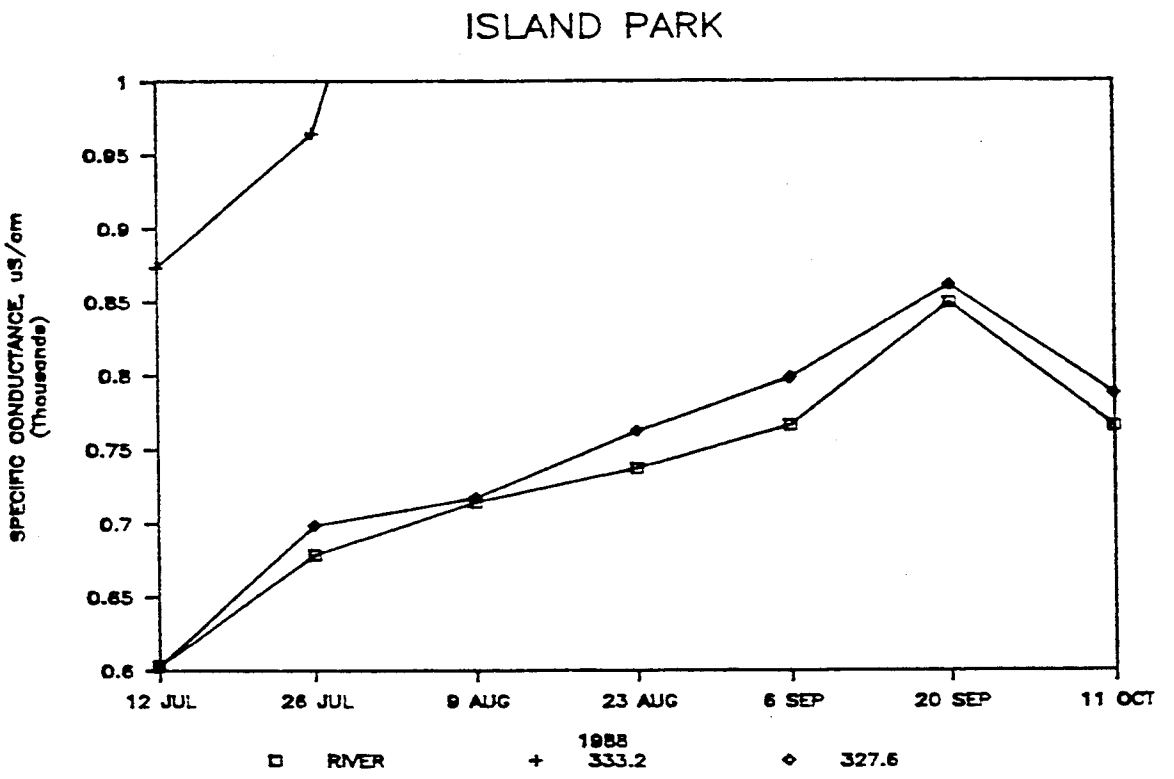

Figure 10. - Specific conductance, uS/cm, for Island Park main river and backwaters, July to October, 1988.

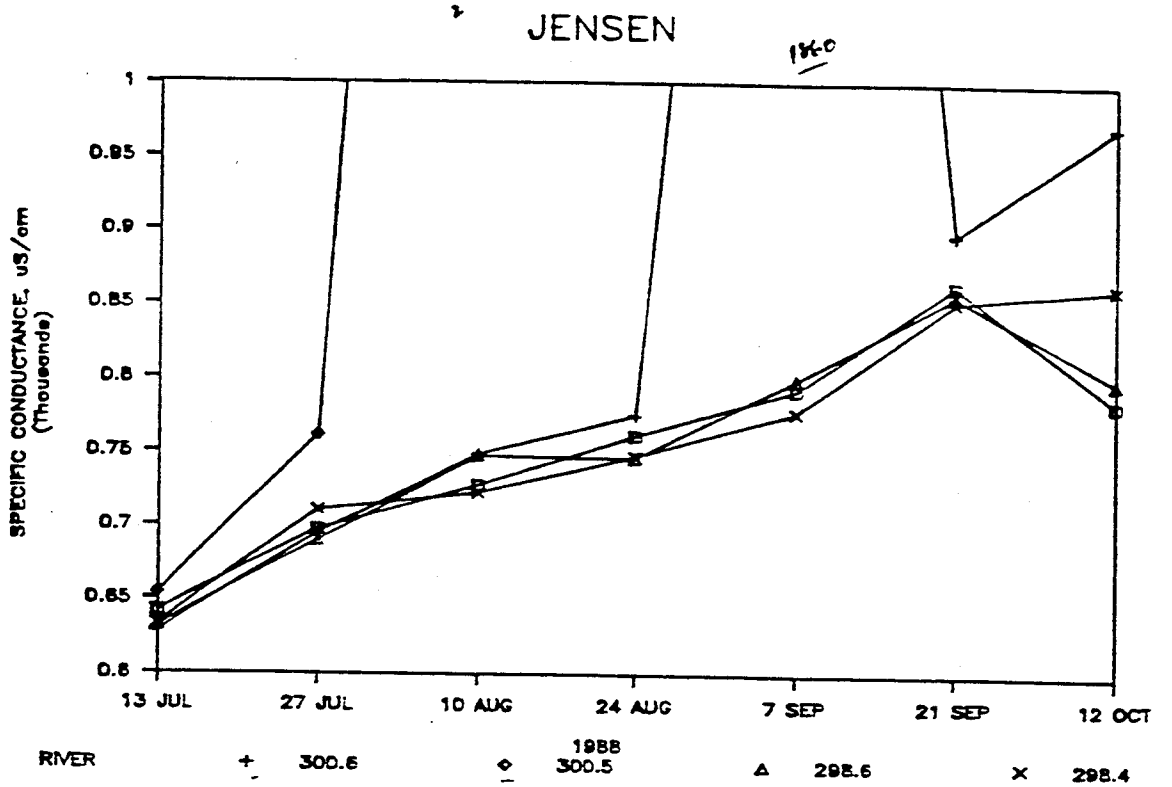

Figure 11. - Specific conductance, uS/cm, for Jensen main river and backwaters, July to October, 1988.

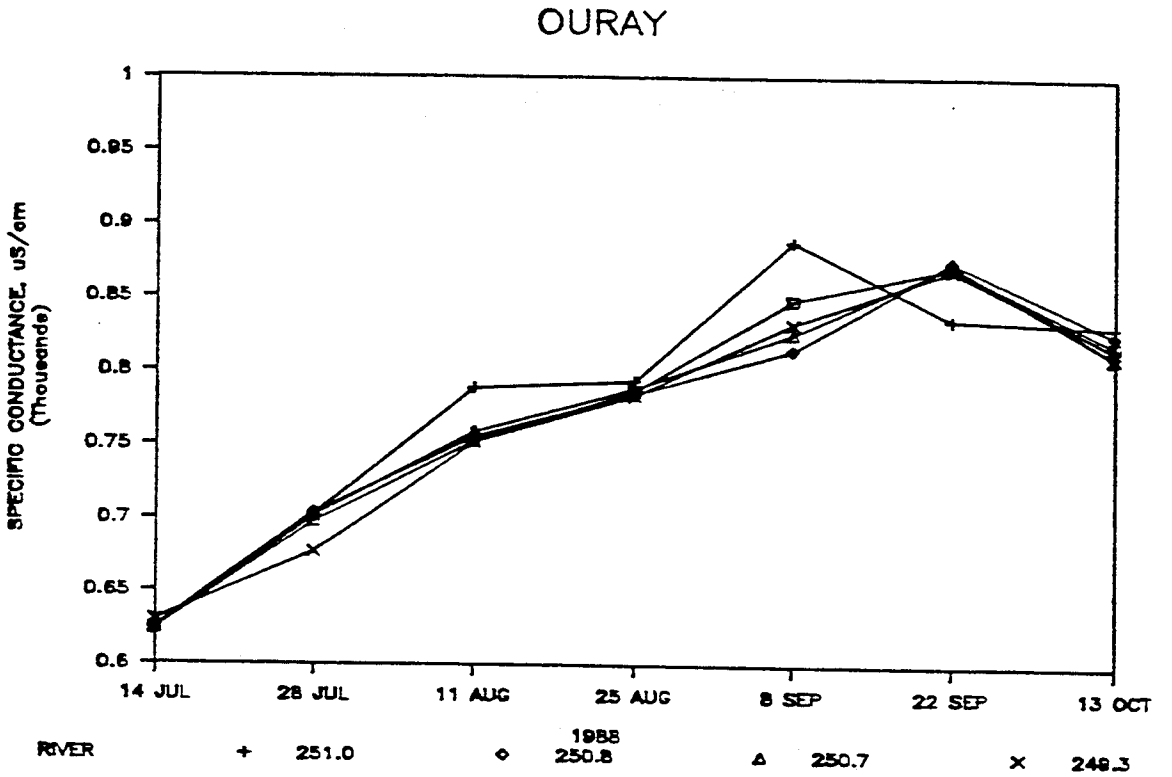

Figure 12. - Specific conductance, uS/cm, for Ouray main river and backwaters, July to October, 1988.

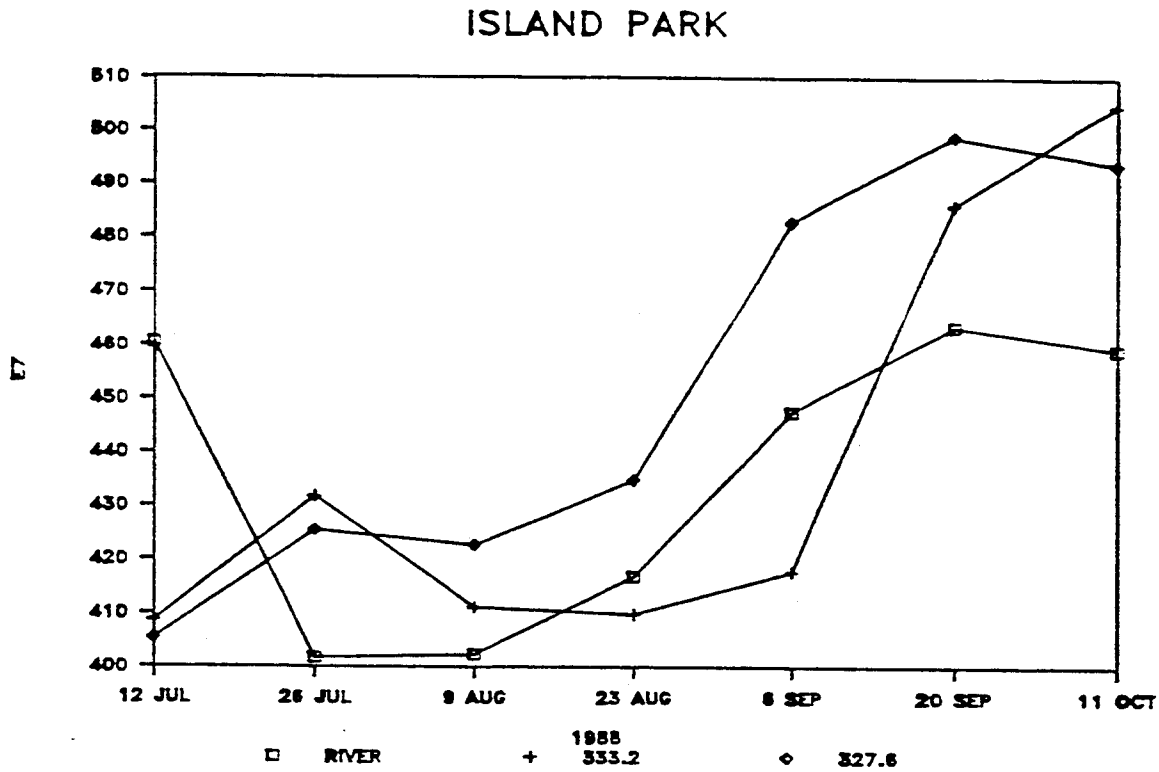

Figure 13. - E_7 for Island Park main river and backwaters, July to October, 1988.

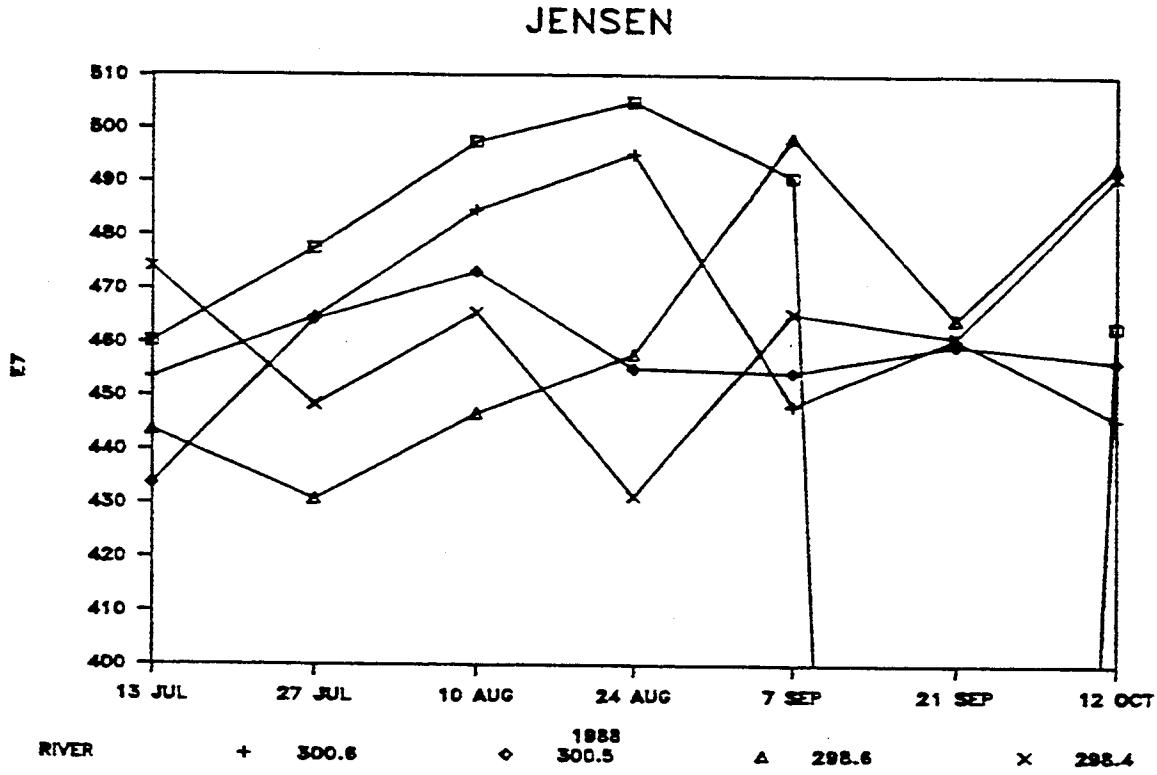

Figure 14. - E_7 for Jensen main river and backwaters, July to October, 1988.

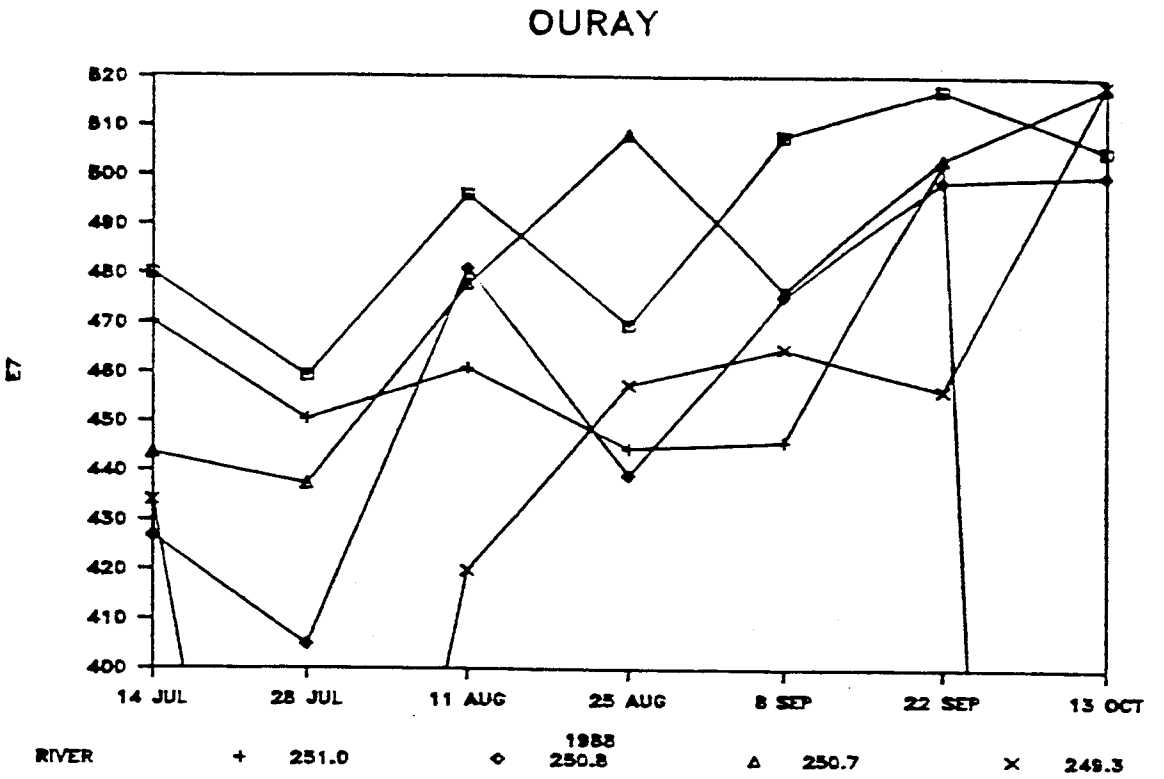

Figure 15. - E_7 for Ouray main river and backwaters, July to October, 1988.

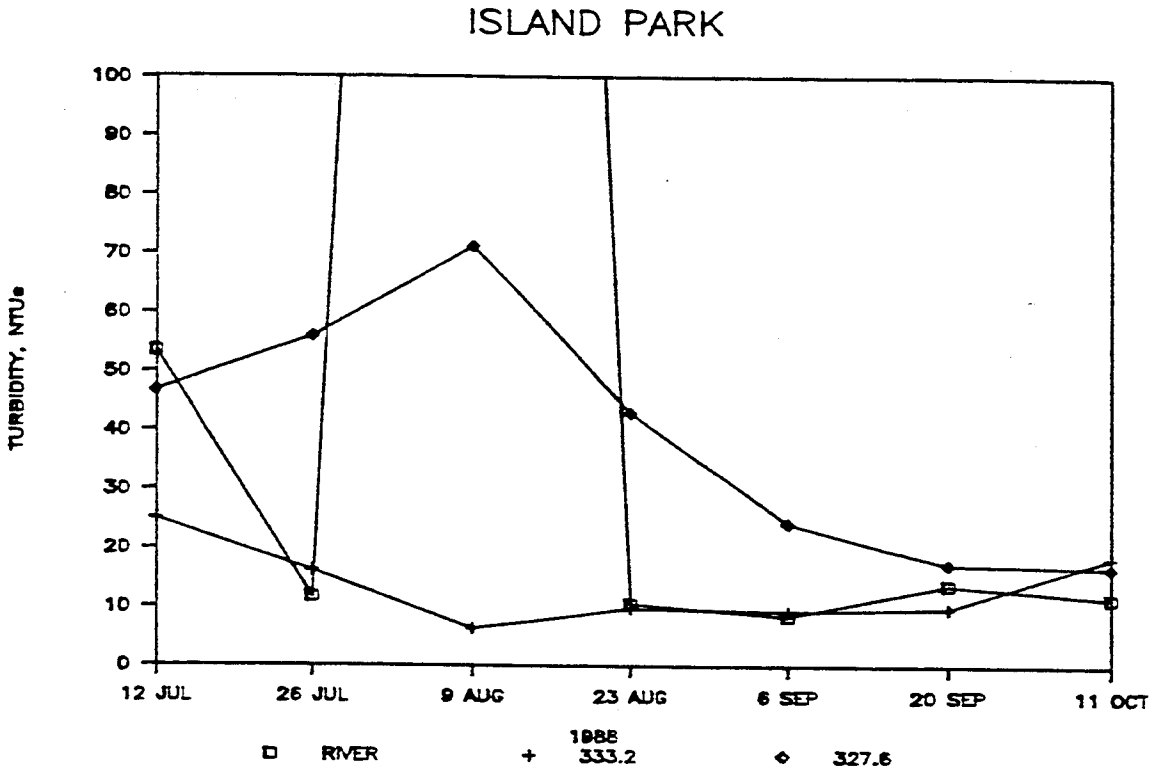

Figure 16. - Turbidity, NTU, for Island Park main river and backwaters, July to October, 1988.

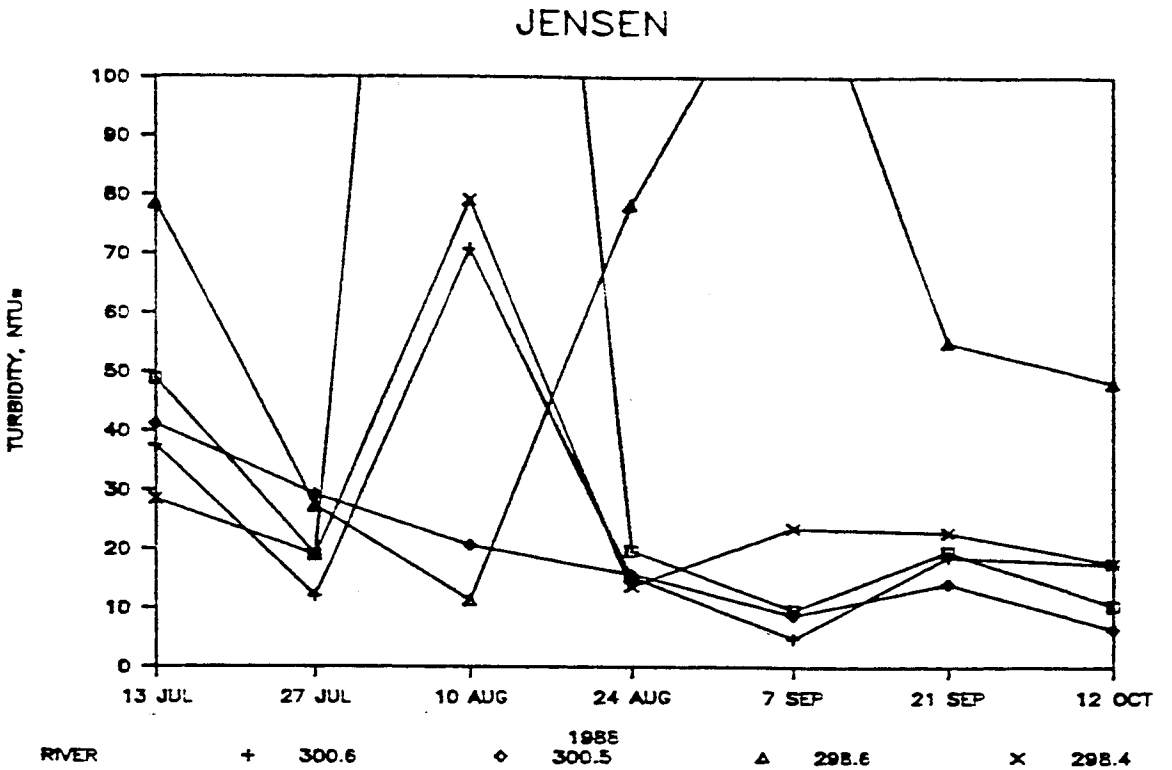

Figure 17. - Turbidity, NTU, for Jensen main river and backwaters, July to October, 1988.

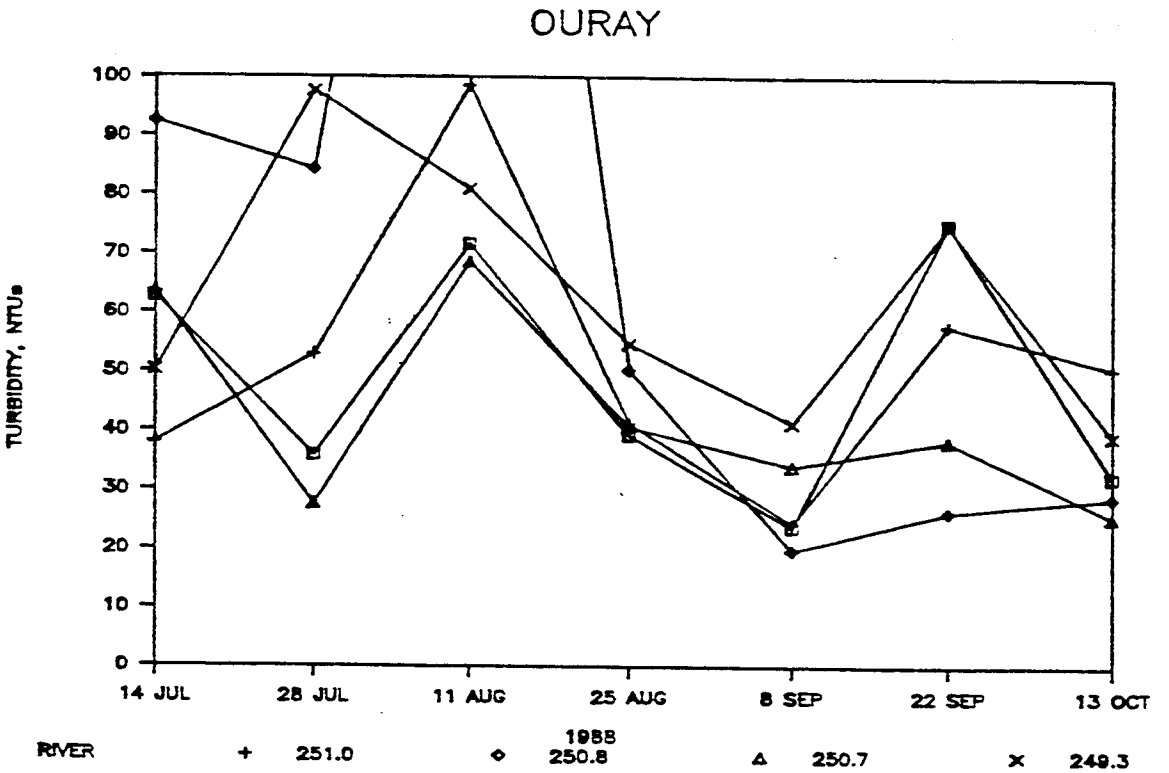

Figure 18. - Turbidity, NTU, for Ouray main river and backwaters, July to October, 1988.

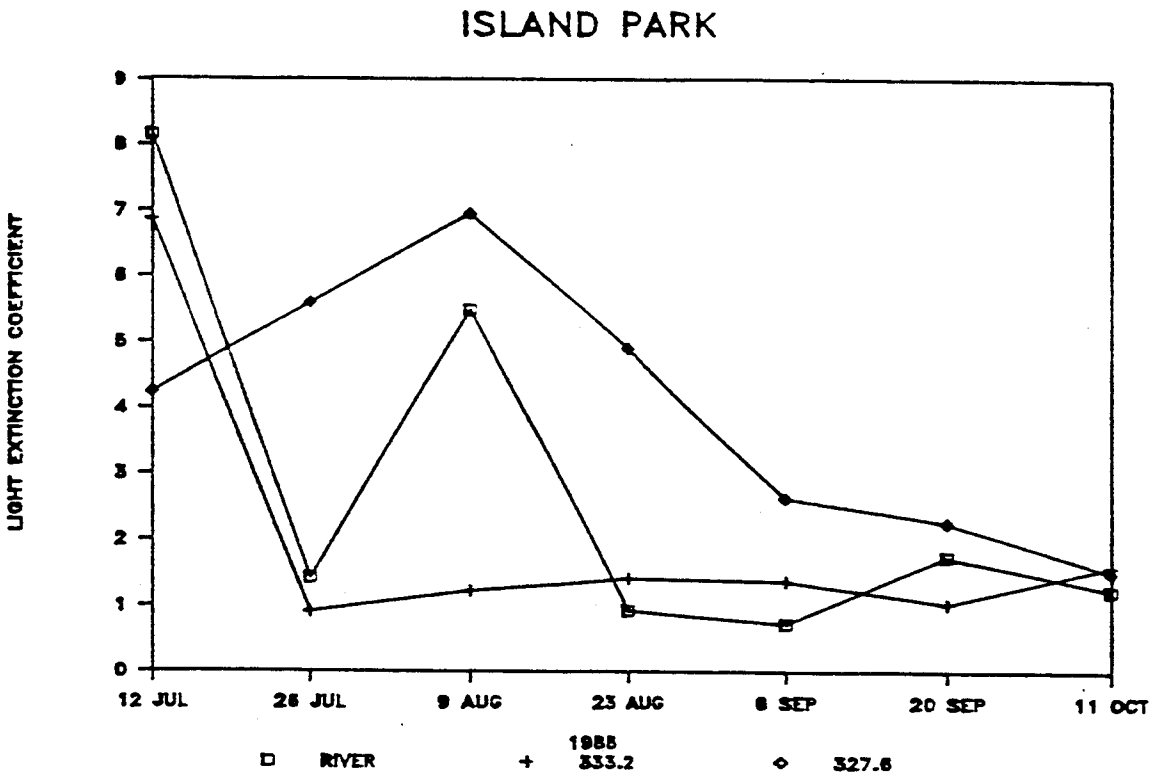

Figure 19. - Light extinction coefficient for Island Park main river and backwaters, July to October, 1988.

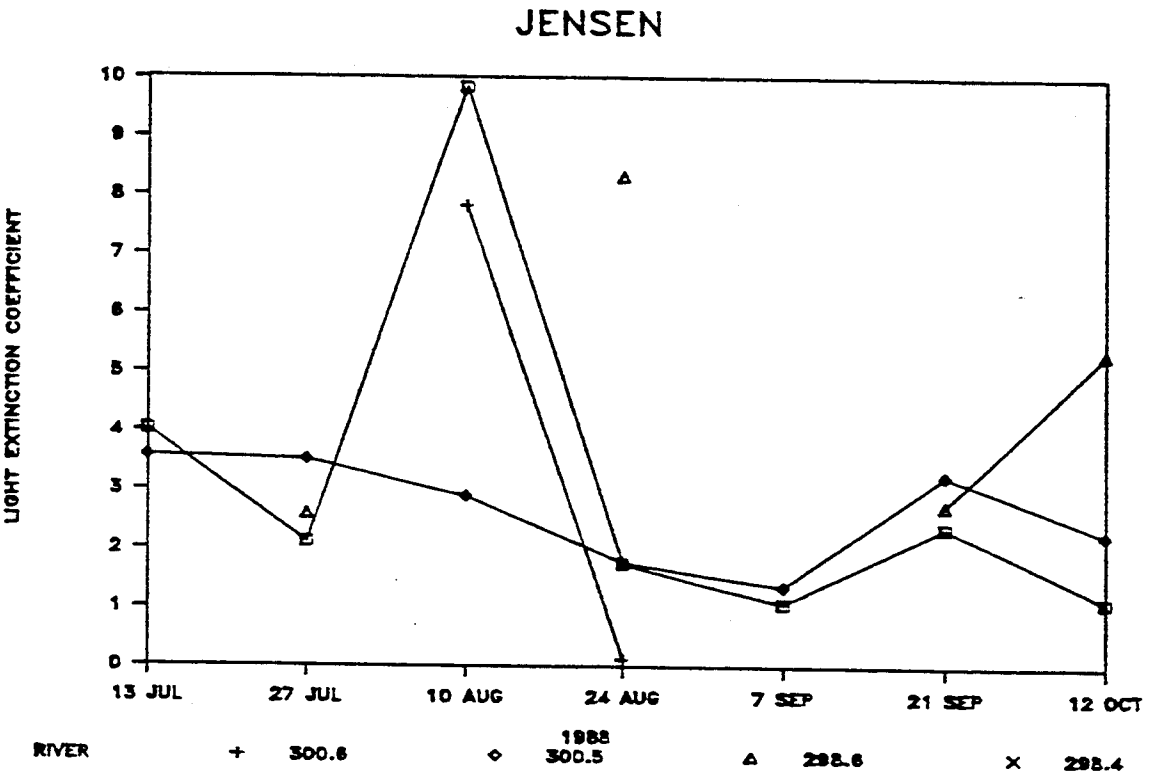

Figure 20. - Light extinction coefficient for Jensen main river and backwaters, July to October, 1988.

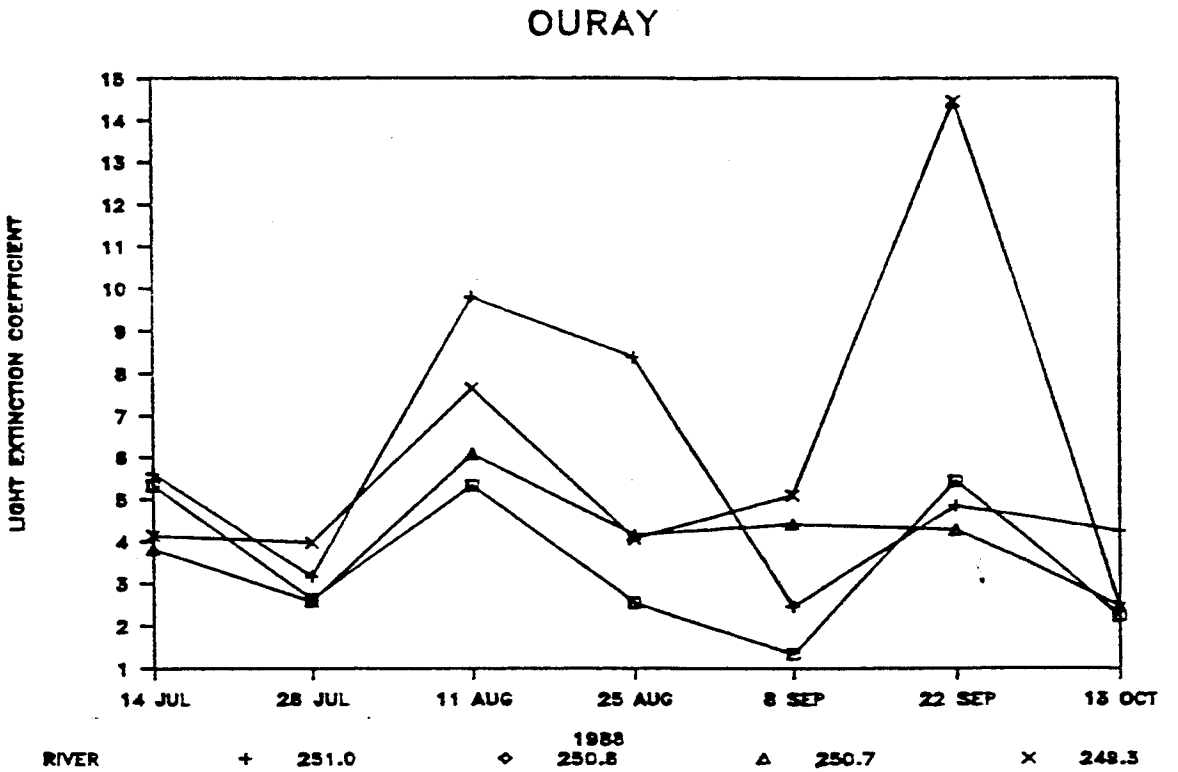

Figure 21. - Light extinction coefficient for Ouray main river and backwaters, July to October, 1988.

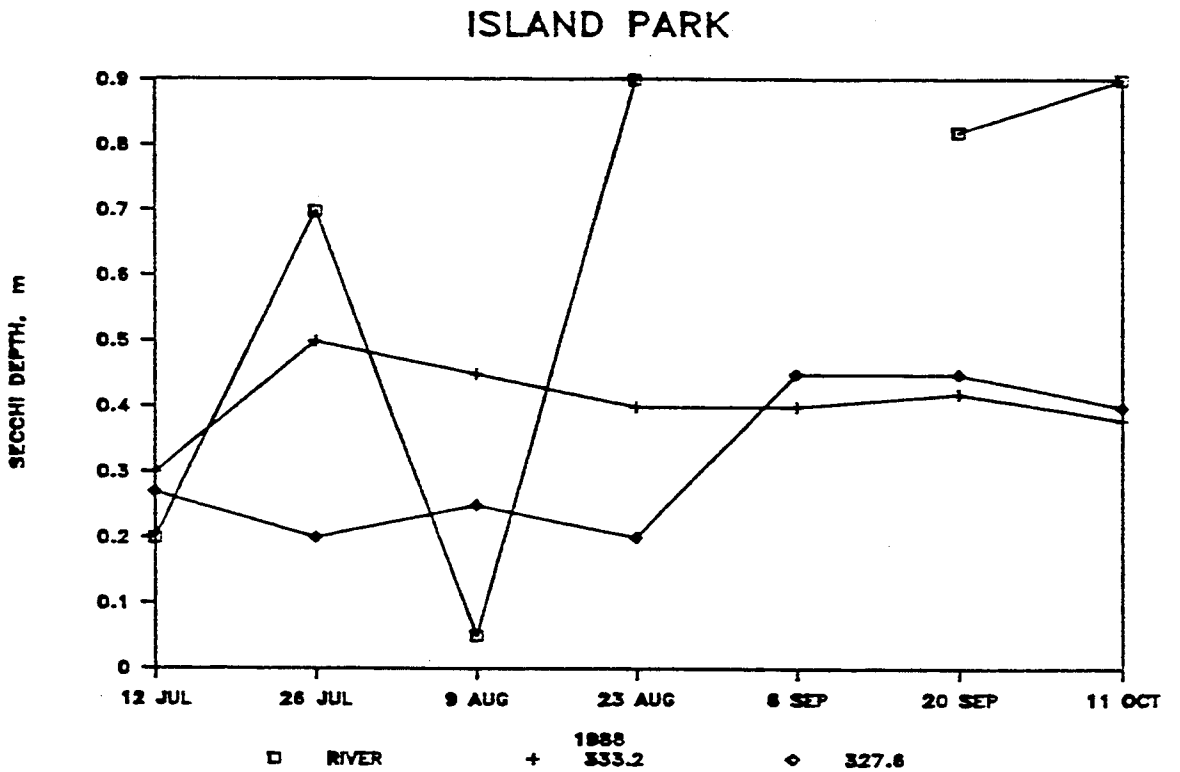

Figure 22. - Secchi depth, m, for Island Park main river and backwaters, July to October, 1988.

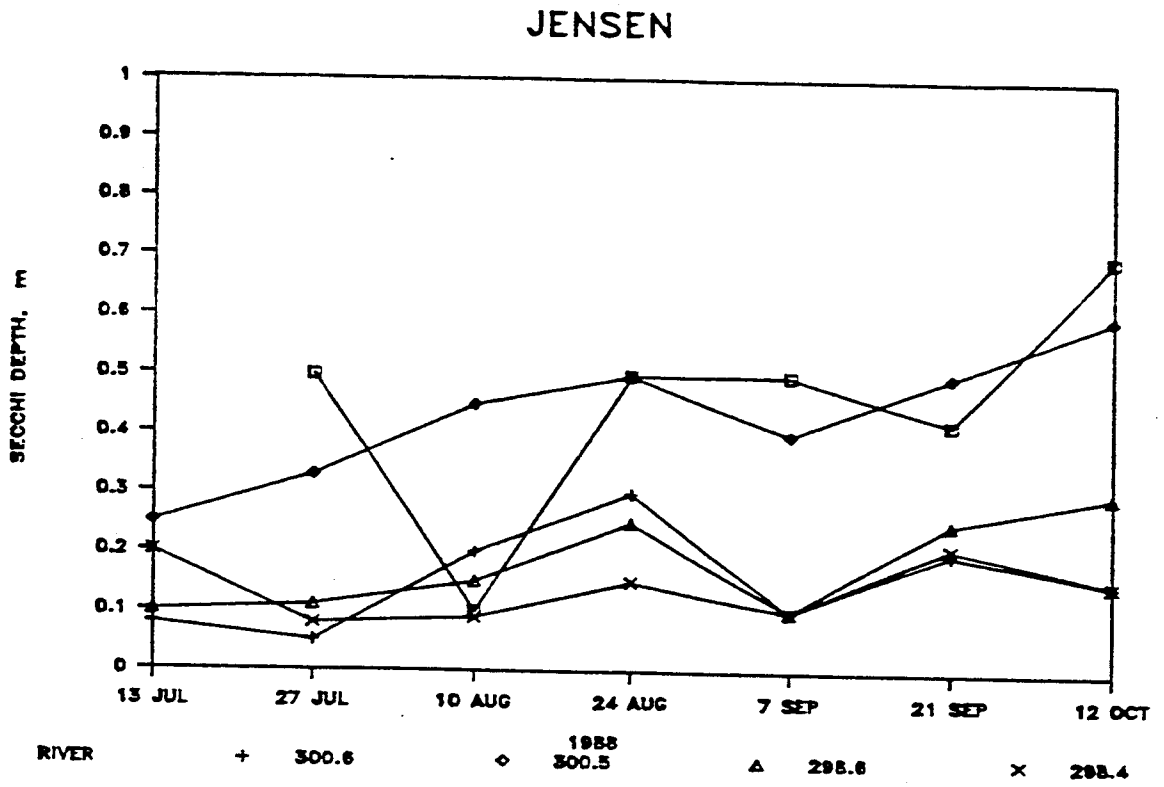

Figure 23. - Secchi depth, m, for Jensen main river and backwaters, July to October, 1988.

