Upper Peace River
An Analysis of Minimum Flows and Levels
Volume 2: Technical Appendices

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DRAFT - Volume 2: Technical Appendices

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An Analysis of Minimum Flows and Levels
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Technical Appendices

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APPENDIX FD

Fish Data - FD

This appendix contains a number of different figures and tables related to fish abundance and fish passage in the upper Peace River. A fish species list compiled from FFWCC data was prepared for reference. Several pie diagrams with accompanying tables are presented that summarize the relative abundance of different fish species at three upstream sites sampled by the FFWCC. A table for converting fish lengths to fish depths for the most common fish species encountered on the upper Peace River was generated.

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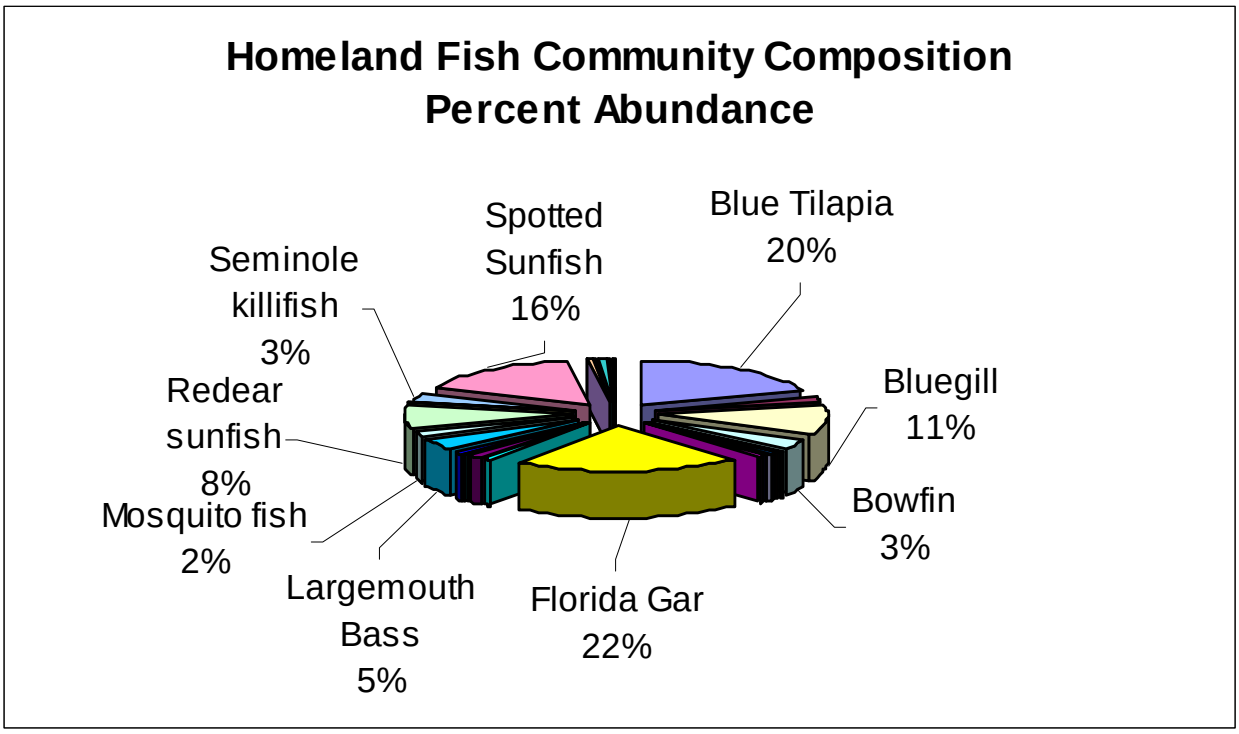
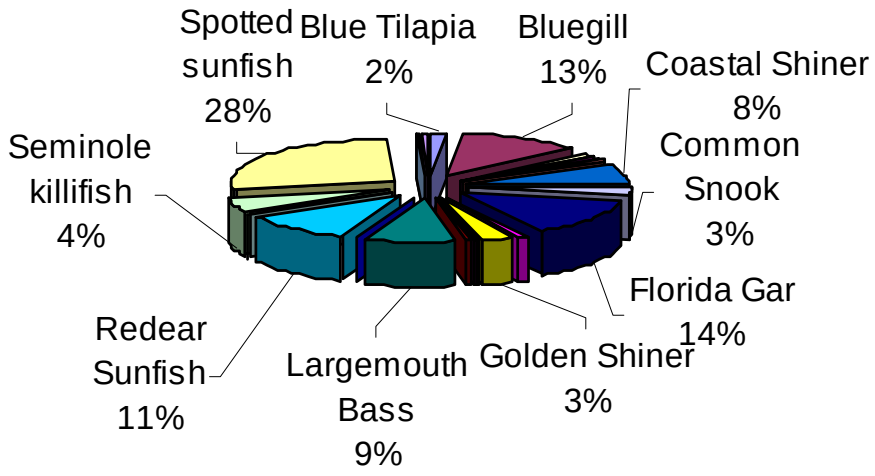
Fish species found at upper Peace River sampling sites with percent abundance based on all samples collected at that site. Species list includes all species found by FFWCC at all sites on Peace River.

Common name	Scientific name	Code	Homeland % Abundance	Ft. Meade % Abundance	Wauchula % Abundance
Florida gar	*Lepisosteus platyrhincus*	FGAR	22.01	13.79	14.77
Blue tilapia	*Tilapia aurea*	BETI	20.09	1.57	5.54
Spotted sunfish	*Lepomis punctatus*	SPSU	16.15	27.50	16.95
Bluegill	*Lepomis macrochirus*	BLUE	11.11	12.58	13.48
Redear sunfish	*Lepomis microlophus*	RESU	8.40	11.11	6.92
Largemouth bass	*Micropterus salmoides*	LMB	4.72	8.74	12.90
Bowfin	*Amia calva*	BOW	3.05	1.07	0.96
Seminole killifish	*Fundulus seminolis*	SEKI	2.70	4.27	3.68
Eastern mosquitofish	*Gambusia holbrooki*	MOSQ	1.63	0.13	0.21
Black crappie	*Pomoxis nigromaculatus*	BLCR	1.34		0.04
Golden shiner	*Notemigonus crysoleucas*	GOSH	1.32	2.94	0.12
Gizzard shad	*Dorosoma cepedianum*	GISH	0.97	1.07	0.03
Sailfin molly	*Poecilia latipinna*	SAMO	0.74	0.30	0.06
Warmouth	*Lepomis gulosus*	WAR	0.63	0.30	0.50
Threadfin shad	*Dorosoma petenense*	THSH	0.58		0.02
Coastal shiner	*Notropis petersoni*	COSH	0.56	7.68	4.62
Brown bullhead	*Ameiurus nebulosus*	BRBU	0.52	0.17	0.46
Lake chubsucker	*Erimyzon sucetta*	LACH	0.52	0.30	1.48
Longnose gar	*Lepisosteus osseus*	LGAR	0.49	0.53	1.69
Channel catfish	*Ictalurus punctatus*	CHCA	0.44	0.77	2.61
Brook silverside	*Labidesthes sicculus*	BRSI	0.41	0.73	1.56
White catfish	*Ameiurus catus*	WHCA	0.38	0.50	0.51
Dollar sunfish	*Lepomis marginatus*	DOSU	0.38		0.17
Walking catfish	*Clarias batrachus*	WACA	0.30		0.43
Yellow bullhead	*Ameiurus natalis*	YEBU	0.26		0.09
Hogchoker	*Trinectes maculatus*	HOG	0.24	0.37	2.50
Common snook	*Centropomus undecimalis*	COSN	0.06	3.40	2.66
Taillight shiner	*Notropis maculatus*	TASH	0.02		
Striped mullet	*Mugil cephalus*	STMU		0.17	4.41
Atlantic needlefish	*Strongylura marina*	ATNE			0.22
American eel	*Anguilla rostrata*	AMEE			0.16
Tidewater silverside	*Menidia peninsulae*	TISI			0.13
Bluefin killifish	*Lucania goodei*	BLKI			0.06
Pirate perch	*Aphredoderus sayanus*	PIPE			0.06
Suckermouth catfish	*Hypostomus plecostomus*	SUCA			0.02
Tadpole madtom	*Noturus gyrinus*	TAMA			0.02
Swamp darter	*Etheostoma fusiforme*	SWDA			0.02
Freshwater goby	*Gobionellus shufeldti*	FWGO			
Golden topminnow	*Fundulus chrysotus*	GOTO			
Grass carp	*Ctenopharyngodon idella*	GRCA			
Menhaden	*Brevoortia sp.*	MEN			
Yellowfin mojarra	*Gerres cinereus*	YEMO			

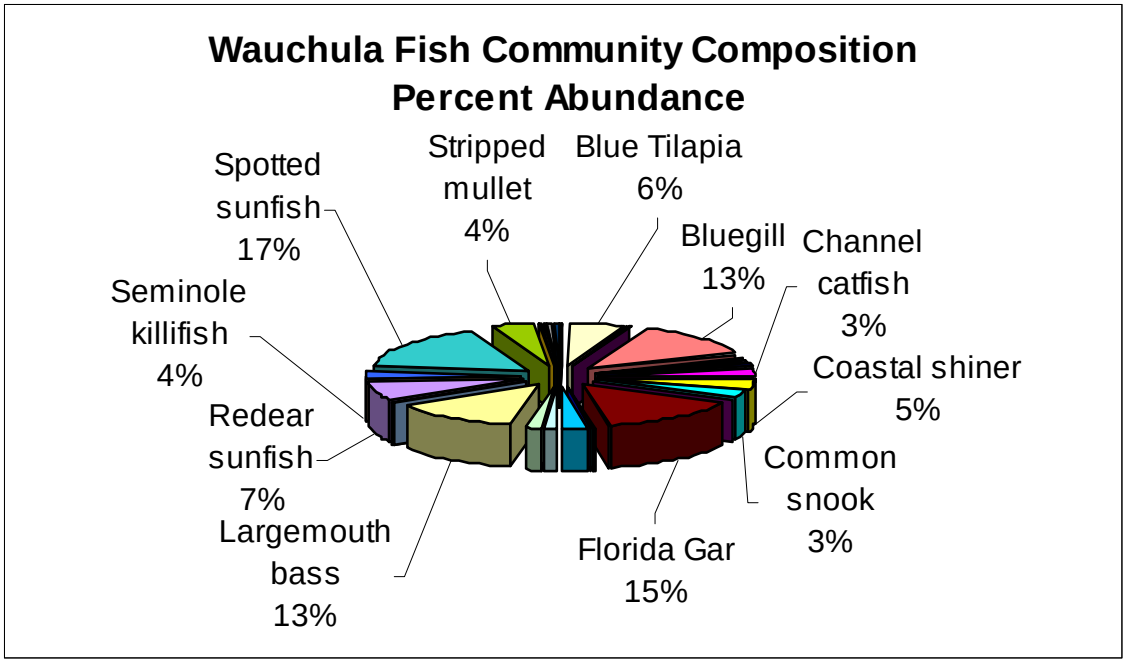


Common name	Scientific name	Homeland % Abundance
Florida gar	*Lepisosteus platyrhincus*	22.01
Blue tilapia	*Tilapia aurea*	20.09
Spotted sunfish	*Lepomis punctatus*	16.15
Bluegill	*Lepomis macrochirus*	11.11
Redear sunfish	*Lepomis microlophus*	8.40
Largemouth bass	*Micropterus salmoides*	4.72
Bowfin	*Amia calva*	3.05
Seminole killifish	*Fundulus seminolis*	2.70
Eastern mosquitofish	*Gambusia holbrooki*	1.63
Black crappie	*Pomoxis nigromaculatus*	1.34
Golden shiner	*Notemigonus crysoleucas*	1.32
Gizzard shad	*Dorosoma cepedianum*	0.97
Sailfin molly	*Poecilia latipinna*	0.74
Warmouth	*Lepomis gulosus*	0.63
Threadfin shad	*Dorosoma petenense*	0.58
Coastal shiner	*Notropis petersoni*	0.56
Brown bullhead	*Ameiurus nebulosus*	0.52
Lake chubsucker	*Erimyzon sucetta*	0.52
Longnose gar	*Lepisosteus osseus*	0.49
Channel catfish	*Ictalurus punctatus*	0.44
Brook silverside	*Labidesthes sicculus*	0.41
White catfish	*Ameiurus catus*	0.38
Dollar sunfish	*Lepomis marginatus*	0.38
Walking catfish	*Clarias batrachus*	0.30
Yellow bullhead	*Ameiurus natalis*	0.26
Hogchoker	*Trinectes maculatus*	0.24
Common snook	*Centropomus undecimalis*	0.06
Taillight shiner	*Notropis maculatus*	0.02