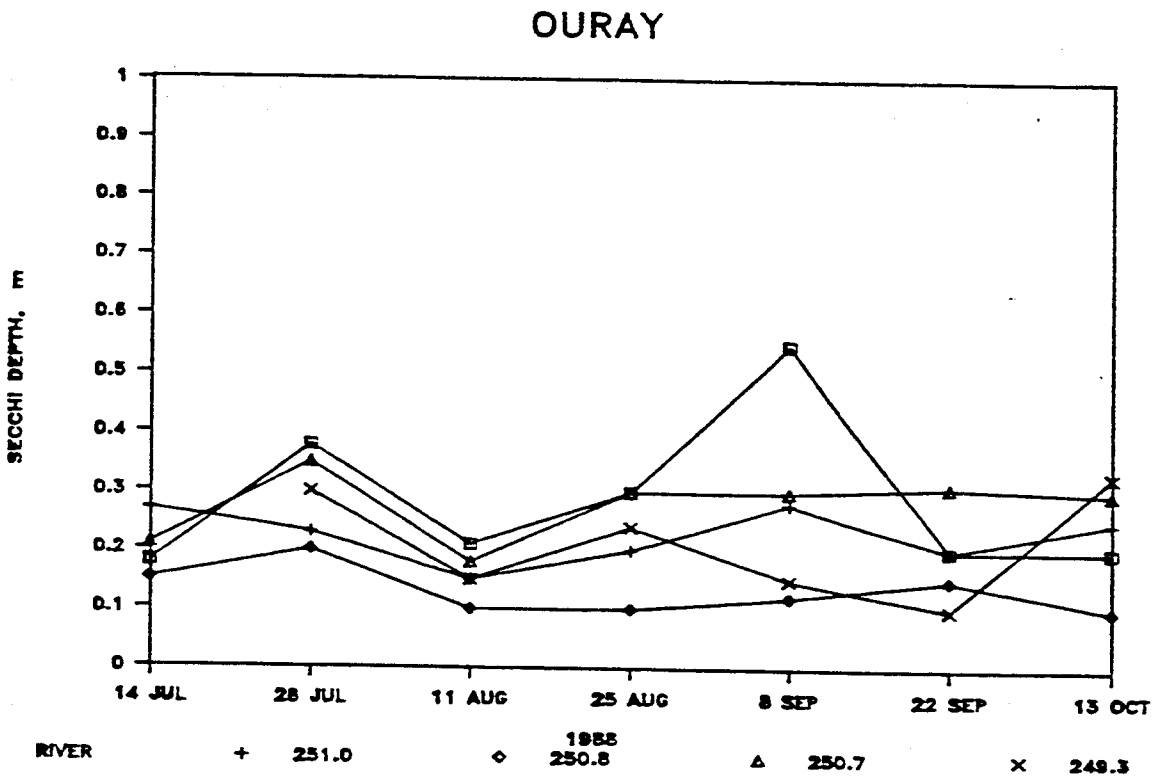

Figure 24. - Secchi depth, m, for Ouray main river and backwaters, July to October, 1988.

Table 14. - Total dissolved solids (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to October, 1987.

Site		June 4	June 23	July 21	October 20
Island Park	River	307	321	405	410
	BA-333.2		380	525	476
	BA-332.2	310	300	412	436
	Avg.		340	468.5	456
	Std.		40	56.5	20
Jensen	River	309	338	426	472
	BA-300.27	306	356	405	453
	BA-300.26		338	426	457
	BA-298.6		342	409	464
	Avg.		345.3	413.3	458.0
	Std.		7.7	9.1	4.0
Ouray	River	307	377	472	514
	BA-251.0	305	403	461	495
	BA-250.8		400	482	433
	BA-249.7		391.3	471.3	474.3
	Avg.		391.3	471.3	474.3
	Std.		14.4	8.6	29.2

Table 15. - Major cations and anions for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987.

Major Ions mg/L

Site		June 2	June 23	July 21	October 20
Sodium					
Island Park	River	30.9	38.7	46.1	43.6
	BA-332.2	30.9	33.8	45.6	47.6
	BA-333.2		40.8	50.3	55.1
		June 3	June 24	July 22	October 21
Jensen	River	31	39.2	46.3	59.1
	BA-300.26	31.8	39.9	44.3	54.4
	BA-300.27		38	48.9	56
	BA-295.6		39.1	47.3	54.4
		June 4	June 25	July 23	October 22
Ouray	River	33	40.6	49.6	58.9
	BA-251.0	33.4	39.9	51.3	46.8
	BA-250.8		40.6	50.2	59.3
	BA-249.7		40.7	50.7	59.3
Potassium					
		June 2	June 23	July 21	October 20
Island Park	River	1.77	2.09	2.34	2
	BA-332.2	1.77	1.84	2.34	2.27
	BA-333.2		2.22	2.72	2.34
		June 3	June 24	July 22	October 21
Jensen	River	1.84	2.22	2.47	2.4
	BA-300.26	1.9	2.28	2.91	2.27
	BA-300.27		2.34	2.59	2.34
	BA-298.6		2.34	2.59	2.46
		June 4	June 25	July 23	October 22
Ouray	River	1.84	2.28	2.66	2.34
	BA-251.0	1.9	2.28	2.59	2.27
	BA-250.8		2.34	2.66	2.34
	BA-249.7		2.34	2.66	2.34

Table 15. - Major cations and anions for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

Calcium

Site		June 2	June 23	July 21	October 20
Island Park	River	37	41	56	50
	BA-332.2	36.5	40.6	57	53.2
	BA-333.2		48	70	55

		June 3	June 24	July 22	October 21
Jensen	River	37.5	42	57	53.5
	BA-300.26	37	46	52	52.6
	BA-300.27		42.5	60	52
	BA-298.6		43	46	54.4

		June 4	June 25	July 23	October 22
Ouray	River	40	44	61.5	57
	BA-251.0	40	43.5	64	57
	BA-250.8		44	65	54.6
	BA-249.7		44	63	54.4

Magnesium

		June 2	June 23	July 21	October 20
Island Park	River	14.9	15.6	18.3	21
	BA-332.2	15.8	14.6	18	25.2
	BA-333.2		18.2	23.3	24.8

		June 3	June 24	July 22	October 21
Jensen	River	14.7	15.6	18.1	23.6
	BA-300.26	15	16.7	20.7	24.7
	BA-300.27		16.3	18.9	25.3
	BA-298.6		16	19.1	25.2

		June 6	June 25	July 23	October 22
Ouray	River	15.2	16.1	21.1	25.9
	BA-251.0	15.3	16.5	21.2	27.2
	BA-250.8		16.6	20.9	26.1
	BA-249.7		16.4	21.3	26.7

Table 15. - Major cations and anions for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

Bicarbonate

Site		June 2	June 23	July 21	October 20
Island Park	River	122	141	163	149
	BA-332.2	128	141	164	161
	BA-333.2		148	162	169
		June 3	June 24	July 22	October 21
Jensen	River	128	141	184	170
	BA-300.26	117	165	190	170
	BA-300.27		146	176	169
	BA-298.6		147	166	175
		June 4	June 25	July 23	October 22
Ouray	River	121	146	163	174
	BA-251.0	131	146	167	166
	BA-250.8		149	175	162
	BA-249.7		146	165	126

Sulfate

		June 2	June 23	July 21	October 20
Island Park	River	100	111	142	151
	BA-332.2	92.7	104	142	170
	BA-333.2		140	205	200
		June 3	June 24	July 22	October 21
Jensen	River	100	116	149	197
	BA-300.26	101	113	131	200
	BA-300.27		116	150	169
	BA-298.6		115	142	166
		June 4	June 25	July 23	October 22
Ouray	River	109	126	178	190
	BA-251.0	106	125	171	189
	BA-250.8		128	178	194
	BA-249.7		128	178	230

Table 15. - Major cations and anions for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

Chloride

Site		June 2	June 23	July 21	October 20
Island Park	River	11.6	14.5	19.1	16
	BA-332.2	10.5	13.8	19.1	19
	BA-333.2		15.2	20.2	16
		June 3	June 24	July 22	October 21
Jensen	River	11.8	16.8	21.1	26
	BA-300.26	12.3	15.4	16.5	3
	BA-300.27		16.1	21.5	22
	BA-298.6		16.1	20.9	22.5
		June 4	June 25	July 23	October 22
Ouray	River	12.4	15.9	21.4	22
	BA-251.0	12	15.9	21.1	22
	BA-250.8		16.1	22.1	22.5
	BA-249.7		16.1	21.4	22

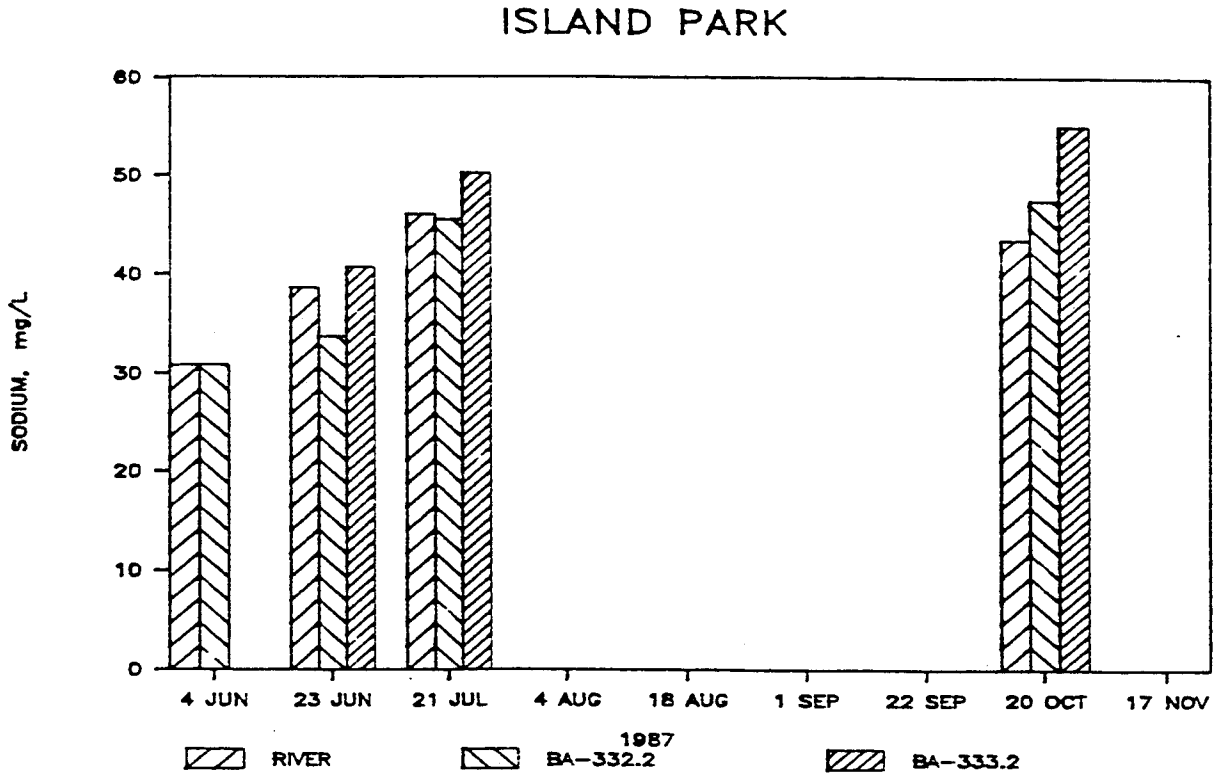

Figure 25. - Sodium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987.

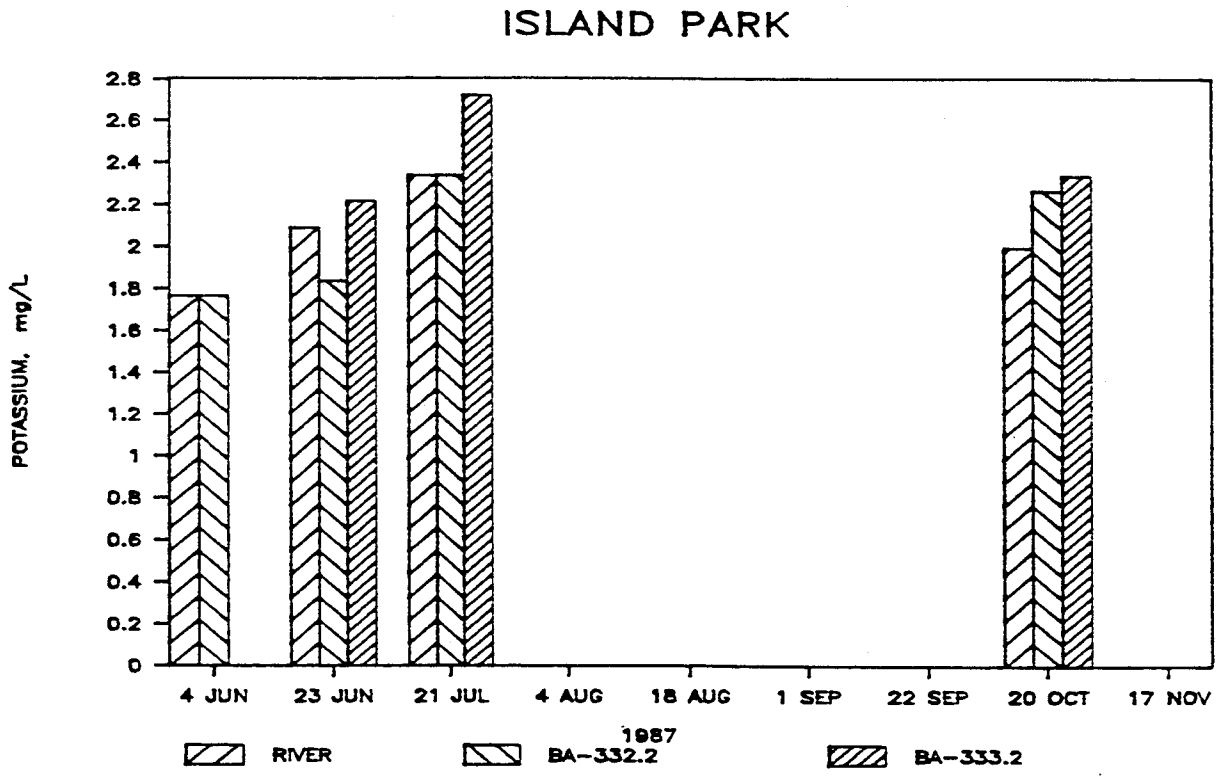

Figure 26. - Potassium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987.

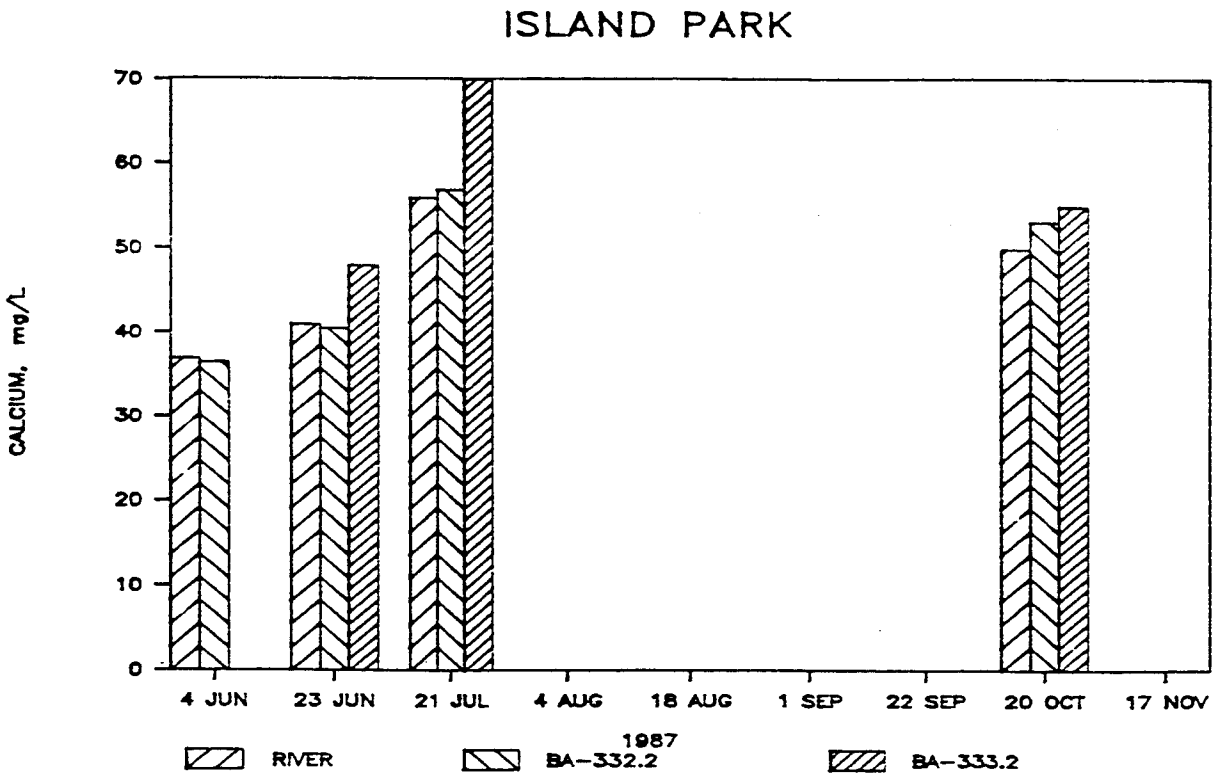

Figure 27. - Calcium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987.

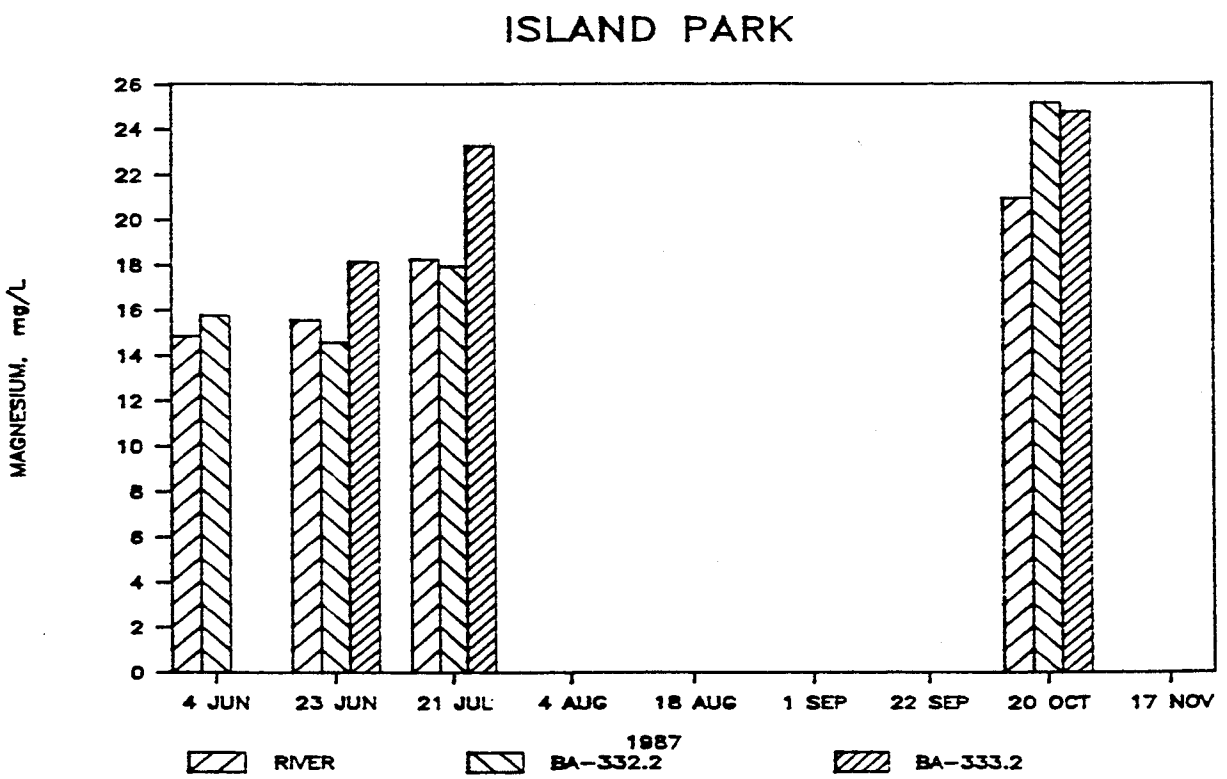

Figure 28. - Magnesium (mg/L) for the main river and two backwaters at Island Park, June to October, 1987.

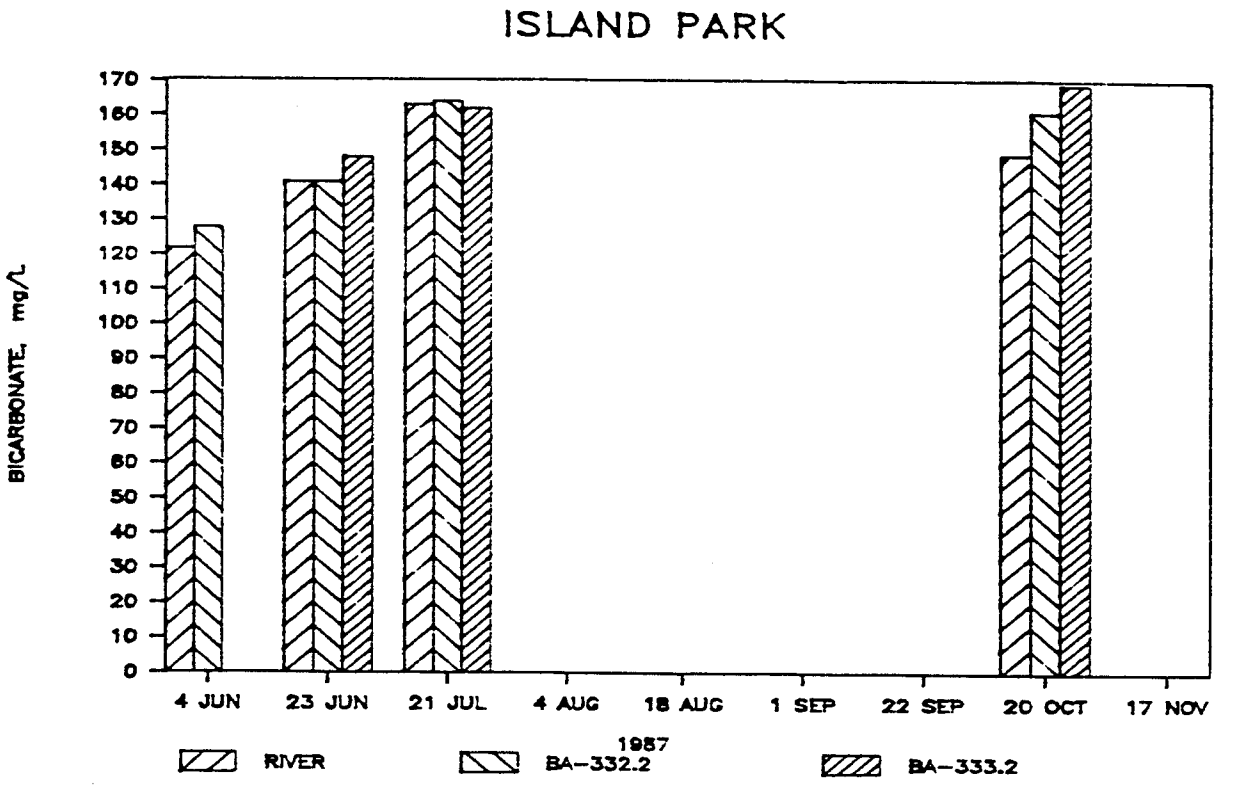

Figure 29. - Bicarbonate (mg/L) for the main river and two backwaters at Island Park, June to October, 1987.

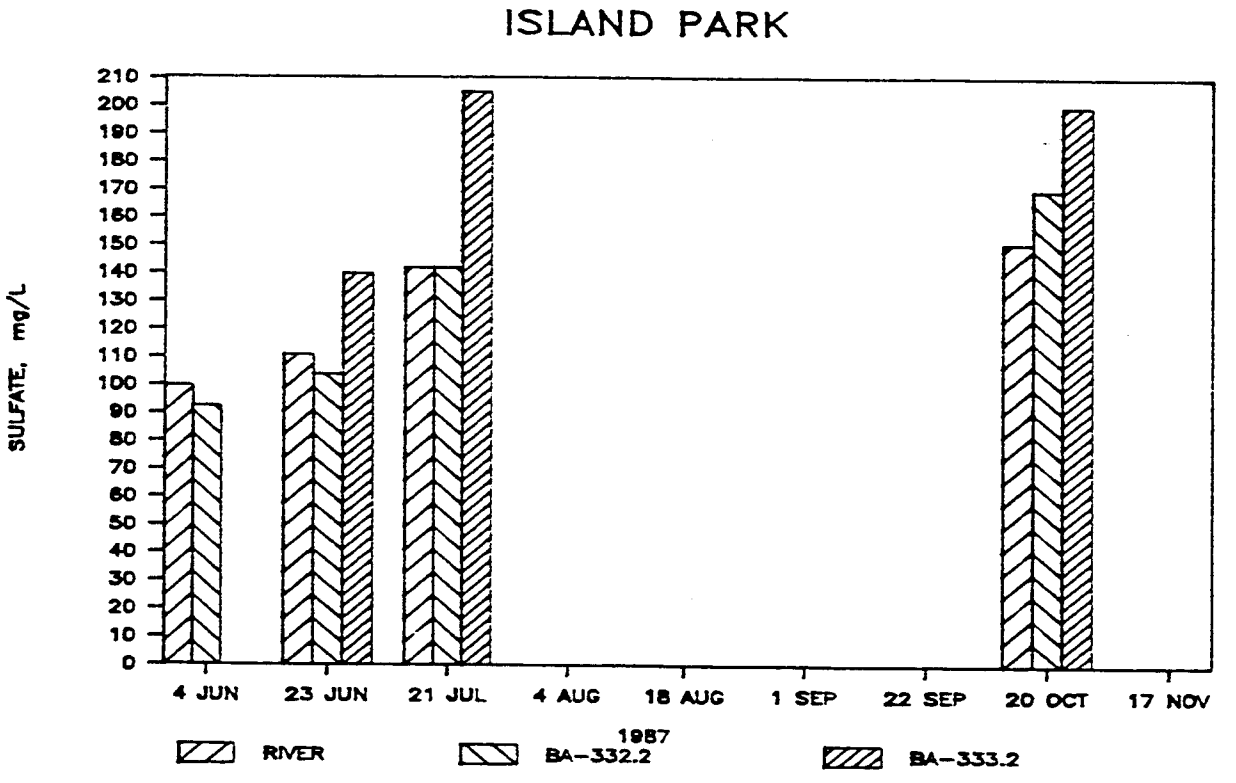

Figure 30. - Sulfate (mg/L) for the main river and two backwaters at Island Park, June to October, 1987.

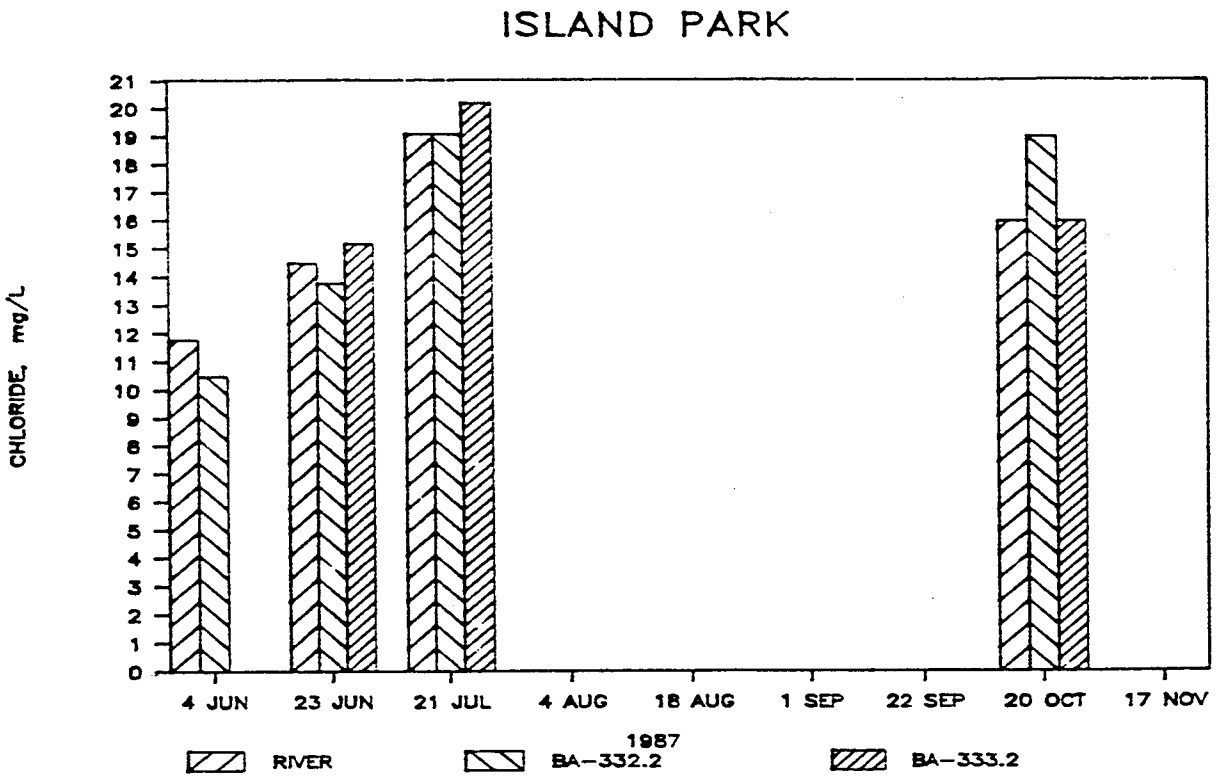

Figure 31. - Chloride (mg/L) for the main river and two backwaters at Island Park, June to October, 1987.

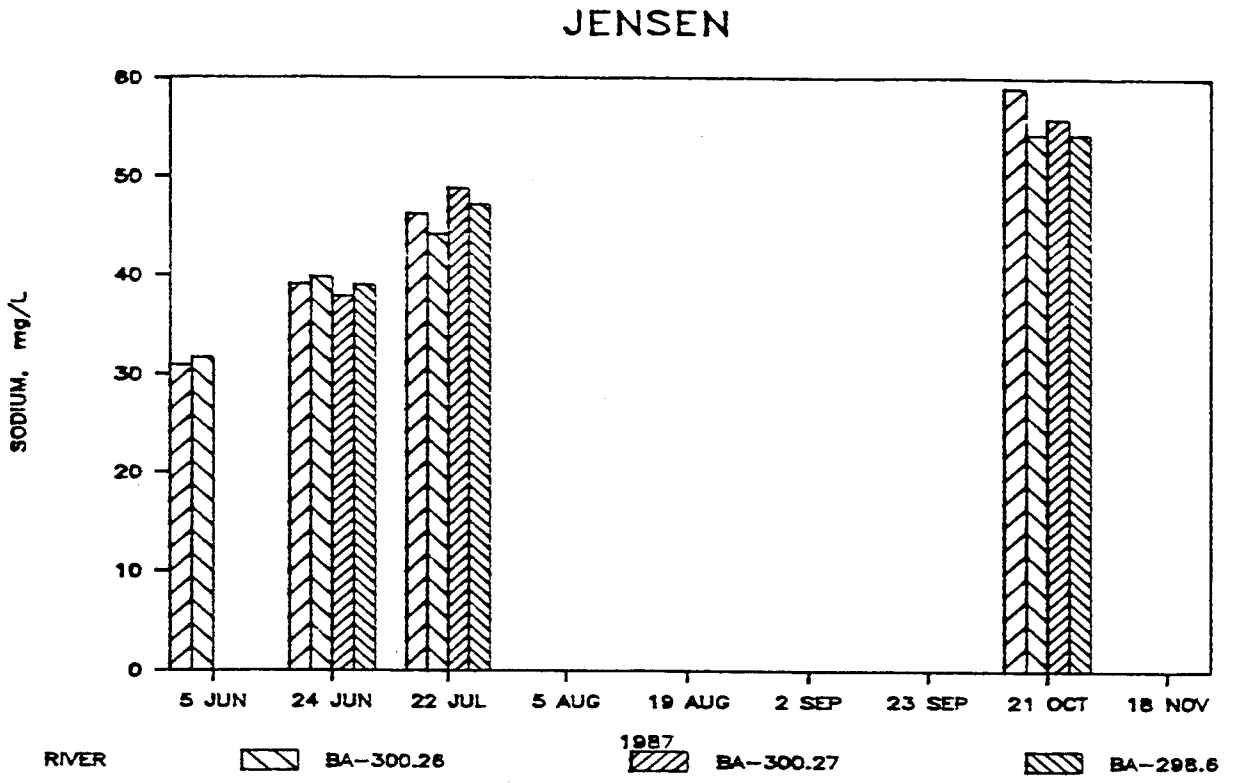

Figure 32. - Sodium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.

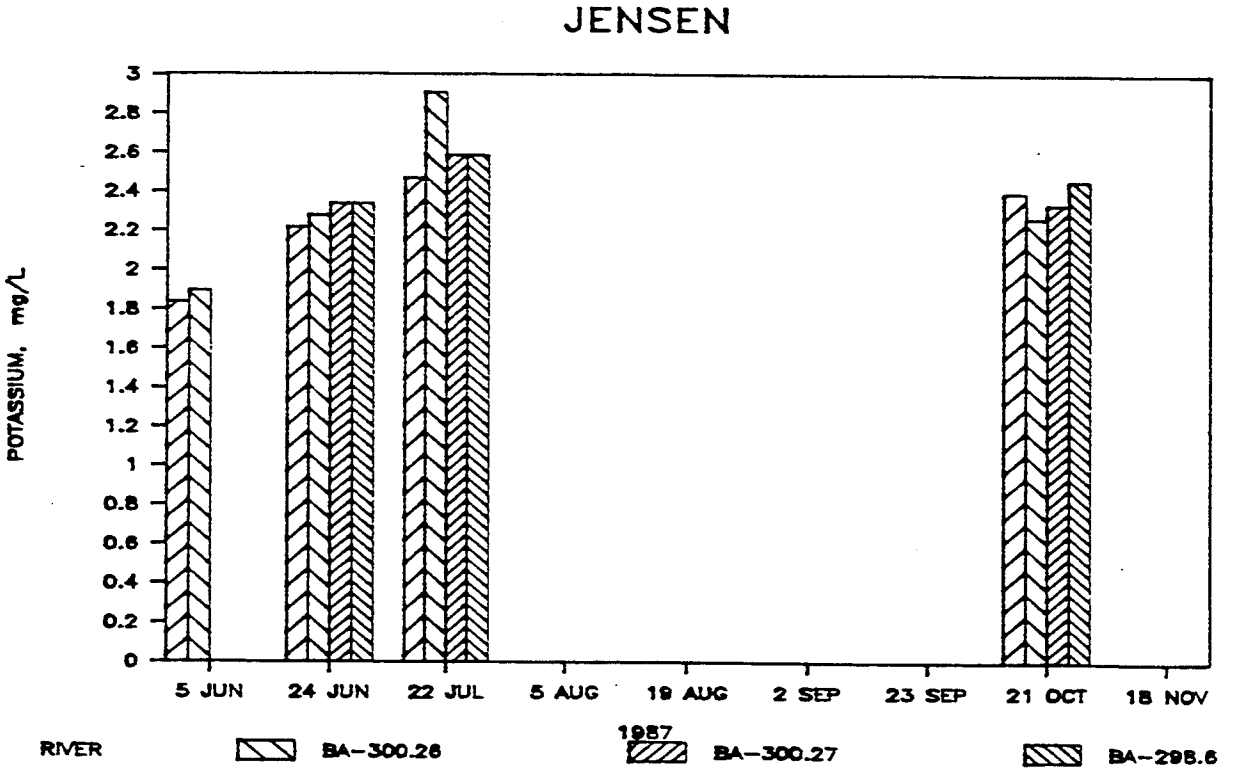

Figure 33. - Potassium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.

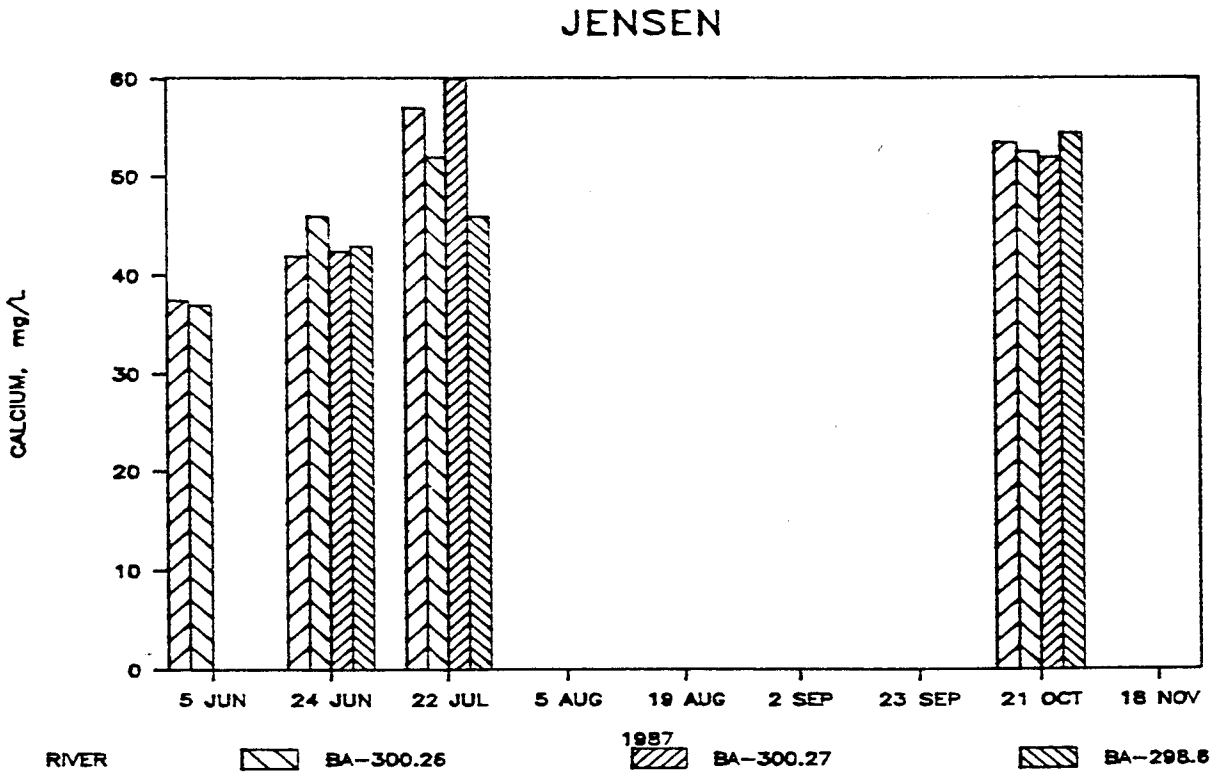

Figure 34. - Calcium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.

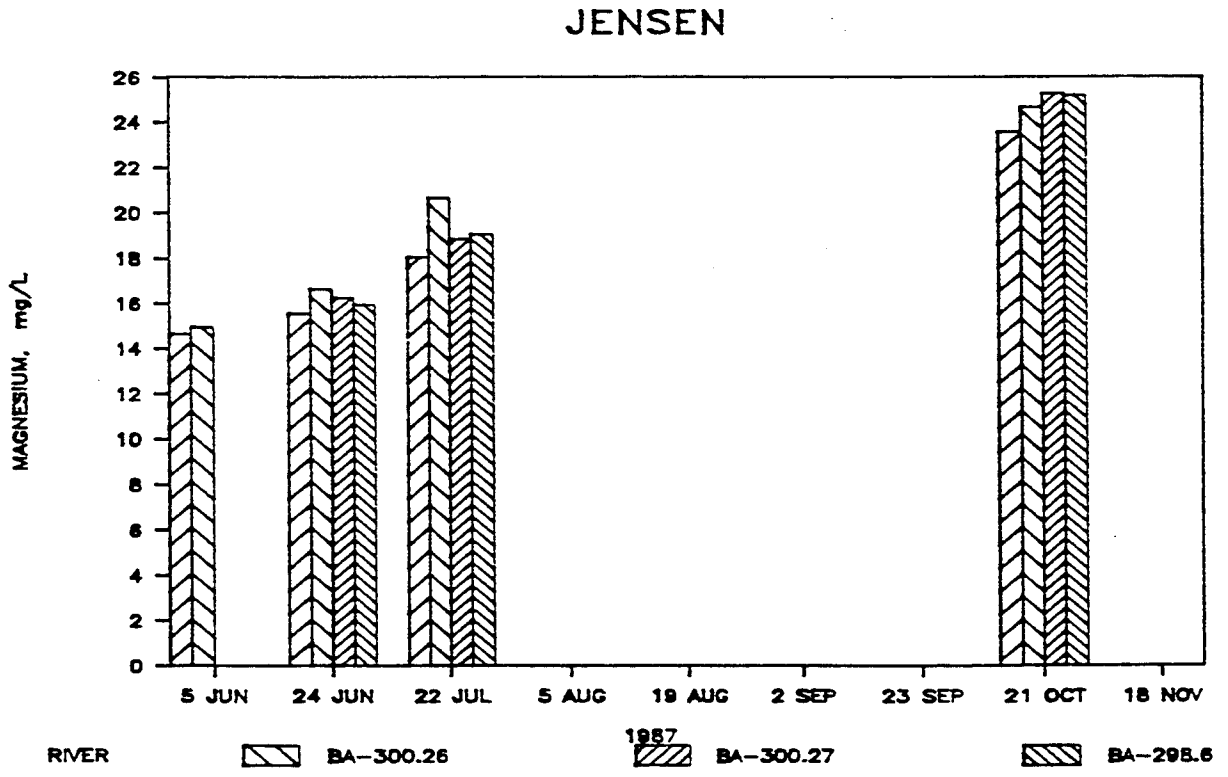

Figure 35. - Magnesium (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.

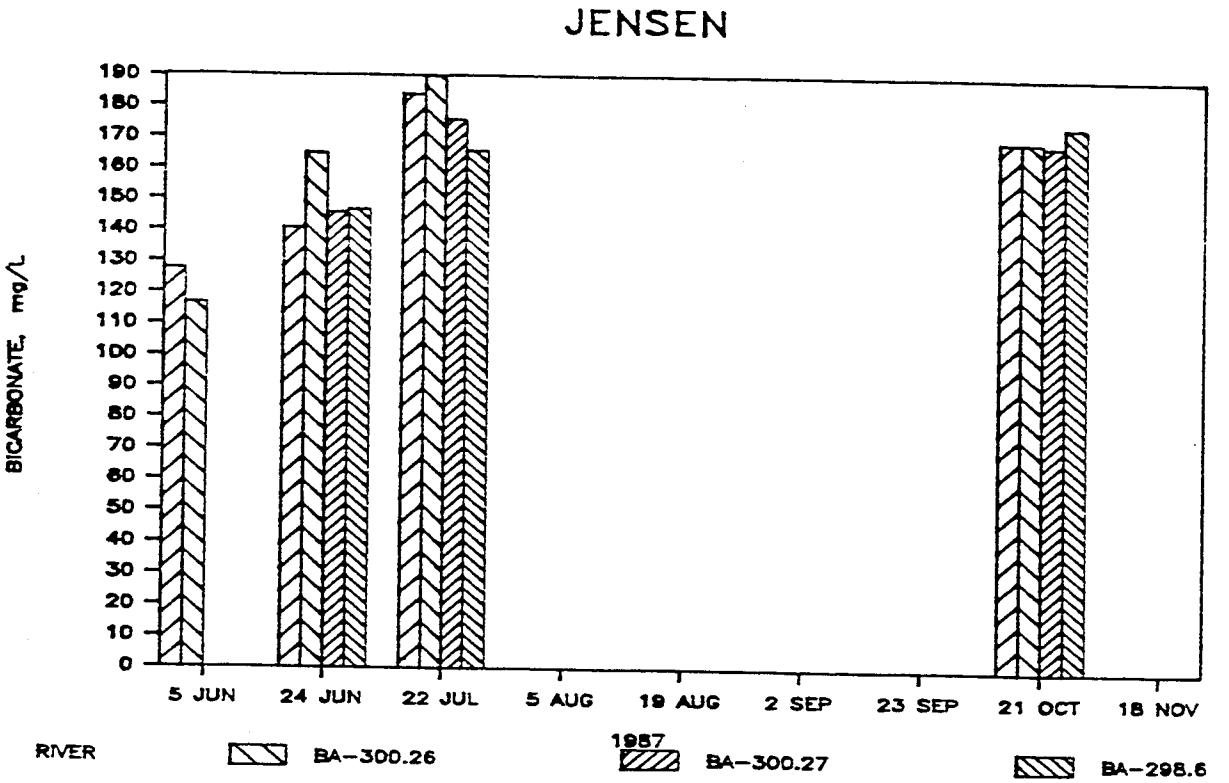

Figure 36. - Bicarbonate (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.

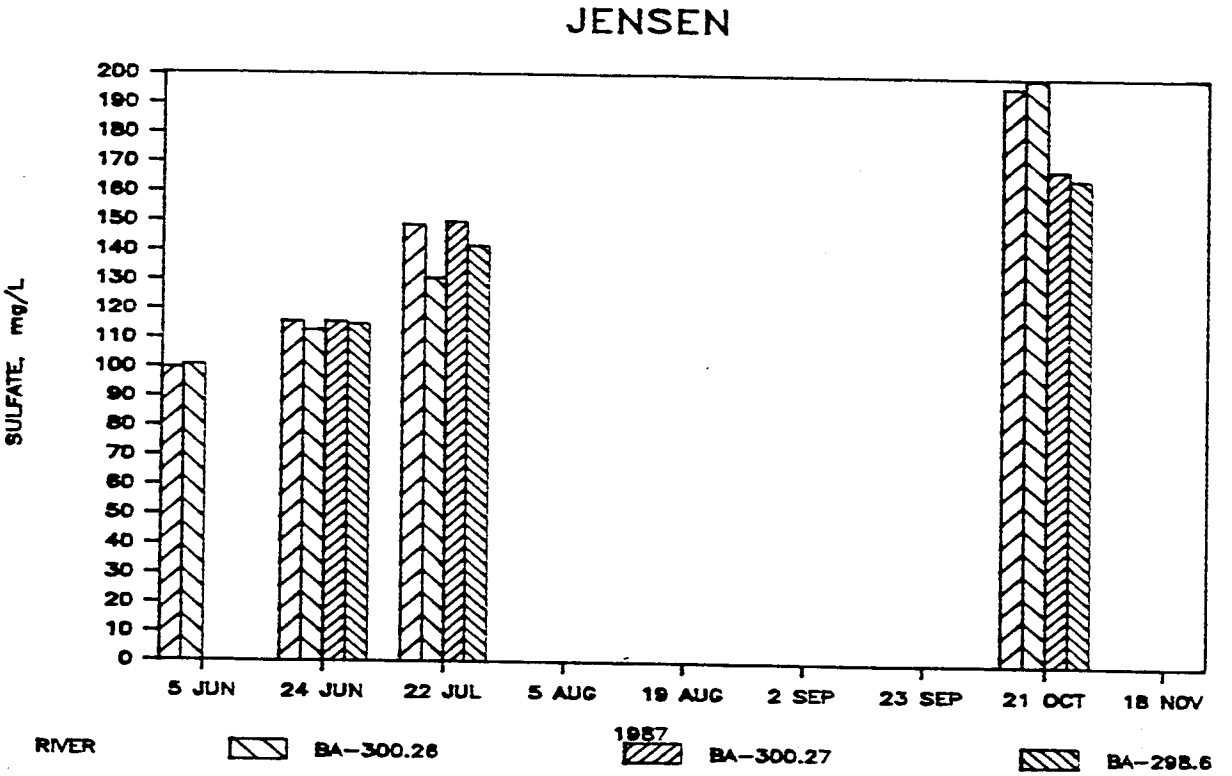

Figure 37. - Sulfate (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.

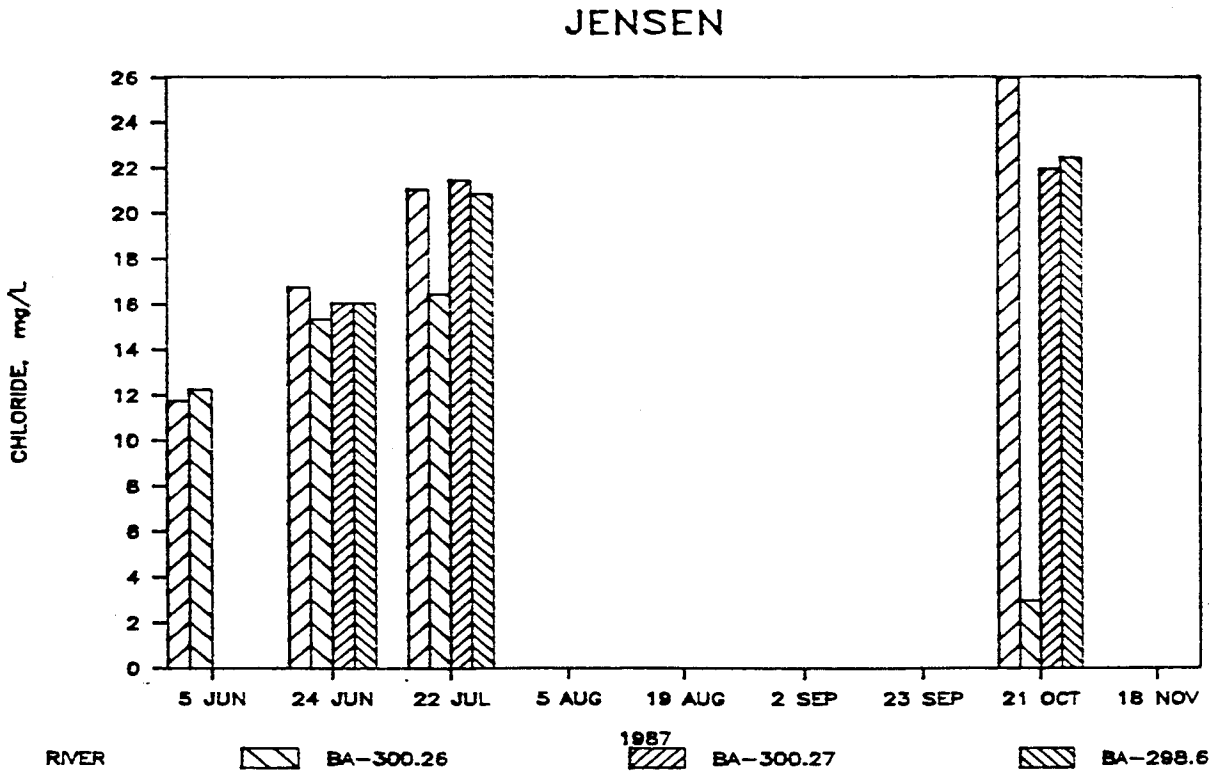

Figure 38. - Chloride (mg/L) for the main river and three backwaters at Jensen, June to October, 1987.

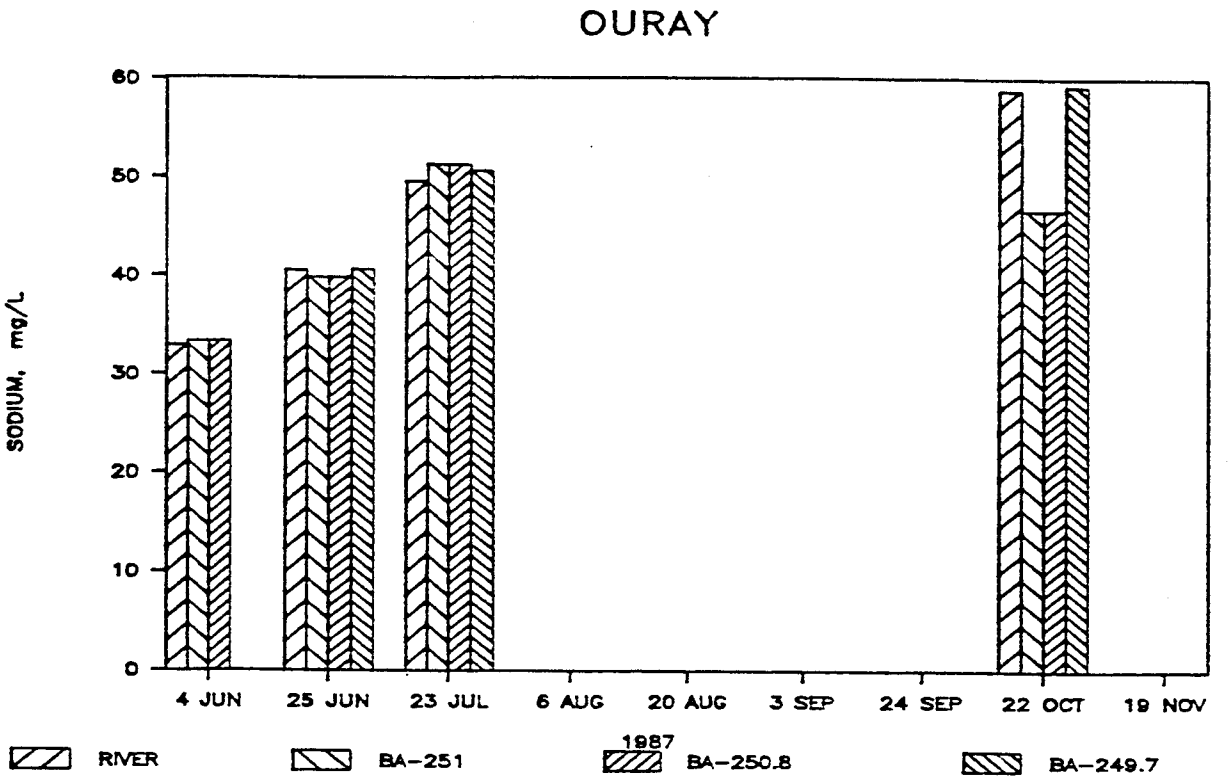

Figure 39. - Sodium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.

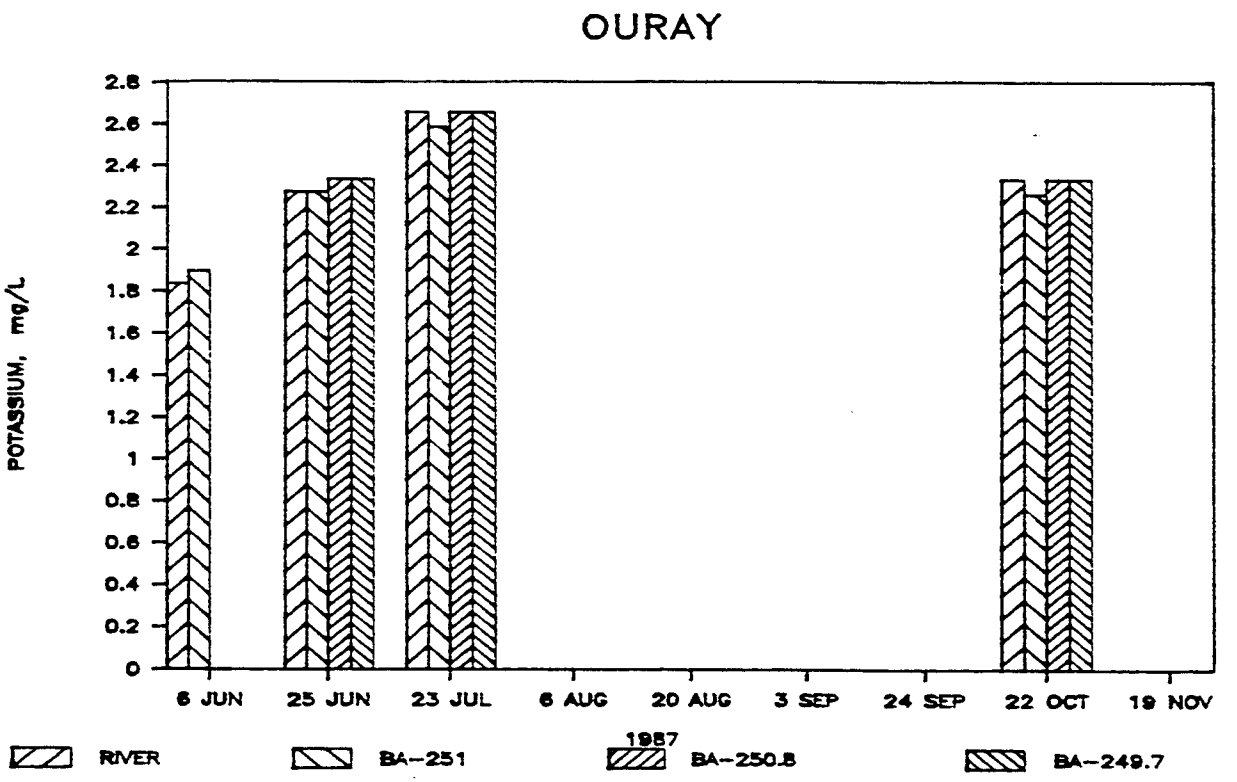

Figure 40. - Potassium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.

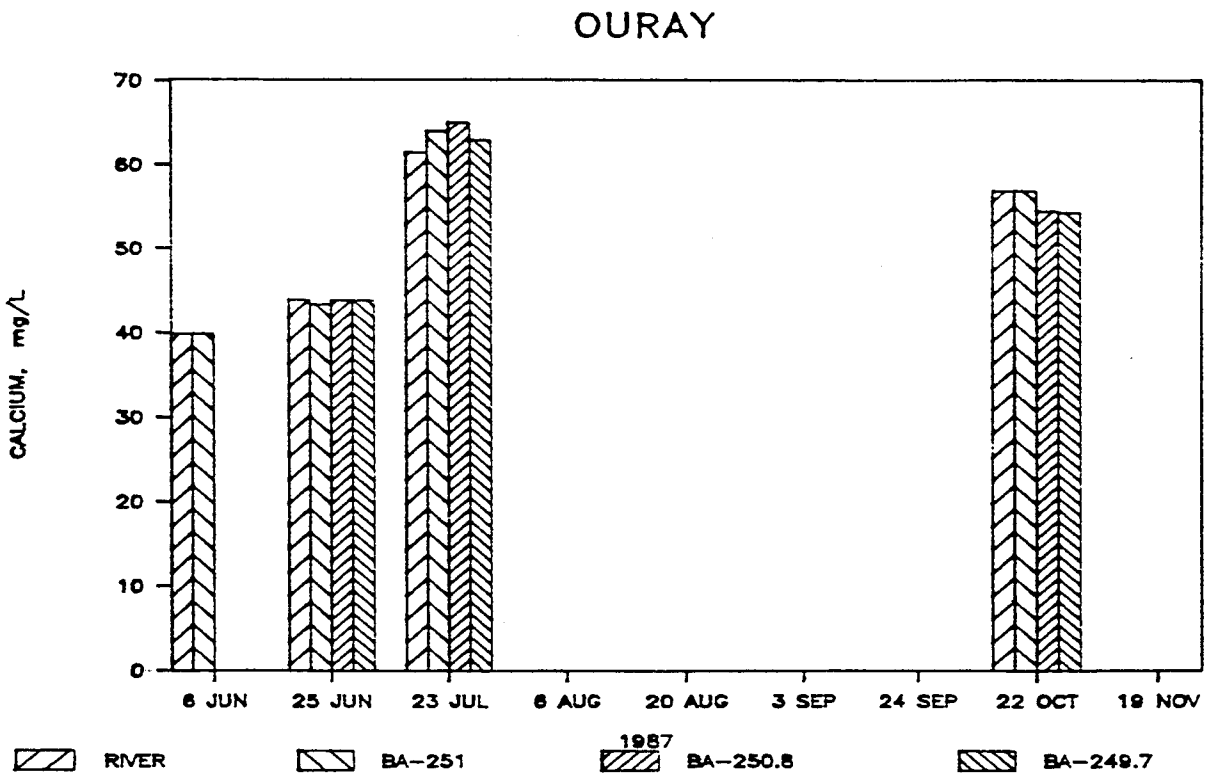

Figure 41. - Calcium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.

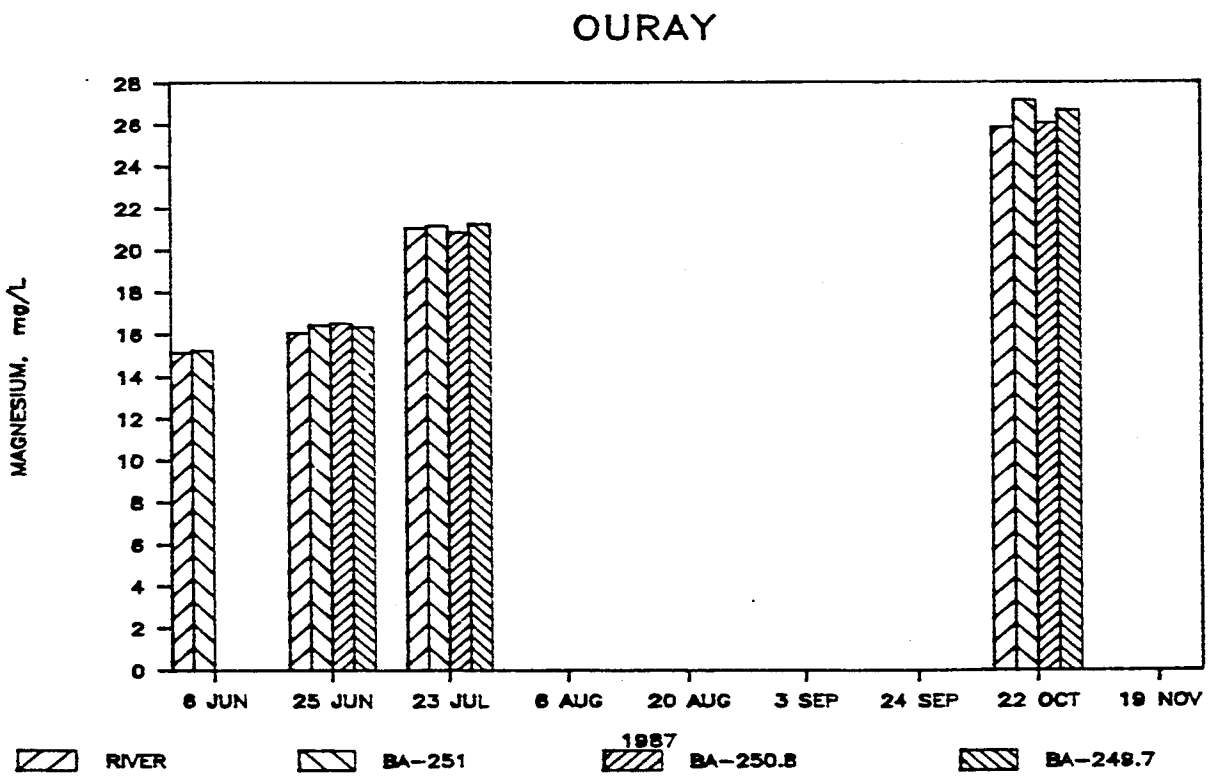

Figure 42. - Magnesium (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.

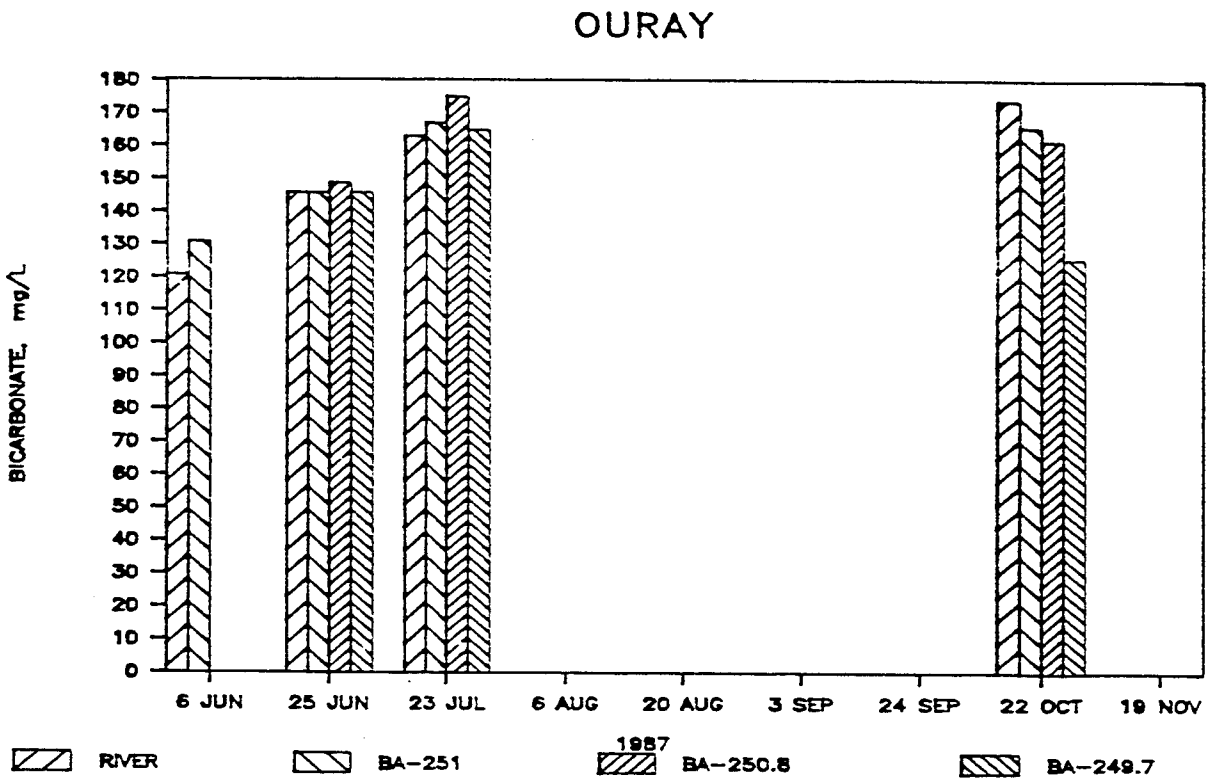

Figure 43. - Bicarbonate (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.

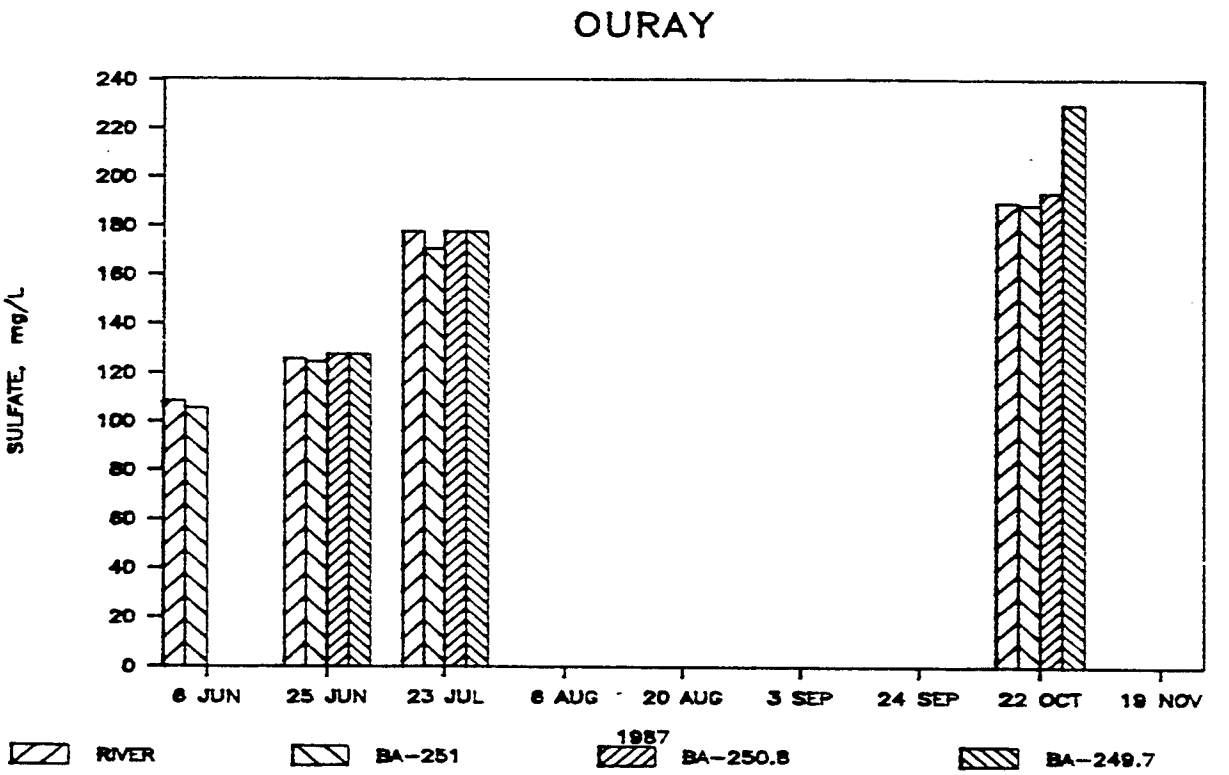

Figure 44. - Sulfate (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.

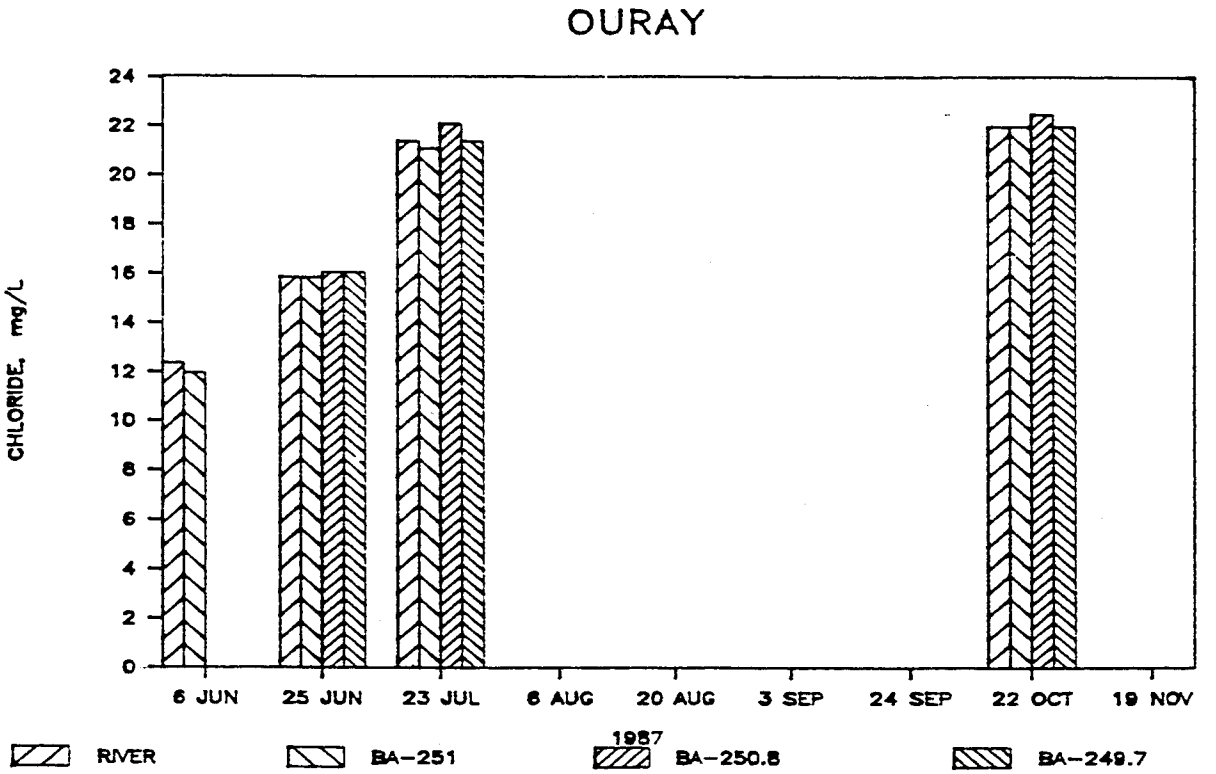

Figure 45. - Chloride (mg/L) for the main river and three backwaters at Ouray, June to October, 1987.

Table 16. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987.

ISLAND PARK - RIVER RMI-332.2

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870602	0.037	ND	ND	0.115	ND	0.419	0.115	3.108
870623	0.008	ND	0.018	ND	ND	0.289	0.018	2.250
870721	0.013	ND	ND	0.053	ND	0.298	0.053	4.077
970804	0.013	ND	ND	0.042	ND	0.311	0.042	3.231
870818	0.027	ND	0.094	0.091	ND	0.379	0.185	6.852
870901	0.004	ND	ND	ND	ND	0.230	0	0.000
870922	0.004	ND	ND	ND	ND	0.237	0	0.000
871020	0.012	ND	ND	ND	ND	0.306	0	0.000
871117	0.019	ND	ND	0.035	0.002	0.389	0.037	1.947
AVG	0.015					0.318	0.050	3.285
STD	0.010					0.062	0.059	

ISLAND PARK - BA-332.2 (GARDEN CREEK)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870602	0.021	ND	ND	0.075	ND	0.376	0.075	3.571
870623	0.012	ND	0.028	ND	ND	0.311	0.028	2.333
870721	0.025	ND	ND	0.061	ND	0.356	0.061	2.440
870804	0.080	ND	0.040	0.044	ND	0.424	0.084	1.050
870818	0.045	0.007	0.083	0.091	ND	0.394	0.174	3.867
870901	0.004	ND	0.051	ND	ND	0.433	0.051	12.750
870922	0.005	ND	ND	ND	ND	0.347	0	0.000
871020	0.019	0.008	ND	ND	ND	0.361	0	0.000
871117	0.031	0.009	ND	ND	ND	0.396	0	0.000
AVG	0.027					0.378	0.053	1.955
STD	0.022					0.036	0.053	

ISLAND PARK - BA-333.2 (BIG ISLAND)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870602								
870623	0.013	ND	ND	ND	ND	0.301	0	0.000
870721	0.017	ND	0.015	ND	ND	0.386	0.015	0.882
870804	0.017	ND	ND	ND	ND	0.344	0	0.000
870818	0.027	ND	0.090	0.036	ND	0.320	0.126	4.667
870901	0.012	ND	0.013	ND	ND	0.256	0.013	1.083
870922	0.009	ND	0.013	ND	ND	0.301	0.013	1.444
871020	0.009	0.009	ND	ND	ND	0.346	0	0.000
871117	0.021	0.006	ND	0.032	ND	0.393	0.032	1.524
AVG	0.016					0.331	0.025	1.592
STD	0.006					0.043	0.040	

Table 16. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

JENSEN - RIVER RMI-300.26

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870603	0.048	ND	ND	0.135	ND	0.135	0.135	2.813
870624	0.014	ND	0.015	ND	ND	0.304	0.015	1.071
870722	0.023	ND	ND	0.059	ND	0.326	0.059	2.565
870805	0.019	ND	ND	0.044	ND	0.269	0.044	2.316
870819	0.047	0.001	0.074	0.103	ND	0.403	0.177	3.766
870902	0.006	ND	0.013	ND	ND	0.254	0.013	2.167
870923	0.002	ND	ND	ND	ND	0.255	0	0.000
871021	0.007	0.005	ND	ND	ND	0.319	0	0.000
871117	0.021	ND	ND	0.055	ND	0.041	0.055	2.619
AVG	0.021					0.256	0.055	2.663
STD	0.016					0.102	0.059	

JENSEN - BA-300.26 (REFERENCE)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870603	0.033	ND	ND	0.086	ND	0.434	0.086	2.606
870624	0.028	ND	0.038	ND	ND	0.352	0.038	1.357
870722	0.064	ND	0.077	ND	ND	0.573	0.077	1.203
870805	0.015	ND	0.010	ND	ND	0.475	0.01	0.667
870819	0.054	ND	0.086	ND	ND	0.524	0.086	1.593
870902	0.007	ND	0.012	ND	ND	0.292	0.012	1.714
870923	0.008	ND	0.023	ND	ND	0.304	0.023	2.875
871021	0.016	ND	ND	ND	ND	0.340	0	0.000
871117	0.013	0.008	ND	0.034	ND	0.344	0.034	2.615
AVG	0.026					0.404	0.041	1.538
STD	0.019					0.095	0.032	

JENSEN - BA-300.27 (SMALL)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870603								
870624	0.015	ND	0.026	ND	ND	0.357	0.026	1.733
870722	0.030	0.001	ND	0.059	ND	0.346	0.059	1.967
870805	0.010	ND	ND	0.031	ND	0.262	0.031	3.100
870819	0.035	0.002	0.074	0.103	ND	0.363	0.177	5.057
870902	0.004	ND	ND	ND	ND	0.251	0	0.000
870923	0.015	ND	0.028	ND	ND	0.351	0.028	1.867
871021	0.009	ND	ND	ND	ND	0.338	0	0.000
871117	0.025	0.006	ND	0.054	0.003	0.440	0.057	2.280
AVG	0.018					0.339	0.047	2.643
STD	0.010					0.056	0.053	

JENSEN - BA-298.6 (SQUAW CREEK)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870603								
870624	0.019	ND	ND	ND	ND	0.292	0	0.000
870722	0.041	ND	0.062	0.043	ND	0.525	0.105	2.561
870805	0.036	ND	ND	0.033	ND	0.353	0.033	0.917
870819	0.031	ND	0.072	0.095	ND	0.344	0.167	5.387
870902	0.008	ND	0.012	ND	ND	0.245	0.012	1.500
870923	0.010	ND	0.013	ND	ND	0.320	0.013	1.300
871021	0.019	0.004	ND	ND	ND	0.366	0	0.000
871117	0.011	0.008	ND	0.051	ND	0.401	0.051	4.636
AVG	0.022					0.356	0.048	2.177
STD	0.012					0.078	0.056	

Table 16. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from June to November, 1987. Continued.