Ft. Meade Fish Community Composition
Percent Abundance



Common name	Scientific name	Ft. Meade % Abundance
Spotted sunfish	*Lepomis punctatus*	27.50
Florida gar	*Lepisosteus platyrhincus*	13.79
Bluegill	*Lepomis macrochirus*	12.58
Redear sunfish	*Lepomis microlophus*	11.11
Largemouth bass	*Micropterus salmoides*	8.74
Coastal shiner	*Notropis petersoni*	7.68
Seminole killifish	*Fundulus seminolis*	4.27
Common snook	*Centropomus undecimalis*	3.40
Golden shiner	*Notemigonus crysoleucas*	2.94
Blue tilapia	*Tilapia aurea*	1.57
Bowfin	*Amia calva*	1.07
Gizzard shad	*Dorosoma cepedianum*	1.07
Channel catfish	*Ictalurus punctatus*	0.77
Brook silverside	*Labidesthes sicculus*	0.73
Longnose gar	*Lepisosteus osseus*	0.53
White catfish	*Ameiurus catus*	0.50
Hogchoker	*Trinectes maculatus*	0.37
Sailfin molly	*Poecilia latipinna*	0.30
Warmouth	*Lepomis gulosus*	0.30
Lake chubsucker	*Erimyzon sucetta*	0.30
Brown bullhead	*Ameiurus nebulosus*	0.17
Striped mullet	*Mugil cephalus*	0.17
Eastern mosquitofish	*Gambusia holbrooki*	0.13



Common name	Scientific name	Wauchula % Abundance
Spotted sunfish	*Lepomis punctatus*	16.95
Florida gar	*Lepisosteus platyrhincus*	14.77
Bluegill	*Lepomis macrochirus*	13.48
Largemouth bass	*Micropterus salmoides*	12.90
Redear sunfish	*Lepomis microlophus*	6.92
Blue tilapia	*Tilapia aurea*	5.54
Coastal shiner	*Notropis petersoni*	4.62
Striped mullet	*Mugil cephalus*	4.41
Seminole killifish	*Fundulus seminolis*	3.68
Common snook	*Centropomus undecimalis*	2.66
Channel catfish	*Ictalurus punctatus*	2.61
Hogchoker	*Trinectes maculatus*	2.50
Longnose gar	*Lepisosteus osseus*	1.69
Brook silverside	*Labidesthes sicculus*	1.56
Lake chubsucker	*Erimyzon sucetta*	1.48
Bowfin	*Amia calva*	0.96
White catfish	*Ameiurus catus*	0.51
Warmouth	*Lepomis gulosus*	0.50
Brown bullhead	*Ameiurus nebulosus*	0.46
Walking catfish	*Clarias batrachus*	0.43
Atlantic needlefish	*Strongylura marina*	0.22
Eastern mosquitofish	*Gambusia holbrooki*	0.21
Dollar sunfish	*Lepomis marginatus*	0.17
American eel	*Anguilla rostrata*	0.16
Tidewater silverside	*Menidia peninsulae*	0.13
Golden shiner	*Notemigonus crysoleucas*	0.12
Yellow bullhead	*Ameiurus natalis*	0.09
Bluefin killifish	*Lucania goodei*	0.06
Sailfin molly	*Poecilia latipinna*	0.06
Pirate perch	*Aphredoderus sayanus*	0.06
Black crappie	*Pomoxis nigromaculatus*	0.04
Gizzard shad	*Dorosoma cepedianum*	0.03
Suckermouth catfish	*Hypostomus plecostomus*	0.02
Tadpole madtom	*Noturus gyrinus*	0.02
Threadfin shad	*Dorosoma petenense*	0.02
Swamp darter	*Etheostoma fusiforme*	0.02

Conversion of fish lengths to fish depths by development of length to depth ratios using published lengths for selected species.

Fish Species Common Names	Max of R (mm)	Max Rpt L (mm)	HC Max L (mm)	Ratio	Max of R Depth (mm)	Max of R Depth (inches)	Max Rpt L Depth (mm)	Max Rpt L Depth (inches)	Hoyer Max Depth (mm)	Hoyer Max Depth (inches)
Florida Gar	860	1331	880	7.8	110.8	4.4	171.4	6.7	113.3	4.5
Blue Tilapia	200	508		2.8	71.4	2.8	181.4	7.1		
Spotted Sunfish	140	200	200	2.5	55.4	2.2	79.1	3.1	79.1	3.1
Bluegill	203	405	320	2.4	85.2	3.4	169.9	6.7	134.2	5.3
Redear Sunfish	250		440	2.5	101.1	4.0			177.9	7.0
Largemouth Bass	700		720	3.6	194.9	7.7			200.4	7.9
Bowfin	610	870	720	5.7	106.7	4.2	152.2	6.0	125.9	5.0
Channel Catfish	1270			5.4	234.5	9.2				
Common Snook	1000	1400		5.1	196.4	7.7	275.0	10.8		
Stipped Mullet	350			4.5	78.4	3.1				
Armoured Catfish	415	600		6.7	62.3	2.5	90.0	3.5		
Black Crappie	420		400	2.9	145.7	5.7			138.8	5.5

Max of R = maximum length for the range of lengths of adult fish reported by Lee et al. (1980)
Max Rpt L = maximum reported length given by Lee et al. (1980)
HC Max L = maximum length reported by Hoyer and Canfield (1994)
Ratio = ratio of length to depth based on mean of 3 or 4 sources
Max of R Depth = body depth computed from Max of R
Max Rpt L Depth = body depth computed from Max Rpt L
HC Max D = body depth computed from HC

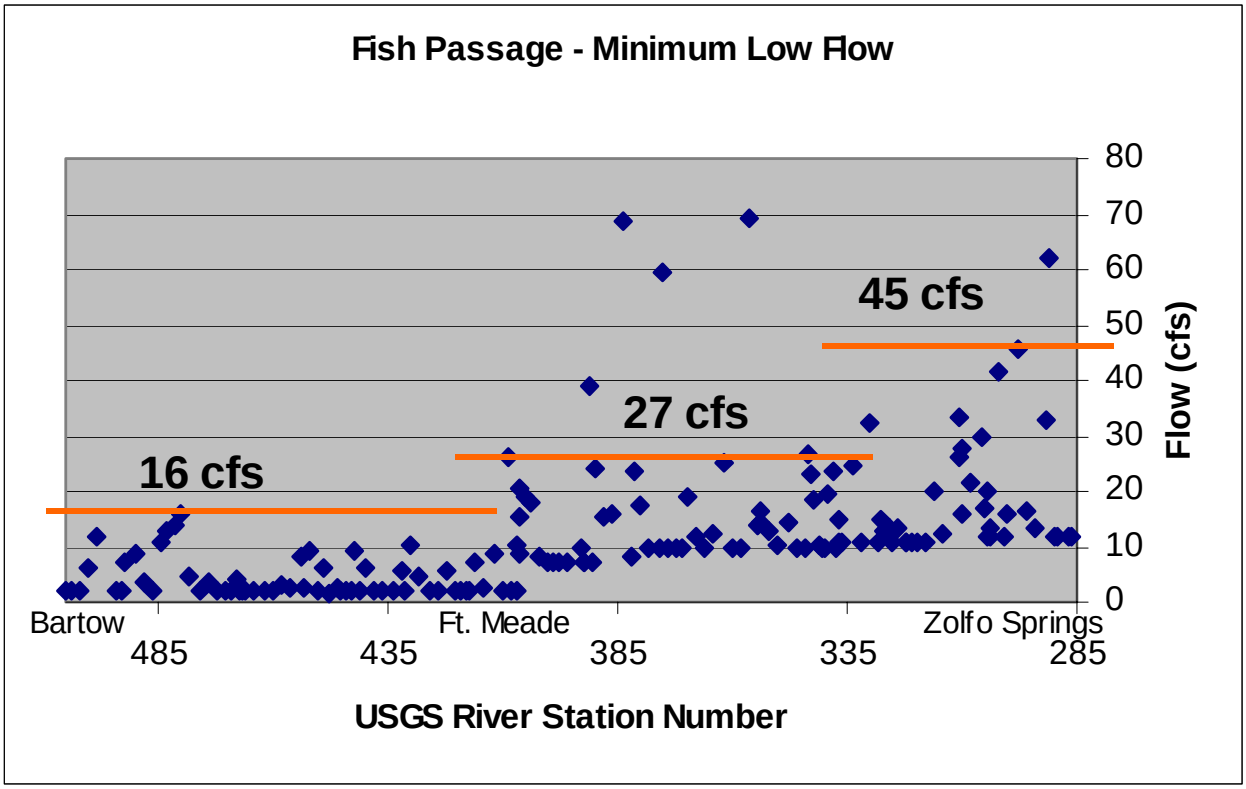
Sources:

Florida Game and Fresh Water Fish Commission. no date. Florida's Freshwater Fishes.
[a wall poster of 23 common freshwater fish species]

Harlan, J. and E. Speaker. 1956. Iowa Fish and Fishing. Iowa State Conservation Commission. State of Iowa. 377 pp.

Hoyer, M and D. Canfield, Jr. 1994. Handbook of Common Freshwater Fish in Florida Lakes. Florida Cooperative Extension Service. Institute of Food and Agricultural Sciences. SP 160. University of Floirda. 178 pp.

Lee, D., C. Gilbert, C. Hocutt, R. Jenkins, D. McAllister, J. Stauffer, Jr. 1980. Atlas of North American Freshwater Fishes. Publication #1980-12 North Carolina Biological Survey, North Carolina State Museum of Natural History. 854 pp.


Fish Passage - Minimum Low Flow
80
70
60
50
40
30
20
10
0
Flow (cfs)
45 cfs
27 cfs
16 cfs
Bartow
Ft. Meade
Zolfo Springs
485
435
385
335
285
USGS River Station Number

Appendix NWI

National Wetland Inventory - NWI

National Wetland Inventory classification codes.
(From Carter, F. Golet, and E. LaRoe. 1979. Classification of wetlands and deepwater habitats of the United States. U.S. Fish Wildlife Service. 103 pp.)

M-Marine
1. Subtidal
RB-Rock
1. Bedrock
2. Rubble
UB-Unconsolidated Bottom
1. Cobble Gravel
2. Sand
3. Mud
4. Organic
AB-Aquatic Bed
1. Algal
3. Rooted Vascular
5. Unknown Submergent
RF-Reef
1. Coral
3. Worm
OW-Open Water/Unknown Bottom
2. Intertidal
AB-Aquatic Bed
1. Algal
3. Rooted Vascular
5. Unknown Submergent
RF-Reef
1. Coral
2. Worm
RS-Rocky Shore
1. Coral
3. Worm
US-Unconsolidated Shore
1. Cobble Gravel
2. Sand
3. Mud
4. Organic
E-Estuarine
1. Subtidal
RB-Rock Bottom

1. Bedrock
2. Rubble

UB-Unconsolidated Bottom
1. Cobble Gravel
2. Sand
3. Mud
4. Organic

AB-Aquatic Bed
1. Algal
3. Rooted Vascular
4. Floating Vascular
5. Unknown Submergent
6. Unknown Surface

RF-Reef
2. Mollusc
3. Worm

OW-Open Water/Unknown Bottom

2. Intertidal

AB-Aquatic Bed
1. Algal
3. Rooted Vascular
4. Floating Vascular
5. Unknown Submergent
6. Unknown Surface

RF-Reef
2. Mollusc
3. Worm

SB-Streambed
1. Cobble-Gravel
2. Sand
3. Mud
4. Organic

RS-Rocky Shore
1. Bedrock
2. Rubble

US-Unconsolidated Shore
1. Cobble-Gravel
2. Sand
3. Mud
4. Organic

EM-Emergent
1. Persistent
2. Nonpersistent

SS-Scrub-Shrub
1. Broad Leaved Deciduous
2. Needle-Leaved Deciduous
3. Broad-Leaved Evergreen

4. Needle-Leaved Evergreen
5. Dead
6. Deciduous
7. Evergreen

FO-Forested
1. Broad Leaved Deciduous
2. Needle-Leaved Deciduous
3. Broad-Leaved Evergreen
4. Needle-Leaved Evergreen
5. Dead
6. Deciduous
7. Evergreen

R-Riverine
1. Tidal
2. Lower Perennial
3. Upper Perennial
4. Intermittent
5. Unknown Perennial

RB-Rock
1. Bedrock
2. Rubble

UB-Unconsolidated Bottom
1. Cobble-Gravel
2. Sand
3. Mud
4. Organic

SB-Streambed
1. Bedrock
2. Rubble
3. Cobble-Gravel
4. Sand
5. Mud
6. Organic
7. Vegetated

AB-Aquatic Bed
1. Algal
2. Aquatic Moss
3. Rooted Vascular
4. Floating Vascular
5. Unknown Submergent
6. Unknown Surface

RS-Rocky Shore
1. Bedrock
2. Rubble

US-Unconsolidated Shore
1. Cobble-Gravel
2. Sand

3. Mud
4. Organic
5. Vegetated

EM-Emergent
2. Nonpersistent

OW-Open Water/Unknown Bottom

L- Lacustrine

1. Limnetic

RB-Rock Bottom
1. Bedrock
2. Rubble

UB-Unconsolidated Bottom
1. Cobble-Gravel
2. Sand
3. Mud
4. Organic

AB-Aquatic Bed
1. Algal
2. Aquatic Moss
3. Rooted Vascular
4. Floating Vascular
5. Unknown Submergent
6. Unknown Surface

OW-Open Water/Unknown Bottom

2-Littoral

RB-Rock Bottom
1. Bedrock
2. Rubble

UB-Unconsolidated Bottom
1. Cobble-Gravel
2. Sand
3. Mud
4. Organic

AB-Aquatic Bed
1. Algal
2. Aquatic Moss
3. Rooted Vascular
4. Floating Vascular
5. Unknown Submergent
6. Unknown Surface

RS-Rocky Shore
1. Bedrock
2. Rubble

US-Unconsolidated Shore
1. Cobble-Gravel
2. Sand
3. Mud

4. Organic
5. Vegetated

EM-Emergent
2. Nonpersistent

OW-Open Water/Unknown Bottom

P-Palustrine

RB-Rock Bottom
1. Bedrock
2. Rubble

UB-Unconsolidated Bottom
1. Cobble-Gravel
2. Sand
3. Mud
4. Organic

AB-Aquatic Bed
1. Algal
2. Aquatic Moss
3. Rooted Vascular
4. Floating Vascular
5. Unknown Submergent
6. Unknown Surface

US-Unconsolidated Shore
1. Cobble-Gravel
2. Sand
3. Mud
4. Organic
5. Vegetated

ML-Moss-Lichen
1. Moss
2. Lichen

EM-Emergent
1. Persistent
2. Nonpersistent

SS-Scrub-Shrub
1. Broad-Leaved Deciduous
2. Needle-Leaved Deciduous
3. Broad-Leaved Evergreen
4. Needle-Leaved Evergreen
5. Dead
6. Deciduous
7. Evergreen

FO-Forested
1. Broad-Leaved Deciduous
2. Needle-Leaved Deciduous
3. Broad-Leaved Evergreen
4. Needle-Leaved Evergreen
5. Dead

6. Deciduous
7. Evergreen

OW-Open Water/Unknown Bottom

Modifiers

Water Regime

Non-Tidal

A Temporary Flooded
B Saturated
C Seasonally Flooded
D Seasonally Flooded/Well Drained
E Seasonally Flooded/Saturated
F Semipermanently Flooded
G Intermittently Exposed
H Permanently Flooded
J Intermittently Flooded
K Artificially Flooded
W Intermittently Flooded/Temporary
Y Saturated Semipermanent/Seasonal
Z Intermittently Exposed/Permanent
U Unknown

Tidal

K Artificially Flooded
L Subtidal
M Irregularly Exposed
N Regularly Flooded
P Irregularly Flooded
S Temporary-Tidal
R Seasonal-Tidal
T Semipermanent-Tidal
V Permanent-Tidal
U Unknown

Water Chemistry

Coastal Halinity

1. Hyperhaline
2. Euhaline
3. Mixohaline (Brackish)
4. Polyhaline
5. Mesohaline
6. Oligohaline
0. Fresh

Inland Salinity

7. Hypersaline
8. Eusaline
9. Mixosaline
0. Fresh

pH Modifers for all Fresh Water

a Acid

t Circumneutral
l Alkaline

Soil

g Organic
n Mineral

Special Modifiers

b Beaver
d Parially Drained/Ditched
f Farmed
h Diked/Impounded
r Artificial Substrate
s Spoil
x Excavated

APPENDIX IH

Instream Habitats - IH

This appendix contains a number of different figures and tables related to instream habitat analyses in the Upper Peace River. Surveyed cross-sections of all study sites in the Upper Peace River including floodplain and replicate instream channel transects. List of plant species distinguished between herbaceous, scrub and tree categories encountered within the bank confines of the river. General occurrence of these plants as to banktop, shoreline, riverbank and channel distribution are also noted. List of macroinvertebrates found in the main channel near habitat study sites of the Upper Peace River; data from Lanquist (1953) and Farrell and Billets (1987). Elevational distribution of instream habitats per site superimposed over center channel profile. Total and longest consecutive number of days of inundation per year at the mean elevation of exposed root and snag habitats found in each site.

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Survey cross-section profile - Site 134	IH-11
Survey cross-section profile - Site 119	IH-12
Survey cross-section profile - Site 106	IH-13
Survey cross-section profile - Site 99	IH-14
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Survey cross-section profile - Site 83	IH-16
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Instream Habitats - Bartow to Ft. Meade

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Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 181 IH-53
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 178 IH-54
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 161 IH-55
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 150 IH-56
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 146 IH-57
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 143 IH-58
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 134 IH-59
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 119 IH-60

Instream Habitats - Ft. Meade to Zolfo Springs

Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 106 IH-61
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 99 IH-62
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 91 IH-63
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 83 IH-64
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 79 IH-65
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 52 IH-66
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 49 IH-67
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 48 IH-68
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 33 IH-69
Total and longest consecutive number of days of inundation at the mean elevation of exposed root habitats - Site 15 IH-70

Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 106 IH-71
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 91 IH-72
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 83 IH-73
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 79 IH-74
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 52 IH-75
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 33 IH-76
Total and longest consecutive number of days of inundation at the mean elevation of snag habitat - Site 15 IH-77

Draft as of 7/5/02

IH-5

LEGEND

CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

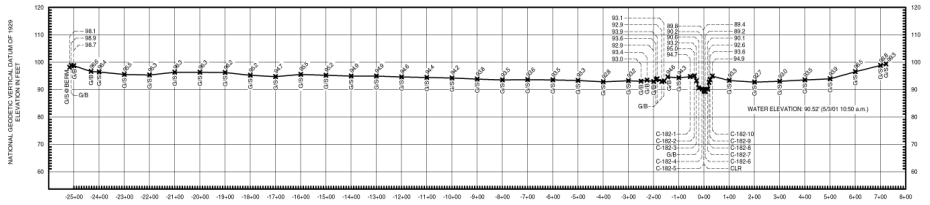
TOWNSHIP 29 SOUTH, RANGE 25 EAST

SECTION 33

LINE #181

TRANSECT C-181

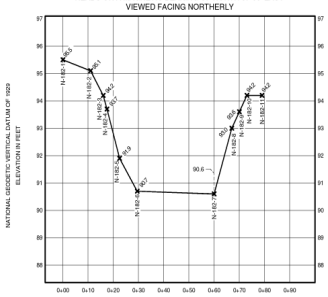
HEADS ON A MAGNETIC BEARING OF SOUTH 87°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=200' VERTICAL SCALE: 1"=20'

CROSS SECTION N-181

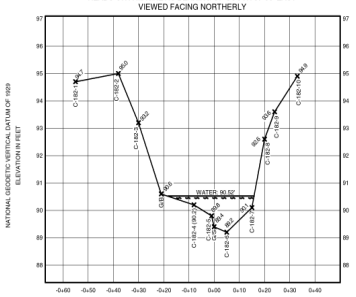
HEADS ON A MAGNETIC BEARING OF NORTH 87°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION C-181

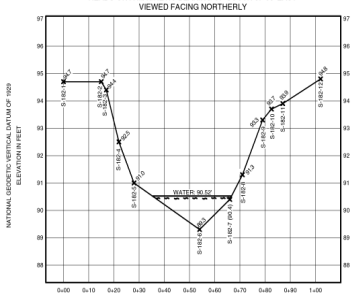
HEADS ON A MAGNETIC BEARING OF SOUTH 87°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION S-181

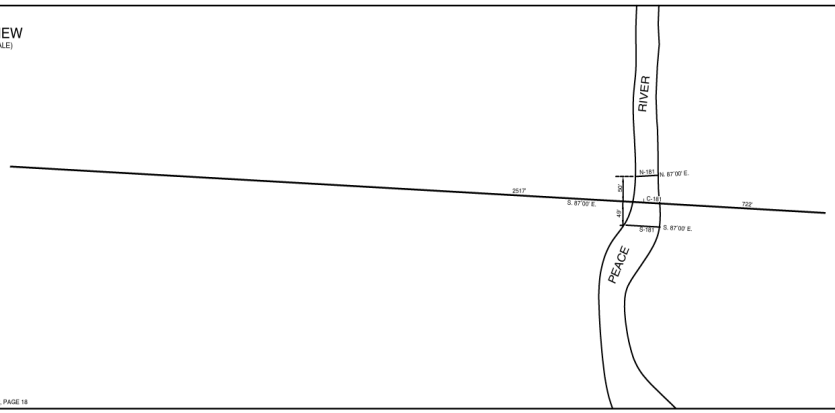
HEADS ON A MAGNETIC BEARING OF SOUTH 87°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

PLAN VIEW

(NOT TO SCALE)



(MAGNETIC)

BENCHMARK:

TBM:33-29-25-5: SET BRIDGE SPIKE IN 24" CYPRESS N.E. SIDE
ELEVATION: 95.43'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #181)

SECTION 33, TOWNSHIP 29 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
8/14/01	AS SHOWN	19 19

DWG. NO. 20-000-633

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 09000631.DWG (LDD)
REFER TO F.B. 20/221, PAGES 44-50 & F.B. 20/232, PAGE 18

Draft as of 7/5/02

IH-6

LEGEND

CLR CENTERLINE OF RIVER

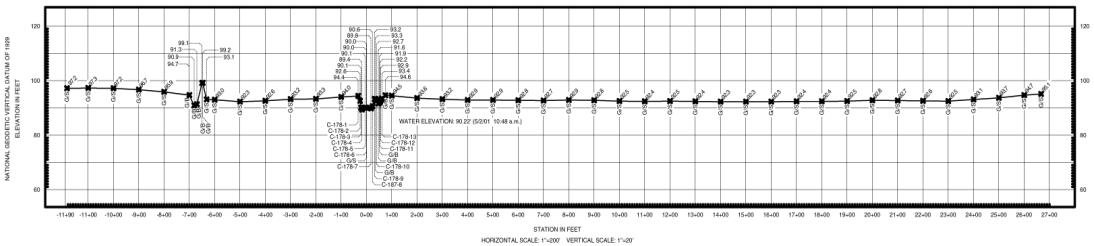
G/B GRADE BREAK

G/S GROUND SHOT

LINE #178

TRANSECT 178

WEST OF 0+00 HEADS ON A MAGNETIC BEARING OF SOUTH 90°00' WEST
EAST OF 0+00 HEADS ON A MAGNETIC BEARING OF SOUTH 86°30' EAST
VIEWED FACING NORTHERLY



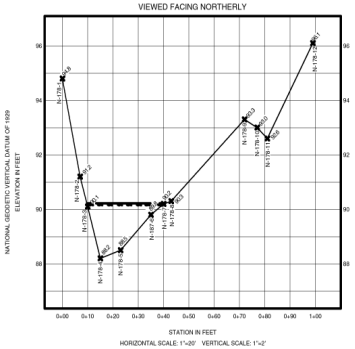
HORIZONTAL SCALE: 1"=200' VERTICAL SCALE: 1"=20'

TOWNSHIP 30 SOUTH, RANGE 25 EAST

SECTION 4

CROSS SECTION N-178

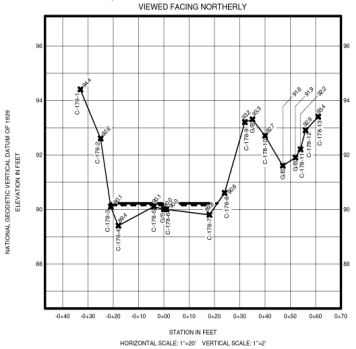
HEADS ON A MAGNETIC BEARING OF SOUTH 84°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION C-178