OURAY - RIVER RMI-251.0

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870604	0.078	ND	0.077	0.117	ND	0.440	0.194	2.487
870625	0.006	ND	0.010	ND	ND	0.333	0.01	1.667
870723	0.030	0.004	ND	0.208	ND	0.365	0.208	6.933
870806	0.034	ND	ND	0.031	ND	0.362	0.031	0.912
870820	0.091	0.011	0.184	0.185	0.005	0.513	0.374	4.110
870903	0.018	ND	0.018	ND	ND	0.247	0.018	1.000
870924	0.014	ND	0.032	ND	ND	0.358	0.032	2.286
871022	0.019	0.005	ND	0.096	ND	0.397	0.096	5.053
871119	0.025	0.004	ND	0.122	0.002	0.341	0.124	4.960
AVG	0.035					0.373	0.121	3.451
STD	0.028					0.070	0.114	

OURAY - BA-251.0 (NEAR REF)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870604	0.055	ND	0.035	0.074	ND	0.486	0.109	1.982
870625	0.012	ND	0.021	ND	ND	0.317	0.021	1.750
870723	0.028	ND	ND	0.073	ND	0.338	0.073	2.607
870806	0.034	ND	0.025	ND	ND	0.403	0.025	0.735
870820	0.009	ND	0.048	ND	ND	0.350	0.048	5.333
870903	0.034	ND	0.053	ND	ND	0.357	0.053	1.559
870924	0.012	ND	0.031	ND	ND	0.330	0.031	2.583
871022	0.019	0.005	ND	0.062	0.002	0.431	0.064	3.368
871119	0.018	ND	ND	0.121	0.002	0.358	0.123	6.833
AVG	0.025					0.374	0.061	2.475
STD	0.014					0.052	0.034	

OURAY - BA-250.8 (MOULT BEND)

870604								
870625	0.026	ND	0.013	ND	ND	0.321	0.013	0.500
870723	0.039	0.002	ND	ND	ND	0.378	0	0.000
870806	0.077	ND	0.063	ND	ND	0.598	0.063	0.818
870820	0.035	0.002	0.074	0.103	ND	0.363	0.177	5.057
870903	0.052	0.004	0.113	ND	ND	0.327	0.113	2.173
870924	0.044	0.010	0.105	ND	ND	0.405	0.105	2.386
871022	0.018	ND	ND	ND	ND	0.398	0	0.000
871119	0.020	0.007	ND	0.137	ND	0.294	0.137	6.850
AVG	0.039					0.386	0.076	1.955
STD	0.018					0.088	0.063	

OURAY - BA-249.7 (OLD CHARLEY WASH)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	N/P
870604								
870625	0.009	ND	0.016	ND	ND	0.278	0	0.000
870723	0.035	ND	ND	0.118	ND	0.374	0.118	3.371
870806	0.040	ND	ND	0.036	ND	0.458	0.036	0.900
870820	0.033	ND	0.126	0.070	ND	0.354	0.196	5.939
870903	0.051	ND	0.054	ND	ND	0.312	0.054	1.059
870924	0.007	ND	0.014	ND	ND	0.288	0.014	2.000
871022	0.023	0.012	ND	0.041	0.003	0.433	0.044	1.913
871119	0.025	0.008	ND	0.111	0.002	0.269	0.113	4.520
AVG	0.028					0.346	0.072	2.578
STD	0.014					0.067	0.061	

Table 17. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

ISLAND PARK - RIVER RMI 333.0

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	TIN/OP
880712	0.051	0.013	0.03	0.075	ND	0.459	0.105	2.059	8.077
880726	0.008	ND	ND	0.07	ND	0.395	0.07	8.750	
880809	0.119	0.081	0.031	0.106	0.022	0.663	0.159	1.336	1.963
880823	0.011	ND	ND	0.137	ND	0.322	0.137	12.455	
880906	0.009	ND	ND	0.103	0.001	0.43	0.104	11.556	
880920	0.011	0.002	ND	0.111	0.003	0.459	0.114	10.364	57.000
881011	0.012	0.003	ND	0.073	ND	0.435	0.073	6.083	24.333
AVG	0.032			0.096		0.452	0.109	7.515	22.843
STD	0.036			0.023		0.097	0.030	4.147	

ISLAND PARK - BA 333.2 (BIG ISLAND)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880712	0.02	0.007	ND	0.053	ND	0.366	0.053	2.650	7.571
880726	0.01	ND	0.02	0.04	ND	0.417	0.06	6.000	
880809	0.014	ND	ND	ND	ND	0.384	0	0.000	
880823	0.017	ND	0.039	0.074	ND	0.465	0.113	6.647	
880906	0.045	0.006	0.051	0.053	0.002	0.754	0.106	2.356	13.250
880920	0.026	ND	ND	0.04	0.002	0.528	0.042	1.500	
881011	0.018	ND	ND	ND	ND	0.586	0	0.000	
AVG	0.022			0.037		0.500	0.053	2.736	10.411
STD	0.011			0.026		0.127	0.042	2.467	

ISLAND PARK - BA 327.6 (RAINBOW PARK)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880712	0.036	0.016	0.071	0.072	ND	0.534	0.141	3.917	8.813
880726	0.013	0.005	0.055	0.074	ND	0.482	0.129	9.923	25.800
880809	0.031	0.017	0.018	0.053	0.006	0.538	0.077	2.484	4.529
880823	0.023	ND	0.032	0.129	ND	0.414	0.161	7.000	
880906	0.023	0.002	0.014	0.096	0.002	0.472	0.112	4.870	56.000
880920	0.013	0.003	ND	0.096	0.003	0.453	0.099	7.615	33.000
881011	0.011	0.002	ND	0.071	ND	0.36	0.071	6.455	35.500
AVG	0.021			0.084		0.465	0.113	6.038	27.274
STD	0.009			0.023		0.059	0.031	2.305	

Table 17. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988. Continued.

JENSEN - RIVER RM 300.6

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880713	0.025	0.016	0.022	0.07	ND	0.407	0.029	1.160	1.813
880727	0.013	ND	ND	0.059	ND	0.373	0.059	4.536	
880810	0.05	0.007	ND	0.277	0.004	0.387	0.281	4.683	40.143
880824	0.007	ND	ND	0.132	ND	0.356	0.132	18.857	
880907	0.011	ND	ND	0.132	0.002	0.416	0.134	12.182	
880921	0.01	ND	ND	0.118	0.002	0.395	0.12	12.000	
881012	0.011	0.001	ND	0.082	ND	0.432	0.082	7.455	82.000
AVG	0.020			0.124		0.396	0.120	8.696	41.318
STD	0.017			0.068		0.024	0.075	5.581	

JENSEN - BR 300.6 (EPHEMERAL)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880713	0.027	0.008	0.107	0.068	ND	0.587	0.175	6.481	21.875
880727	0.014	ND	0.02	0.058	ND	0.539	0.06	4.286	
880810	0.045	ND	ND	0.229	0.004	0.415	0.233	5.178	
880824	0.008	ND	ND	0.132	ND	0.424	0.132	16.500	
880907	0.009	ND	ND	0.039	0.001	0.39	0.04	4.444	
880921	0.009	ND	ND	0.108	0.002	0.441	0.11	12.222	
881012	0.007	ND	ND	0.061	ND	0.374	0.061	8.714	
AVG	0.017			0.099		0.453	0.116	8.261	21.875
STD	0.013			0.061		0.074	0.065	4.256	

JENSEN - BR 300.5 (PUMPS)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880713	0.023	0.013	0.025	0.075	0.003	0.462	0.103	4.478	7.923
880727	0.011	ND	0.022	0.061	ND	0.388	0.083	7.545	
880810	0.018	ND	0.02	ND	ND	0.604	0.02	1.111	
880824	0.009	ND	ND	0.09	ND	0.459	0.09	10.000	
880907	0.018	ND	ND	ND	ND	1.09	0	0.000	
880921	0.014	ND	ND	ND	ND	0.812	0	0.000	
881012	0.011	ND	ND	ND	ND	0.473	0	0.000	
AVG	0.015			0.032		0.613	0.042	3.305	7.923
STD	0.005			0.038		0.234	0.044	3.813	

Table 17. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988. Continued.

JENSEN - BA 298.6 (ABOVE SQUAW CREEK) LATER BA 299.2 (DEER TRACK)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880713	0.031	0.021	0.018	0.064	0.004	0.466	0.086	2.774	4.095
880727	0.011	ND	ND	0.056	ND	0.407	0.056	5.091	
880810	0.02	ND	0.023	0.134	ND	0.501	0.157	7.850	
880824	0.03	ND	0.016	0.123	ND	0.522	0.139	4.633	
880907	0.086	0.015	0.09	0.089	0.004	0.755	0.183	2.126	12.200
880921	0.029	0.003	ND	0.1	0.003	0.453	0.103	3.552	34.333
881012	0.021	0.003	ND	0.084	ND	0.46	0.084	4.000	28.000
AVG	0.033			0.093		0.509	0.115	4.290	19.657
STD	0.023			0.027		0.106	0.042	1.733	

JENSEN - BA 298.4 (BELOW SQUAW CREEK)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880713	0.017	0.004	ND	0.071	ND	0.399	0.071	4.176	17.750
880727	0.013	ND	0.017	0.06	ND	0.425	0.023	1.769	
880810	0.047	0.008	0.113	0.18	ND	0.522	0.131	2.787	16.375
880824	0.009	ND	ND	0.131	ND	0.586	0.131	14.556	
880907	0.015	ND	ND	0.109	0.001	0.482	0.11	7.333	
880921	0.022	0.003	ND	0.105	0.003	0.442	0.108	4.909	36.000
881012	0.026	0.003	ND	0.046	ND	0.462	0.046	1.769	15.333
AVG	0.021			0.100		0.474	0.089	5.329	21.365
STD	0.012			0.043		0.059	0.039	4.183	

OURAY - RIVER RMI 251.0

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880714	0.028	0.023	0.023	0.059	0.003	0.396	0.085	3.036	3.696
880728	0.016	0.007	ND	0.049	ND	0.403	0.049	3.063	7.000
880811	0.048	0.005	0.011	0.127	ND	0.378	0.138	2.875	27.600
880825	0.026	0.004	ND	0.112	ND	0.388	0.122	4.692	30.500
880908	0.02	ND	ND	0.096	ND	0.446	0.096	4.800	
880922	0.035	0.004	ND	0.106	0.005	0.432	0.113	3.229	28.250
881013	0.023	0.002	0.011	0.105	0.001	0.399	0.117	5.087	58.500
AVG	0.028			0.094		0.406	0.103	3.826	25.924
STD	0.010			0.027		0.022	0.027	0.907	

Table 17. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988. Continued.

OURAY - BR 251.0 (NEAR REFERENCE)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880714	0.027	0.015	ND	0.065	ND	0.379	0.065	2.407	4.333
880728	0.021	0.006	0.054	0.052	ND	0.486	0.106	5.048	17.667
880811	0.067	0.007	0.181	0.131	ND	0.628	0.312	4.657	44.571
880825	0.032	0.004	ND	0.114	ND	0.461	0.114	3.563	28.500
880908	0.064	0.01	0.048	0.096	0.002	0.704	0.146	2.281	14.600
880922	0.036	ND	0.015	0.083	0.002	0.583	0.1	2.778	
881013	0.026	0.002	0.029	0.093	0.002	0.478	0.124	4.769	62.000
AVG	0.039			0.091		0.531	0.138	3.643	28.612
STD	0.017			0.025		0.103	0.075	1.096	

OURAY - BR 250.8 (MOULT BEND)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880714	0.057	0.043	0.03	0.058	0.009	0.51	0.07	1.228	1.628
880728	0.026	0.019	0.047	0.047	0.004	0.498	0.098	3.769	5.158
880811	0.129	0.019	0.053	0.124	0.01	0.487	0.187	1.450	9.842
880825	0.072	0.012	ND	0.109	0.007	0.432	0.116	1.611	9.667
880908	0.025	0.004	0.051	0.096	0.002	0.463	0.149	5.960	37.250
880922	0.018	ND	ND	0.09	0.002	0.432	0.092	5.111	
881013	0.012	ND	ND	0.126	0.002	0.439	0.13	10.833	
AVG	0.048			0.093		0.466	0.120	4.280	12.709
STD	0.039			0.029		0.030	0.036	3.189	

OURAY - BR 250.7 (SAND BEACH)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880714	0.03	0.017	ND	0.064	ND	0.409	0.064	2.133	3.765
880728	0.013	0.003	ND	0.048	ND	0.367	0.048	3.692	16.000
880811	0.05	0.007	ND	0.13	0.003	0.397	0.133	2.660	19.000
880825	0.03	0.002	ND	0.113	ND	0.486	0.113	3.767	56.500
880908	0.033	0.003	ND	0.085	0.002	0.456	0.087	2.636	29.000
880922	0.019	ND	0.011	0.089	0.002	0.53	0.102	5.368	
881013	0.014	ND	ND	0.135	0.003	0.426	0.138	9.857	
AVG	0.027			0.095		0.442	0.098	4.302	24.853
STD	0.012			0.030		0.048	0.031	2.474	

Table 17. - Nutrient concentrations (mg/L) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988. Continued.

OURAY - BR 249.3 (OLD CHARLEY WASH)

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880714	0.029	0.022	0.042	0.068	0.007	0.414	0.117	4.034	5.318
880728	0.023	0.012	0.015	0.047	ND	0.419	0.062	2.696	5.167
880611	0.079	0.007	0.015	0.13	0.004	0.368	0.149	1.886	21.286
880825	0.045	ND	ND	0.113	0.004	0.46	0.117	2.600	
880908	0.031	0.006	ND	0.075	0.002	0.518	0.077	2.484	12.833
880922	0.05	0.004	ND	0.127	0.003	0.445	0.13	2.600	32.500
881013	0.014	ND	ND	0.087	0.003	0.407	0.09	6.429	
AVG	0.039			0.092		0.433	0.106	3.247	15.421
STD	0.020			0.029		0.044	0.029	1.430	

ASHLEY CREEK

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP	
880713	0.02	0.012	ND	4.1	0.064	1.05	4.164	208.200	347.000
880727	0.013	ND	0.01	4.03	0.072	0.856	4.112	316.308	
880810	0.068	ND	0.047	3.66	0.04	1.37	3.747	55.103	
880624	0.017	ND	0.044	3.6	0.04	1.03	3.684	216.706	
880907	0.015	ND	0.021	4.72	0.063	1.24	4.804	320.267	
880921	0.009	ND	ND	5.55	0.049	0.731	5.599	622.111	
881012	0.024	ND	ND	7.38	0.06	0.837	7.44	310.000	
AVG	0.024			4.720		1.016	4.793	292.671	347.000
STD	0.019			1.254		0.212	1.244	160.132	

BRUSH CREEK

DATE	TP	OP	NH3	NO3	NO2	TKN	TIN	TIN/TP
880713								
880727								
880810	0.021	ND	ND	0.34	0.013	0.572	0.353	16.810
880624	0.008	ND	ND	0.412	0.011	0.435	0.423	52.875
880907	0.021	ND	ND	0.141	0.005	0.461	0.146	6.952
880921	0.005	ND	ND	1.37	0.031	0.564	1.401	280.200
881012	0.008	ND	ND	1.37	0.027	0.475	1.397	174.625
AVG	0.013			0.727		0.501	0.744	106.292
STD	0.007			0.533		0.056	0.543	105.491

Table 18. - Average heavy metal concentrations (ug/L) in the main river and selected backwaters at Island Park, Jensen, and Ouray for the 1987 sampling season.

Site		Mn	Fe	Cu	Zn	Cd	Pb
Island Park	River	0.0270	0.0203	0.002	0.0015	0.0017	0.0017
	BA-332.2	0.0230	0.2170	0.0028	0.0130	0.0240	0.0035
	BA-333.2	0.0390	0.1543	0.0025	0.0167	0.0015	0.0017
Jensen	River	0.0353	0.2273	0.0020	0.0138	0.0017	0.0023
	BA-300.26	0.1300	0.2336	0.0020	0.0130	0.0013	0.0023
	BA-300.27	0.0515	0.2458	0.0030	0.0145	0.0013	0.0027
	BA-298.6	0.0545	0.2450	0.0025	0.0170	0.0020	0.0025
Ouray	River	0.0360	0.3528	0.0020	0.0130	0.0013	0.0033
	BA-251.0	0.0412	0.2560	0.0025	0.0208	0.0012	0.0037
	BA-250.8	0.0767	0.5750	0.0035	0.0190	0.0015	0.0043
	BA-249.7	0.0293	0.2533	0.0017	0.0223	0.0015	0.0027

Table 19. - Concentrations (ug/L) for six heavy metals in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to October, 1987.

ISLAND PARK - RIVER RMI 332.2

DATE	Mn	Fe	Cu	Zn	Cd	Pb
6-2-87	0.039	0.023	0.002	0.016	0.001	0.002
6-23-87	0.022	0.153	0.002	0.014	0.002	0.002
7-21-87	0.020	0.127	0.002	0.015	0.002	0.002
10-20-87	<0.020	0.130	<0.001	0.068		0.020
AVG	0.0270	0.0203	0.002	0.0015	0.0017	0.0017
STD	0.0085	0.0138	ERR	0.0009	0.0005	0.0005

ISLAND PARK BA-332.2 GARDEN CREEK

6-2-87	0.006	0.180	0.002	0.015	0.001	0.002
6-23-87	0.036	0.172	0.002	0.015	0.001	0.002
7-21-87	0.03	0.186	0.002	0.014	0.002	0.002
10-20-87	0.020	0.330	0.005	0.008		0.008
AVG	0.0230	0.2170	0.0028	0.0130	0.0240	0.0035
STD	0.0114	0.0654	0.0013	0.0029	0.0130	0.0026

ISLAND PARK BA-333.2 BIG ISLAND

6-23-87	0.041	0.186	0.003	0.016	0.001	0.001
7-21-87	0.037	0.167	0.002	0.015	0.002	0.002
10-20-87	<0.020	0.110	<0.001	0.019		0.002
AVG	0.0390	0.1543	0.0025	0.0167	0.0015	0.0017
STD	0.0020	0.0323	0.0005	0.0017	0.0005	0.0005

JENSEN - RIVER RMI 300.26

6-3-87	0.051	0.305	0.002	0.019	0.001	0.003
6-24-87	0.024	0.172	0.002	0.014	0.002	0.002
7-22-87	0.031	0.222	0.002	0.015	0.002	0.002
10-21-87	<0.020	0.210	<0.001	0.007		<0.001
AVG	0.0353	0.2273	0.0020	0.0138	0.0017	0.0023
STD	0.0114	0.0485	ERR	0.0043	0.0005	0.0005

JENSEN BA-300.26 REFERENCE

6-3-87	0.03	0.172	0.002	0.015	0.001	0.002
6-24-87	0.14	0.27	0.002	0.014	0.001	0.003
7-22-87	0.16	0.293	0.002	0.016	0.002	0.002
8-5-87	0.28	0.213	0.002	0.014	0.001	0.002
10-21-87	0.040	0.220	<0.001	0.006		<0.001
AVG	0.1300	0.2336	0.0020	0.0130	0.0013	0.0023
STD	0.0912	0.0430	ERR	0.0036	0.0004	0.0004

JENSEN BA-300.27 SMALL

6-3-87	0.042	0.199	0.002	0.015	0.001	0.002
6-24-87	0.035	0.181	0.003	0.014	0.002	0.002
7-22-87	0.109	0.473	0.004	0.022	0.001	0.004
10-21-87	0.020	0.130	<0.001	0.007		<0.001
AVG	0.0515	0.2458	0.0030	0.0145	0.0013	0.0027
STD	0.0341	0.1336	0.0008	0.0053	0.0005	0.0009

Table 19. - Concentrations (ug/L) for six heavy metals in the main river and selected backwaters at Island Park, Jensen, and Ouray from June to October, 1987. Continued.

JENSEN BA-298.6 SQUAW CREEK

6-24-87	0.051	0.186	0.002	0.014	0.001	0.002
7-22-87	0.058	0.304	0.003	0.020	0.003	0.003
10-21-87	0.060	0.310	<0.001	0.004		<0.001
AVG	0.0545	0.2450	0.0025	0.0170	0.0020	0.0025
STD	0.0035	0.0590	0.0005	0.0030	0.0010	0.0005

OURAY - RIVER RMI 251.0

6-4-87	0.059	0.362	0.002	0.020	0.001	0.003
6-25-87	0.029	0.200	0.002	0.016	0.001	0.002
7-23-87	0.036	0.289	0.002	0.014	0.002	0.002
10-22-87	0.020	0.560	<0.001	0.002		0.006
AVG	0.0360	0.3528	0.0020	0.0130	0.0013	0.0033
STD	0.0144	0.1327	ERR	0.0067	0.0005	0.0016

OURAY BA-251.0

6-4-87	0.053	0.243	0.002	0.016	0.001	0.002
6-4-87	0.058	0.306	0.003	0.018	0.001	0.002
6-25-87	0.033	0.197	0.002	0.014	0.001	0.002
7-23-87	0.031	0.255	0.002	0.014	0.002	0.002
8-6-87	0.052	0.255	0.002	0.016	0.001	0.003
10-22-87	0.020	0.280	0.004	0.047		0.011
AVG	0.0412	0.2560	0.0025	0.0208	0.0012	0.0037
STD	0.0139	0.0335	0.0008	0.0118	0.0004	0.0033

OURAY BA-250.8 MOULT BEND

6-25-87	0.054	0.321	0.002	0.018	0.001	0.003
7-23-87	0.146	0.844	0.005	0.030	0.002	0.008
10-22-87	0.030	0.560	<0.001	0.009		0.002
AVG	0.0767	0.5750	0.0035	0.0190	0.0015	0.0043
STD	0.0500	0.2138	0.0015	0.0086	0.0005	0.0026

OURAY BA-249.7 OLD CHARLEY WASH

6-25-87	0.027	0.167	0.002	0.014	0.001	0.002
7-23-87	0.031	0.288	0.002	0.014	0.002	0.002
10-22-87	0.030	0.305	0.001	0.039		0.004
AVG	0.0293	0.2533	0.0017	0.0223	0.0015	0.0027
STD	0.0017	0.0614	0.0005	0.0118	0.0005	0.0009

Table 20. - Chlorophyll a concentrations (mg/m^3) for the main river and selected backwaters at Island Park, Jensen, and Ouray from July to October, 1988.

SAMPLING LOCATION	RIVERMILE INDEX	JULY 12-14	JULY 26-28	AUG 9-11	AUG 23-25	SEPT 6-8	SEPT 20-22	OCT 11-13	SEASONAL AVERAGE
IP-RIVER	333.2	8.00	2.53	8.60	2.12	1.73	2.04	2.75	3.97
IP-RIVER<25u	333.2	5.81	1.70	4.76	2.41	1.75	1.27	1.93	2.81
IP-BA-BIGISLAND	333.2	3.94	6.94	3.92	7.17	12.31	6.88	9.47	7.23
IP-BA-BIGISL<25	333.2	3.82	4.71	3.70	7.11	12.75	6.63	6.92	6.52
IP-BA-RAINBOW	327	7.63	2.71	6.50	5.67	7.16	2.95	1.60	4.89
IP-BA-RANBOW<25	327	6.38	3.99	5.91	5.91	7.59	2.61	1.61	4.86
JENSEN-RIVER	300.6	7.60	2.07	3.52	1.97	1.22	2.49	2.05	2.99
JN-RIVER<25u	300.6	7.15	1.82	3.12	2.02	1.38	1.93	1.82	2.75
JN-BA-EPHEM	300.6	14.59	7.70	2.73	2.25	0.81	3.10	2.02	4.74
JN-BA-EPHEM<25u	300.6	9.05	5.04	1.78	2.39	0.68	3.16	1.71	3.40
JN-BA-PUMPS	300.5	7.62	2.88	4.39	2.46	3.65	7.60	3.81	4.63
JN-BA-PUMPS <25	300.5	6.56	3.34	4.27	2.48	3.07	7.15	3.69	4.37
JN-BA-ABOVSQUAW	298.6	6.64	4.70	3.47	11.03	22.80	6.42	2.31	8.20
JN-BA-ABVSQU<25	298.6	6.30	4.33	3.72	9.45	26.48	5.81	2.95	8.43
JN-BA-BLWSQUAW	298.4	6.32	4.72	4.58	1.83	1.71	4.55	4.63	4.05
JN-BA-BLWSQU<25	298.4	6.32	3.65	2.57	1.29	1.60	3.97	3.82	3.32
OURAY-RIVER	251.01	8.85	4.76	5.72	4.61	5.26	8.24	5.17	6.09
OU-RIVER<25u	251.01	7.32	4.34	6.37	4.26	4.02	7.53	5.01	5.55
OU-BA-NEAR REF	251.01	7.15	11.15	27.68	6.87	15.28	9.87	9.75	12.54
OU-BA-NEAREF<25	251.01	7.66	11.11	22.25	7.70	11.42	9.19	8.48	11.12
OU-BA-MOULTBEND	250.8	3.83	9.60	8.75	5.26	4.00	8.04	5.04	6.36
OU-BA-MOULT<25u	250.8	4.78	6.21	6.65	3.46	3.65	8.04	4.82	5.37
OU-BA-SANDBEACH	250.7	5.86	3.75	3.83	2.42	3.60	6.56	4.05	4.30
OU-BA-SANDBCH<2	250.7	5.22	4.00	4.05	2.42	3.09	7.50	4.05	4.33
OU-BA-OLDCHAW95	249.3	7.75	6.57	5.30	3.46	7.64	6.25	5.14	6.01
OU-BA-OLDCHA<25	249.3	7.00	4.83	6.03	3.25	3.99	5.57	4.83	5.07

Table 21. - Concentration (g/m^3) of <25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1987.

Code	River Mile	June 2-4	June 23-25	July 21-23	Aug 4-6	Aug 18-20	Sept 1-3	Sept 21-23	Oct 20-22	Nov 17-19
IP-RIV	332.20	7.00	2.40	2.75	2.07	13.57	1.60	2.60	1.40	3.20
IP-BA	332.20	8.50	3.73	2.94	2.96	15.29	3.47	2.50	1.20	5.80
IP-BA	333.20		3.20	4.67	4.40	9.40	4.50	2.45	1.07	2.00
JN-RIV	300.26	10.89	3.60	4.62	3.06	11.13	2.37	3.15	1.28	2.85
JN-BA	300.27		9.23	5.50	4.69	6.40	3.15	1.90	1.88	2.12
JN-BA	300.26	8.07	3.56	8.20	8.15	9.80	2.60	2.85	1.68	1.22
JN-BA	298.60		4.67	7.50	8.50	7.43	2.65	1.95	1.92	1.47
OU-RIV	251.01	10.83	5.75	5.90	3.80	54.00	5.31	4.53	3.00	3.33
OU-BA	251.01	12.88	5.13	4.90	5.38	4.41	5.00	3.93	2.15	1.97
OU-BA	250.80		6.23	10.38	6.08	10.87	11.54	9.20	3.99	1.30
OU-BA	249.70		9.40	4.93	5.90	11.25	5.90	3.15	2.50	2.25

Table 22. - Concentration (g/m^3) of >25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1987.

Code	River Mile	June 2-4	June 23-25	July 21-23	Aug 4-6	Aug 18-20	Sept 1-3	Sept 21-23	Oct 20-22	Nov 17-19
IP-RIV	332.20	1.87	0.63	0.29	0.42	1.15	0.25	0.29	0.37	0.48
IP-BA	332.20	0.67	2.00	0.48	0.68	1.45	1.49	0.42	3.01	0.61
IP-BA	333.20		0.15	0.10	0.19	0.19	0.08	0.07	0.07	0.14
JN-RIV	300.26	1.56	0.66	0.93	0.39	1.49	0.77	0.24	0.19	0.38
JN-BA	300.27		1.02	2.46	0.87	0.07	0.10	0.28	0.24	0.07
JN-BA	300.26	0.65	0.21	0.97	0.27	0.26	0.15	0.32	0.11	0.19
JN-BA	298.60		0.20	0.56	0.16	0.11	0.09	0.07	0.09	0.44
OU-RIV	251.01	5.41	0.74	0.78	0.58	4.12	0.89	0.39	0.26	0.47
OU-BA	251.01	0.27	0.12	0.21	0.34	0.47	0.28	0.09	0.05	0.10
OU-BA	250.80		0.07	0.26	0.97	0.07	0.53	0.22	0.07	0.04
OU-BA	249.70		0.25	0.29	0.23	0.44	0.49	0.11	0.08	0.13

Table 23. - Concentration (g/m^3) of <25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.

SAMPLING LOCATION	RIVERMILE INDEX	JULY 12-14	JULY 26-28	AUG 9-11	AUG 23-25	SEPT 6-8	SEPT 20-22	OCT 11-13	ANNUAL AVERAGE
IP-RIVER	333.20	11.10	2.01	27.50	1.21	1.43	1.86	2.07	6.74
IP-BA-BIGISL	333.20	7.20	3.85	2.30	2.00	4.80	2.85	2.70	3.67
IP-BA-RAINBO	327.00	7.30	9.00	10.10	4.33	5.72	2.68	2.28	5.92
JENSEN-RIVER	300.60	8.10	3.38	17.40	2.10	1.27	2.28	1.50	5.15
JN-BA-EPHEM	300.60	5.86	2.75	6.80	1.73	1.60	2.76	1.03	3.22
JN-BA-PUMPS	300.50	4.73	4.87	5.00	2.40	2.61	3.25	2.03	3.56
JN-BA-ABVSQU	298.60	12.50	3.54	2.72	9.11	21.20	7.00	5.60	8.81
JN-BA-BLWSQU	298.40	5.71	3.87	8.20	2.20	3.60	4.13	2.75	4.35
OURAY-RIVER	251.01	9.43	3.29	9.50	3.73	3.86	9.86	4.20	6.27
OU-BA-NEARRE	251.01	7.20	7.00	16.40	5.50	7.40	8.60	5.20	8.19
OU-BA-MOULT	250.80	21.80	13.57	17.20	8.60	3.05	4.46	2.32	10.14
OU-BA-SANDBE	250.60	10.25	3.92	7.40	4.27	4.50	4.27	3.20	5.40
OU-BA-OLDCHA	249.30	7.87	5.00	9.38	4.75	3.00	7.10	4.00	5.87

Table 24. - Concentration (g/m^3) of >25 um size-fraction particulate organic material from the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.

SAMPLING LOCATION	RIVERMILE INDEX	JULY 12-14	JULY 26-28	AUG 9-11	AUG 23-25	SEPT 6-8	SEPT 20-22	OCT 11-13	ANNUAL AVERAGE
IP-RIVER	333.20	3.50	0.20	0.62	0.12	0.09	0.13	0.27	0.71
IP-BA-BIGISL	333.20	0.43	0.05	0.05	0.05	0.08	0.09	0.06	0.1[illegible]
IP-BA-RAINBO	327.00	0.45	0.17	0.40	0.18	0.15	0.20	0.15	0.2[illegible]
JENSEN-RIVER	300.60	0.66	0.57	0.43	0.30	0.12	0.36	0.25	0.3[illegible]
JN-BA-EPHEM	300.60	0.67	0.21	0.51	0.19	0.06	0.31	0.58	0.36
JN-BA-PUMPS	300.50	0.26	0.14	0.07	0.08	0.24	0.25	0.16	0.17
JN-BA-ABVSQU	298.60	0.34	0.25	0.35	0.12	1.04	0.55	0.09	0.39
JN-BA-BLWSQU	298.40	0.39	0.95	4.40	0.29	0.82	1.26	1.13	1.32
OURAY-RIVER	251.01	1.10	0.68	0.34	0.35	0.32	0.51	0.32	0.52
OU-BA-NEARRE	251.01	0.40	0.32	0.17	0.24	1.08	0.17	0.17	0.37
OU-BA-MOULT	250.80	0.14	5.12	6.61	1.18	0.34	0.16	0.18	1.96
OU-BA-SANDBE	250.60	0.95	0.17	0.23	0.11	0.18	0.10	0.11	0.27
OU-BA-OLDCHA	249.30	0.45	0.41	2.22	0.15	0.41	0.61	0.32	0.65

Table 25. - Percent organic material of the total suspended solids in the <25 um size-fraction in the river and selected backwaters at Island Park, Jensen, and Ouray in 1988.

SAMPLING LOCATION	RIVERMILE INDEX	JULY 12-14	JULY 26-28	AUG 9-11	AUG 23-25	SEPT 6-8	SEPT 20-22	OCT 11-13	
IP-RIVER	333.20	12.45	10.90	10.78	14.36	26.38	18.70	18.83	16.06
IP-BA-BIGISL	333.20	13.51	18.16	40.18	25.02	43.82	31.65	18.78	27.30
IP-BA-RAINBO	327.00	9.09	10.32	16.25	12.10	17.47	20.94	14.14	14.33
JENSEN-RIVER	300.60	11.66	11.41	11.42	10.42	15.85	13.81	13.12	12.53
JN-BA-EPHEM	300.60	14.75	15.28	12.49	10.40	30.72	14.21	8.66	15.22
JN-BA-PUMPS	300.50	13.84	14.18	23.24	14.04	39.89	21.81	28.06	22.15
JN-BA-ABVSQU	298.60	12.52	13.41	23.16	11.25	13.53	14.43	13.51	14.54
JN-BA-BLWSQU	298.40	14.01	12.83	10.01	14.75	10.11	13.91	15.54	13.02
OURAY-RIVER	251.01	10.35	9.16	10.73	8.71	14.54	9.94	11.39	10.69
OU-BA-NEARRE	251.01	17.11	15.48	13.23	9.87	23.27	12.91	12.92	14.97
OU-BA-MOULT	250.80	12.68	10.57	9.71	8.61	17.80	11.06	15.06	12.21
OU-BA-SANDBE	250.60	14.31	10.82	10.61	11.63	14.86	11.10	13.09	12.35
OU-BA-OLDCHA	249.30	13.44	11.71	10.72	10.07	10.97	9.87	11.46	11.18

Table 25A.- Percent organic material of the total suspended solids in the >25 um size-fraction in the river and selected backwaters at Island Park, Jensen, and Ouray in 1988.

SAMPLING LOCATION	RIVERMILE INDEX	JULY 12-14	JULY 26-28	AUG 9-11	AUG 23-25	SEPT 6-9	SEPT 20-22	OCT 11-13	ANNUAL AVERAGE
IP-RIVER	333.20	2.42	7.67	12.50	11.99	11.10	9.79	6.87	8.91
IP-BA-BIGISL	333.20	6.80	10.76	13.39	21.32	19.31	17.81	24.46	16.26
IP-BA-RAINBO	327.00	5.30	9.20	3.17	21.24	5.44	27.95	6.02	11.19
JENSEN-RIVER	300.60	5.49	5.18	9.15	6.87	4.33	4.92	6.31	6.04
JN-BA-EPHEM	300.60	3.82	20.49	6.16	7.18	8.92	8.43	6.90	8.84
JN-BA-PUMPS	300.50	7.40	5.72	13.83	5.91	5.10	5.21	8.60	7.40
JN-BA-ABVSQU	298.60	9.81	6.41	17.58	25.09	8.89	29.55	11.16	15.50
JN-BA-BLWSQU	298.40	7.18	4.74	7.34	6.09	10.36	6.12	10.01	7.40
OURAY-RIVER	251.01	3.50	2.81	4.70	2.91	3.37	3.49	1.83	3.23
OU-BA-NEARRE	251.01	10.41	7.11	9.61	17.46	33.15	12.35	31.30	17.34
OU-BA-MOULT	250.80	8.77	45.71	9.99	6.04	3.29	8.88	9.84	13.22
OU-BA-SANDBE	250.60	9.75	13.43	21.86	10.65	10.75	12.98	17.61	13.86
OU-BA-OLDCHA	249.30	6.33	14.67	19.48	11.85	20.03	12.32	21.94	15.23

Table 26. - Average annual concentrations of major groups of phytoplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.

RMI	SITE	AVERAGE GREENS	AVERAGE DIATOMS	AVERAGE BLUEGREENS	total
IP-RV		88	928	28	1043.8
333.2	IP-BA-BIG ISLAND	1243	1462	878	3583.5
327.6	IP-BA-RAINBOW	460	589	169	1218.3
JN-RV		276	714	49	1039.0
300.6	JN-BA-EPHEM	322	631	341	1293.8
300.5	JN-BA-PUMPS	1129	341	97	1567.8
298.6	BA-JN-ABOVE SQUAW CK	546	507	374	1426.7
298.4	BA-JN-BELOW SQUAW CK	1311	825	797	2932.0
OU-RV		1696	663	111	2469.4
251.0	OU-BA-NEAR REF.	1868	1712	368	3947.5
250.8	OU-BA-MOULT BEND	1499	782	794	3074.3
250.7	OU-BA-SAND BEACH	1362	505	271	2138.0
249.4	BA-OU-OLD CHARLIE	1593	816	167	2576.4

Table 27. - Average annual concentrations of major groups of nannoplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.

DATE	RMI	SITE	TOTAL GREENS	TOTAL DIATOMS	TOTAL BLUEGREEN
7-12	333.2	IP-BA-BIG ISLAND	428000	963000	7597000
7-26	333.2	IP-BA-BIG ISLAND	1412500	207500	10635000
8-09	333.2	IP-BA-BIG ISLAND	315000	45000	10750500
8-23	333.2	IP-BA-BIG ISLAND	610000	160000	13680000
9-06	327.6	IP-BA-BIG ISLAND	1560000	715000	11206000
9-20	333.2	IP-BA-BIG ISLAND	340000	187000	13141000
10-11	333.2	IP-BA-BIG ISLAND	663000	493000	13557500
		AVG	666063	346313	11509571
7-13	299.2	JN-BA-ABOVE SQUAW	112000	56000	40236000
7-27	298.6	JN-BA-ABOVE SQUAW	656000	67200	14800000
8-24	300.5	JN-BA-PUMPS	462000	352000	30536000
9-07	300.5	JN-BA-PUMPS	598000	234000	5811000
9-21	300.5	JN-BA-PUMPS	1092000	504000	26460000
		AVG	417143	151650	16834714
7-14	251.0	OU-BA-NEAR REF.	832000	1248000	68536000
7-28	251.0	OU-BA-NEAR REF.	1831200	28000	13580000
8-11	251.0	OU-BA-NEAR REF.	1008000	240000	35808000
8-25	251.0	OU-BA-NEAR REF.	444000	324000	22992000
9-08	251.0	OU-BA-NEAR REF.	571500	162000	16380000
9-22	251.0	OU-BA-NEAR REF.	629000	255000	57919000
		AVG	759386	282125	30745000

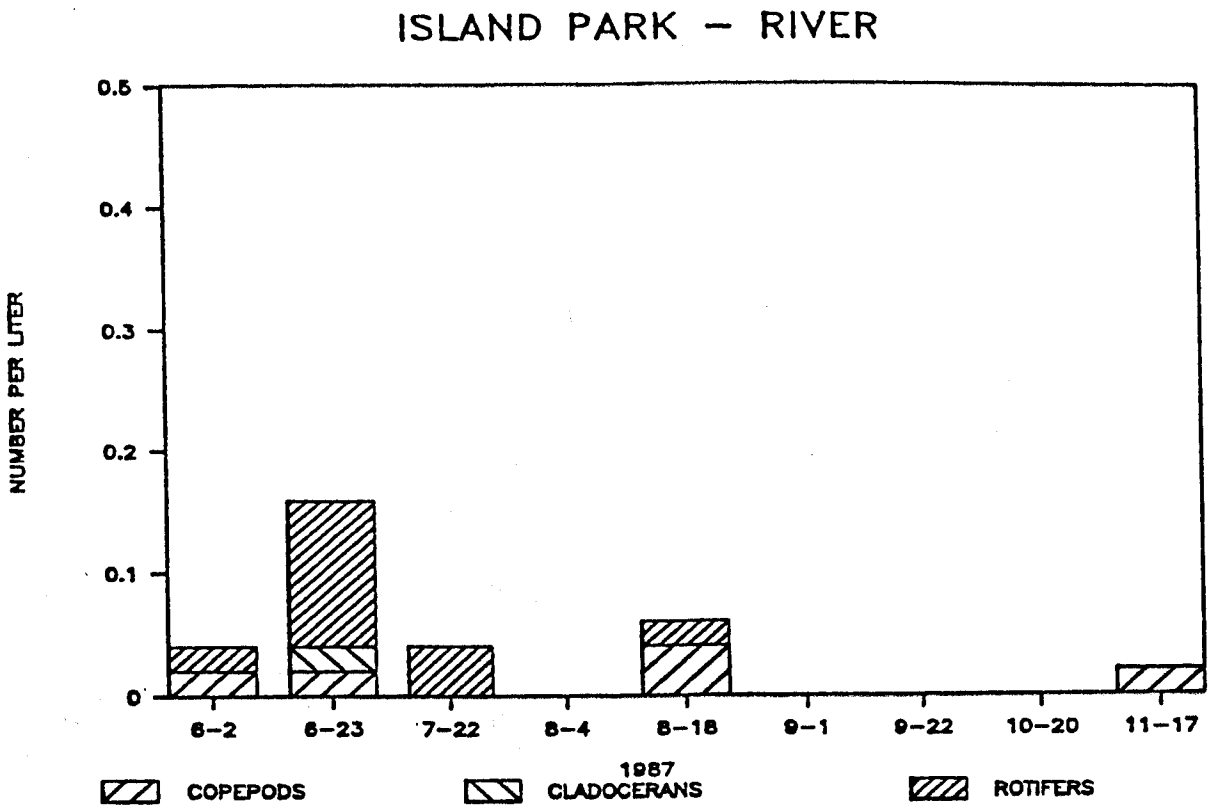

Figure 46. - Number per liter of three major zooplankton groups in the river at Island Park from June to November, 1987.