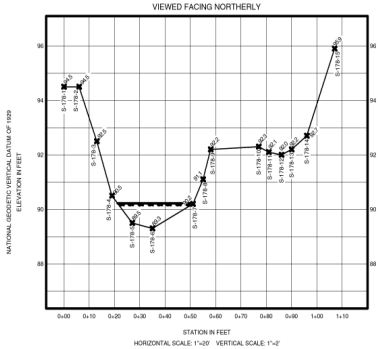
WEST OF 0+00, HEADS ON A MAGNETIC BEARING OF SOUTH 90°00' WEST
EAST OF 0+00, HEADS ON A MAGNETIC BEARING OF SOUTH 86°30' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION S-178

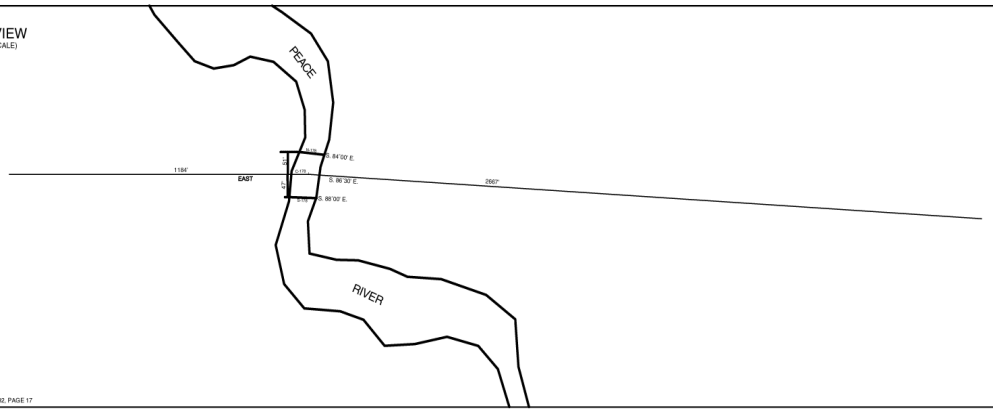
HEADS ON A MAGNETIC BEARING OF SOUTH 88°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 4-30-25-T4: SET LARGE NAIL IN S.E. SIDE OF 30" CYPRESS ON LINE #178
ON WEST SIDE OF RIVER
ELEVATION: 94.99'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP.

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #178)

SECTION 4, TOWNSHIP 30 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET OF
8/13/01	AS SHOWN	18 19

DWG. NO. 20-000-633

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDO]
REFER TO F.B. 20/221, PAGES 35-43 & F.B. 20/232, PAGE 17

Draft as of 7/5/02

IH-7

LEGEND

CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

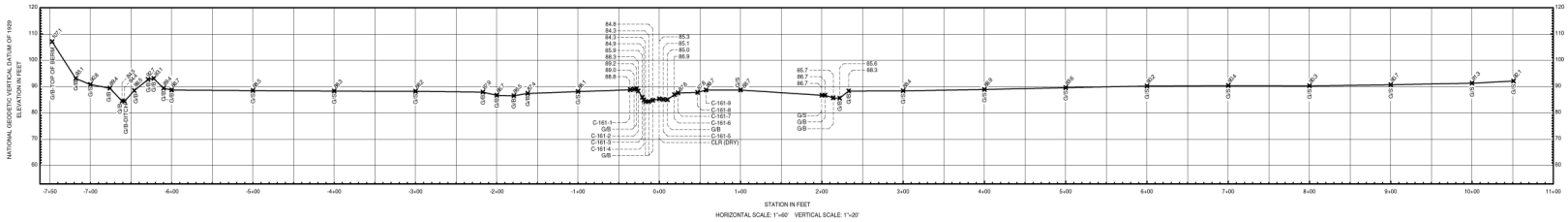
TOWNSHIP 30 SOUTH, RANGE 25 EAST

SECTION 22

LINE #161

TRANSECT C-161

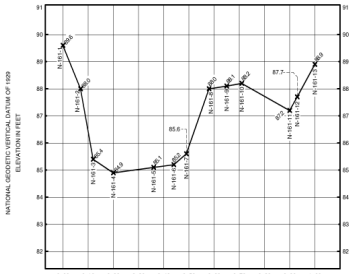
HEADS ON A MAGNETIC BEARING OF NORTH 89°30' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=40' VERTICAL SCALE: 1"=20'

CROSS SECTION N-161

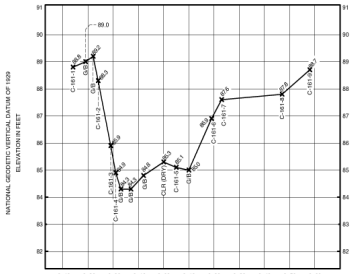
HEADS ON A MAGNETIC BEARING OF NORTH 88°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION C-161

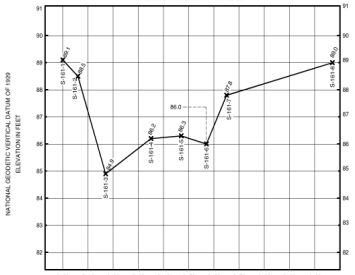
HEADS ON A MAGNETIC BEARING OF NORTH 89°30' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION S-161

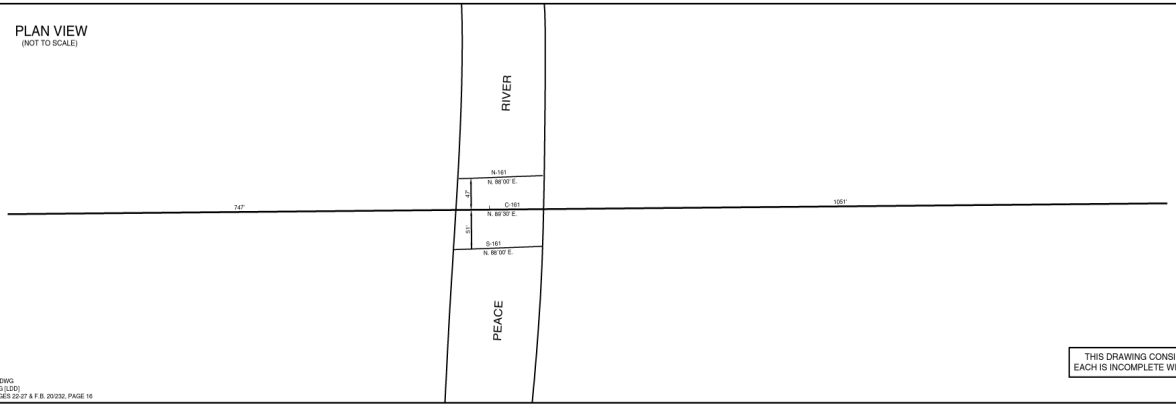
HEADS ON A MAGNETIC BEARING OF NORTH 88°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 22-30-25-1: SET RAILROAD SPIKE IN 12" OAK TREE ON LINE #161.
ELEVATION: 98.90'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #161)

SECTION 22, TOWNSHIP 30 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET / OF
8/13/01	AS SHOWN	17 / 19

DWG. NO. 20-000-633

W.O. #01139
AUTOCAD FILE: 20000633.DWG
CDGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20/221, PAGES 23-27 & F.B. 20/232, PAGE 16

Draft as of 7/5/02

IH-8

LEGEND

CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

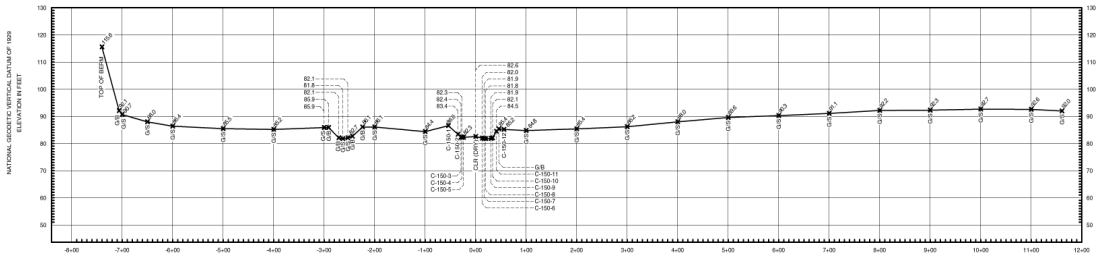
LINE #150

TOWNSHIP 30 SOUTH, RANGE 25 EAST

SECTION 34

TRANSECT 150

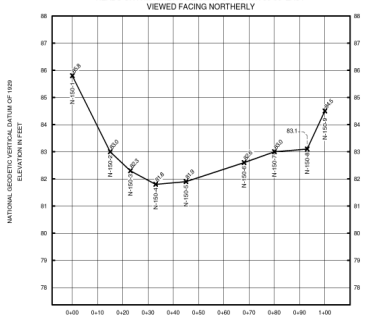
HEADS ON A MAGNETIC BEARING OF N. 90°00' E.
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=100' VERTICAL SCALE: 1"=20'

CROSS SECTION N-150

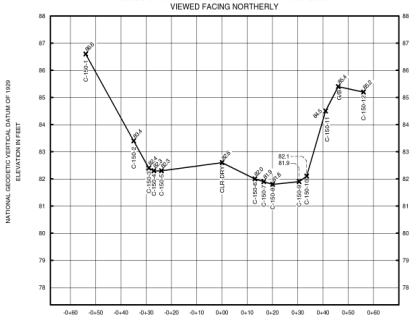
HEADS ON A MAGNETIC BEARING OF NORTH 80°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION C-150

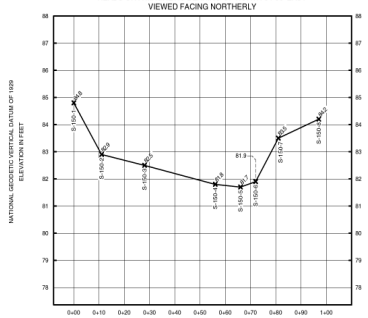
HEADS ON A MAGNETIC BEARING OF NORTH 90°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

CROSS SECTION S-150

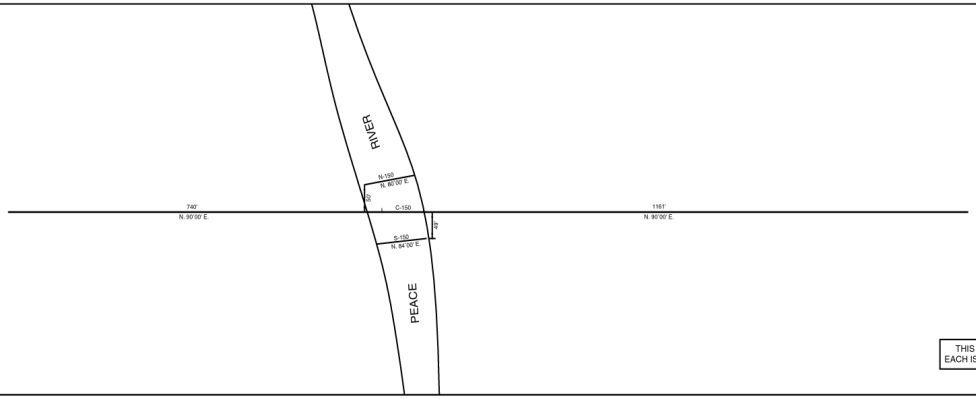
HEADS ON A MAGNETIC BEARING OF NORTH 84°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=2'

PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 34-30-25-3: SET BRIDGE SPIKE IN SOUTHWEST SIDE OF 6" PINE TREE ON LINE #150
ELEVATION: 113.46'

(UNKNOWN)

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #150)

SECTION 34, TOWNSHIP 30 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
9/11/01	AS SHOWN	16 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20232, PAGES 10 AND 72-77

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-9

LINE #146

TOWNSHIP 30 SOUTH, RANGE 25 EAST

SECTION 34

LEGEND

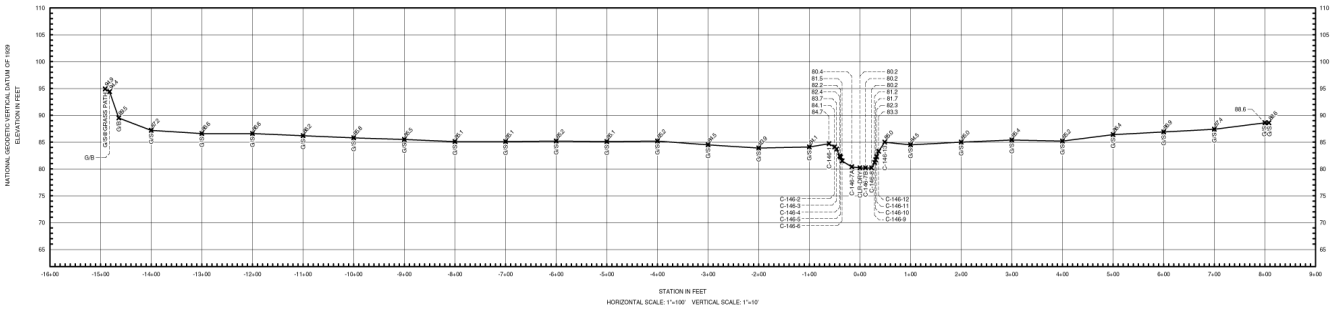
CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

TRANSECT 146

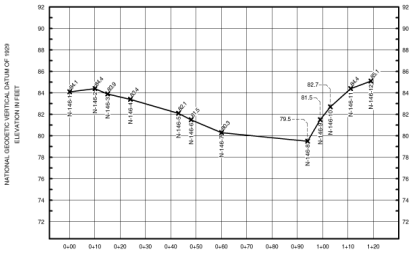
HEADS ON A MAGNETIC BEARING OF NORTH 90°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=100' VERTICAL SCALE: 1"=10'

CROSS SECTION N-146

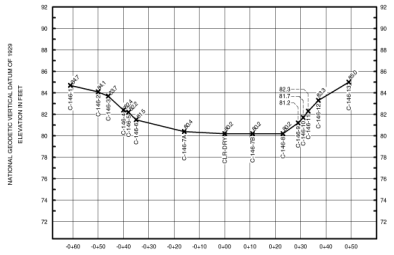
HEADS ON A MAGNETIC BEARING OF NORTH 89°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

CROSS SECTION C-146

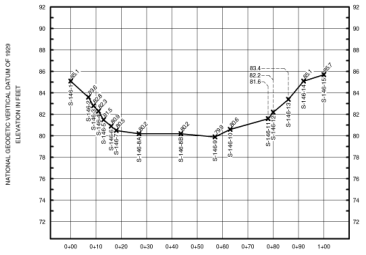
HEADS ON A MAGNETIC BEARING OF NORTH 90°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

CROSS SECTION S-146

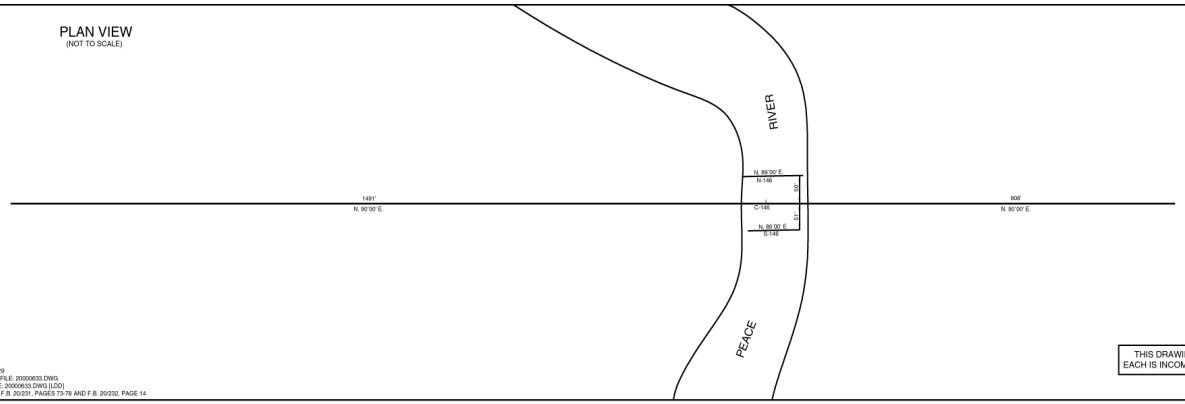
HEADS ON A MAGNETIC BEARING OF NORTH 89°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM-34-30-25-2: SET RAILROAD SPIKE IN EAST SIDE OF 12" OAK TREE, 50' NORTH OF EDGE OF PAVEMENT
ELEVATION: 88.12'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #146)

SECTION 34, TOWNSHIP 30 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET OF
9/17/01	AS SHOWN	15 19

DWG. NO. 20-000-633

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDO]
REFER TO F.B. 20/231, PAGES 73-78 AND F.B. 20/232, PAGE 14

Draft as of 7/5/02

IH-10

LEGEND

CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

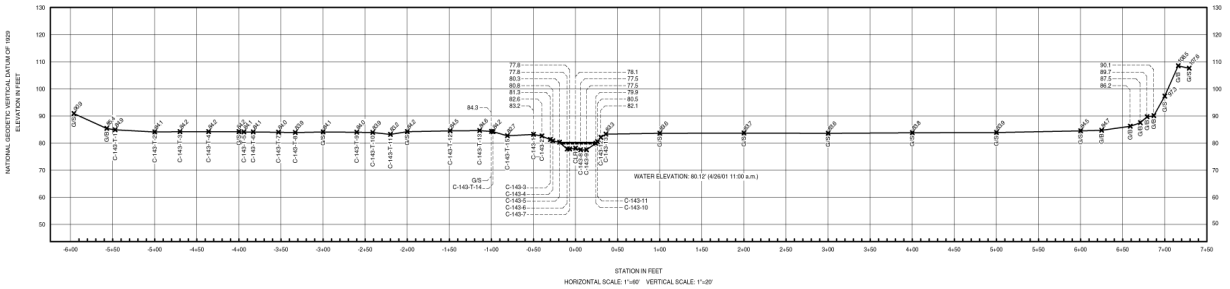
LINE #143

TOWNSHIP 31 SOUTH, RANGE 25 EAST

SECTION 3

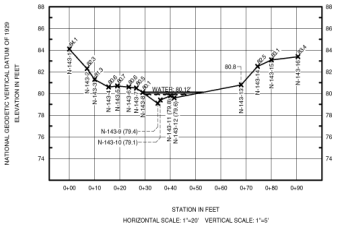
TRANSECT 143

HEADS ON A MAGNETIC BEARING OF NORTH 90°00' EAST
VIEWED FACING NORTHERLY



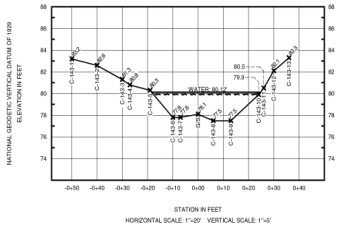
TRANSECT N-143

HEADS ON A MAGNETIC BEARING OF NORTH 60°00' EAST
VIEWED FACING NORTHWESTERLY



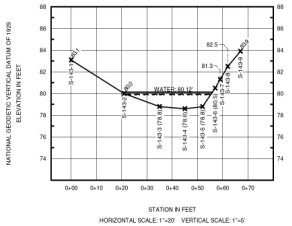
TRANSECT C-143

HEADS ON A MAGNETIC BEARING OF NORTH 90°00' EAST
VIEWED FACING NORTHERLY

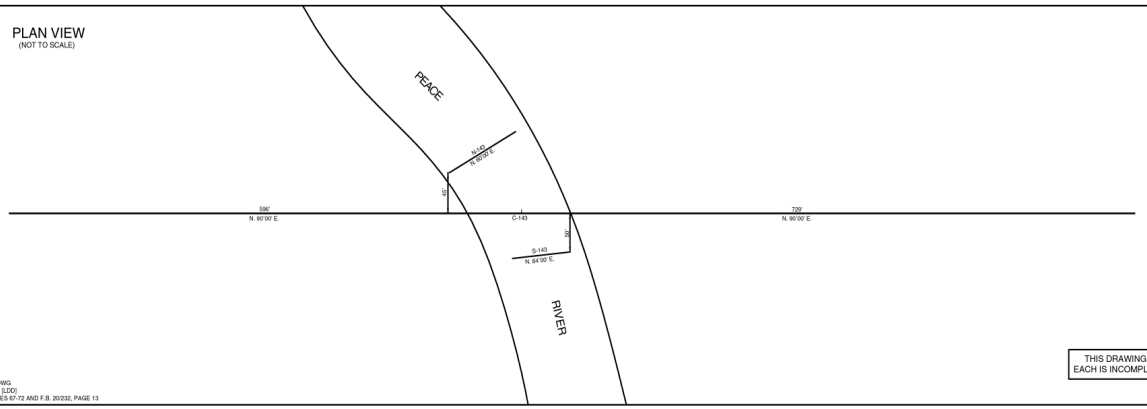


TRANSECT S-143

HEADS ON A MAGNETIC BEARING OF NORTH 84°00' EAST
VIEWED FACING NORTHERLY



PLAN VIEW
(NOT TO SCALE)



BENCHMARK:

TBM 3-31-25-01: SET BRIDGE SPIKE IN SOUTH SIDE OF 18" CYPRESS TREE
ELEVATION: 88.02'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #143)

SECTION 3, TOWNSHIP 31 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET OF
9/17/01	AS SHOWN	14 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG (LDD)
REFER TO F.B. 20/231, PAGES 67-72 AND F.B. 20/232, PAGE 13

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-11

LEGEND

CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

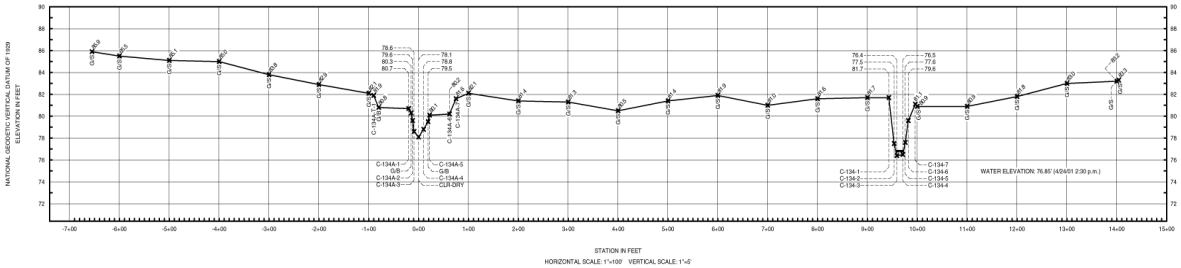
LINE #134

TOWNSHIP 31 SOUTH, RANGE 25 EAST

SECTION 11

TRANSECT 134

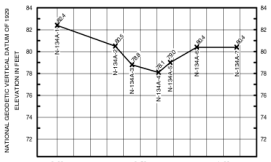
HEADS ON A MAGNETIC BEARING OF NORTH 25°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=100' VERTICAL SCALE: 1"=5'

CROSS SECTION N-134A

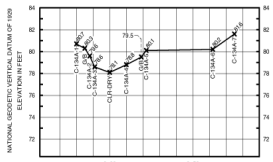
HEADS ON A MAGNETIC BEARING OF NORTH 35°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION C-134A

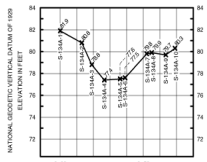
HEADS ON A MAGNETIC BEARING OF NORTH 25°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION S-134A

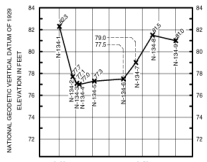
HEADS ON A MAGNETIC BEARING OF NORTH 5°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION N-134

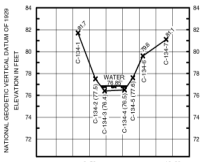
HEADS ON A MAGNETIC BEARING OF NORTH 29°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION C-134

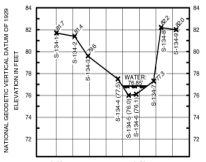
HEADS ON A MAGNETIC BEARING OF NORTH 25°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION S-134

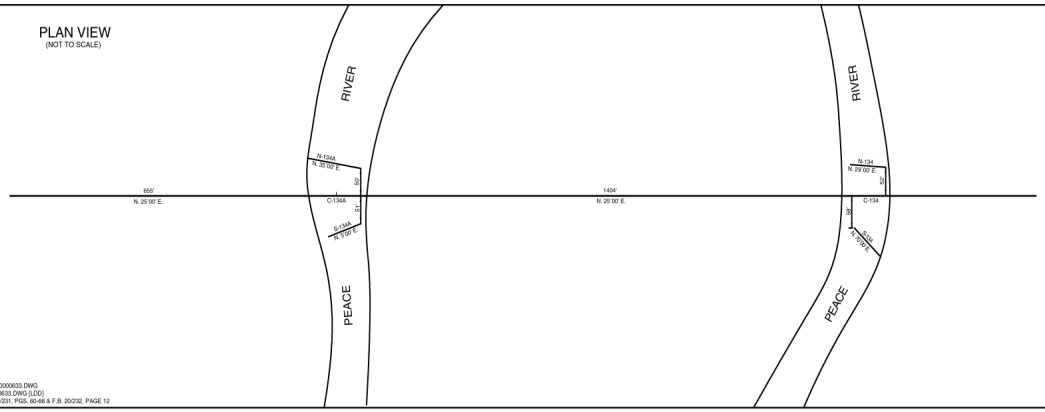
HEADS ON A MAGNETIC BEARING OF NORTH 70°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