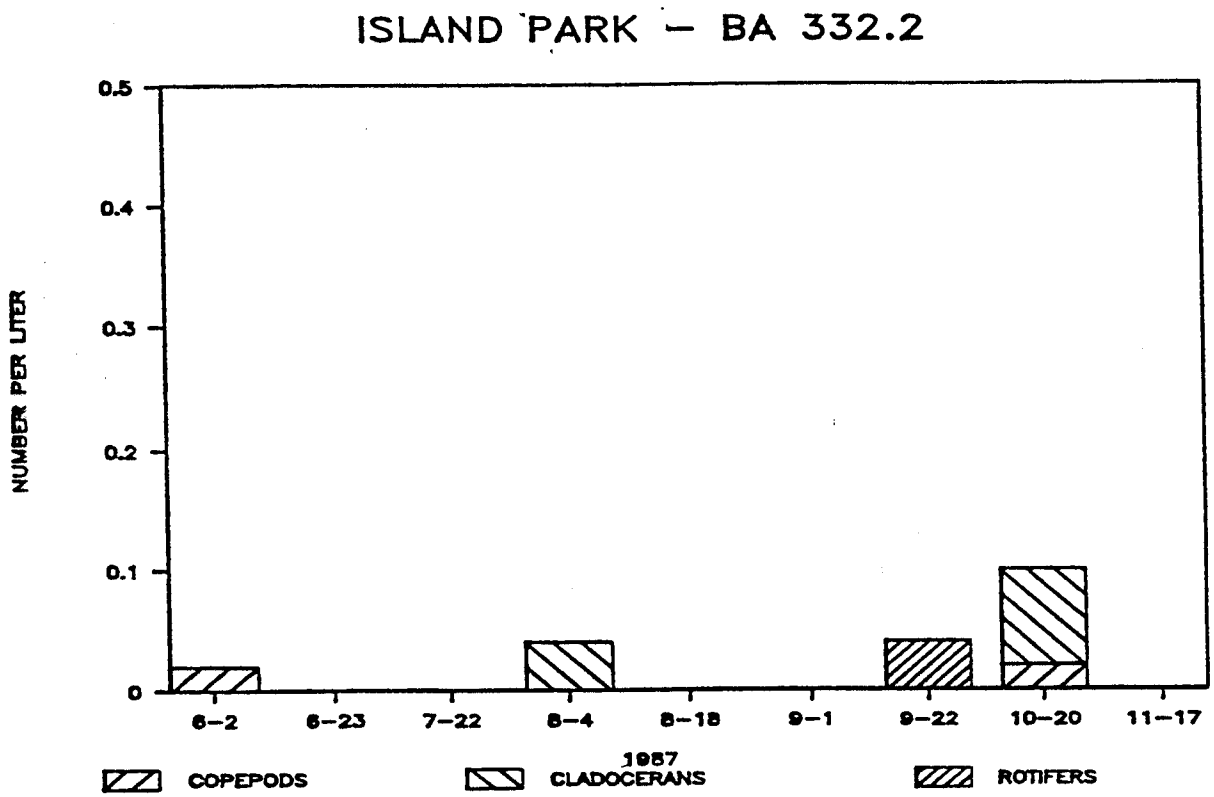

Figure 47. - Number per liter of three major zooplankton groups in BA 332.2 at Island Park from June to November, 1987.

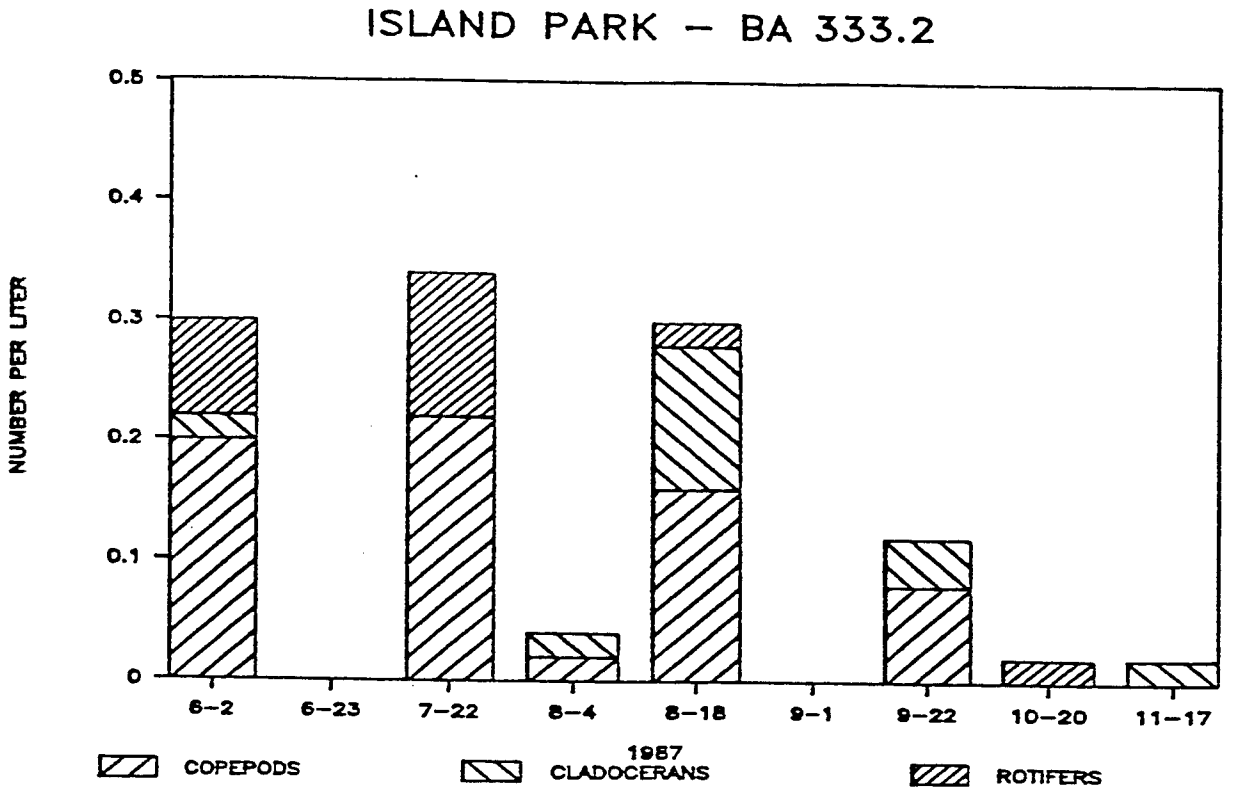

Figure 48. - Number per liter of three major zooplankton groups in BA 333.2 at Island Park from June to November, 1987.

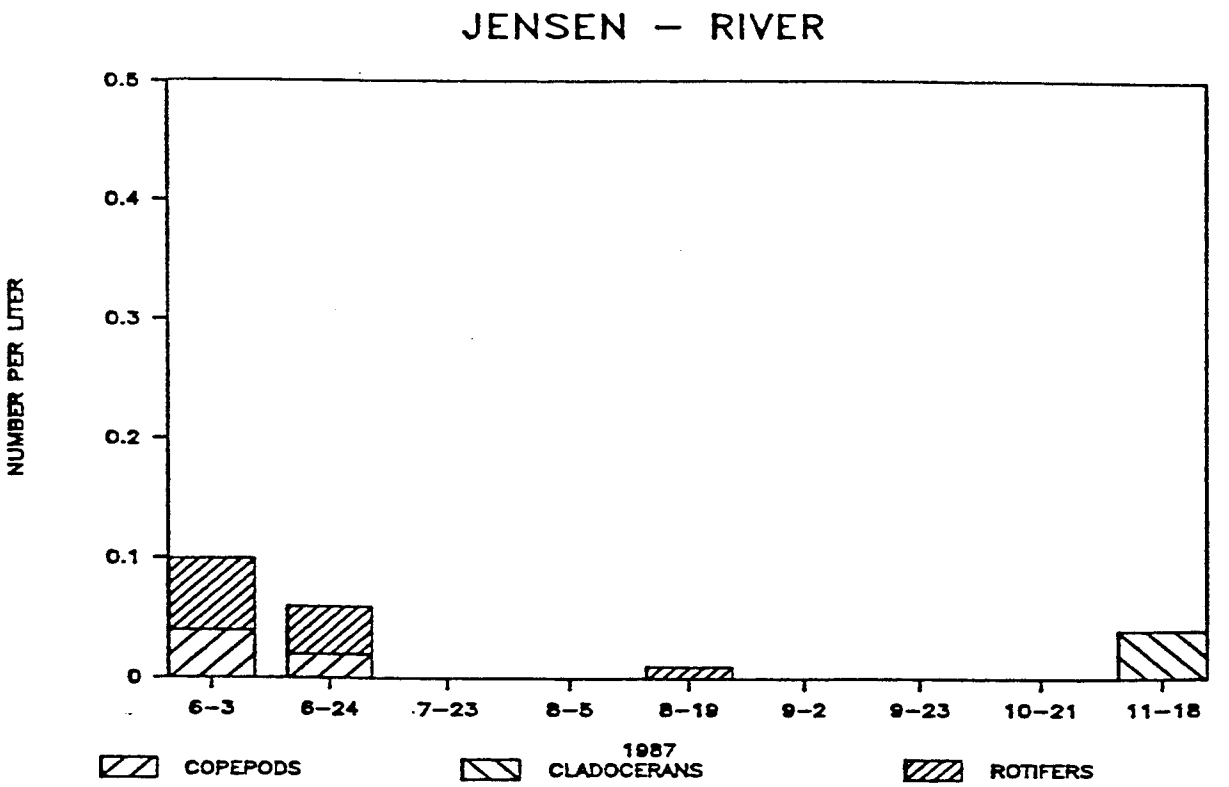

Figure 49. - Number per liter of three major zooplankton groups in the river at Jensen from June to November, 1987.

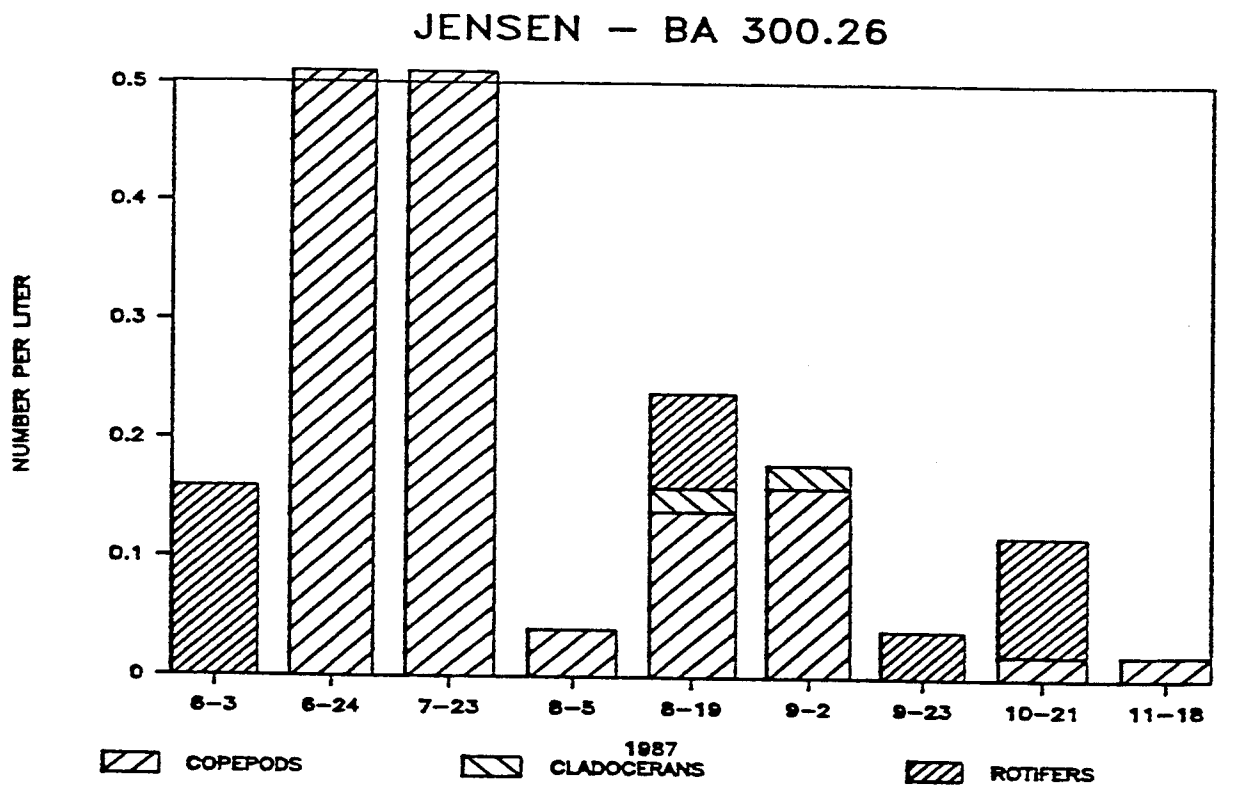

Figure 50. - Number per liter of three major zooplankton groups in BA 300.26 at Jensen from June to November, 1987.

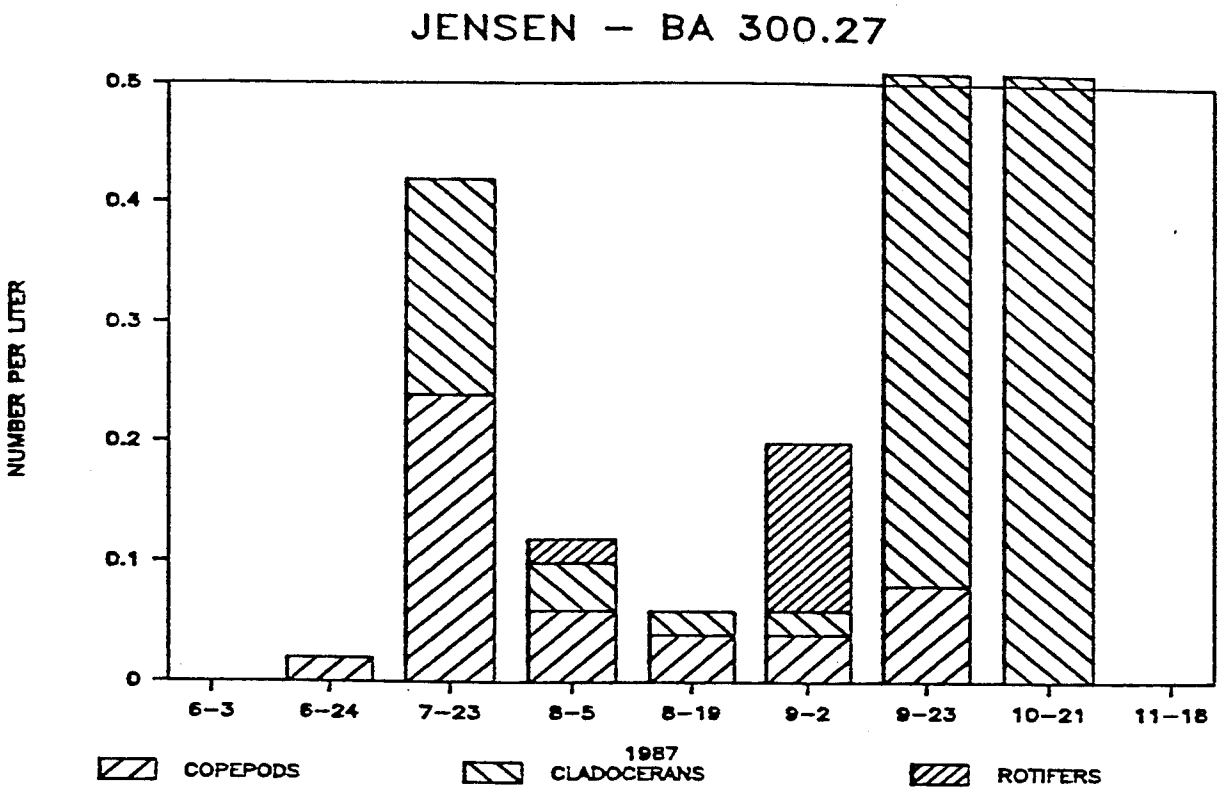

Figure 51. - Number per liter of three major zooplankton groups in BA 300.27 at Jensen from June to November, 1987.

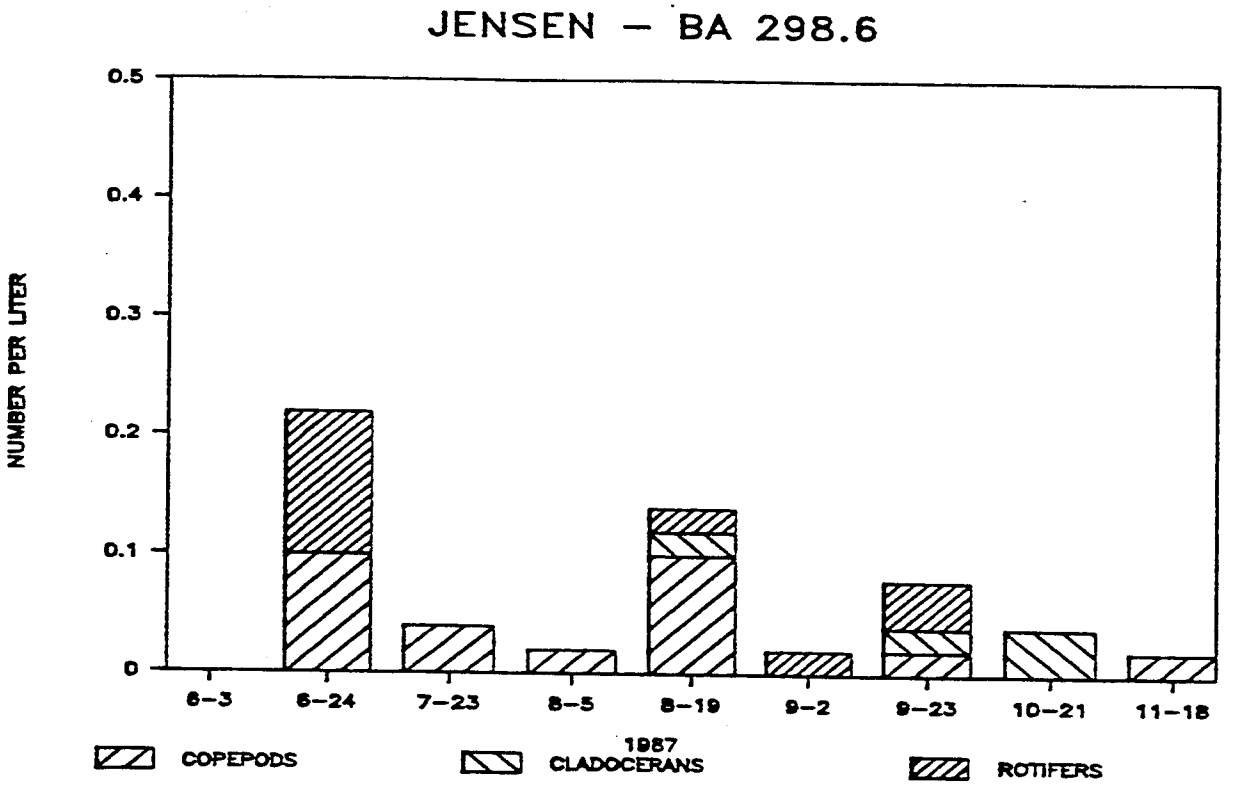

Figure 52. - Number per liter of three major zooplankton groups in BA 298.6 at Jensen from June to November, 1987.

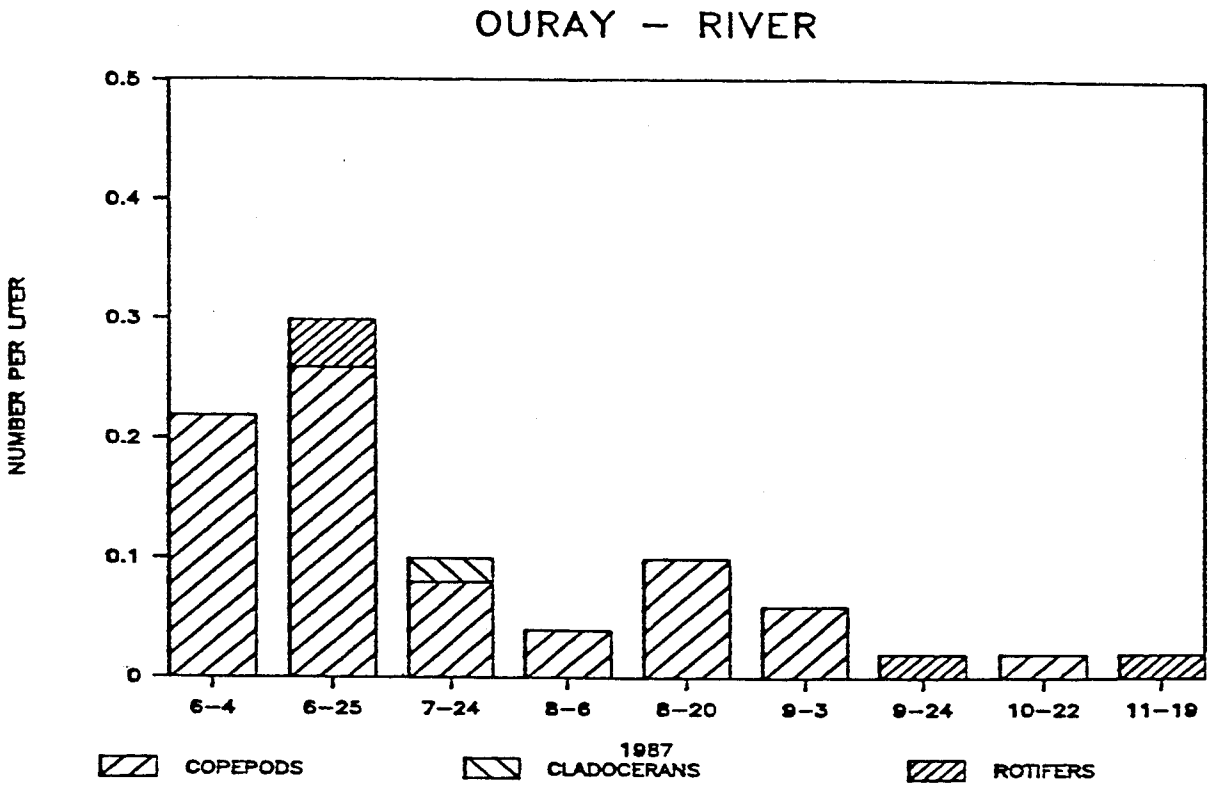

Figure 53. - Number per liter of three major zooplankton groups in the river at Ouray from June to November, 1987.

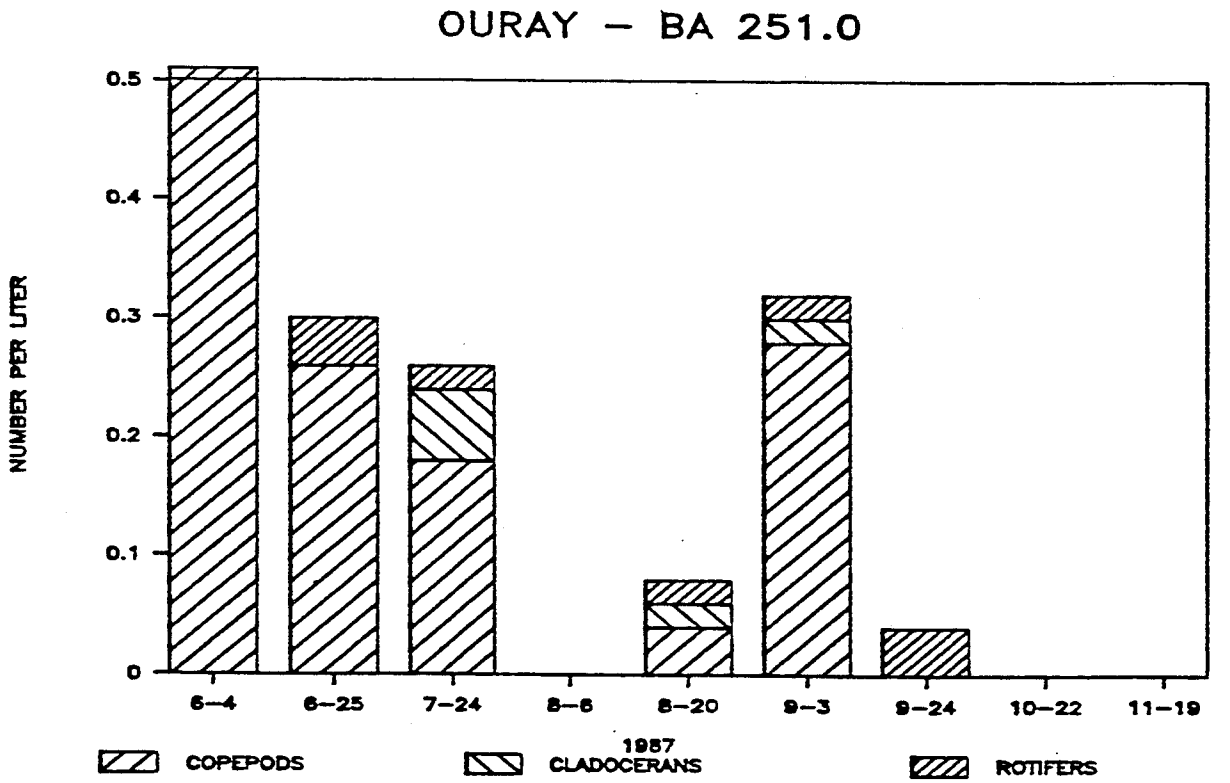

Figure 54. - Number per liter of three major zooplankton groups in BA 251.0 at Ouray from June to November, 1987.

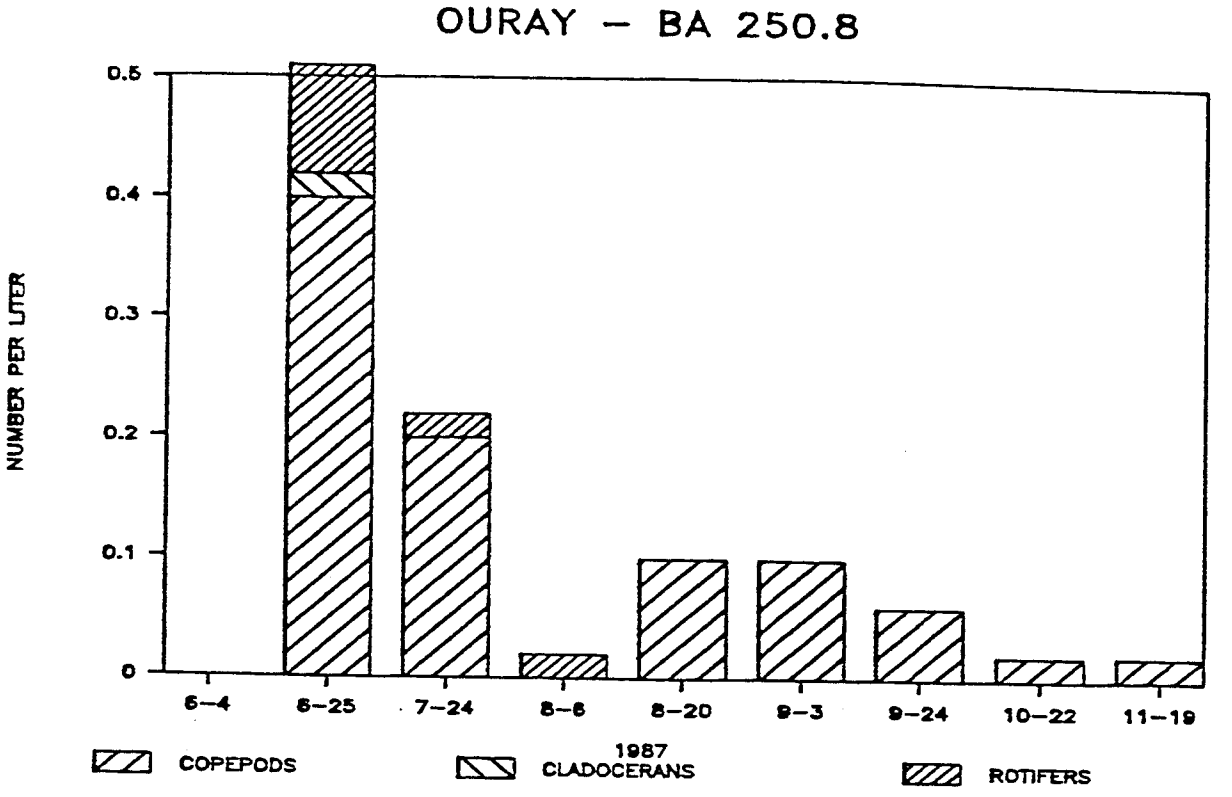

Figure 55. - Number per liter of three major zooplankton groups in BA 250.8 at Ouray from June to November, 1987.

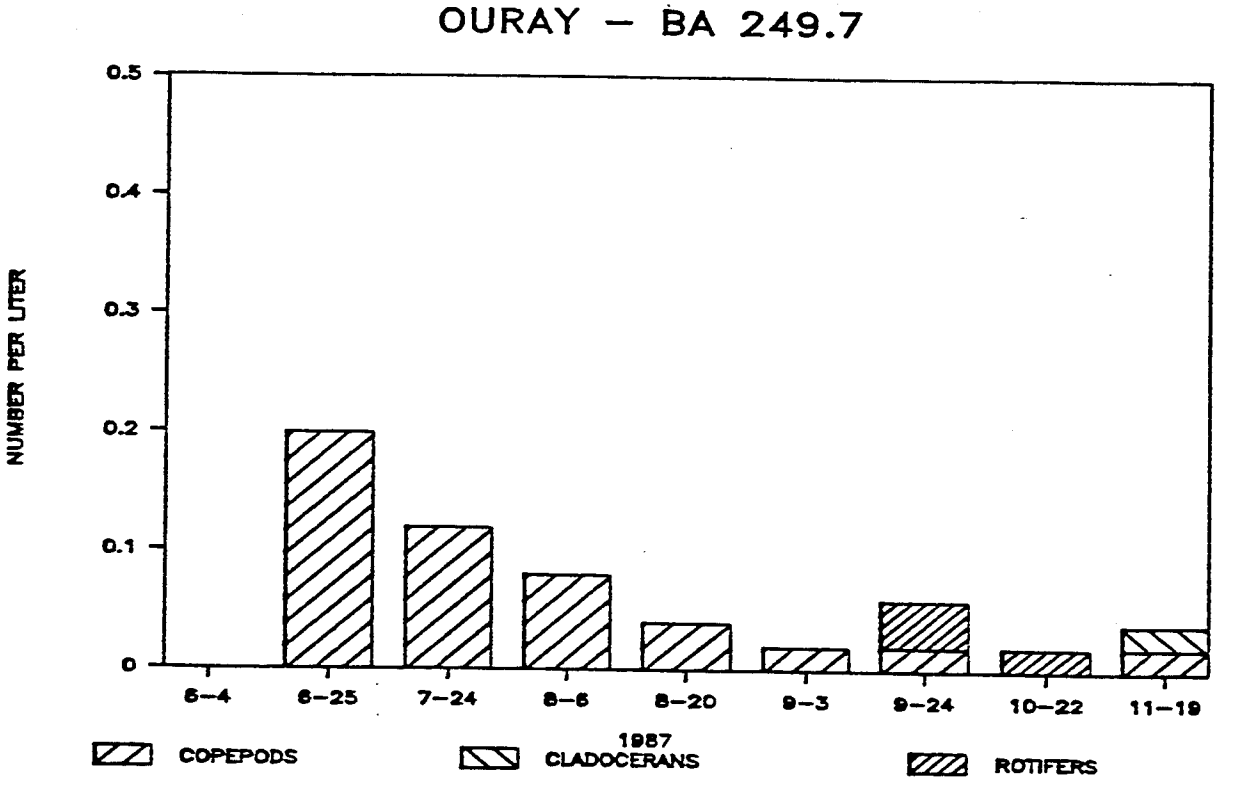

Figure 56. - Number per liter of three major zooplankton groups in BA 249.7 at Ouray from June to November, 1987.

Table 28. - Average annual concentrations of major groups of zooplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988.

ZOOPLANKTON DENSITY IN NUMBERS PER LITER BY GROUPS						SAMPLE
DATE	RMI	SITE	ROTIFERS	COPEPODS	CLADOCERANS	TOTAL
880712	333.0	IP-RIVER	0.02	0.06	0.00	0.08
880726	333.0	IP-RIVER	0.04	0.04	0.04	0.12
880809	333.0	IP-RIVER	0.00	0.00	0.00	0.00
880823	333.0	IP-RIVER	0.02	0.02	0.02	0.06
880906	333.0	IP-RIVER	0.08	0.00	0.00	0.08
880920	333.0	IP-RIVER	0.00	0.00	0.00	0.00
881011	333.0	IP-RIVER	0.02	0.00	0.00	0.02
	SITE AVERAGE OF TOTAL >		0.03	0.02	0.01	0.05
880712	333.2	IP-BA-BIG ISLAND	0.16	0.00	0.00	0.16
880726	333.2	IP-BA-BIG ISLAND	0.14	0.04	0.02	0.20
880809	333.2	IP-BA-BIG ISLAND	0.14	0.00	0.00	0.14
880823	333.2	IP-BA-BIG ISLAND	1.56	0.04	0.00	1.60
880906	333.2	IP-BA-BIG ISLAND	0.88	0.10	0.02	1.00
880920	333.2	IP-BA-BIG ISLAND	1.52	0.00	0.00	1.52
881011	333.2	IP-BA-BIG ISLAND	0.30	0.00	0.00	0.30
	SITE AVERAGE OF TOTAL >		0.67	0.03	0.01	0.70
880712	327.6	IP-BA-RAINBOW	0.00	0.00	0.02	0.02
880726	327.6	IP-BA-RAINBOW	0.24	0.02	0.00	0.26
880809	327.6	IP-BA-RAINBOW	0.20	0.16	0.02	0.38
880823	327.6	IP-BA-RAINBOW	0.12	0.12	0.00	0.24
880906	327.6	IP-BA-RAINBOW	0.16	0.06	0.00	0.22
880920	327.6	IP-BA-RAINBOW	0.00	0.00	0.00	0.00
881011	327.6	IP-BA-RAINBOW	0.04	0.00	0.00	0.04
	SITE AVERAGE OF TOTAL >		0.11	0.05	0.01	0.17
880713	300.6	JN-RIVER	0.00	0.00	0.00	0.00
880727	300.6	JN-RIVER	0.02	0.00	0.00	0.02
880810	300.6	JN-RIVER	0.00	0.10	0.00	0.10
880824	300.6	JN-RIVER	0.04	0.02	0.00	0.06
880907	300.6	JN-RIVER	0.10	0.02	0.00	0.12
880921	300.6	JN-RIVER	0.00	0.00	0.00	0.00
881012	300.6	JN-RIVER	0.00	0.00	0.00	0.00
	SITE AVERAGE OF TOTAL >		0.02	0.02	0.00	0.04

Table 28. - Average annual concentrations of major groups of zooplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988. Continued.

880713	300.6 JN-BA-EPHEM	4.92	0.02	0.12	5.06
880727	300.6 JN-BA-EPHEM	0.02	0.00	0.00	0.02
880810	300.6 JN-BA-EPHEM	0.02	0.06	0.00	0.08
880824	300.6 JN-BA-EPHEM	0.02	0.02	0.00	0.04
880907	300.6 JN-BA-EPHEM	0.00	0.02	0.00	0.02
880921	300.6 JN-BA-EPHEM	0.04	0.00	0.00	0.04
881012	300.6 JN-BA-EPHEM	0.04	0.02	0.00	0.06
	SITE AVERAGE OF TOTAL >	0.72	0.02	0.02	0.76
880713	300.5 JN-BA-PUMPS	10.92	5.70	0.00	16.62
880727	300.5 JN-BA-PUMPS	2.78	0.60	0.00	3.38
880810	300.5 JN-BA-PUMPS	2.66	0.98	0.00	3.64
880824	300.5 JN-BA-PUMPS	0.04	0.30	0.00	0.34
880907	300.5 JN-BA-PUMPS	3.00	0.74	0.00	3.74
880921	300.5 JN-BA-PUMPS	0.02	0.38	0.00	0.40
881012	300.5 JN-BA-PUMPS	0.30	0.00	0.02	0.32
	SITE AVERAGE OF TOTAL >	2.82	1.24	0.00	4.06
880713	298.6 JN-BA-ABOVE SQUAW	0.04	0.00	0.00	0.04
880727	298.6 JN-BA-ABOVE SQUAW	0.20	0.06	0.00	0.26
880810	298.6 JN-BA-ABOVE SQUAW	0.12	0.06	0.04	0.22
880824	298.6 JN-BA-ABOVE SQUAW	0.44	0.06	0.00	0.50
880907	298.6 JN-BA-DEER TRACK	0.00	0.74	0.00	0.74
880921	298.6 JN-BA-DEER TRACK	0.02	0.02	0.00	0.04
881012	298.6 JN-BA-DEER TRACK	0.16	0.00	0.02	0.18
	SITE AVERAGE OF TOTAL >	0.14	0.13	0.01	0.28
880713	298.4 JN-BA-SQUAW	0.16	0.00	0.00	0.16
880727	298.4 JN-BA-SQUAW	0.16	0.06	0.00	0.22
880810	298.4 JN-BA-SQUAW	0.04	0.06	0.04	0.14
880824	298.4 JN-BA-SQUAW	0.14	0.04	0.00	0.18
880907	298.4 JN-BA-SQUAW	0.06	0.26	0.02	0.34
880921	298.4 JN-BA-SQUAW	0.02	0.00	0.00	0.02
881012	298.4 JN-BA-SQUAW	0.02	0.00	0.00	0.02
	SITE AVERAGE OF TOTAL >	0.09	0.06	0.01	0.15
880714	251.1 OU-RIVER	0.02	0.38	0.00	0.40
880728	251.1 OU-RIVER	0.00	0.00	0.00	0.00
880811	251.1 OU-RIVER	0.02	0.68	0.00	0.70
880825	251.1 OU-RIVER	0.08	0.26	0.00	0.34
880908	251.1 OU-RIVER	0.02	2.34	0.02	2.38
880922	251.1 OU-RIVER	0.00	0.02	0.00	0.02
881013	251.1 OU-RIVER	0.02	0.06	0.00	0.08
	SITE AVERAGE OF TOTAL >	0.02	0.53	0.00	0.56

Table 28. - Average annual concentrations of major groups of zooplankton for the main river and selected backwaters at Island Park, Jensen, and Ouray during 1988. Continued.

880714	251.0	OU-BA-NEAR REF	0.12	0.40	0.02	0.54
880728	251.0	OU-BA-NEAR REF	4.86	0.10	0.00	4.96
880811	251.0	OU-BA-NEAR REF	14.92	0.22	0.00	15.14
880825	251.0	OU-BA-NEAR REF	8.36	0.18	0.00	8.54
880908	251.0	OU-BA-NEAR REF	4.14	0.24	0.00	4.38
880922	251.0	OU-BA-NEAR REF	0.02	0.34	0.00	0.36
881013	251.0	OU-BA-NEAR REF	1.98	0.24	0.00	2.22
		SITE AVERAGE OF TOTAL >	4.91	0.25	0.00	5.16
880714	250.8	OU-BA-MOULT BEND	0.10	0.22	0.02	0.34
880728	250.8	OU-BA-MOULT BEND	0.08	0.00	0.00	0.08
880811	250.8	OU-BA-MOULT BEND	0.02	0.08	0.00	0.10
880825	250.8	OU-BA-MOULT BEND	0.04	0.08	0.00	0.12
880908	250.8	OU-BA-MOULT BEND	0.14	0.08	0.00	0.22
880922	250.8	OU-BA-MOULT BEND	0.06	0.02	0.00	0.08
881013	250.8	OU-BA-MOULT BEND	0.06	0.00	0.00	0.06
		SITE AVERAGE OF TOTAL >	0.07	0.07	0.00	0.14
880714	250.7	OU-BA-SAND BEACH	0.04	0.20	0.00	0.24
880728	250.7	OU-BA-SAND BEACH	0.02	0.02	0.06	0.10
880811	250.7	OU-BA-SAND BEACH	0.14	0.78	0.00	0.92
880825	250.7	OU-BA-SAND BEACH	0.14	0.04	0.00	0.18
880908	250.7	OU-BA-SAND BEACH	0.14	0.10	0.02	0.26
880922	250.7	OU-BA-SAND BEACH	0.06	0.04	0.00	0.10
881013	250.7	OU-BA-SAND BEACH	0.12	0.06	0.00	0.18
		SITE AVERAGE OF TOTAL >	0.09	0.18	0.01	0.28
880714	249.4	OU-BA-OLD CHARLIE	0.38	0.44	0.00	0.82
880728	249.4	OU-BA-OLD CHARLIE	0.54	0.08	0.00	0.62
880811	249.4	OU-BA-OLD CHARLIE	0.08	0.18	0.00	0.26
880825	249.4	OU-BA-OLD CHARLIE	0.08	0.08	0.00	0.16
880908	249.4	OU-BA-OLD CHARLIE	0.22	0.58	0.00	0.80
880922	249.4	OU-BA-OLD CHARLIE	0.00	0.20	0.00	0.20
881013	249.4	OU-BA-OLD CHARLIE	0.10	0.06	0.00	0.16
		SITE AVERAGE OF TOTAL >	0.20	0.23	0.00	0.43

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987.