PLAN VIEW

(NOT TO SCALE)



W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20/231, PGS. 60-66 & F.B. 20/232, PAGE 12

(MAGNETIC)

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

BENCHMARK:

TBM 11-31-25-1: SET PK NAIL & DISK IN ROOT OF 24" TREE
ELEVATION: 87.83'

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #134)

SECTION 11, TOWNSHIP 31 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET OF
9/12/01	AS SHOWN	13 19

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-12

LEGEND

CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

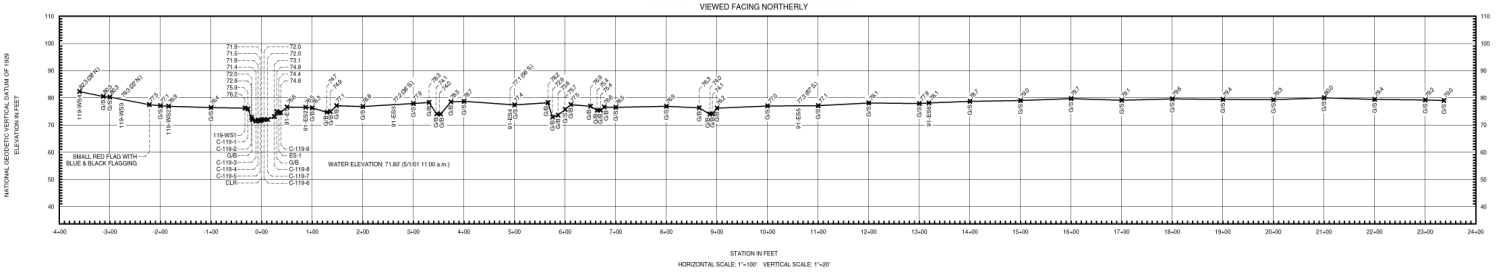
TOWNSHIP 31 SOUTH, RANGE 25 EAST

SECTION 26

LINE #119

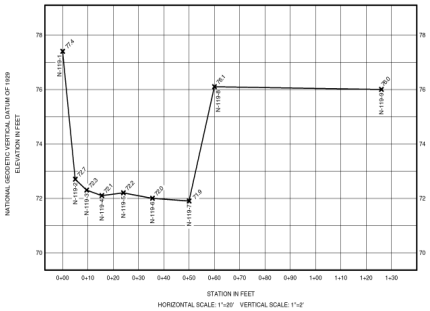
TRANSECT C-119

HEADS ON A MAGNETIC BEARING OF NORTH 89°00' EAST
VIEWED FACING NORTHERLY



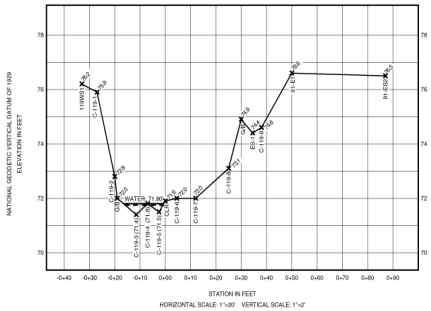
CROSS SECTION N-119

HEADS ON A MAGNETIC BEARING OF NORTH 75°00' EAST
VIEWED FACING NORTHERLY



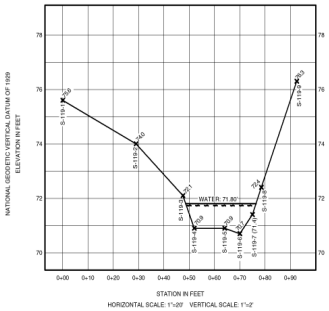
CROSS SECTION C-119

HEADS ON A MAGNETIC BEARING OF NORTH 89°00' EAST
VIEWED FACING NORTHERLY



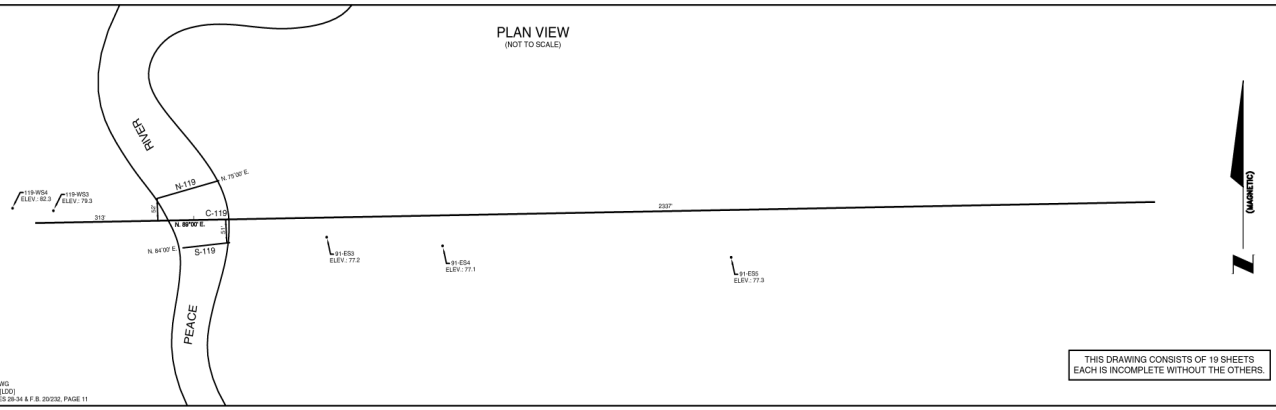
CROSS SECTION S-119

HEADS ON A MAGNETIC BEARING OF NORTH 84°00' EAST
VIEWED FACING NORTHERLY



PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 26-31-25-1: SET RAILROAD SPIKE IN BASE OF 25" MAPLE TREE
ELEVATION: 110.30'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDO]
REFER TO F.B. 20/221, PAGES 28-34 & F.B. 20/232, PAGE 11

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #119)

SECTION 26, TOWNSHIP 31 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET OF
8/13/01	AS SHOWN	12 19

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-13

LINE #106E - ALTERNATE

TOWNSHIP 31 SOUTH, RANGE 25 EAST

SECTION 35

LEGEND

BTM BOTTOM OF RIVER

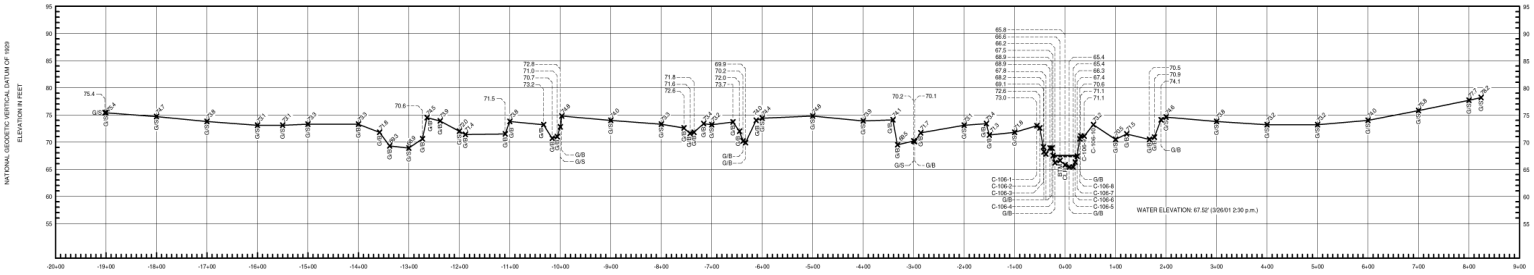
CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

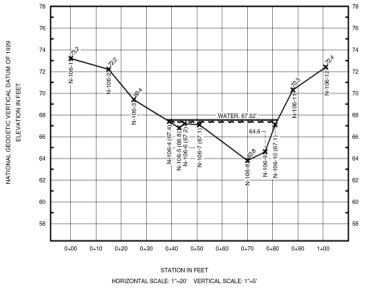
TRANSECT 106E (ALTERNATE)

HEADS ON A MAGNETIC BEARING OF SOUTH 13°30' EAST
VIEWED FACING NORTHEASTERLY



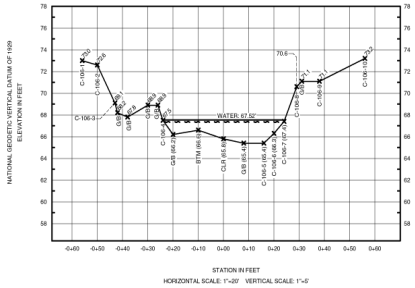
CROSS SECTION N-106E (ALTERNATE)

HEADS ON A MAGNETIC BEARING OF SOUTH 20°00' EAST
VIEWED FACING NORTHEASTERLY



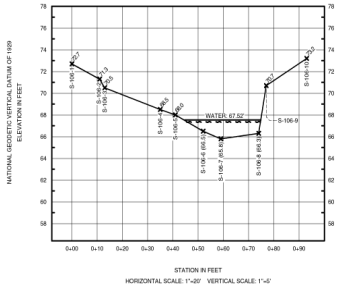
CROSS SECTION C-106E (ALTERNATE)

HEADS ON A MAGNETIC BEARING OF SOUTH 13°30' EAST
VIEWED FACING NORTHEASTERLY



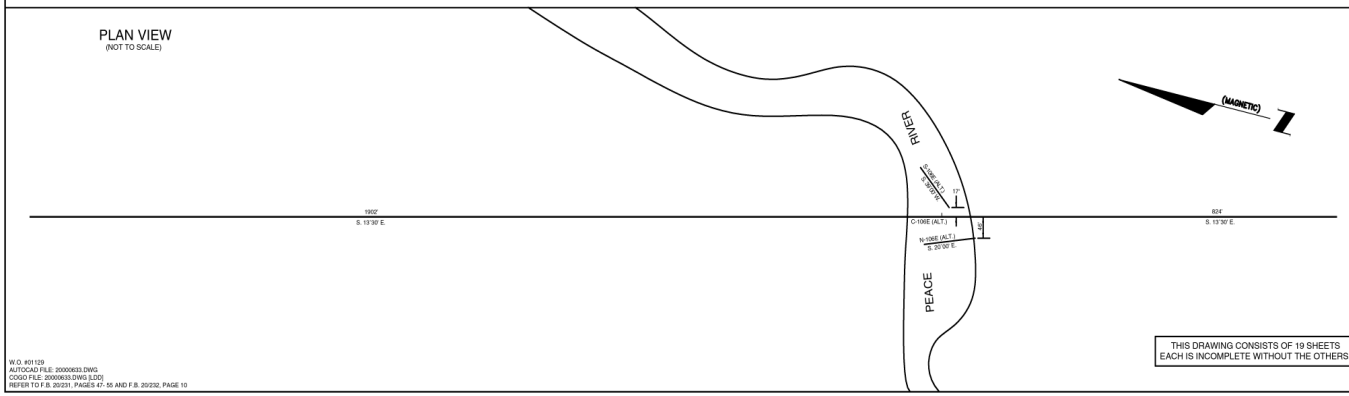
CROSS SECTION S-106E (ALTERNATE)

HEADS ON A MAGNETIC BEARING OF SOUTH 39°00' WEST
VIEWED FACING SOUTHEASTERLY



PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 35-31-25-100: SET RAILROAD SPIKE IN 30" SWEET GUM TREE
ELEVATION: 75.62'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG (LDD)
REFER TO F.B. 20/231, PAGES 47- 55 AND F.B. 20/232, PAGE 10

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER

TRANSECTS AND CROSS SECTIONS (LINE #106E - ALT.)

SECTION 35, TOWNSHIP 31 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET OF
9/17/01	AS SHOWN	11 19

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-14

LINE #99

TOWNSHIP 32 SOUTH, RANGE 25 EAST

SECTION 2

LEGEND

E/W EDGE OF WATER

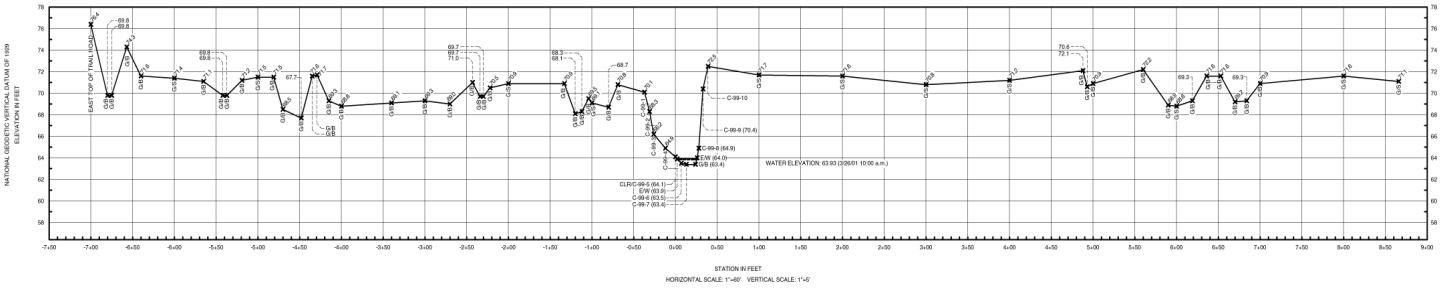
CL/R CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

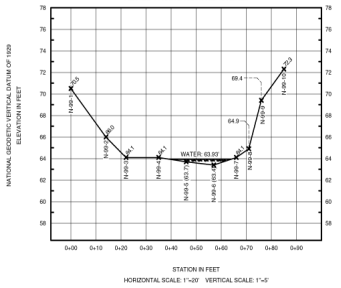
TRANSECT 99

HEADS ON A MAGNETIC BEARING OF SOUTH 27°00' EAST
VIEWED FACING NORTHEASTERLY



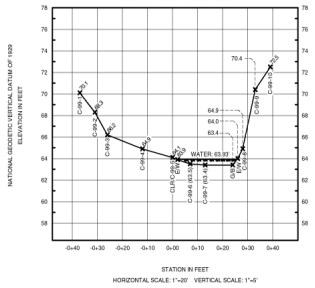
CROSS SECTION N-99

HEADS ON A MAGNETIC BEARING OF SOUTH 25°00' EAST
VIEWED FACING NORTHEASTERLY



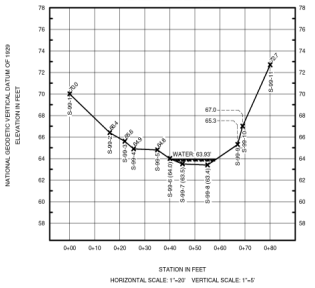
CROSS SECTION C-99

HEADS ON A MAGNETIC BEARING OF SOUTH 27°00' EAST
VIEWED FACING NORTHEASTERLY



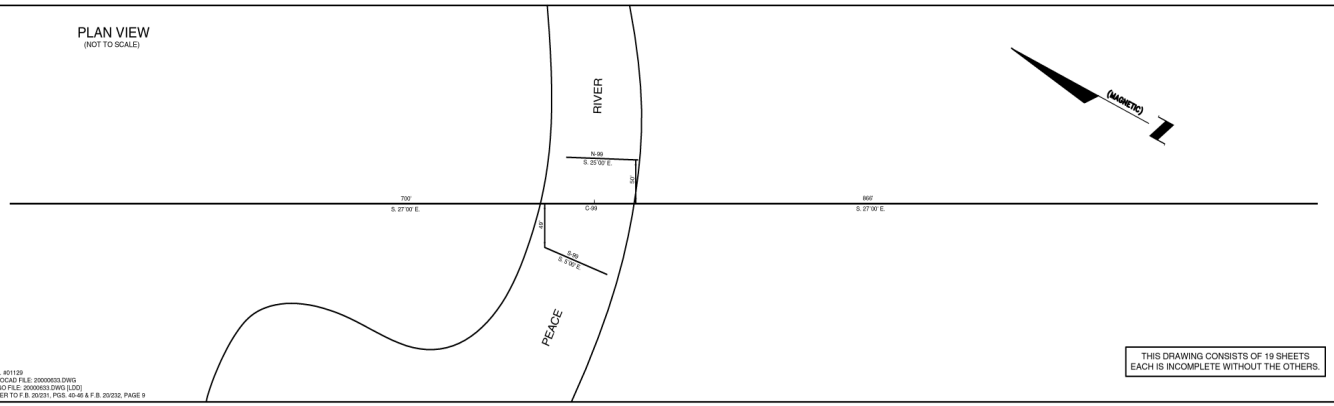
CROSS SECTION S-99

HEADS ON A MAGNETIC BEARING OF SOUTH 5°00' EAST
VIEWED FACING EASTERLY



PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 2-32-25-25: RAILROAD SPIKE IN NORTH SIDE OF 14" MAPLE TREE
ELEVATION: 71.08'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #99)

SECTION 2, TOWNSHIP 32 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW		
DATE DRAWN	SCALE	SHEET OF
9/14/01	AS SHOWN	10 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20/231, PGS. 40-46 & F.B. 20/232, PAGE 9

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-15

LINE #91

TOWNSHIP 32 SOUTH, RANGE 25 EAST

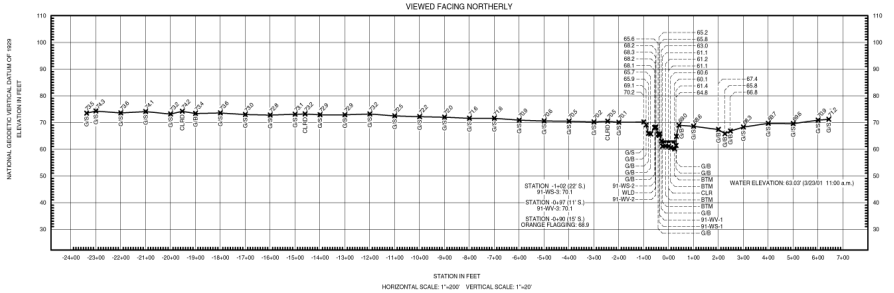
SECTION 10

LEGEND

BTM	BOTTOM OF RIVER
CLR	CENTERLINE OF RIVER
CLRD	CENTERLINE OF TRAIL ROAD
G/B	GRADE BREAK
G/S	GROUND SHOT
WLD	WETLAND DELINEATION MARKER

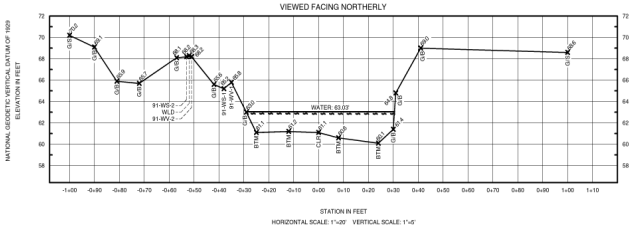
TRANSECT 91

HEADS ON A MAGNETIC BEARING OF NORTH 90°00' EAST
VIEWED FACING NORTHERLY



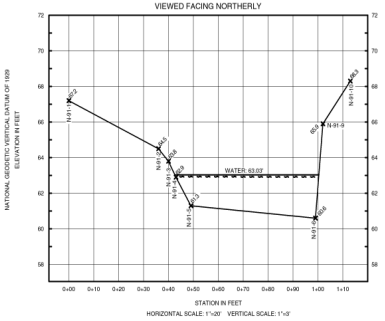
TRANSECT 91 (Center Portion)

HEADS ON A MAGNETIC BEARING OF NORTH 90°00' EAST
VIEWED FACING NORTHERLY



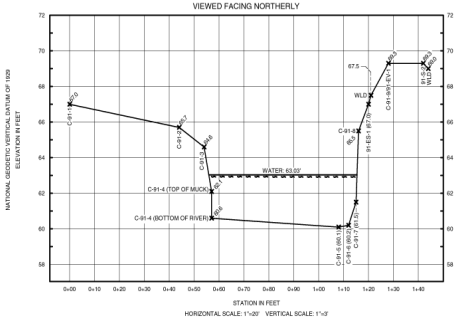
CROSS SECTION N-91

HEADS ON A MAGNETIC BEARING OF NORTH 78°00' EAST
VIEWED FACING NORTHERLY



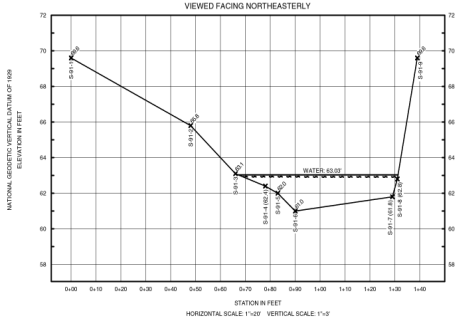
CROSS SECTION C-91

HEADS ON A MAGNETIC BEARING OF NORTH 80°00' EAST
VIEWED FACING NORTHERLY



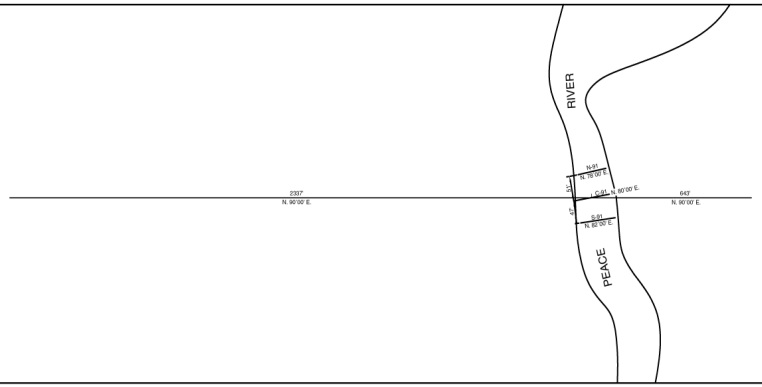
CROSS SECTION S-91

HEADS ON A MAGNETIC BEARING OF NORTH 82°00' EAST
VIEWED FACING NORTHEASTERLY



PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 10-32-25-100: RAILROAD SPIKE IN 36" OAK TREE 50' WEST OF RIVER
ELEVATION: 71.61'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #91)

SECTION 10, TOWNSHIP 32 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY: CRW / JJ	CHECKED	APPROVED
DATE DRAWN: 9/12/01	SCALE: AS SHOWN	SHEET 9 OF 19

DWG. NO. 20-000-633

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LD0]
REFER TO F.B. 29/231, PGS. 30-38 & F.B. 29/232, PAGE 8

Draft as of 7/5/02

IH-16

LEGEND

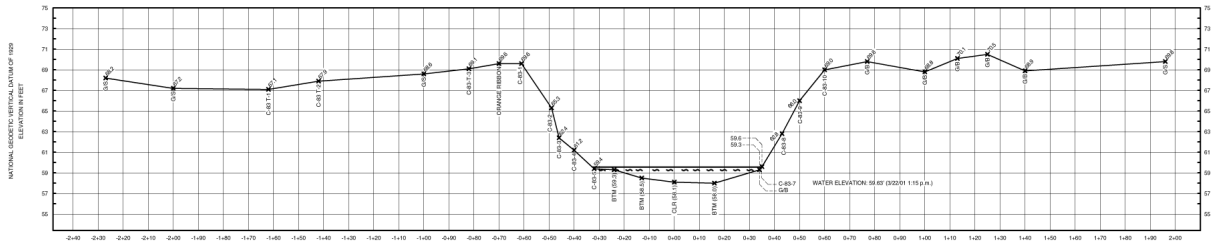
BTM BOTTOM OF RIVER
CLR CENTERLINE OF RIVER
G/B GRADE BREAK
G/S GROUND SHOT

LINE #83

TOWNSHIP 32 SOUTH, RANGE 25 EAST
SECTION 22

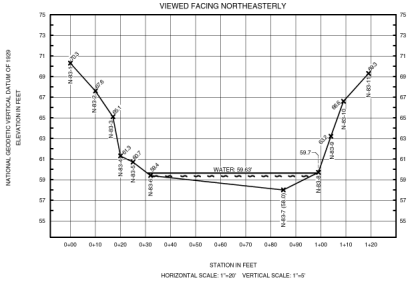
TRANSECT 83

HEADS ON A MAGNETIC BEARING OF S. 50°00' E.
VIEWED FACING NORTHEASTERLY



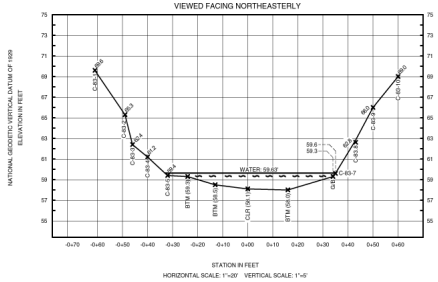
CROSS SECTION N-83

HEADS ON A MAGNETIC BEARING OF SOUTH 55°00' EAST
VIEWED FACING NORTHEASTERLY



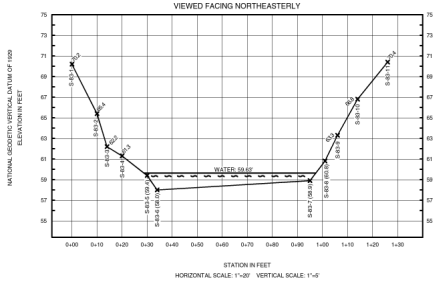
CROSS SECTION C-83

HEADS ON A MAGNETIC BEARING OF SOUTH 50°00' EAST
VIEWED FACING NORTHEASTERLY



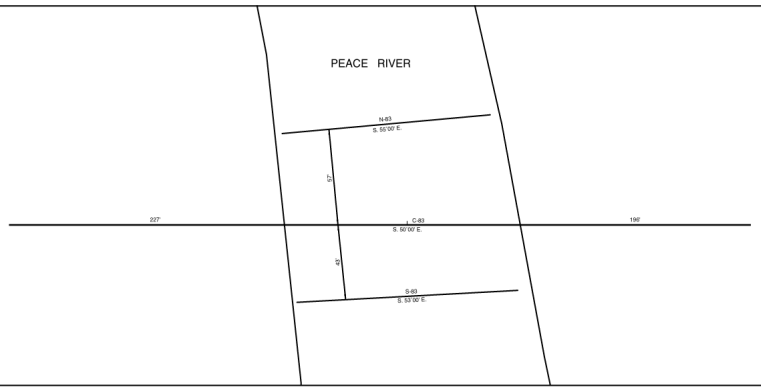
CROSS SECTION S-83

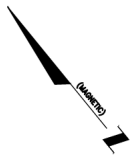
HEADS ON A MAGNETIC BEARING OF SOUTH 53°00' EAST
VIEWED FACING NORTHEASTERLY



PLAN VIEW

(NOT TO SCALE)