IP-RIVER 332.2 TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda											
Oligochaeta		21.50					387.00	107.50	86.00	150.50	140.16
Insecta											
Ephemeroptera											
Paraclonodes						21.50					
Odonata											
Anisoptera											
Hemiptera											
Corixidae											
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified							21.50				
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	0.00	43.00	107.50	43.00	21.50	43.00	129.00	21.50	21.50	47.78	40.26
Chironomid pupae											
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Adult dipteran				21.50							
Ceratopogonidae					21.50				21.50		
TOTAL BENTHOS	0.00	64.50	107.50	64.50	43.00	64.50	537.50	129.00	129.00	126.61	150.48

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

IP-BA-GRDN CK 332.2

TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda				21.50				21.50			
Oligochaeta	301.00	107.50	86.00	344.00		430.00	344.00	1419.00	4149.50	897.63	1290.21
Insecta											
Ephemeroptera											
Paracloeodes											
Unidentified								21.50			
Odonata											
Anisoptera											
Hemiptera											
Corixidae			86.00		21.50	150.50	172.00	1225.50	1032.00		
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified			21.50								
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	2021.00	516.00	2623.00	408.50	43.00	2687.50	989.00	2558.50	946.00	1421.39	992.08
Chironomid pupae				43.00							
Uniden Dipteran Larvae											
Dipteran pupae						43.00	43.00				
TOTAL PUPAE											
Ceratopogonidae				43.00					64.50		
TOTAL BENTHOS	2322.00	623.50	2816.50	860.00	64.50	3311.00	1548.00	5246.00	6192.00	2553.72	1971.57

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

IP-BA-BIG ISLAND 333.2 TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda							43.00	107.50	21.50		
Oligochaeta	989.00		537.50	129.00	451.50	473.00	774.00	1247.00	1268.50	733.69	382.11
Arthropoda											
Insecta											
Ephemeroptera											
Paraclocodes									21.50		
Odonata											
Anisoptera											
Hemiptera											
Corixidae					43.00			107.50			
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified					21.50						
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae			21.50								
TOTAL CHIRONOMID L	1935.00	0.0	3440.00	2343.50	3934.5	3655.0	2816.5	2236.0	1397.5	2417.56	1163.97
Chironomid pupae	215.00		43.00		43.00		21.50				
Uniden Dipteran La	64.50	21.50									
Dipteran pupae						21.50					
TOTAL PUPAE											
Ceratopogonidae			21.50	21.50	21.50				86.00		
TOTAL BENTHOS	3203.50	21.50	4063.50	2494.00	4515.00	4149.50	3655.00	3698.00	2795.00	3177.22	1273.32

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-RIVER 300.26 TAXA	5 JUN	24 JUN	22 JUL	5 AUG	19 AUG	2 SEP	23 SEP	21 OCT	18 NOV	AVG	STD
Nematoda							21.50				
Oligochaeta	21.50		21.50						365.50		
Insecta											
Ephemeroptera											
Paracloeodes											
Ephemerella	86.00										
Odonata											
Anisoptera											
Hemiptera											
Corixidae											
Trichoptera											
Hydropsychidae											
Hydropsyche	64.50										
Unidentifie	43.00										
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae									107.50		
Simuliidae											
TOTAL CHIRONOMID L	1569.50	107.50	43.00	0.0	0.0	279.5	43.0	43.0	2257.5	482.56	785.93
Chironomid pupae	172.00										
Uniden Dipteran Larvae											
Dipteran pupae						21.50					
TOTAL PUPAE											
Ceratopogonida	21.50	21.50	43.00	43.00	322.50	107.50	473.00	537.50	21.50	176.78	197.77
TOTAL BENTHOS	1978.00	129.00	107.50	43.00	322.50	408.50	537.50	580.50	2752.00	762.06	893.57

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-BA-REF 300.26

TAXA	5 JUN	24 JUN	22 JUL	5 AUG	19 AUG	2 SEP	23 SEP	21 OCT	18 NOV	AVG	STD
Nematoda				86.00							
Oligochaeta			344.00	451.50	21.50	21.50	1376.00	924.50	2902.50	863.07	947.29
Insecta											
Ephemeroptera											
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae								236.50			
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified			21.50	21.50		43.00	43.00				
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	1999.50	2386.50	3031.50	3762.5	3848.5	1311.5	967.5	1010.5	1870.5	2243.17	1040.33
Chironomid pupae	215.00			129.00							
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Dipteran adult	21.50										
Ceratopogonida	21.50		21.50	43.00			43.00	21.50	21.50		
TOTAL BENTHOS	2257.50	2386.50	3418.50	4493.50	3870.00	1376.00	2429.50	2193.00	4794.50	3024.33	1101.48

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-EM-SMALL 300.27											
TAXA	5 JUN	24 JUN	22 JUL	5 AUG	19 AUG	2 SEP	23 SEP	21 OCT	18 NOV	AVG	STD
Nematoda							129.00				
Oligochaeta	21.50			21.50				1204.00	2515.50	940.63	1029.46
Insecta											
Ephemeroptera											
Paraleptophlebia											
Unidentified				21.50							
Odonata											
Anisoptera				21.50							
Hemiptera											
Corixidae				64.50					21.50		
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	1397.50	1698.50	11997.00	3762.5	107.5	86.0	1612.5	494.5	817.0	2441.44	3540.36
Chironomid pupae	64.50		107.50	43.00							
Uniden Dipteran Larvae						21.50			43.00		
Dipteran pupae							64.50				
TOTAL PUPAE											
Ceratopogonidae					86.00	21.50	43.00	172.00	64.50	77.40	51.96
TOTAL BENTHOS	1483.50	1698.50	12104.50	3934.50	193.50	129.00	1849.00	1870.50	3461.50	2969.39	3442.92

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-BA-SQUAW CK 298.6 TAXA	5 JUN	24 JUN	22 JUL	5 AUG	19 AUG	2 SEP	23 SEP	21 OCT	18 NOV	AVG	STD
Nematoda					21.50		21.50				
Oligochaeta		21.50			215.00		666.50	129.00	2300.50	666.50	846.02
Insecta											
Ephemeroptera		21.50									
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae							64.50				
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	0.0	1247.00	2730.50	2945.5	4407.5	752.5	645.0	322.5	1376.0	1803.31	1326.50
Chironomid pupae		64.50									
Uniden Dipteran Larvae											
Dipteran pupae					21.50	21.50	21.50				
TOTAL PUPAE											
Ceratopogonidae							21.50		86.00		
TOTAL BENTHOS	0.00	1354.50	2730.50	2945.50	4665.50	774.00	1440.50	451.50	3762.50	2265.56	1401.13

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-RIVER 251.0

TAXA	6 JUN	25 JUN	23 JUL	6 AUG	20 AUG	3 SEP	24 SEP	22 OCT	19 NOV	AVG	STD
Nematoda											
Oligochaeta											
Insecta											
Ephemeroptera			43.00								
Paraclonodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae											
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilida	21.50										
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	150.50	0.0	0.0	0.0	0.0	0.0	0.0	43.0	86.0	31.06	50.79
Chironomid pupae											
Unidn Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Ceratopogonidae				21.50			64.50	193.50			
TOTAL BENTHOS	172.00	0.00	43.00	21.50	0.00	0.00	64.50	236.50	86.00	69.28	79.01

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-BA-NEAR REF	251.0										
TAXA	6 JUN	25 JUN	23 JUL	6 AUG	20 AUG	3 SEP	24 SEP	22 OCT	19 NOV	AVG	STD
Nematoda											
Oligochaeta				43.00		107.50	64.50	64.50			
Insecta											
Ephemeroptera											
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae									21.50		
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	1075.00	580.50	2558.50	2537.0	2193.0	2300.5	322.5	666.5	451.5	1409.44	909.81
Chironomid pupae	64.50				43.00	21.50					
Uniden Dipteran Larvae											
Dipteran pupae						21.50					
TOTAL PUPAE											
Ceratopogonidae								21.50			
TOTAL BENTHOS	1139.50	580.50	2558.50	2580.00	2236.00	2451.00	387.00	752.50	473.00	1462.00	915.76

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-BA-MOULT BEND 250.8 TAXA	6 JUN	25 JUN	23 JUL	6 AUG	20 AUG	3 SEP	24 SEP	22 OCT	19 NOV	AVG	STD
Nematoda											
Oligochaeta							64.50	387.00	408.50	286.67	157.34
Insecta											
Ephemeroptera											
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae					21.50						
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID LARVAE		1397.50	1849.00	4386.0	580.5	2687.5	2429.5	5009.5	3741.0	2760.06	1423.79
Chironomid pupae				21.50							
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Ceratopogonidae											
TOTAL BENTHOS	0.00	1397.50	1849.00	4407.50	602.00	2687.50	2494.00	5396.50	4149.50	2872.94	1537.59

Table 29. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-BA-OLD CHARLEY	249.7										
TAXA	6 JUN	25 JUN	23 JUL	6 AUG	20 AUG	3 SEP	24 SEP	22 OCT	19 NOV	AVG	STD
Nematoda											
Oligochaeta				86.00		64.50	150.50	1204.00	21.50	305.30	451.27
Insecta											
Ephemeroptera			21.50								
Paraclorocides											
Odonata											
Anisoptera											
Hemiptera											
Corixidae									43.00		
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
TOTAL CHIRONOMID L	0.0	3375.50	236.50	1784.5	1053.5	1311.5	1010.5	2515.5	1032.0	1539.94	929.17
Chironomid pupae								21.50			
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Ceratopogonidae									21.50		
TOTAL BENTHOS	0.00	3375.50	258.00	1870.50	1053.50	1376.00	1161.00	3741.00	1118.00	1744.19	1130.15

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987.

IP-RIVER 332.2 TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda											
Annelida											
Oligochaeta	0.00000	0.00215	0.00000	0.00000	0.00000	0.00000	0.03010	0.01505	0.00645	0.005972	0.009762
Arthropoda											
Insecta											
Ephemeroptera											
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae											
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified							0.00430				
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.00000	0.02795	0.00430	0.01290	0.00430	0.02150	0.01290	0.00215	0.00215	0.009794	0.009184
Chironomid pupae											
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Adult dipteran				0.00215							
Ceratopogonidae	0.00000	0.00000	0.00000	0.00000	0.00430	0.00000	0.00000	0.00000	0.00215	0.000716	0.001433
TOTAL BENTHIC WEIGHT	0.00000	0.03010	0.00430	0.01505	0.00860	0.02150	0.04730	0.01720	0.01075	0.0172	0.013635

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

IP-BA-GRDN CK 332.2	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
TAXA											
Nematoda				0.00215				0.00215			
Annelida											
Oligochaeta	0.13330	0.11180	0.02580	0.05160	0.00000	0.03440	0.03440	0.13760	0.61920	0.127566	0.180075
Arthropoda											
Insecta											
Ephemeroptera											
Paracloeodes											
Unidentified											
Odonata											
Anisoptera											
Hemiptera											
Corixidae			0.03870		0.00430	0.06450	0.06450	0.45150	0.76540		
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified			0.00860								
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.26230	0.03440	0.50310	0.17630	0.00430	0.87290	0.22575	0.86645	0.54395	0.387716	0.309266
Chironomid pupae				0.01935							
Uniden Dipteran Larvae											
Dipteran pupae						0.01720	0.00860				
TOTAL PUPAE											
Ceratopogonidae	0.00000	0.00000	0.00000	0.00215	0.00000	0.00000	0.00000	0.00000	0.01290	0.001672	0.004025
TOTAL BENTHIC WEIGHT	0.39560	0.14620	0.57620	0.25155	0.00860	0.98900	0.33325	1.45770	1.94145	0.677727	0.616683

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

IP-BA-BIG ISLAND 333.2	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
TAXA											
Nematoda							0.00860	0.00215	0.00215		
Annelida											
Oligochaeta	0.14620	0.00000	0.07310	0.00860	0.06450	0.05160	0.13330	0.21500	0.24080	0.103677	0.080364
Arthropoda											
Insecta											
Ephemeroptera											
Paraclorodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae					0.02580			0.09460			
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified					0.00430						
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae			0.00215								
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.21930	0.00000	0.16770	0.23650	0.28380	0.38915	0.39345	0.65575	0.72025	0.340655	0.216867
Chironomid pupae	0.00860		0.00430		0.00430		0.01290				
Uniden Dipteran Larvae	0.00430	0.00215									
Dipteran pupae						0.00430					
TOTAL PUPAE											
Ceratopogonidae	0.00000	0.00000	0.00430	0.00215	0.00215	0.00000	0.00000	0.00000	0.01290	0.002388	0.003983
TOTAL BENTHIC WEIGHT	0.37840	0.00215	0.25155	0.24725	0.38485	0.44505	0.54825	0.96750	0.97610	0.466788	0.305897

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-RIVER 300.26 TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda							0.00215				
Annelida											
Oligochaeta	0.00215	0.00000	0.00215	0.00000	0.00000	0.00000	0.00000	0.00000	0.03440	0.0043	0.010678
Arthropoda											
Insecta											
Ephemeroptera											
Paracloeodes											
Ephemerella ?	0.04730										
Odonata											
Anisoptera											
Hemiptera											
Corixidae											
Trichoptera											
Hydropsychidae											
Hydropsyche	0.08170										
Unidentified	0.00430										
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae									0.02150		
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.16060	0.00215	0.00430	0.00000	0.00000	0.02795	0.00645	0.00215	1.04490	0.140944	0.324293
Chironomid pupae	0.07740										
Uniden Dipteran Larvae											
Dipteran pupae						0.00430					
TOTAL PUPAE											
Ceratopogonidae	0.00645	0.00430	0.00215	0.00430	0.03010	0.01720	0.01935	0.02365	0.00430	0.012422	0.009709
TOTAL BENTHIC WEIGHT	0.39990	0.00645	0.00860	0.00430	0.03010	0.04945	0.02795	0.02580	1.10510	0.184183	0.346536

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-BA-REF 300.26 TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda				0.01290							
Annelida											
Oligochaeta	0.00000	0.00000	0.11610	0.03010	0.01075	0.00215	0.21500	0.49450	0.30960	0.130911	0.165621
Arthropoda											
Insecta											
Ephemeroptera											
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae								0.27950			
Trichoptera											
Hydropsychidae											
Hydropsyche											
Unidentified			0.00430	0.00430		0.01075	0.01075				
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.15050	0.86860	0.77830	2.16290	0.83850	0.14190	0.16340	0.19350	0.42785	0.636161	0.613651
Chironomid pupae	0.00860			0.03010							
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Dipteran adult	0.00430										
Ceratopogonidae	0.00215	0.00000	0.00430	0.02150	0.00000	0.00000	0.01290	0.00215	0.00430	0.005255	0.006862
TOTAL BENTHIC WEIGHT	0.16555	0.86860	0.90300	2.26180	0.84925	0.15480	0.40205	0.96965	0.74175	0.812938	0.592775

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-BA-SMALL TAXA	300.27	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda								0.01720				
Annelida												
Oligochaeta		0.00215	0.00000	0.00000	0.00215	0.00000	0.00000	0.00000	0.04730	0.04300	0.010511	0.018562
Arthropoda												
Insecta												
Ephemeroptera												
Paracloeodes												
Unidentified					0.00645							
Odonata												
Anisoptera					0.01505							
Hemiptera												
Corixidae					0.03870					0.00645		
Trichoptera												
Hydropsychidae												
Hydropsyche												
Unidentified												
Coleoptera												
Hydrophilidae												
Diptera (larvae)												
Tipulidae												
Simuliidae												
Chironomidae												
TOTAL CHIRONOMID LARVAE		0.08170	0.59340	3.53460	1.07500	0.04730	0.00645	0.52460	0.28595	0.72240	0.763488	1.035089
Chironomid pupae		0.01720		0.03440	0.00860							
Uniden Dipteran Larvae							0.03870			0.00430		
Dipteran pupae								0.02365				
TOTAL PUPAE												
Ceratopogonidae		0.00000	0.00000	0.00000	0.00000	0.02580	0.00645	0.01290	0.04300	0.00430	0.010272	0.014108
TOTAL BENTHIC WEIGHT		0.10105	0.59340	3.56900	1.14595	0.07310	0.05160	0.57835	0.37625	0.78045	0.807683	1.034691

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

JN-BA-SQUAW CK 298.6 TAXA	4 JUN	23 JUN	21 JUL.	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda					0.00215		0.00215				
Annelida											
Oligochaeta		0.00860	0.00000	0.00000	0.00860	0.00000	0.00430	0.03440	0.20210	0.03225	0.065070
Arthropoda											
Insecta											
Ephemeroptera		0.01290									
Paraclonodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae							0.00860				
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.00000	0.17630	0.34830	0.86000	0.39775	0.09675	0.07095	0.04515	0.16770	0.270362	0.252484
Chironomid pupae		0.00860									
Uniden Dipteran Larvae											
Dipteran pupae					0.01075	0.00860	0.00430				
TOTAL PUPAE											
Ceratopogonidae		0.00000	0.00000	0.00000	0.00000	0.00000	0.00430	0.00000	0.00860	0.001612	0.002992
TOTAL BENTHIC WEIGHT	0.00000	0.20640	0.34830	0.86000	0.41925	0.10535	0.09460	0.07955	0.37840	0.311481	0.243074

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-RIVER 251.0 TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda											
Annelida											
Oligochaeta	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
Arthropoda											
Insecta											
Ephemeroptera			0.01290								
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae											
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae	0.02580										
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.00430	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00645	0.00860	0.00215	0.003205
Chironomid pupae											
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Ceratopogonidae	0.00000	0.00000	0.00000	0.00215	0.00000	0.00000	0.00645	0.01290	0.00000	0.002388	0.004233
TOTAL BENTHIC WEIGHT	0.03010	0.00000	0.01290	0.00215	0.00000	0.00000	0.00645	0.01935	0.00860	0.008838	0.009797

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-BA-NEAR REF 251.0 TAXA	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda											
Annelida											
Oligochaeta	0.00000	0.00000	0.00000	0.01505	0.00000	0.01290	0.00860	0.00215	0.00000	0.0043	0.005822
Arthropoda											
Insecta											
Ephemeroptera											
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae									0.01720		
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.20640	0.18920	0.81700	0.77615	0.77185	0.90515	0.07955	0.24725	0.30960	0.478016	0.310940
Chironomid pupae	0.00430				0.02580	0.01720					
Uniden Dipteran Larvae											
Dipteran pupae						0.00860					
TOTAL PUPAE											
Ceratopogonidae	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.00000	0.000238	0.000675
TOTAL BENTHIC WEIGHT	0.21070	0.18920	0.81700	0.79120	0.79765	0.94385	0.08815	0.25155	0.32680	0.490677	0.318283

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-EA-MOULT BEND 250.8 TAXA	4 JUN	23 JUN	21 JUL.	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
Nematoda											
Annelida											
Oligochaeta	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00430	0.01075	0.05590	0.007883	0.017319
Arthropoda											
Insecta											
Ephemeroptera											
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae					0.01505						
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.00000	0.26230	0.51170	1.35450	0.13545	0.75250	0.44720	1.95435	2.79930	0.913033	0.888368
Chironomid pupae				0.00430							
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Ceratopogonidae	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000		
TOTAL BENTHIC WEIGHT	0.00000	0.26230	0.51170	1.35880	0.15050	0.75250	0.45150	1.96510	2.85520	0.923066	0.901545

Table 30. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to November, 1987. Continued.

OU-BA-OLD CHARLEY 249.7	4 JUN	23 JUN	21 JUL	4 AUG	18 AUG	1 SEP	22 SEP	20 OCT	17 NOV	AVG	STD
TAXA											
Nematoda											
Annelida											
Oligochaeta		0.00000	0.00000	0.01720	0.00000	0.00645	0.01720	0.49880	0.00215	0.067725	0.163074
Arthropoda											
Insecta											
Ephemeroptera			0.00215								
Paracloeodes											
Odonata											
Anisoptera											
Hemiptera											
Corixidae									0.03010		
Trichoptera											
Hydropsychidae											
Hydropsyche											
Coleoptera											
Hydrophilidae											
Diptera (larvae)											
Tipulidae											
Simuliidae											
Chironomidae											
TOTAL CHIRONOMID LARVAE	0.00000	0.42140	0.05160	0.61060	0.07740	0.13330	0.16985	1.98445	0.79335	0.530243	0.604551
Chironomid pupae								0.03440			
Uniden Dipteran Larvae											
Dipteran pupae											
TOTAL PUPAE											
Ceratopogonidae		0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00215	0.000268	0.000711
TOTAL BENTHIC WEIGHT	0.00000	0.42140	0.05375	0.62780	0.07740	0.13975	0.18705	2.51765	0.82775	0.606568	0.767743

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1980.

ISLAND PARK IP-RIVER 333.0 TAXA	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	PERCENT
Nematoda				21.5	236.5	43	21.5		
Annelida									
Oligochaeta		21.5	64.5				64.5	21.5	3.59
Arthropoda									
Insecta									
Ephemeroptera	21.5								
Paracloeodes									
Hexagenia									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae		21.5							
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	193.5	3031.5	21.5	86	107.5	43	43	503.71	84.10
Chironomid pupae									
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae			43			86	21.5	21.50	3.59
TOTAL BENTHOS	215	3074.5	129	107.5	344	172	150.5	598.93	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

ISLAND PARK IP-BA 333.2 BIG ISLAND TAXA	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	PERCENT
Nematoda		43	193.5	172	21.5				
Annelida									
Oligochaeta	86	129	215	537.5	795.5	387	1096.5	463.79	18.02
Arthropoda									
Insecta									
Ephemeroptera	86	129	21.5					33.79	
Paracloeodes									
Hexagenia									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae							21.5	3.07	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae		43		21.5				9.21	
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	129	1290	989	5547	2300.5	1290	602	1735.36	67.42
Chironomid pupae	21.5			301	21.5			49.14	
Uniden Dipteran Larvae									
Dipteran pupae		43						6.14	
TOTAL PUPAE									
Adult dipteran	21.5							3.07	
Ceratopogonidae		43		408.5	236.5	365.5	408.5	208.86	8.11
TOTAL BENTHOS	344	1720	1419	6987.5	3375.5	2042.5	2128.5	2573.86	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

ISLAND PARK IP-BA 327.6 RAINBOW PARK TAXA	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	PERCENT
Nematoda		86						12.29	
Annelida									
Oligochaeta	150.5	602	430	494.5	516	838.5	580.5	516.00	22.95
Arthropoda									
Insecta									
Ephemeroptera			21.5					3.07	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus						21.5	21.5	6.14	
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified			21.5					3.07	
Coleoptera									
Hydrophilidae									
Elmidae		43						6.14	
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	623.5	1225.5	1311.5	1247	2515.5	3117.5	1612.5	1664.71	74.04
Chironomid pupae	21.5	86	21.5			64.5		27.64	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae						21.5	43	9.21	0.41
TOTAL BENTHOS	795.5	2042.5	1806	1741.5	3031.5	4063.5	2257.5	2248.29	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

JENSEN JN-RIVER 300.6 TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda									
Annelida									
Oligochaeta									0.00
Arthropoda									
Insecta									
Ephemeroptera				21.5				3.07	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	86	1376	0	21.5	21.5	21.5	0	218.07	60.68
Chironomid pupae									
Uniden Dipteran Larvae									
Dipteran pupae	21.5							3.07	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	21.5		236.5	494.5	64.5	64.5	64.5	135.14	37.61
TOTAL BENTHOS	129	1376	236.5	537.5	86	86	64.5	359.36	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

JN-BA 300.6 EPHEMERAL TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda				21.5			64.5	12.29	
Annelida									
Oligochaeta	64.5					21.5	408.5	70.64	6.23
Arthropoda									
Insecta									
Ephemeroptera			21.5					3.07	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae	43					21.5		9.21	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified		21.5						3.07	
Coleoptera									
Hydrophilidae									
Elmidae			21.5					3.07	
Diptera (larvae)									
Tipulidae		21.5					64.5	12.29	
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	602	107.5	2128.5	451.5	1870.5	1053.5	107.5	903.00	79.67
Chironomid pupae				21.5		64.5	64.5	21.50	
Uniden Dipteran Larvae									
Dipteran pupae	86	21.5						15.36	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	150.5				86	64.5	258	79.86	7.05
TOTAL BENTHOS	946	172	2171.5	494.5	1956.5	1225.5	967.5	1133.36	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

JN-BA 300.5 PUMPS TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda									
Annelida									
Oligochaeta	387	43			215	172	602	202.71	7.90
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified	21.5							3.07	
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	1806	1462	4429	3268	2773.5	494.5	2064	2328.14	90.78
Chironomid pupae		43	43	21.5		21.5		18.43	
Uniden Dipteran Larvae									
Dipteran pupae		21.5			21.5			6.14	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae						21.5	21.5	6.14	0.24
TOTAL BENTHOS	2214.5	1569.5	4472	3289.5	3010	709.5	2687.5	2564.64	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

JN-BA 299.2 DEER TRACK	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
TAXA									
Nematoda				21.5	21.5	64.5		15.36	
Annelida									
Oligochaeta				150.5	344	516	301	187.36	8.65
Arthropoda									
Insects									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0	0	0	2451	5740.5	3096	2214.5	1928.86	89.08
Chironomid pupae				64.5	64.5	107.5		33.79	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae									0.00
TOTAL BENTHOS	0	0	0	2687.5	6170.5	3784	2515.5	2165.36	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

JN-BA 298.6 ABOVE SQUAW CK TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda	21.5			21.5	21.5	64.5		3.07	
Annelida									
Oligochaeta	3375.5	451.5	64.5	150.5	344	516	301	867.17	19.64
Arthropoda									
Insecta									
Ephemeroptera			43					7.17	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae	21.5							3.58	
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	1010.5	4364.5	1483.5	2451	5740.5	3096	2214.5	3393.42	76.87
Chironomid pupae		279.5	64.5	64.5	64.5	107.5		96.75	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae		64.5	86					25.08	0.57
TOTAL BENTHOS	4429	5160	1741.5	2687.5	6170.5	3784	2515.5	4414.67	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

JN-BA 298.4 BELOW SQUAW CK TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda			21.5	21.5			21.5	9.21	
Annelida									
Oligochaeta	387	344	129	129	86	1182.5	1161	488.36	50.80
Arthropoda									
Insecta									
Ephemeroptera	172							24.57	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae						64.5		9.21	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified	21.5							3.07	
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae				43				6.14	
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	473	172	967.5	688	172	64.5	0	362.43	37.70
Chironomid pupae	150.5		21.5	21.5	21.5			30.71	
Unidem Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae		21.5		107.5		64.5		27.64	2.88
TOTAL BENTHOS	1204	537.5	1139.5	1010.5	279.5	1376	1182.5	961.36	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

OURAY OU-RIVER 251.0 TAXA	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
Nematoda									
Annelida									
Oligochaeta							21.5	3.07	6.67
Arthropoda									
Insecta									
Ephemeroptera	43							6.14	
Paracloeodes									
Hexagenia									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0	21.5	0	0	0	86	0	15.36	33.33
Chironomid pupae									
Uniden Dipteran Larvae									
Dipteran pupae					21.5			3.07	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae					21.5	64.5	43	18.43	40.00
TOTAL BENTHOS	43	21.5	0	0	43	150.5	64.5	46.07	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

OU-BA 251.0 NEAR REFERENCE TAXA	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
Nematoda			21.5			21.5	43	12.29	
Annelida									
Oligochaeta	2064	1505	1741.5	2601.5	1462	2967	2580	2131.57	45.96
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	3483	2515.5	2193	1741.5	3053	2042.5	2322	2478.64	53.44
Chironomid pupae		43				21.5		9.21	
Uniden Dipteran Larvae									
Dipteran pupae					43			6.14	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae									0.00
TOTAL BENTHOS	5547	4063.5	3956	4343	4558	5052.5	4945	4637.86	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

OU-BA 250.8 MOULT BEND	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
TAXA									
Nematoda		21.5					21.5	6.14	
Annelida									
Oligochaeta				21.5				3.07	0.12
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae			301		86			55.29	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae						172	236.5	58.36	
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	6858.5	1634	2021	1139.5	4515	279.5	408.5	2408.00	93.00
Chironomid pupae	21.5	43	43		21.5			18.43	
Uniden Dipteran Larvae							21.5	3.07	
Dipteran pupae				43	64.5		43	21.50	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	21.5			21.5		64.5		15.36	0.59
TOTAL BENTHOS	6901.5	1698.5	2365	1225.5	4687	516	731	2589.21	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

OU-BA 250.7 SAND BEACH	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
TAXA									
Nematoda					21.5			3.07	
Annelida									
Oligochaeta	21.5	21.5				86	107.5	33.79	1.79
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	4450.5	1247	64.5	1763	2171.5	1397.5	1677	1824.43	96.74
Chironomid pupae	21.5				43	43		15.36	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	21.5					43		9.21	0.49
TOTAL BENTHOS	4515	1268.5	64.5	1763	2236	1569.5	1784.5	1885.86	
GASTROPODA									
Snail shells									

Table 31. - Number per square meter of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1987. Continued.

OU-BA 249.3 OLD CHARLEY WAS TAXA	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
Nematoda	86						21.5	15.36	
Annelida									
Oligochaeta	3010	6665	752.5	1483.5	1720	989	1397.5	2288.21	54.58
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Hexagenia						21.5		3.07	
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	7331.5	1354.5	451.5	666.5	1182.5	1526.5	666.5	1882.79	44.91
Chironomid pupae		21.5						3.07	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae									0.00
TOTAL BENTHOS	10427.5	8041	1204	2150	2902.5	2537	2085.5	4192.50	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988.

ISLAND PARK IP-RIVER 333.0 TAXA	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	PERCENT
Nematoda				0.0043	0.0258	0.0043	0.0043		
Annelida									
Oligochaeta		0.0043	0.0129				0.0344	0.00737	12.50
Arthropoda									
Insecta									
Ephemeroptera	0.0043							0.00061	
Paracloeodes									
Hexagenia									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae		0.0043						0.00061	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.0645	0.1806	0.0172	0.0086	0.0129	0.0086	0.0043	0.04239	71.88
Chironomid pupae									
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae			0.0043			0.0086	0.0043	0.00246	4.17
TOTAL BENTHOS	0.0688	0.1892	0.0344	0.0129	0.0387	0.0215	0.0473	0.05897	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

ISLAND PARK IP-BA 333.2 BIG ISLAND TAXA	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	PERCENT
Nematoda		0.0043	0.0043	0.0086	0.0043			0.00307	
Annelida									
Oligochaeta	0.0129	0.0344	0.0301	0.1376	0.1548	0.0817	0.3268	0.11119	38.84
Arthropoda									
Insecta									
Ephemeroptera	0.0344	0.0129	0.0043					0.00737	
Paracloeodes									
Hexagenia									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae							0.0043	0.00061	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae		0.0043		0.0043				0.00123	
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.0731	0.1333	0.0602	0.2967	0.1247	0.1161	0.1118	0.13084	45.71
Chironomid pupae	0.0043			0.0172	0.0043			0.00369	
Uniden Dipteran Larvae									
Dipteran pupae		0.0086						0.00123	
TOTAL PUPAE									
Adult dipteran	0.0215							0.00307	
Ceratopogonidae		0.0043		0.0387	0.0258	0.0516	0.0473	0.02396	8.37
TOTAL BENTHOS	0.1462	0.2021	0.0989	0.5031	0.3139	0.2494	0.4902	0.28626	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

ISLAND PARK IP-BA 327.6 RAINBOW PARK TAXA	12 JUL	26 JUL	9 AUG	23 AUG	6 SEP	20 SEP	11 OCT	AVG	PERCENT
Nematoda		0.0043						0.00061	
Annelida									
Oligochaeta	0.0172	0.0903	0.0559	0.086	0.086	0.2236	0.1075	0.09521	15.91
Arthropoda									
Insecta									
Ephemeroptera			0.0043					0.00061	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified			0.0043					0.00061	
Coleoptera									
Hydrophilidae									
Elmidae		0.0129						0.00184	
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.1419	0.3483	0.1505	0.2666	1.0578	0.9288	0.5547	0.49266	82.34
Chironomid pupae	0.0043	0.0215	0.0043			0.0086		0.00553	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae						0.0043	0.0043	0.00123	0.21
TOTAL BENTHOS	0.1634	0.4773	0.2193	0.3526	1.1438	1.1653	0.6665	0.59831	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

JENSEN JN-RIVER 300.6 TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda									
Annelida									
Oligochaeta									0.00
Arthropoda									
Insecta									
Ephemeroptera				0.0172				0.00246	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.0215	0.2193	0	0.0043	0.0043	0.0043	0	0.03624	71.95
Chironomid pupae									
Uniden Dipteran Larvae									
Dipteran pupae	0.0043							0.00061	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	0.0043		0.0258	0.0215	0.0086	0.0086	0.0086	0.01106	21.95
TOTAL BENTHOS	0.0301	0.2193	0.0258	0.043	0.0129	0.0129	0.0086	0.05037	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

JN-BA 300.6 EPHEMERAL TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda				0.0043			0.0086	0.00184	
Annelida									
Oligochaeta	0.0086					0.0043	0.0688	0.01167	5.96
Arthropoda									
Insecta									
Ephemeroptera			0.0043					0.00061	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae	0.0086					0.0086		0.00246	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified		0.0043						0.00061	
Coleoptera									
Hydrophilidae									
Elmidae			0.0043					0.00061	
Diptera (larvae)									
Tipulidae		0.0086					0.0387	0.00676	
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.0387	0.0129	0.2666	0.1548	0.1462	0.4128	0.0215	0.15050	76.80
Chironomid pupae				0.0043		0.0086	0.0086	0.00307	
Uniden Dipteran Larvae									
Dipteran pupae	0.0043	0.0043						0.00123	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	0.0129				0.0086	0.0086	0.086	0.01659	8.46
TOTAL BENTHOS	0.0731	0.0301	0.2752	0.1634	0.1548	0.4429	0.2322	0.19596	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

JN-BA 300.5 PUMPS TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda									
Annelida									
Oligochaeta	0.0129	0.0043			0.0172	0.0172	0.2279	0.03993	7.92
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified	0.0043							0.00061	
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.2924	0.5031	0.9847	0.4386	0.2924	0.1419	0.5289	0.45457	90.13
Chironomid pupae		0.0086	0.0043	0.0043		0.0043		0.00307	
Uniden Dipteran Larvae									
Dipteran pupae		0.0301			0.0043			0.00491	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae						0.0043	0.0043	0.00123	0.24
TOTAL BENTHOS	0.3096	0.5461	0.989	0.4429	0.3139	0.1677	0.7611	0.50433	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

JN-BA 299.2 DEER TRACK TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda				0.0043	0.0043	0.0086		0.00246	
Annelida									
Oligochaeta				0.0172	0.043	0.0989	0.0731	0.03317	3.35
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0	0	0	0.8815	2.4983	1.9823	1.2642	0.94661	95.54
Chironomid pupae				0.0086	0.0086	0.043		0.00860	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae									0.00
TOTAL BENTHOS	0	0	0	0.9116	2.5542	2.1328	1.3373	0.99084	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

JN-BA 298.6 ABOVE SQUAW CK TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda	0.0043							0.00061	
Annelida									
Oligochaeta	0.4128	0.086	0.0043					0.07187	16.76
Arthropoda									
Insecta									
Ephemeroptera			0.0086					0.00123	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae	0.0043							0.00061	
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.1376	2.1586	0.0731	0	0	0	0	0.33847	78.94
Chironomid pupae		0.086	0.0086					0.01351	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae		0.0086	0.0086					0.00246	0.57
TOTAL BENTHOS	0.559	2.3392	0.1032	0	0	0	0	0.42877	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

JN-BA 298.4 BELOW SQUAW CK TAXA	13 JUL	27 JUL	10 AUG	24 AUG	7 SEP	21 SEP	12 OCT	AVG	PERCENT
Nematoda			0.0043	0.0043			0.0043	0.00184	
Annelida									
Oligochaeta	0.086	0.0387	0.0129	0.0172	0.0473	0.301	0.7826	0.18367	77.66
Arthropoda									
Insecta									
Ephemeroptera	0.0344							0.00491	
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae						0.0129		0.00184	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified	0.0043							0.00061	
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae				0.0215				0.00307	
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.0344	0.0172	0.0602	0.043	0.0645	0.0086	0	0.03256	13.77
Chironomid pupae	0.0086		0.0043	0.0043	0.0043			0.00307	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae		0.0043		0.0215		0.0086		0.00491	2.08
TOTAL BENTHOS	0.1677	0.0602	0.0817	0.1118	0.1161	0.3311	0.7869	0.23650	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

OURAY OU-RIVER 251.0 TAXA	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
Nematoda									
Annelida									
Oligochaeta							0.0043	0.00061	8.33
Arthropoda									
Insecta									
Ephemeroptera	0.0043							0.00061	
Paracloeodes									
Hexagenia									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0	0.0043	0	0	0	0.0172	0	0.00307	41.67
Chironomid pupae									
Uniden Dipteran Larvae									
Dipteran pupae					0.0043			0.00061	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae					0.0043	0.0086	0.0043	0.00246	33.33
TOTAL BENTHOS	0.0043	0.0043	0	0	0.0086	0.0258	0.0086	0.00737	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

OU-BA 251.0 NEAR REFERENCE TAXA	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
Nematoda			0.0043			0.0043	0.0043	0.00184	
Annelida									
Oligochaeta	0.0774	0.172	0.1204	0.2021	0.1419	0.3182	0.516	0.22114	17.88
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.559	0.7826	1.032	0.9073	1.2986	1.247	1.2556	1.01173	81.82
Chironomid pupae		0.0043				0.0043		0.00123	
Uniden Dipteran Larvae									
Dipteran pupae					0.0043			0.00061	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae									0.00
TOTAL BENTHOS	0.6364	0.9589	1.1567	1.1094	1.4448	1.5738	1.7759	1.23656	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

OU-BA 250.8 MOULT BEND	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
TAXA									
Nematoda		0.0043					0.0043	0.00123	
Annelida									
Oligochaeta				0.0043				0.00061	0.10
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae			0.1204		0.0473			0.02396	
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae						0.0172	0.0516	0.00983	
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	1.1825	0.8686	0.3397	0.2236	1.1567	0.0387	0.043	0.55040	91.99
Chironomid pupae	0.0129	0.0215	0.0043		0.0043			0.00614	
Uniden Dipteran Larvae							0.0043	0.00061	
Dipteran pupae				0.0043	0.0086		0.0086	0.00307	
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	0.0043			0.0043		0.0086		0.00246	0.41
TOTAL BENTHOS	1.1997	0.8944	0.4644	0.2365	1.2169	0.0645	0.1118	0.59831	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

OU-BA 250.7 SAND BEACH	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
TAXA									
Nematoda					0.0043			0.00061	
Annelida									
Oligochaeta	0.0043	0.0043				0.0086	0.0129	0.00430	0.87
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.7267	0.3784	0.0086	0.4558	0.946	0.3268	0.5504	0.48467	98.26
Chironomid pupae	0.0086				0.0043	0.0043		0.00246	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae	0.0043					0.0043		0.00123	0.25
TOTAL BENTHOS	0.7439	0.3827	0.0086	0.4558	0.9546	0.344	0.5633	0.49327	
GASTROPODA									
Snail shells									

Table 32. - Dry weight (g/m^3) of benthic macroinvertebrates in the main river and selected backwaters at Island Park, Jensen, and Ouray, from June to October, 1988. Continued.

OU-BA 249.3 OLD CHARLEY WAS TAXA	14 JUL	28 JUL	11 AUG	25 AUG	8 SEP	22 SEP	13 OCT	AVG	PERCENT
Nematoda	0.0043						0.0043	0.00123	
Annelida									
Oligochaeta	0.172	0.6149	0.1075	0.129	0.258	0.2279	0.3569	0.26660	34.58
Arthropoda									
Insecta									
Ephemeroptera									
Paracloeodes									
Hexagenia						0.0086		0.00123	
Odonata									
Anisoptera									
Stylurus									
Hemiptera									
Corixidae									
Trichoptera									
Hydropsychidae									
Hydropsyche									
Unidentified									
Coleoptera									
Hydrophilidae									
Elmidae									
Diptera (larvae)									
Tipulidae									
Simuliidae									
Chironomidae									
TOTAL CHIRONOMID LARVAE	0.8729	0.516	0.1849	0.1118	0.2322	1.1524	0.4386	0.50126	65.02
Chironomid pupae		0.0043						0.00061	
Uniden Dipteran Larvae									
Dipteran pupae									
TOTAL PUPAE									
Adult dipteran									
Ceratopogonidae									0.00
TOTAL BENTHOS	1.0492	1.1352	0.2924	0.2408	0.4902	1.3889	0.7998	0.77093	
GASTROPODA									

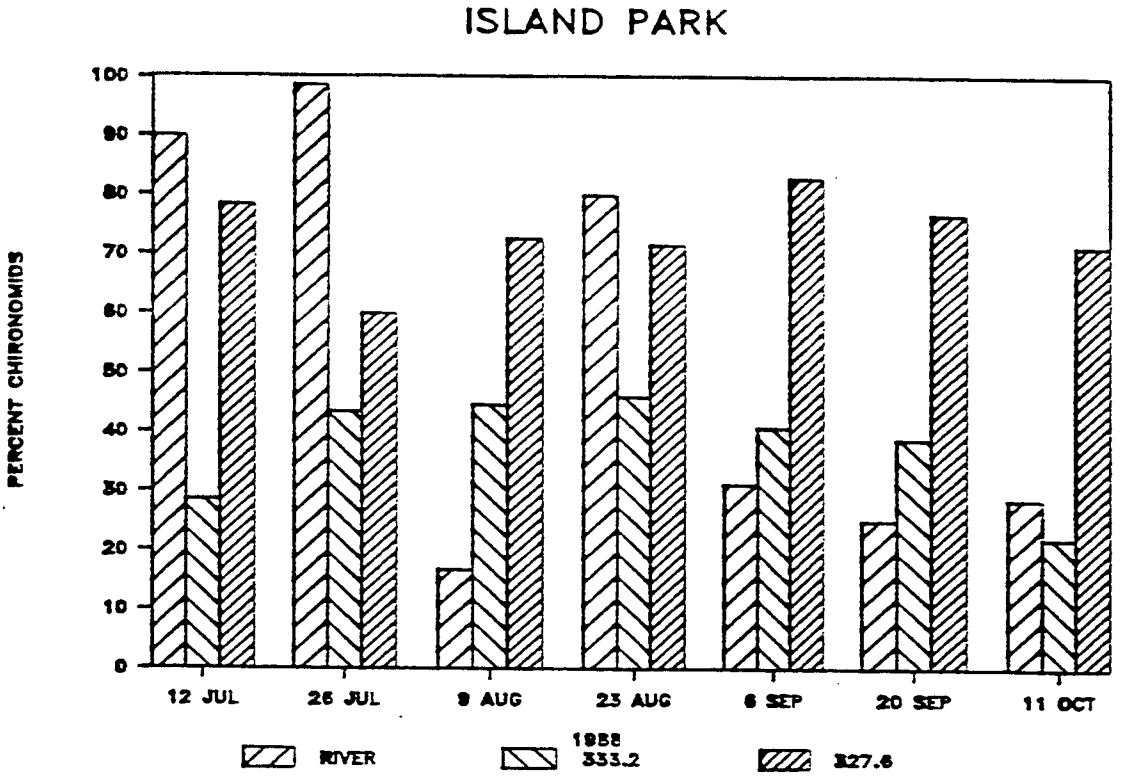

Figure 57. - Percent chironomid larvae in Island Park main river and backwaters, July to October, 1988.

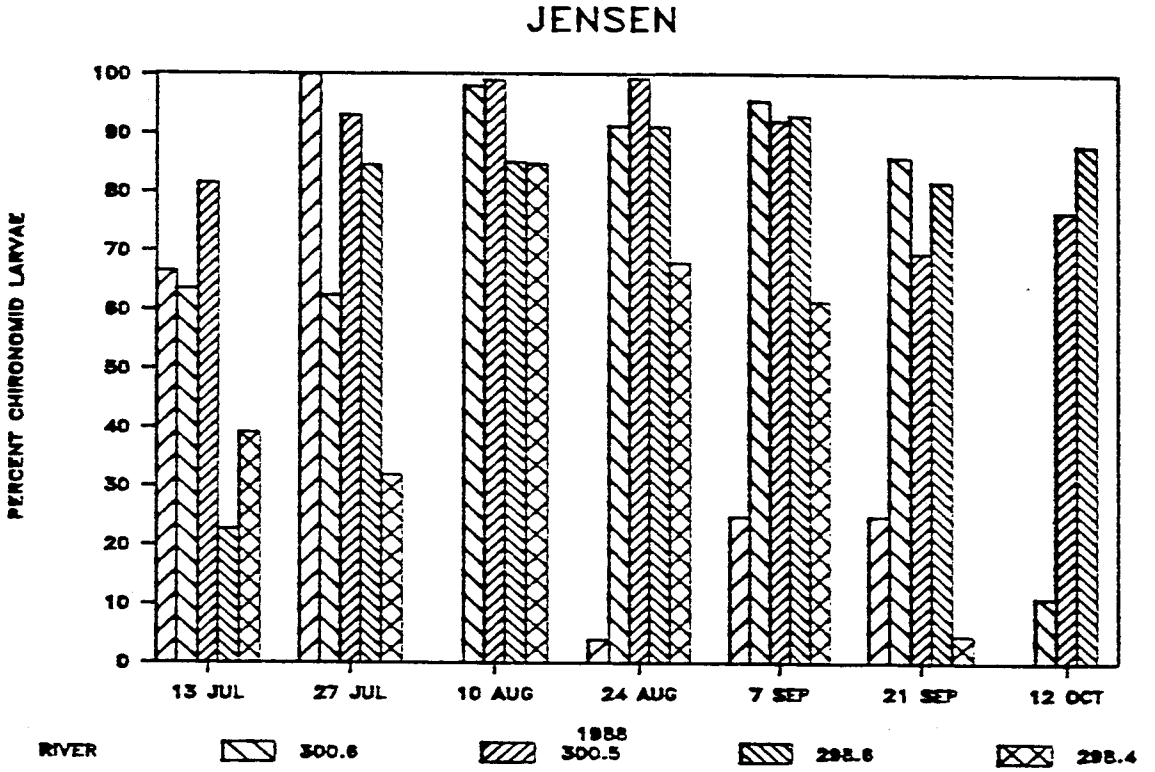

Figure 58. - Percent chironomid larvae in Jensen main river and backwaters, July to October, 1988.

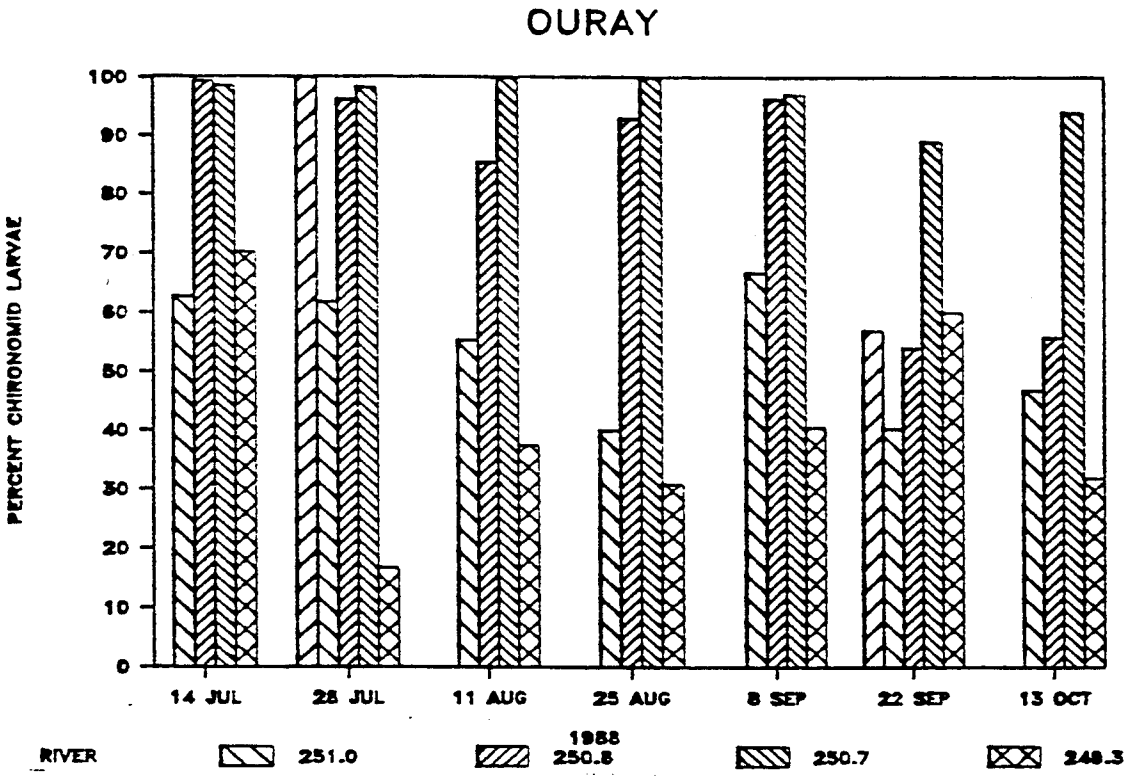

Figure 59. - Percent chironomid larvae in Ouray main river and backwaters, July to October, 1988.

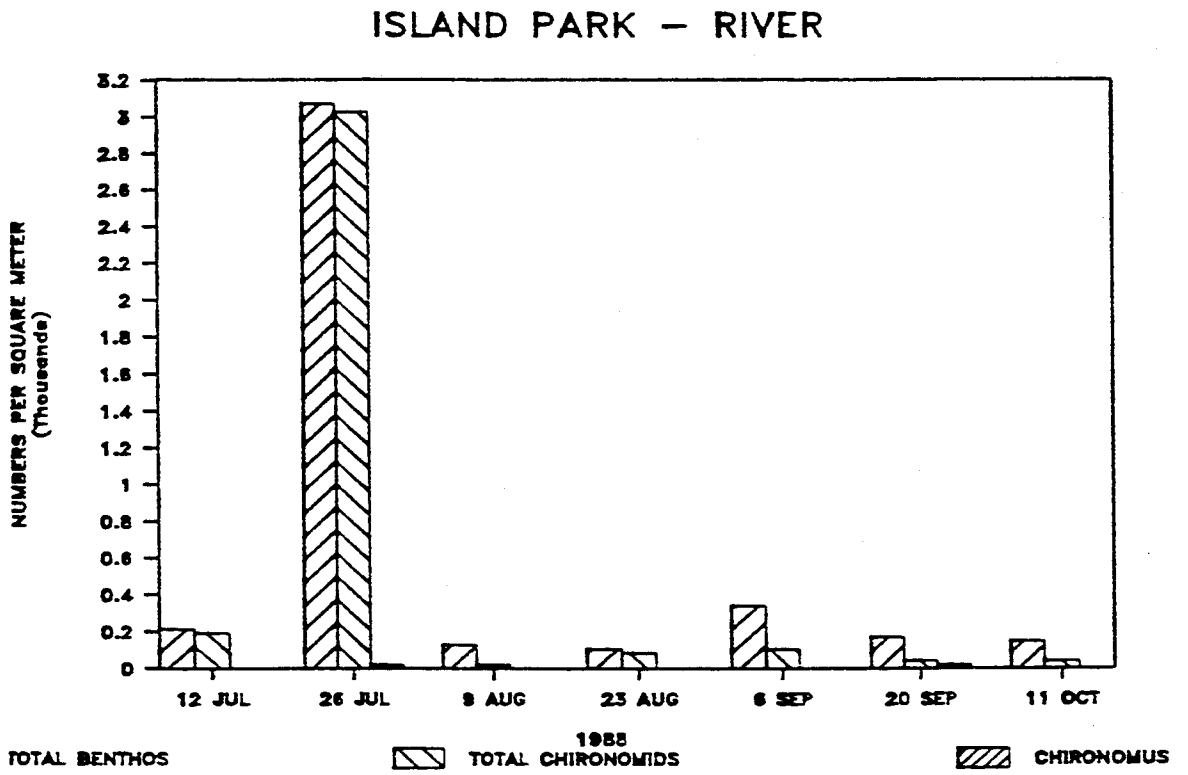

Figure 60. - Number per m^2 of total benthos and chironomid larvae, and <u>Chironomus</u> sp. at Island Park river, July to October, 1988.

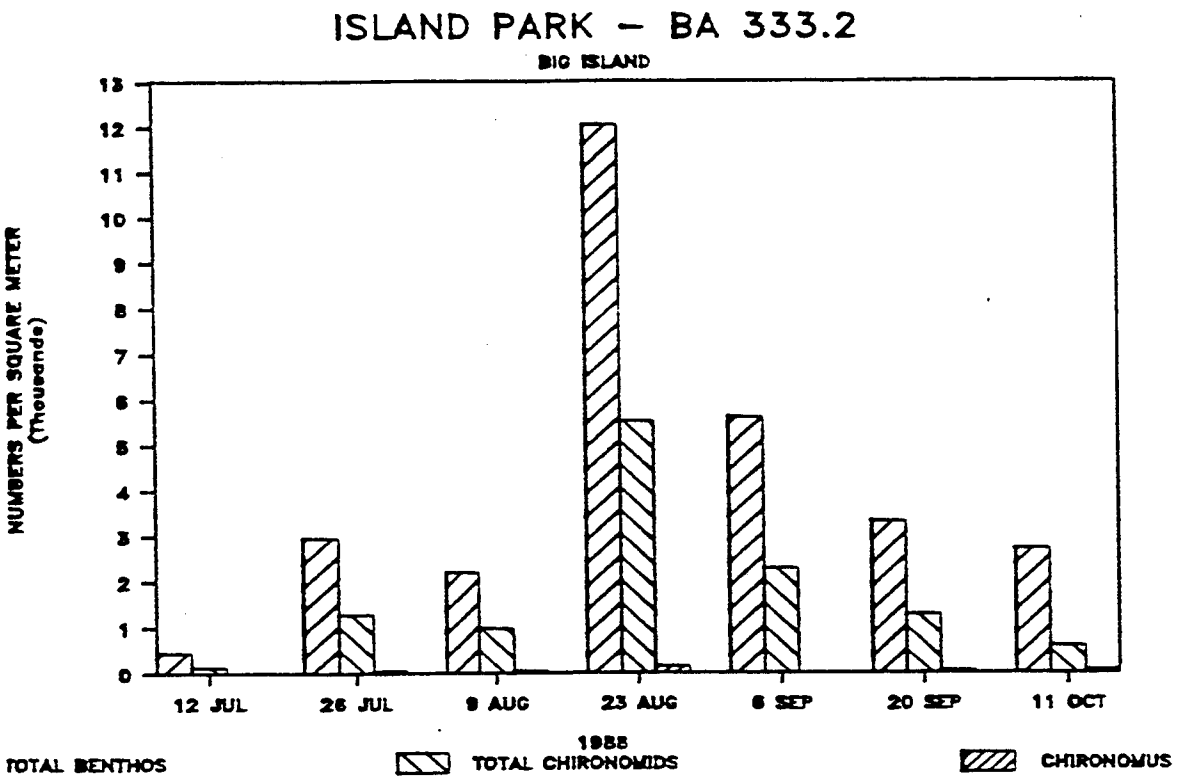

Figure 61. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Island Park BA 333.2, July to October, 1988.

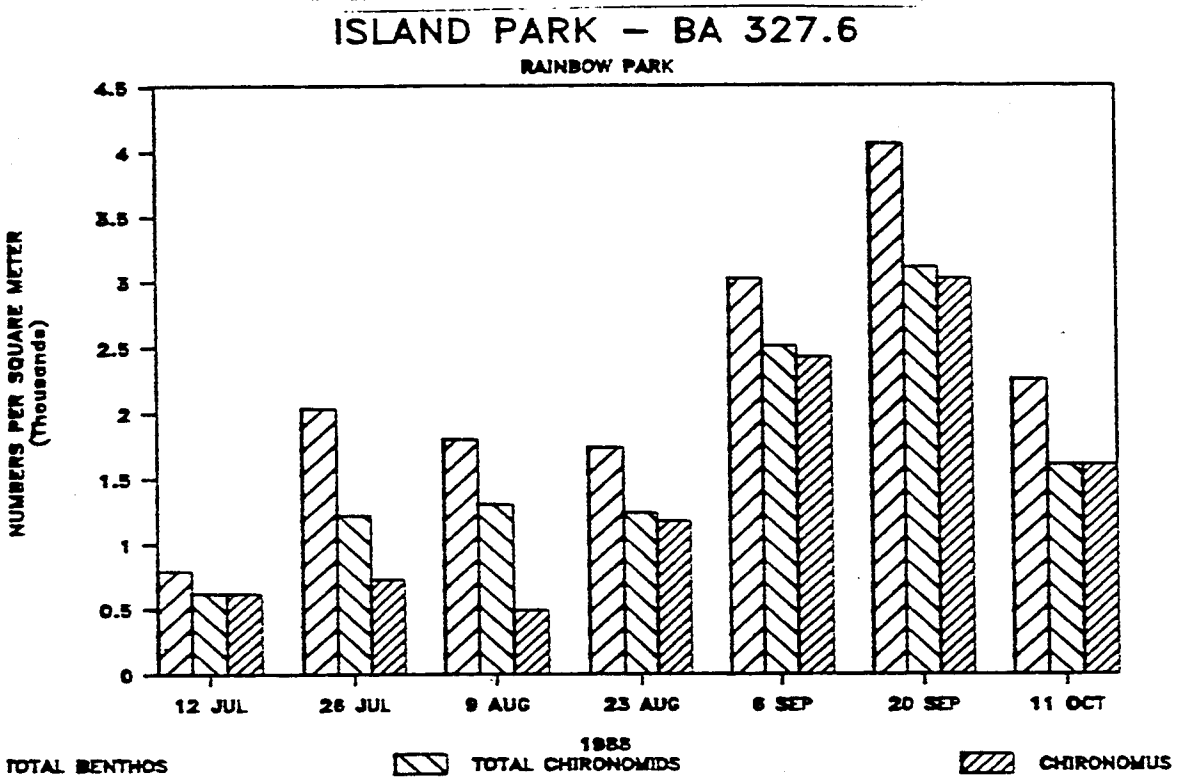

Figure 62. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Island Park BA 327.6, July to October, 1988.

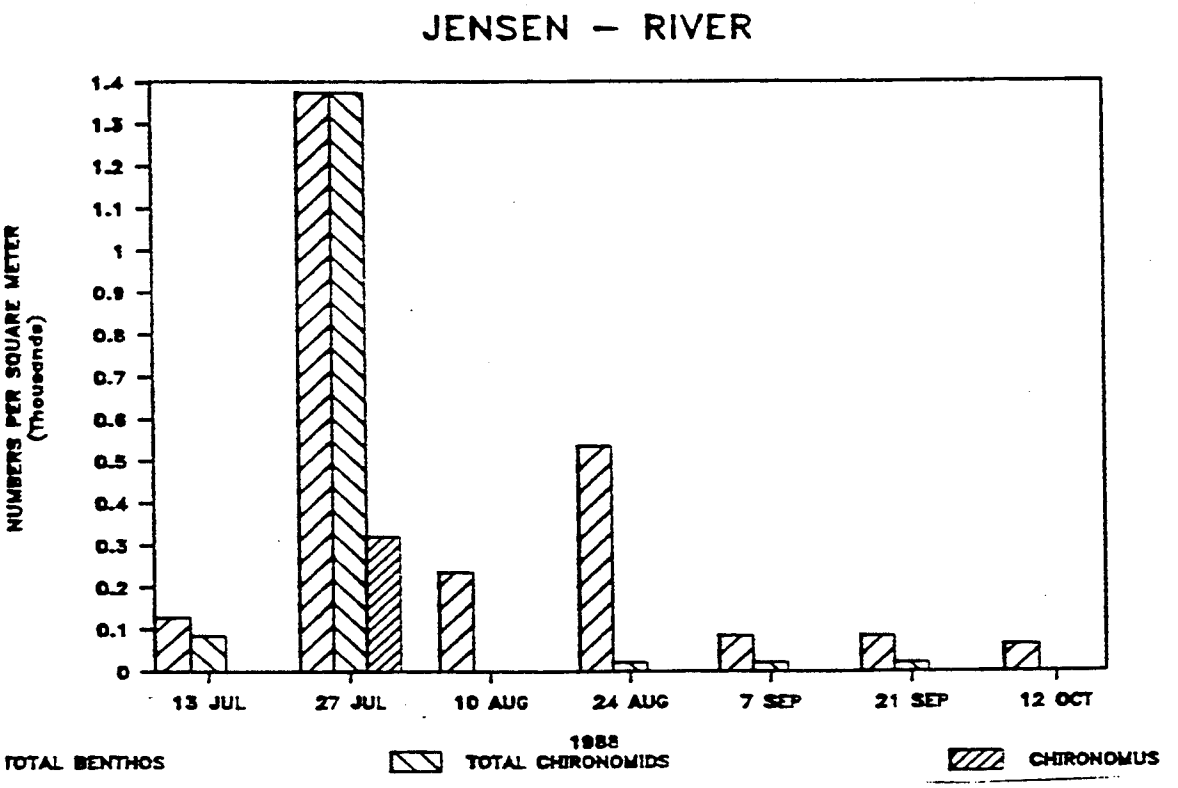

Figure 63. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen river, July to October, 1988.

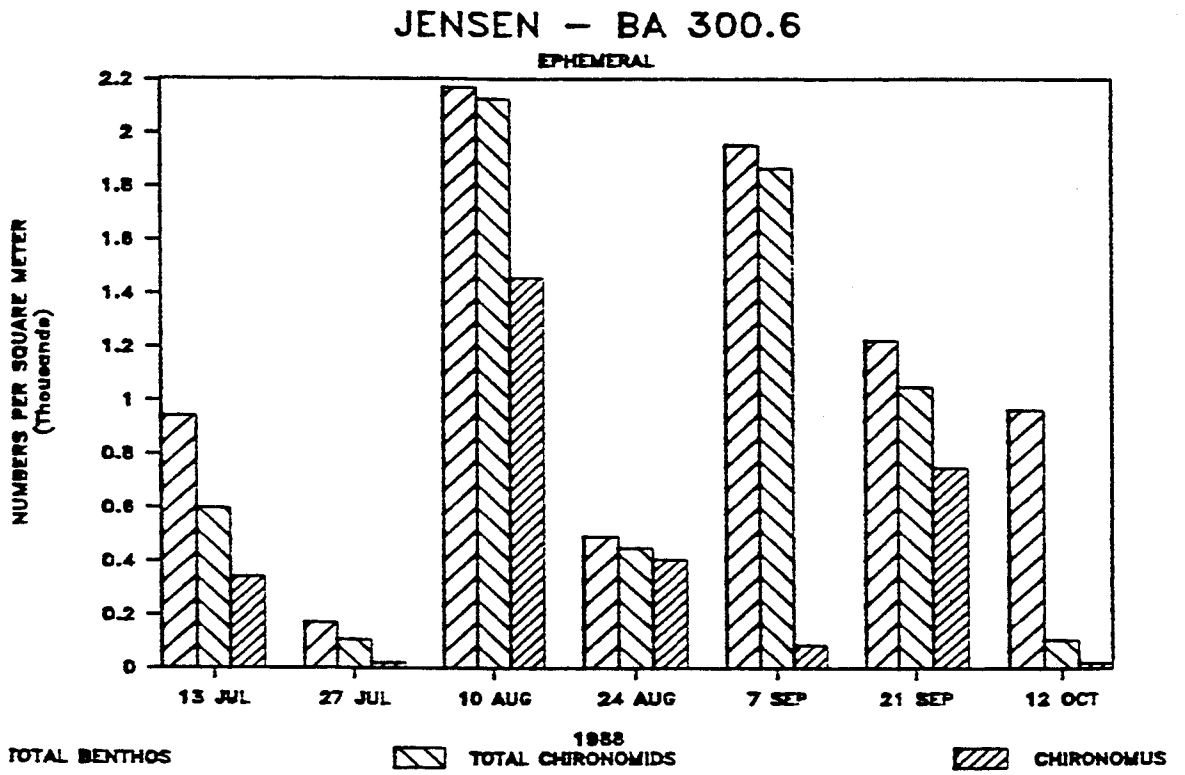

Figure 64. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 300.6, July to October, 1988.

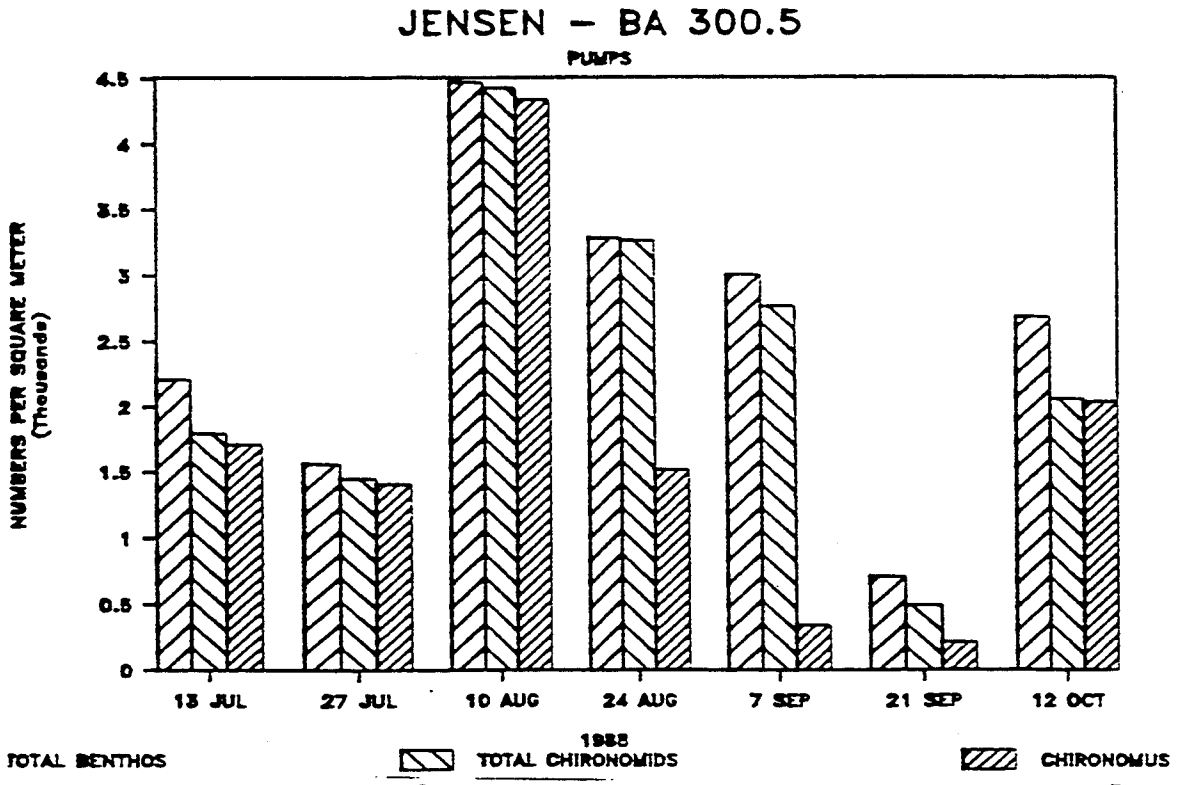

Figure 65. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 300.5, July to October, 1988.

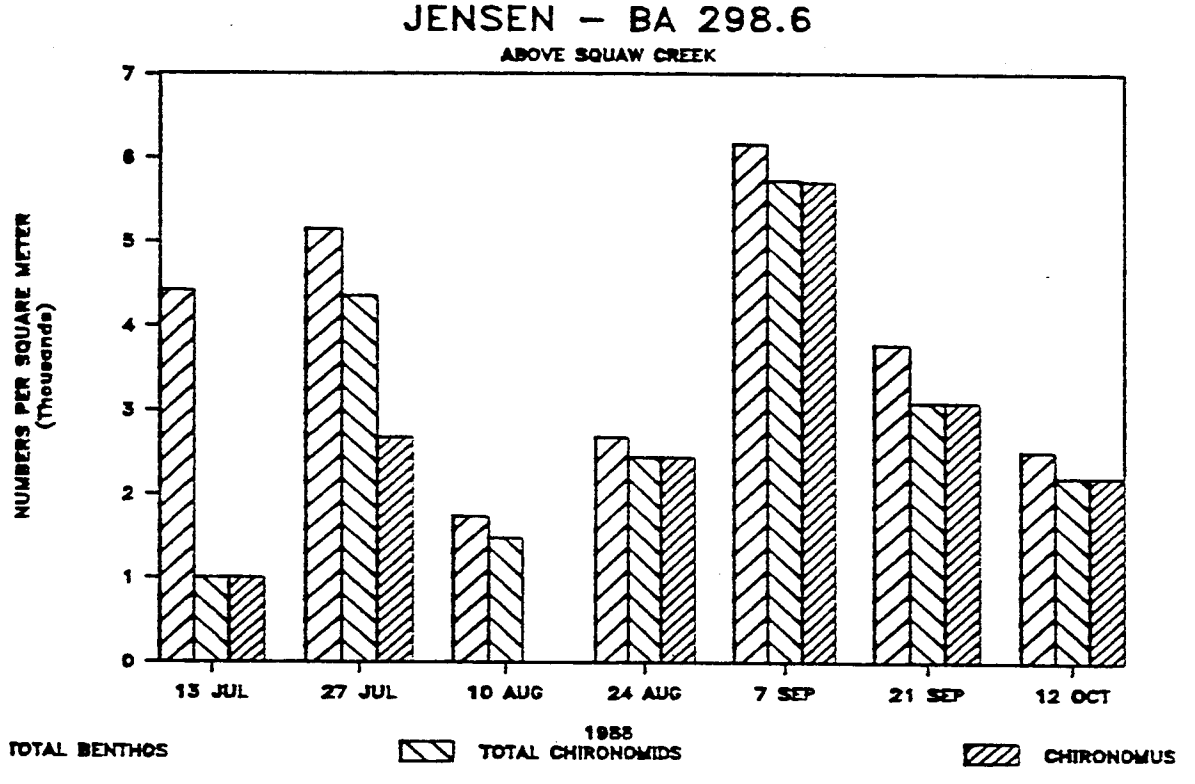

Figure 66. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 298.6, July to October, 1988.

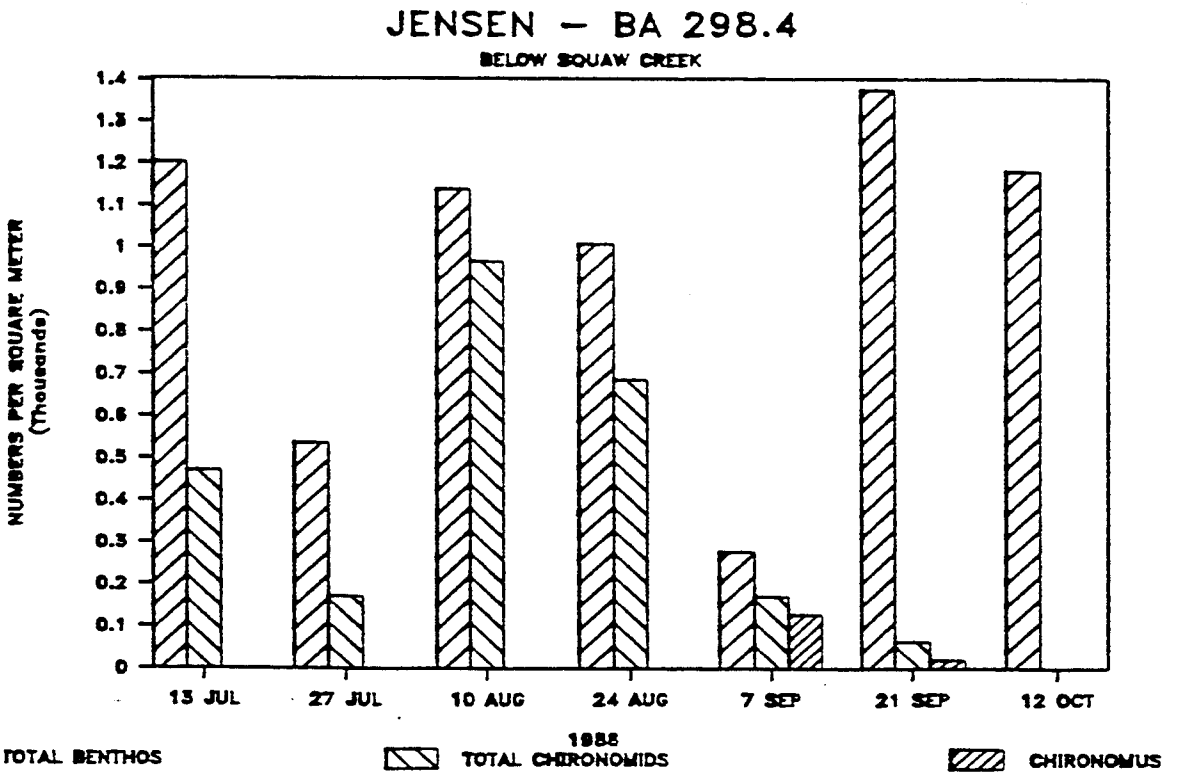

Figure 67. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Jensen BA 298.4, July to October, 1988.

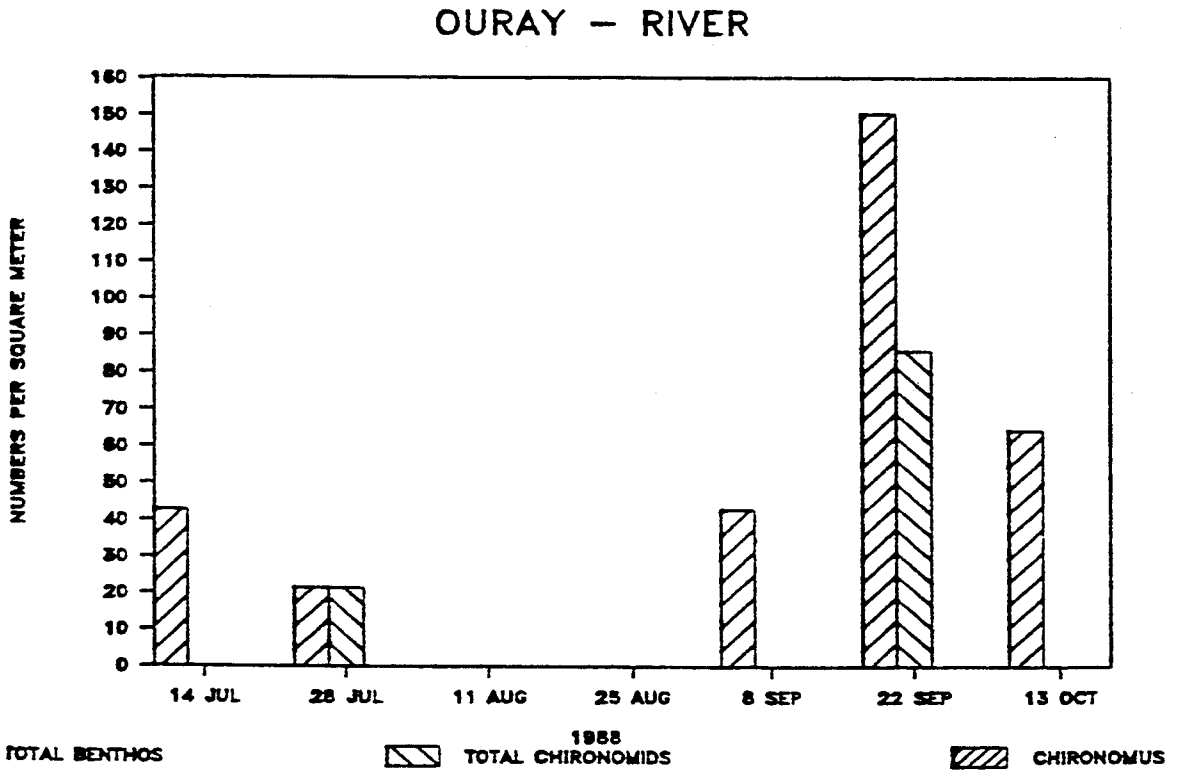

Figure 68. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray river, July to October, 1988.

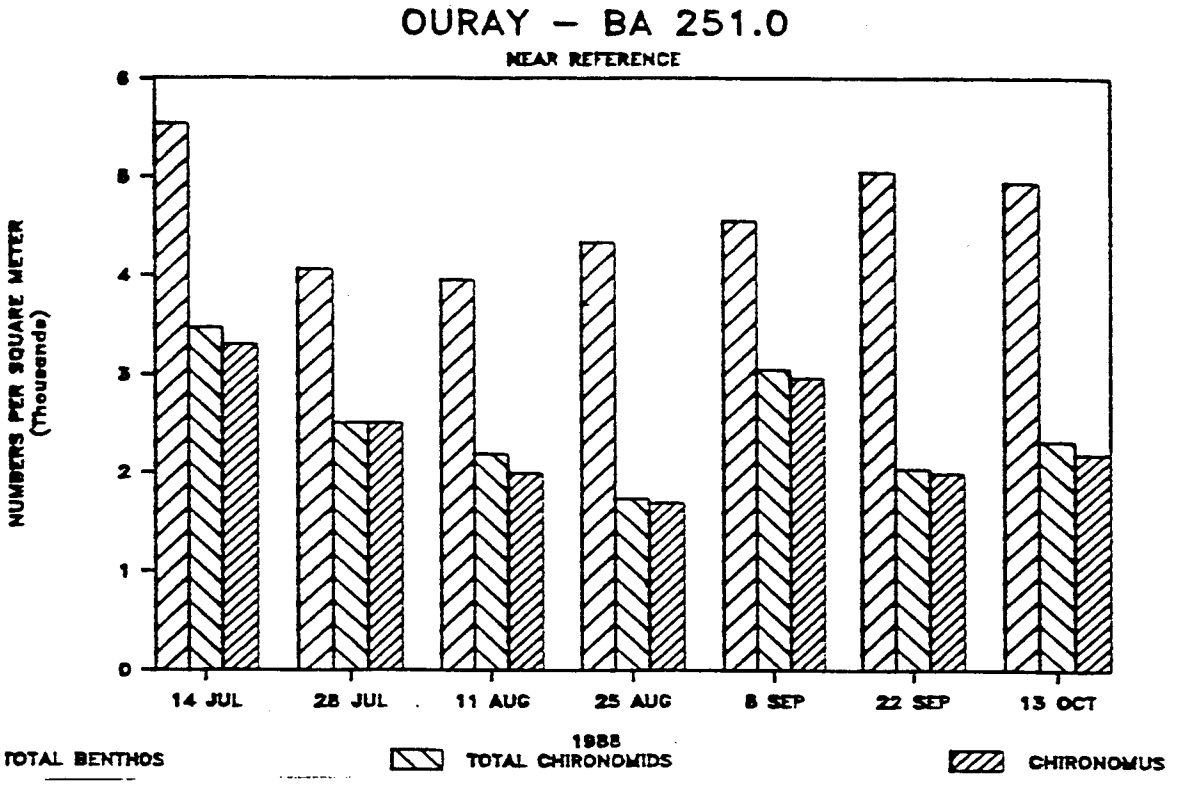

Figure 69. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 251.0, July to October, 1988.

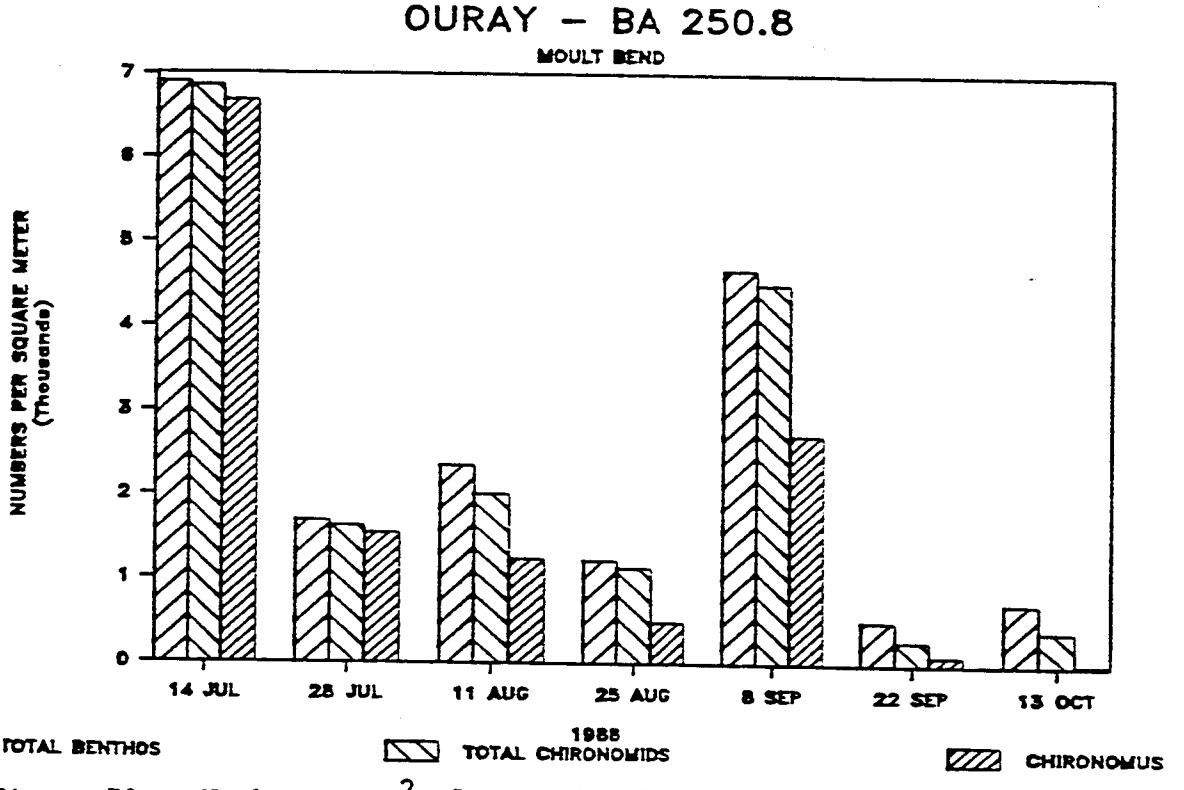

Figure 70. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 250.8, July to October, 1988.

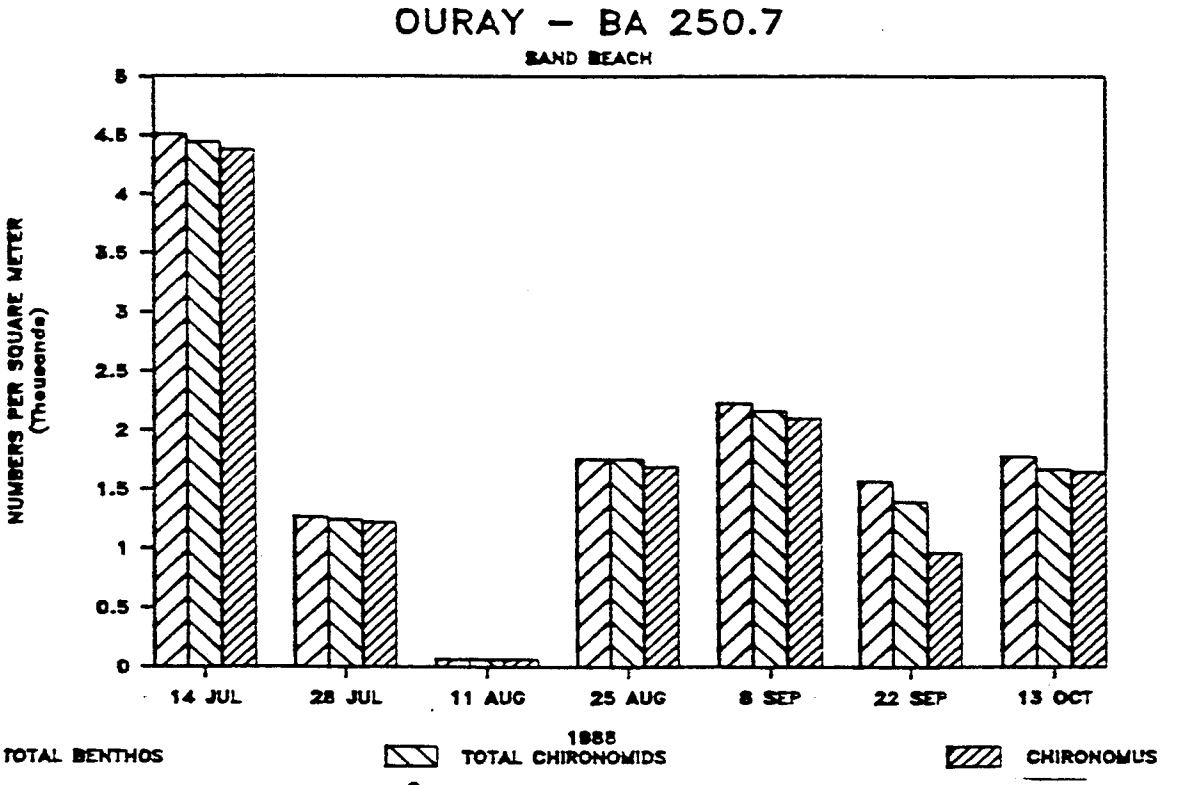

Figure 71. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 250.7, July to October, 1988.

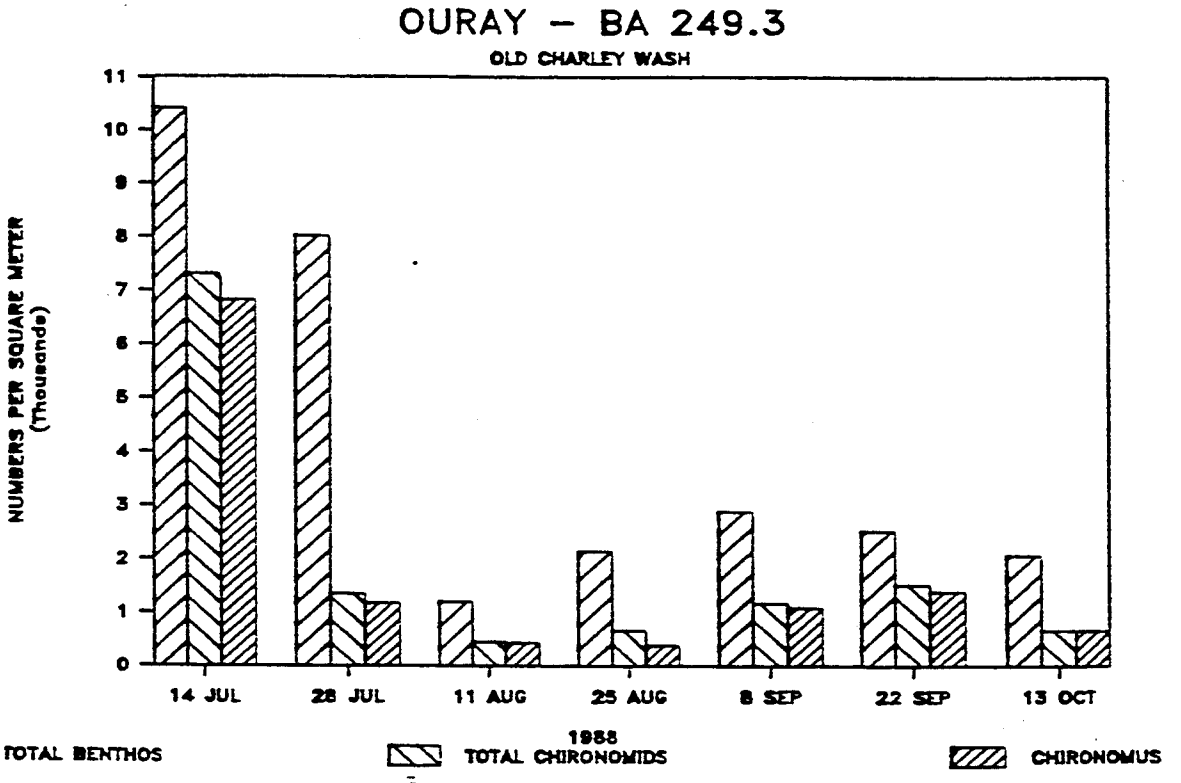

Figure 72. - Number per m^2 of total benthos and chironomid larvae, and Chironomus sp. at Ouray BA 249.3, July to October, 1988.

Table 33. - Density per m^3 of Colorado squawfish collected in Green River backwaters at Island Park, Jensen, and Ouray in 1987.

RMI	DATE	VOLUME SMP CU METR	CS TOTAL	CS DENSITY	AVERAGE BACKWATER CS DENSITY
249.70	870724	9.94	0	0.000	0.137
249.70	870806	6.16	0	0.000	
249.70	870818	37.68	0	0.000	
249.70	870924	8.29	0	0.000	
249.70	871022	17.54	12	0.684	
250.80	870724	11.51	3	0.261	0.235
250.80	870806	3.50	2	0.572	
250.80	870924	22.44	1	0.045	
250.80	871022	32.88	2	0.061	
251.01	870806	14.67	0	0.000	0.086
251.01	870924	24.68	3	0.122	
251.01	871022	29.21	4	0.137	
298.60	870804	4.37	0	0.000	0.196
298.60	870818	4.71	0	0.000	
298.60	870923	8.39	6	0.715	*highest*
298.60	871021	10.23	1	0.098	
298.60	871116	5.90	1	0.169	
300.26	870722	9.85	0	0.000	0.104
300.26	870804	7.90	1	0.127	
300.26	870818	6.02	3	0.498	
300.26	870923	11.12	0	0.000	
300.26	871021	12.51	0	0.000	
300.26	871116	17.87	0	0.000	
332.20	870804	0.94	0	0.000	0.043
332.20	870818	1.41	0	0.000	
332.20	870922	0.04	0	0.000	
332.20	871020	3.09	0	0.000	
332.20	871117	9.22	2	0.217	
333.20	870804	18.08	2	0.111	0.038
333.20	870818	34.88	1	0.029	
333.20	870922	69.56	1	0.014	
333.20	871020	60.43	0	0.000	

Table 34. - Density per m^3 of larval and juvenile fish collected in Green River backwaters at Island Park, Jensen, and Ouray in 1987.

		RS	FH	SD	SU	CC	BB	CH	CP	RD	SS	GS	OTHR
		RS DEN	FH DEN	SD DEN	SU DEN	CC DEN	BB DEN	CH DEN	CP DEN	RD DEN	SS DEN	GS DEN	DEN
249.70	870724	92.96	4.33	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00
249.70	870806	19.32	6.49	0.00	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00
249.70	870817	9.50	0.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
249.70	870924	3.26	3.26	0.00	0.12	0.48	0.00	0.00	0.24	0.00	0.00	0.00	0.00
249.70	871022	15.90	2.56	0.00	0.00	0.00	0.00	0.11	0.06	0.00	0.00	0.00	0.00
250.80	870724	76.02	1.91	0.09	0.26	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00
250.80	870806	512.93	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.29
250.80	870924	3.57	1.65	0.00	0.62	0.09	0.00	0.00	0.04	0.00	0.13	0.04	0.00
250.80	871022	8.85	1.73	0.00	0.12	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
251.01	870806	38.45	2.25	0.00	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
251.01	870924	1.99	2.19	0.04	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.04
251.01	871022	2.19	0.75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
298.60	870804	172.44	9.38	0.00	0.23	0.00	0.00	0.00	0.00	0.00	1.37	0.00	0.00
298.60	870818	46.47	10.40	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.64	0.00	0.00
298.60	870923	6.08	9.29	0.00	14.06	0.00	0.00	0.00	0.00	0.00	2.38	0.00	0.00
298.60	871021	33.71	9.48	0.00	1.66	0.00	0.000	0.10	0.00	0.00	1.66	0.00	0.00
298.60	871116	15.08	0.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00
300.26	870722	16.34	2.64	0.00	1.22	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.00
300.26	870804	34.05	3.80	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13
300.26	870818	30.92	4.99	0.00	0.33	0.00	0.00	0.00	0.00	0.00	0.00	5.98	0.00
300.26	870923	1.35	0.81	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.26	871021	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
300.26	871116	0.06	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
332.20	870804	8.48	27.57	18.03	9.54	0.00	0.00	0.00	0.00	0.00	2.12	0.00	0.00
332.20	870818	17.06	0.00	9.24	0.00	0.00	0.00	0.00	0.00	0.00	2.13	0.00	0.00
332.20	870922	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
332.20	871020	19.44	26.24	0.32	0.00	0.00	0.00	0.00	0.00	0.00	6.80	0.00	0.00
332.20	871117	6.51	32.75	0.00	0.22	0.00	0.00	0.11	0.00	0.22	4.77	0.00	0.00
333.20	870804	5.20	15.32	0.06	0.17	0.00	0.00	0.00	0.00	0.06	0.06	0.00	0.00
333.20	870818	4.85	7.91	0.03	0.09	0.00	0.00	0.06	0.00	0.03	0.11	0.00	0.00
333.20	870922	0.42	0.72	0.01	0.00	0.00	0.00	0.00	0.01	0.00	0.06	0.00	0.00
333.20	871020	1.03	2.05	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00

Table 35. - Percent frequency of occurrence of major food items in stomachs of larval and juvenile fish collected in Green River backwaters at Island Park, Jensen, and Ouray in 1988.

SPECIES		BACKWATERS	CHIRONOMIDS	CERATOPOGONIDS	DIPTERANS	INSECTS	FISH	PHYTOPLANKTON	ZOOPLANKTON	PLANT SEEDS	UNIDENTIFIED ORGANIC MATERIAL	UNIDENTIFIED MINERAL MATERIAL
COLORADO SQUAWFISH	LARVAE	ISLAND PARK		None collected								
		JENSEN	100	0	0	0	0	0	0	0	33	1
		OURAY		None collected								
COLORADO SQUAWFISH	JUVENILES	ISLAND PARK		None collected								
		JENSEN	41	16	0	25	33	0	4	4	29	
		OURAY	45	5	0	25	40	0	10	0	5	
GILA SPP.	LARVAE	ISLAND PARK	33	0	0	66	0	0	0	0	33	0
		JENSEN	100	50	50	100	0	0	0	0	100	0
		OURAY		None collected								
GILA SPP.	JUVENILES	ISLAND PARK	27	15	11	69	8	0	0	15	20	1
		JENSEN	60	0	13	33	7	7	7	13	23	4
		* OURAY	0	0	0	100	0	0	0	0	0	0
RED SHINER	LARVAE	ISLAND PARK	29	18	11	14	0	40	40	7	55	1
		JENSEN	22	20	8	20	0	30	22	8	47	1
		OURAY	18	9	4	18	0	40	22	12	57	1
RED SHINER	JUVENILES	ISLAND PARK	18	10	13	67	0	5	0	3	29	0
		JENSEN	36	25	25	46	0	3	3	14	50	1
		OURAY	32	7	9	59	3	6	2	10	48	1
FATHEAD MINNOW	LARVAE	ISLAND PARK	44	0	0	11	0	5	61	5	100	7
		JENSEN	57	7	0	0	0	21	57	0	92	57
		OURAY	22	0	0	0	0	44	11	7	100	88
FATHEAD MINNOW	JUVENILES	ISLAND PARK	25	3	0	13	0	25	8	3	91	8
		JENSEN	28	4	0	10	0	39	6	4	100	9
		OURAY	16	3	0	7	0	27	3	7	93	7
SPECKLED DACE	LARVAE	ISLAND PARK	66	8	16	16	0	16	8	8	41	8
		JENSEN	64	26	10	0	0	10	8	0	15	
		OURAY		None collected								
SPECKLED DACE	JUVENILES	ISLAND PARK	33	33	0	66	0	0	0	66	33	0
		JENSEN	100	25	0	8	0	0	8	0	66	41
		OURAY	33	0	0	0	0	0	0	0	0	0
WHITE SUCKER	JUVENILES	ISLAND PARK	50	16	33	33	0	0	83	0	83	6
		JENSEN		None collected								
		OURAY		None collected								
BLUEHEAD SUCKER	LARVAE	ISLAND PARK	50	0	0	25	0	50	0	0	100	
		JENSEN	0	33	0	0	0	33	33	0	100	
		OURAY		None collected								
BLUEHEAD SUCKER	JUVENILES	ISLAND PARK	0	0	0	0	0	61	11	0	94	83
		JENSEN	25	0	0	0	0	55	15	0	95	90
		* OURAY	0	0	0	0	0	100	0	0	100	1[illegible]
FLANNELMOUTH SUCKER	JUVENILES	ISLAND PARK	51	25	4	14	0	25	70	4	96	8
		JENSEN	74	22	6	10	0	10	58	6	100	8
		OURAY		None collected								
SAND SHINER	LARVAE	ISLAND PARK	57	0	0	0	0	0	85	14	71	4
		JENSEN	76	20	0	8	0	12	8	4	84	3
		OURAY		None collected								
SAND SHINER	JUVENILES	ISLAND PARK	60	0	20	40	0	0	0	0	60	0
		JENSEN	64	17	17	58	0	11	11	41	82	23
		OURAY		None collected								
REDSIDE SHINER	JUVENILES	ISLAND PARK	25	50	0	100	0	0	0	50	0	2
		JENSEN	0	0	25	100	0	0	0	0	25	0
		OURAY		None collected								
CARP	JUVENILES	ISLAND PARK		None collected								
		JENSEN	88	11	0	22	0	0	33	100	66	1
		OURAY	77	11	33	22	0	0	11	0	77	3
CHANNEL CATFISH	JUVENILES	ISLAND PARK		None collected		100						
		JENSEN	100	33	0	75	0	0	0	0	0	0
		OURAY	64	35	23	42	0	0	0	12	56	1
GREEN SUNFISH	* JUVENILES	ISLAND PARK	100	0	0	100	0	0	0	0	100	1
		JENSEN	100	0	25	75	0	0	75	0	75	0
		OURAY	85	0	14	42	0	0	14	0	28	0
BLACK BULLHEADS	* JUVENILES	ISLAND PARK	100	0	0	100	0	0	0	0	0	1
		JENSEN	100	0	0	66	0	0	0	0	33	1
		OURAY	100	33	0	33	0	0	0	0	0	1

* Contents from one fish stomach

Table·36 Food items and percent frequency of occurrence from larval speckled dace stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Nanocladius sp.	26	16	6.4	6.5
Polypedilum sp.	3	1.9	9.6	2.1
Rheotanytarsis sp.	4	2.5	9.6	3.1
Phaenopsectra sp.	1	0.6	3.2	0.5
Cardiocladius sp.	1	0.6	3.2	0.1
Eukiefferiella sp.	17	10	3.2	3.3
Chironomus sp.	45	29	38	22
Unidentified	18	11	25	10
Pupae	4	2.5	1.2	8.6
Unidentified Diptera	2	1.2	6.4	2.6
Coleoptera (adults)				
Tipulidae (larvae)	2	1.2	6.4	3.1
Trichoptera (larvae)	1	0.6	3.2	2.6
Corydalus (larvae)	1	0.6	3.2	1.1
Ceratopogonidae (pupae)	3	1.9	9.6	2.1
Ceratopogonidae (larvae)	26	16	16	8
Eucopepoda	1	0.6	3.2	1.1
Only volumetrically measured				
Rotifera			3.2	0.6
Brachionus			6.4	2.1
Colonial algae			3.2	0.1
Closterium			6.4	0.7
Diatoms			6.4	0.1
Unidentified invertebrate eggs			6.4	1.3
Plant seed (unidentified)				
Unidentified digested material			3.2	3
Organic matter			25	12
Mineral sediment			3.2	0.8

Table 37. Food items and percent frequency of occurrence from Juvenile speckled dace stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Orthocladius sp.	1	0.5	5.5	0.8
Polypedilum sp.	1	0.5	5.5	0.1
Rheotanytarsis sp.	52	30	38	11
Harnischia sp.	3	1.7	5.5	2.9
Chironomus	77	45	61	28
Unidentified	6	3.5	11	1.7
Pupae	8	4.7	22	8.1
Ceratopogonidae (pupae)	10	5.9	5.5	1.7
Ceratopogonidae (larvae)	4	2.3	11	1.5
Ephemeroptera (nymphs)	1	0.5	5.5	0.5
Hemiptera (corixidae)	3	1.7	5.5	2.9
Cyclopoida	3	1.7	5.5	0.1
Only volumetrically measured				
Insecta (unidentified)			5.5	2.9
Vascular plant matter			5.5	5.8
Plant seeds (unidentified)			11	4.1
Unidentified digested material				
Organic matter			50	22
Mineral sediment			27	3.6

Table 38. Food items and percent frequency of occurrence from Juvenile red side shiners stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Harnishia sp.	1	4.5	12	0.6
Tipulidae	1	4.5	12	0.6
Ceratopogonidae (pupae)	1	4.5	12	0.6
Ceratopogonidae (larvae)	1	4.5	12	0.6
Hymenoptera (pupae/adults)	1	4.5	12	4.3
Zygoptera (adults)	1	4.5	12	5
Orthoptera				
Lepidopta (adults)	1	4.5	12	2.5
Formicida (adults)	1	4.5	12	3.7
Tricoptera (larvae)	2	9	25	2.5
Coleoptera	1	4.5	12	3.1
Dytiscidae	1	4.5	12	1.2
Ephemeroptera	1	4.5	12	0.6
Baetis (nymphs)	2	9	12	7.5
Hydracarina	7	31	12	3.7
Only volumetrically measured				
Insecta (unidentified)			50	28
Unidentified invertebrate eggs			25	22
Plant seed (unidentified)			25	10
Unidentified digested material				
Organic matter			12	1.2
Mineral sediment			12	0.6

Table 39. Food items and percent frequency of occurrence from Juvenile flannelmouth sucker stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Cryptochironomus sp.	3	0.3	1.7	0.1
Procladius sp.	7	0.9	5.1	0.7
Polypedilum sp.	6	0.7	5.1	1.8
Rheotanytarsis sp.	89	11	22	3.8
Paratanytarsis	35	4.5	10	1.5
Tanytarsis	50	6.5	5.1	1.3
Harnisha sp.	6	0.7	1.7	0.3
Chironomus	136	17	25	5.6
Unidentified	70	9.1	18	1.1
Pupae	11	1.4	8.6	0.8
Tipulldae	4	0.5	5.1	0.9
Ceratopogonidae (pupae)	12	1.5	8.6	1.4
Ceratopogonidae (larvae)	65	8.4	18.0	2.1
Nematoda	14	1.8	1.7	0.5
Hemiptera				
(corixidae)	2	0.2	3.4	0.2
Brachionus	8	1	3.4	0.1
Formicidae	1	0.1	1.7	0.1
Corydalus (pupae)	3	0.3	1.7	0.1
Eucopepoda	35	4.5	8.6	0.7
Cyclopoida	133	17	32	3.5
Cladocera	18	2.3	10	0.8
Eury lamellatus	23	2.9	12	0.7
Ostracoda	18	2.3	44	7.0
Cephalodella	6	0.7	1.7	0.1
Keratella	5	0.6	1.7	0.1
Monostyla	7	0.9	1.7	0.1
Trichocera	2	0.2	1.7	0.1

Table 39. Food items and percent frequency of occurrence from Juvenile flannelmouth sucker stomachs collected in 1988 from Green River backwaters - Continued

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Only volumetrically measured				
Insecta (unidentified)			6.8	1.1
Arthropoda (unidentified)			1.7	0.5
Bryozoa			3.4	0.3
Closterium			1.7	0.1
Plant seed (unidentified)			5.1	0.9
Unidentified digested material				
Organic matter			98	34
Mineral sediment			82	22
Diatoms			17	0.7
Unidentified invertebrate eggs			17	2.0

Table40.-Food items and percent frequency of occurrence from larval sand shiners stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Cryptochironomis sp.	1	0.4	3.1	0.3
Procladius sp.	1	0.4	3.1	0.5
Polypedilum sp.	8	3.7	12	2.6
Rheotanytarsis sp.	29	13	28	10
Paralauterborniella	1	0.4	3.1	0.1
Paratanytarsis sp.	1	0.4	3.1	0.1
Tanytarsis sp.	1	0.4	3.1	0.3
Near Nimbocera sp.	1	0.4	3.1	0.3
Chironomus	75	34	43	18
Unidentified	10	4.6	15	5.2
Pupae	4	1.8	6.2	3.1
Ephemeroptera (adults)	1	0.4	3.1	0.8
Monostyla	11	5.1	3.1	0.1
Cladocera	54	25	15.6	9.5
Ceratopogonidae (pupae)	1	0.4	3.1	0.6
Ceratopogonidae (larvae)	7	3.2	12	4
Crustacea (unidentifiable)	1	0.5	3.1	0.3
Eucopepoda	3	1.4	3.1	0.7
Cyclopoida	6	2.8	6.2	0.9
Only volumetrically measured				
Insecta (unidentified)			3.1	0.5
Eury Lamellatus			3.1	0.3
Plant seed (unidentified)			6.3	0.8
Unidentified digested material				
Organic matter			81.3	33.5
Mineral sediment			7.5	5.8
Filamentous algae			3.1	0.3
Closterium			3.1	1.2
Diatoms			3.1	0.1
Unidentified invertebrate eggs			3.1	1.7

Table 41. Food items and percent frequency of occurrence from Juvenile sand shiners stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Cricotopus	1	0.9	4.5	0.4
Crytochironomis sp.	1	0.9	4.5	0.1
Polypedilum sp.	3	2.8	9.0	0.6
Rheotanytarsis sp.	10	9.4	22	2.2
Eukiefferiella sp.	1	0.9	4.5	0.2
Paratanytarsis sp.	1	0.9	4.5	0.4
Tanytarsis sp.	2	1.9	4.5	0.4
Chironomus	18	17	22	4.3
Procladius	2	1.9	4.5	0.9
Unidentified	11	10.4	27	1.4
Pupae	7	6.6	22	4.5
Diptera (adults)	9	8.5	9.0	2.0
Coleoptera (adults)	6	5.7	13	4.7
Ceratopogonidae (larvae)	10	9.4	13	2.4
Scelionidae	1	0.9	4.5	0.6
Hydropsychidae	1	0.9	4.5	0.2
Hydroptilidae	1	0.9	4.5	0.1
Staphylinidae	3	2.8	4.5	1.3
Simulidae	2	1.9	9.0	0.9
Muscidae	10	9.4	4.5	3.8
Cladocera	6	5.7	4.5	0.2
Cephalodella	5	4.7	4.5	0.5
Only volumetrically measured				
Insecta (unidentified)			31	11
Ephemeroptera (nymphs)			4.5	2.2
Unidentified Dipterans				
Plant seed (unidentified)			31	12
Unidentified digested material				
Organic matter			77	31
Mineral sediment			18	0.3
Filamentous algae			4.5	0.9
Closterium			4.5	0.7
Diatoms			4.5	0.1
Invertebrate eggs			13.6	6.8

Table 42.Food items and percent frequency of occurrence from larval red shiners stomachs collected in 1988 from Green River backwaters will be appended

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Chironomid (adult)	3	0.4	0.6	0.6
Nanocladius sp.	1	0.1	0.6	0.1
Paratany sp.	1	0.1	0.6	0.1
Polypedilum sp.	6	0.9	2.7	0.6
Rheotanytarsis sp.	11	1.8	2.7	1.0
Chironomus	34	5.5	8.3	3.7
Tanytarsis sp.	1	0.1	0.6	0.3
Unidentified	18	2.9	4.1	1.9
Paratendipes sp.	2	0.3	0.6	0.1
Pupae	17	2.7	4.8	2.5
Unidentified diptera	4	0.6	3.4	1.4
Hymenoptera (pupae/adults)	5	0.8	2.0	0.8
Tipulid (larvae)	6	0.9	3.4	1.4
Ceratopogonid (pupae)	61	10	7.6	4.8
Ceratopogonid (larvae)	63	10	8.3	3.8
Coleoptera (adults)	14	2.2	5.5	1.8
Orthoptera	1	0.1	0.6	0
Tricoptera (larvae)	10	1.6	2.7	0.9
Eucopepoda	14	2.2	3.4	1.0
Cyclopoida	62	10	5.5	2.9
Cladocera	40	6.5	9.0	2.6
Eury Lamellatus	6	0.9	2.0	0.1
Rotifera	8	1.3	2.0	0.3
Brachionus	9	1.4	1.3	0.4
Hemiptera	3	0.4	1.3	0.6
Corixidae	3	0.4	0.6	0.5
Scelionidae	1	0.1	0.6	0.2
Formicidae	1	0.1	0.6	0.1
Ostracoda	5	0.8	1.3	0.4
Staphylinidae	6	0.9	0.6	0.3
Ephemeroptera (nymph)	2	0.3	0.6	0.2
Paratendipes sp.	2	0.3	0.6	0.1
Nematoda	41	6.7	3.4	1.4
Thysanoptera	2	0.3	0.6	0.1
	14			

Table 42. Food items and percent frequency of occurrence from larval red shiners stomachs collected in 1988 from Green River backwaters will be appended - Continued

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Only volumetrically measured				
Insecta (unidentified)			7.6	3.6
Bryozoa			0.6	0.1
Unidentified Dipterans			0.6	0.1
Colonial algae			10	3.9
Filamentous algae			1.3	0.2
Single-cell algae			7.6	5.6
Pedistrum			8.3	0.3
Desmid (unidentified)			2.7	0.8
Closterium			5.5	1.3
Diatoms			17	2.9
Invertebrate eggs			9.7	4.2
Plant seed (unidentified)			9.7	4.2
Unidentified digested material				
Organic matter			52	29
Mineral sediment			15	31
Kerratella	50	8.2	4.1	0.4
Monostyla	61	10	6.2	0.4
Trichocera	37	6.0	1.3	0.1

Table 43. Food items and percent frequency of occurrence from Juvenile red shiner stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera (unidentified)	55	8.5	11	5.6
Chironomidae Larvae				
Simulidae (pupae)	2	0.3	0.5	0.5
Ceratopogonid (pupae)	82	12	7.5	2.9
Ceratopogonid (larvae)	44	6.8	7.5	1.6
Paratanytarsis sp.	1	0.1	0.5	0.1
Polypedilum sp.	26	4.0	3.0	0.1
Rheotanytarsis sp.	19	2.9	3.5	0.9
Eukiefferiella sp.	4	0.6	0.5	0.1
Tanytarsis sp.	11	1.7	1.5	0.2
Paratendipes	3	0.4	0.5	0.2
Chironomus	104	16	15	79
Unidentified	7	1.0	2.5	0.3
Pupae	68	10	14	4.4
Hymenoptera (pupae/adults)	8	1.2	2.5	0.9
Coleoptera (adults)	51	7.9	14	5.6
Scelionidae	5	0.7	1.5	0.3
Tricoptera	20	3.1	6.0	2.2
Arachnida	1	0.1	0.5	0.1
Hemiptera (corixidae)	31	4.8	9	5.3
Insect (unidentified)	11	1.7	29	13
Osteichthyes (unidentified)	3	0.4	1.0	0.8
Notropis lutrensis	1	0.1	0.5	0.3
Ephremeptera	9	1.4	3.0	1.4
Formicidae	15	2.3	3.5	1.9
Hydropsychidae	1	0.1	0.5	0.1
Dytiscidae	3	0.4	1.0	0.6
Staphylinidae	14	2.1	1.5	0.6
Tipulidae (adult)	1	0.1	0.5	0.2
Tipulidae (larvae)	11	1.7	3.0	1.8
Muscidae (larvae)	5	0.7	1.5	0.2

Table 43.Food items and percent frequency of occurrence from Juvenile red shiner stomachs collected in 1988 from Green River backwaters - Continued

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Only volumetrically measured				
Bryozoa			1	0.8
Filamentous algae			3.5	0.2
Diatoms			1	0.1
Vascular plants			1	0.4
Ostracoda			0.5	0.1
Hydracarina	3	0.4	1.0	0.1
Cyclopoida	11	1.7	1.0	0.4
Eurycercus lamellatus	4	0.6	0.5	0.1
Plant seed (unidentified)			10	5.7
Unidentified digested material				
Organic matter			45	20
Mineral sediment			14	3.2
Arthropoda			0.5	0.3
Hemiptera (unidentified)			1	0.1
Ephemoptera (adult)			1	0.8
Invertebrate eggs			4.5	2.7

Table 44. Food items and percent frequency of occurrence from larval *Gila* sp. stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Polypedilum sp.	3	25	20	8
Chironomus	5	41	20	1
Unidentified	2	16	20	0.4
Hymenoptera/Formicidae (pupae/adults)	1	8.3	20	0.4
Coleoptera (adults)	1	8.3	20	2
Only volumetrically measured				
Insecta			40	36
Unidentified Dipterans			20	10
Ephemeroptera			20	4
Ceratopogonid (pupae)			20	1
Chironomid (pupae)			20	0.4
Invertebrate eggs			40	28
Unidentified digested material Organic matter			60	8.8

Table45. Food items and percent frequency of occurrence from larval *Gila* sp. stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Crytochironomis sp.	2	1	2	1
Rheotanytarsis sp.	21	14	7	3.0
Chironomus	88	60	29	20.1
Unidentified	1	1	2	0.1
Pupae	15	10	7	3.2
Tipulidae (larvae)	1	1	2	2.4
Hymenoptera (pupae/adults)	1	1	2	0.2
Coleoptera (adults)	1	1	2	0.2
Orthoptera	3	2	2	0.5
Plecoptera (nymphs)	2	1	2	0.1
Anisoptera (nymphs)	2	1	2	0.2
Hydracarina	1	1	2	0.1
Osteichthyes (unidentified)	3	2	5	2.2
Notropis lutrensis	5	3.0	5.0	2.4
Only volumetrically measured				
Hymenoptera			2	0.7
Formicidae			2	0.6
Insect (unidentified)			35	26
Unidentified Dipterans			10	3.3
Corixidae			12	5.4
Ephemeroptera (adult)			7	7.3
Ephemeroptera (nymph)			2	0.6
Ceratopogonid (pupae)			10	2.6
Ostracoda			2	0.7
Diatom			2	0.4
Invertebrate eggs			5	7.1
Plant seed (unidentified)			14	7.1
Unidentified digested material				
Organic matter			21	5.2
Mineral sediment			7	1.2

Table 46. Food items and percent frequency of occurrence from larval fathead minnows stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Paracladopelma sp.	8	2.7	4.8	1.2
Polypedilum sp.	4	1.3	4.8	0.7
Rheotanytarsis sp.	35	12	14	4.2
Tanytarsis sp.	1	0.3	2.4	0.4
Procladius sp.	2	0.6	2.4	0.9
Chironomus	18	6.2	17	4.8
Unidentified	7	2.4	7.3	1.3
Pupae	1	0.3	2.4	0.8
Unidentified diptera	1	0.3	2.4	0.2
Trichocera	15	5.2	2.4	0.9
Eucopepoda	23	8	9.7	1.4
Cyclopoida	106	36	14	8.2
Cladocera	23	8.0	14	2.6
Eurycercus lamellatus	29	10	12	4.1
Keratella	14	4.8	2.4	0.2
Only volumetrically measured				
Insecta (unidentified)			4.8	0.3
Ostracoda			2.4	0.4
Plant seed (unidentified)			2.7	0.3
Unidentified digested material				
Organic matter			97	33
Mineral sediment			73	29
Filamentous algae			2.4	0.4
Closterium			7.3	0.1
Diatoms			12	0.1
Invertebrate eggs			9.7	1.7

Table 47. Food items and percent frequency of occurrence from Juvenile fathead minnows stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Polypedilum sp.	7	2.1	3.1	0.5
Rheotanytarsis sp.	48	14	5.5	0.9
Endochronomis sp.	6	1.8	0.6	0.1
Chironomus	151	46	16	5.3
Pupae	9	2.7	1.8	0.7
Ceratopoganidae (pupae)	1	0.3	0.6	0.1
Coleoptera (adults)	1	0.3	0.6	0.1
Tricoptera (larvae)	1	0.3	0.6	0.1
Vertebrate embryos	4	1.2	1.2	0.1
Eucopepoda	14	4.2	1.2	0.1
Cyclopoida	36	11	1.8	0.5
Eurycerus lamelletus	8	2.4	1.2	0.1
Ostracoda	19	5.8	1.8	0.4
Elmidae	1	0.3	0.6	0.1
Ephemeroptera	1	0.3	0.6	0.1
Ceratopogonidae (larvae)	20	6.1	3.1	0.8
Only volumetrically measured				
Insecta (unidentified)			7.4	1.4
Chironomidae (larvae)			3.1	0.2
Bryozoa			4.9	0.7
Filamentous algae			6.2	0.5
Plant seed (unidentified)			4.9	1.3
Unidentified digested material				
Organic matter			95	51
Mineral sediment			81	30
Desmids			1.2	0.1
Closterium			16	1.0
Diatoms			18	0.5
Vasular plant matter			6.8	0.9
Invertebrate eggs			9.3	1.5

Table 48. Food items and percent frequency of occurrence from Juvenile carp stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Polypedilum sp.	17	5.2	5.5	2.2
Rheotanytarsis sp.	3	0.9	5.5	0.5
Chironomus	238	73	66	36
Unidentified	14	4.3	22	3.2
Chironomidae (pupae)	1	0.3	5.5	0.2
Ceratopogonid (larvae)	21	6.5	11	5.6
Tipulidae (larvae)	6	1.8	16	1.9
Coleoptera (adults)	8	2.4	11	1.9
Plecoptera (nymphs)	4	1.2	5.5	0.8
Hemptera	2	0.6	5.5	0.2
Gut parasites	3	0.9	5.5	2.7
Cyclopoida	6	1.8	5.5	0.1
Total	323	100 percent		
Only volumetrically measured				
Insecta (unidentified)			11	3.0
Ephemeroptera (nymph)			5.5	1.3
Plant seed (unidentified)			5.5	5.5
Unidentified digested material				
Organic matter			72	28
Mineral sediment			22	1.6
Invertebrate eggs			5.5	1.6
Eucopepoda			11	2.5

Table49. Food items and percent frequency of occurrence from Juvenile green sunfish stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Polypedilum sp.	3	2.2	8.3	2.5
Rheotanytarsis sp.	2	1.4	8.3	0.4
Tanytarsis sp.	9	6.6	16	4.1
Chironomus	85	62	83	39
Unidentified (larvae)	3	2.2	8.3	0.8
Pupae (unidentified)	3	2.2	8.3	2.9
Unidentified diptera	4	2.9	8.3	3.7
Hymenoptera (adults)	2	1.5	8.3	2.5
Formicidae				
Tipulidae (larvae)	1	0.7	8.5	1.2
Zygoptera	1	0.7	8.3	4.1
Cyclopoida	20	14	25	2.5
Cladocera	2	1.4	8.3	0.4
Total	135	100 percent		
Only volumetrically measured				
Insecta (unidentified)			25	5.4
Corixidae			41	15
Ostracoda			8.3	2.5
Unidentified digested material				
Organic matter			50	12

Table 50.Food items and percent frequency of occurrence from Juvenile channel catfish stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Polypedilum sp.	10	2.3	5.4	0.6
Rheotanytarsis sp.	17	4.0	10	2.5
Beckidia sp.	4	0.9	2.7	0.1
Paralauterborniella sp.	4	0.9	2.7	0.2
Chironomus	212	50	62	26
Unidentified	26	62	8.1	2.0
Tipulid	1	0.2	2.7	0.2
Unidentified diptera	4	0.9	10	6.2
Coleoptera (adults)	1	0.2	2.7	0.2
Tricoptera (larvae)	4	0.9	8.1	3.3
Simulidae (larvae)	3	0.7	8.1	1.6
Ephoron sp.	6	1.4	5.4	0.5
Oligoneuriidae sp.	5	1.1	2.7	0.4
Ceratopogonidae (pupae)	7	1.6	2.7	0.6
Ceratopogonidae (larvae)	44	10	32	5.1
Hemiptera	1	0.2	2.7	0.1
Tricorythodes	8	1.9	5.4	1.1
Oligocheate	21	5.0	2.7	1.1
Baetis sp.	2	0.4	2.7	0.1
Hydropsychidae	8	1.9	5.4	0.5
Limnephilidae	17	4.0	8.1	2.3
Brachycentridae	2	0.4	2.7	0.4
Elimidae	1	0.2	2.7	0.1
Dytiscidae	1	0.2	2.7	0.1
Only volumetrically measured				
Zygoptera (adults)			2.7	2.6
Insecta (unidentified)			32	11
Corixidae			10	5.6
Plant seed (unidentified)			10	1.0
Unidentified digested material				
Organic matter			51	15.1
Mineral sediment			5.4	0.6

Table 51. Food items and percent frequency of occurrence from Juvenile white sucker stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Nanocladius	2	7.1	16	1.6
Chironomus	14	50	50	6.6
Unidentified	3	10	16	1.6
Unidentified (pupae)	2	3.5	33	2.8
Trichoptera (larvae)	1	3.5	16	0.8
Ephemeroptera (nymphs)	1	3.5	16	0.3
Gut parasite (1b)	3	10	16	4.1
Cladoceran	3	10	33	7.5
Total	28	100 percent		
Only volumetrically measured				
Ostracoda			83	15
Unidentified digested material				
Organic matter			83	32
Mineral sediment			66	21

Table 52. Food items and percent frequency of occurrence from Juvenile bluehead suckers stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Rheotanytarsis sp.	4	4.5	5.1	0.2
Chironomus sp.	47	53	7.6	3.5
Eucopepoda	15	17	7.6	0.4
Cyclopoida	13	14	5.1	0.5
Cladocera	8	9	2.5	0.5
Trichocera	1	1.1	0.1	0.1
Only volumetrically measured				
Invertebrate eggs			10	1.5
Unidentified Dipterans				
Plant seed (unidentified)			2.5	0.5
Unidentified digested material				
Organic matter			94	54
Mineral sediment			87	23
Monostyla			2.5	0.2
Singular algae			7.6	1.2
Colonial algae			5.1	0.2
Filamentous algae			17	2.9
Closterium			20	0.8
Diatoms			46	9.2

Table 53. Food items and percent frequency of occurrence from larval bluehead suckers stomachs collected in 1988 from Green River backwaters

	Total number counted	Percent of total	Percent frequency occurrence	Average percent by volume
Diptera				
Chironomidae				
Larvae				
Beckidia	4	56	14	4.2
Unidentified	1	14	14	0.7
Ceretopogonid (larvae)	1	14	14	1.4
Coleoptera (adults)	1	14	14	7.1
Orthoptera				
		Total 100 percent		
Only volumetrically measured				
Brachionus sp.			14	14
Unidentified digested material				
Organic matter			100	62
Mineral sediment			57	21
Closterium			28	0.2
Diatoms			42	0.8
				Total 100 percent