BENCHMARK:

TBM 22-32-25-3: RAILROAD SPIKE IN ROOT OF 36" OAK TREE
ELEVATION: 68.00'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN
MINIMUM FLOWS AND LEVELS
UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #83)

SECTION 22, TOWNSHIP 32 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
9/10/01	AS SHOWN	8 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20/232, PAGES 7 & 68-71

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-17

LINE #79

TOWNSHIP 32 SOUTH, RANGE 25 EAST

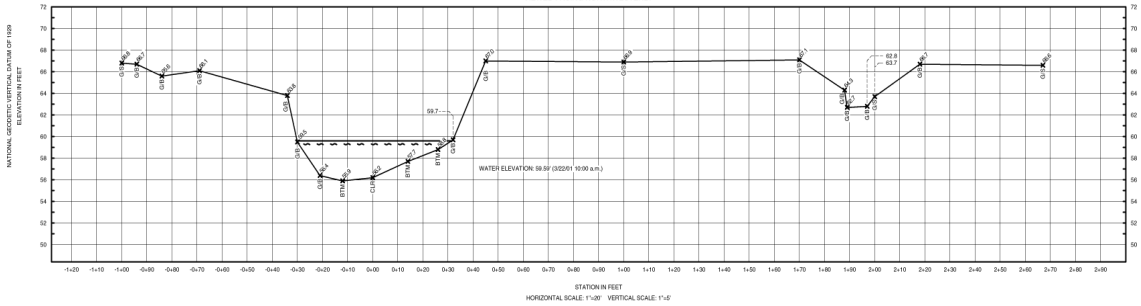
SECTION 22

LEGEND

BTM BOTTOM OF RIVER
CLR CENTERLINE OF RIVER
G/B GRADE BREAK
G/S GROUND SHOT

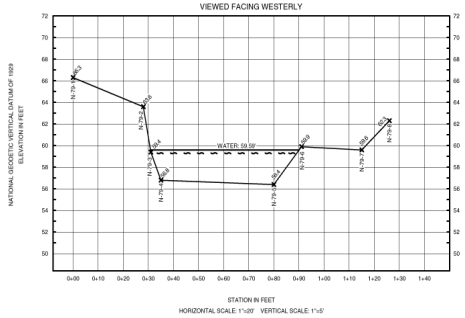
TRANSECT 79

HEADS ON A MAGNETIC BEARING OF N. 25°36'01" E.
VIEWED FACING NORTHWESTERLY



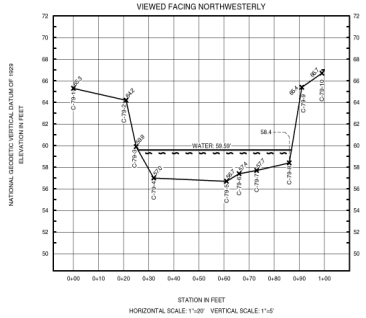
CROSS SECTION N-79

HEADS ON A MAGNETIC BEARING OF NORTH 01°00' EAST
VIEWED FACING WESTERLY



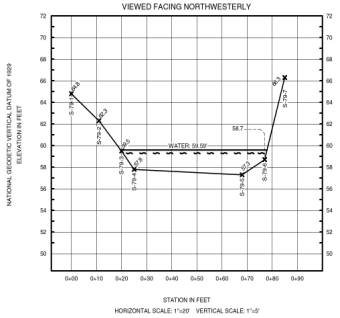
CROSS SECTION C-79

HEADS ON A MAGNETIC BEARING OF NORTH 34°00' EAST
VIEWED FACING NORTHWESTERLY



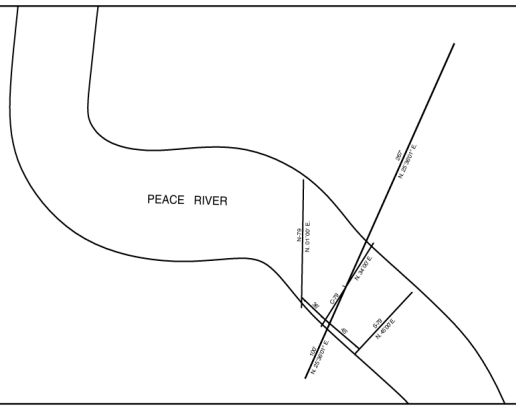
CROSS SECTION S-79

HEADS ON A MAGNETIC BEARING OF NORTH 45°00' EAST
VIEWED FACING NORTHWESTERLY



PLAN VIEW

(NOT TO SCALE)



(MAGNETIC)

BENCHMARK:

TBM 22-32-25-2: BRIDGE SPIKE AND DISK IN 10" CYPRESS TREE
ELEVATION: 67.43'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #79)

SECTION 22, TOWNSHIP 32 SOUTH, RANGE 25 EAST — POLK COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
9/7/01	AS SHOWN	7 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20/232, PAGES 6 & 63-67

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-18

LEGEND

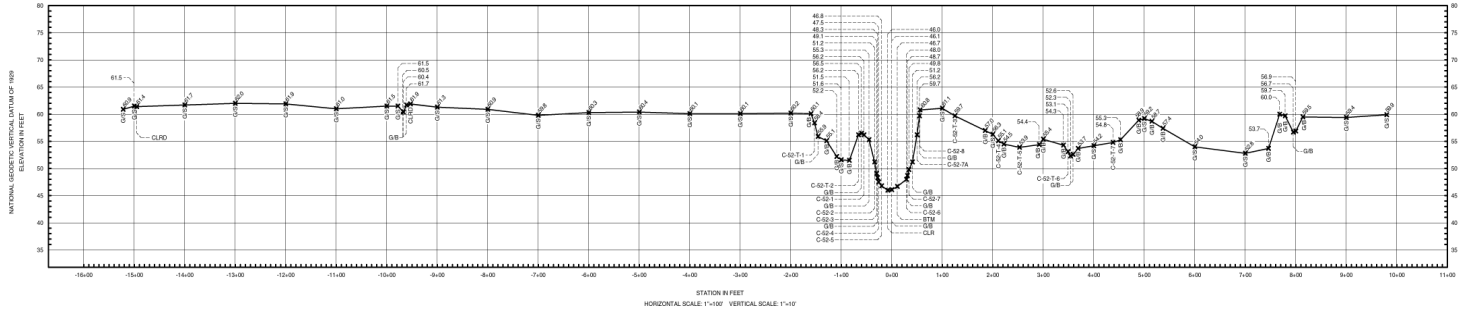
BTM BOTTOM OF RIVER
CLR CENTERLINE OF RIVER
CLRD CENTERLINE OF TRAIL ROAD
G/B GRADE BREAK
G/S GROUND SHOT

LINE #52

TRANSECT 52

HEADS ON A MAGNETIC BEARING OF N. 86°00' E.
VIEWED FACING NORTHERLY

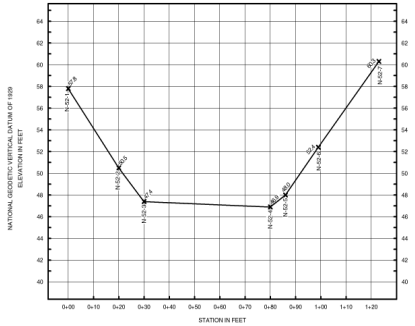
TOWNSHIP 33 SOUTH, RANGE 25 EAST
SECTION 10



HORIZONTAL SCALE: 1"=100' VERTICAL SCALE: 1"=10'

CROSS SECTION N-52

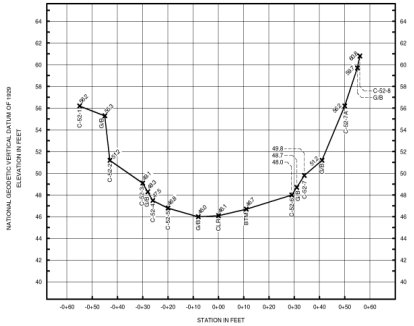
HEADS ON A MAGNETIC BEARING OF NORTH 86°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

CROSS SECTION C-52

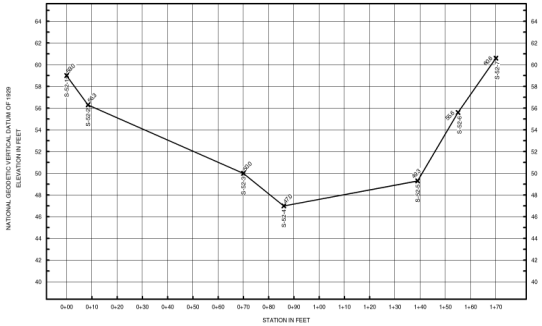
HEADS ON A MAGNETIC BEARING OF NORTH 86°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

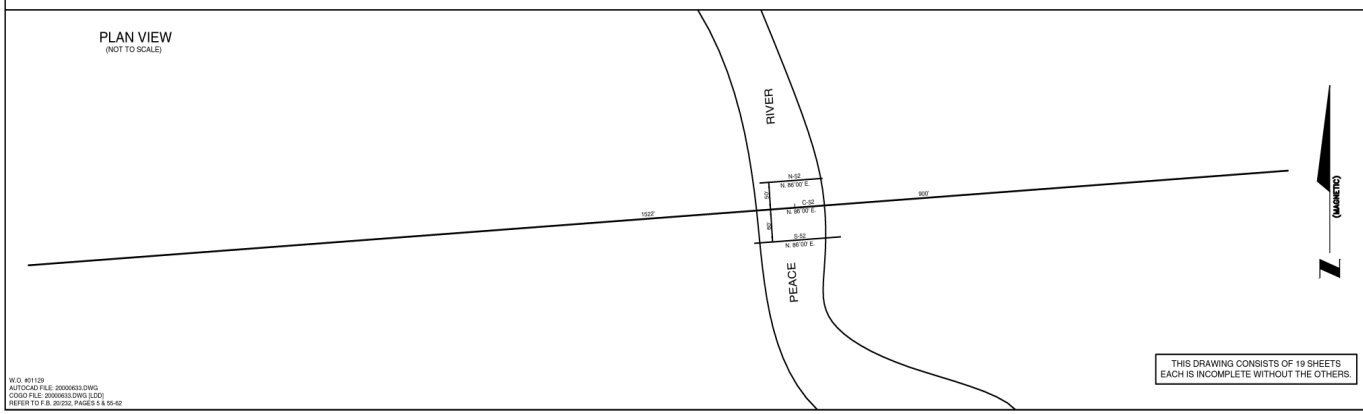
CROSS SECTION S-52

HEADS ON A MAGNETIC BEARING OF NORTH 86°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

PLAN VIEW
(NOT TO SCALE)



BENCHMARK:

TBM 10-33-25-4 BRIDGE SPIKE AND DISK IN 12" OAK TREE
ELEVATION: 61.82'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDO]
REFER TO F.B. 20/232, PAGES 5 & 55-62

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN
MINIMUM FLOWS AND LEVELS
UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #52)

SECTION 10, TWP. 33 SOUTH, RGE. 25 EAST — HARDEE COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
9/7/01	AS SHOWN	6 19

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-19

LEGEND

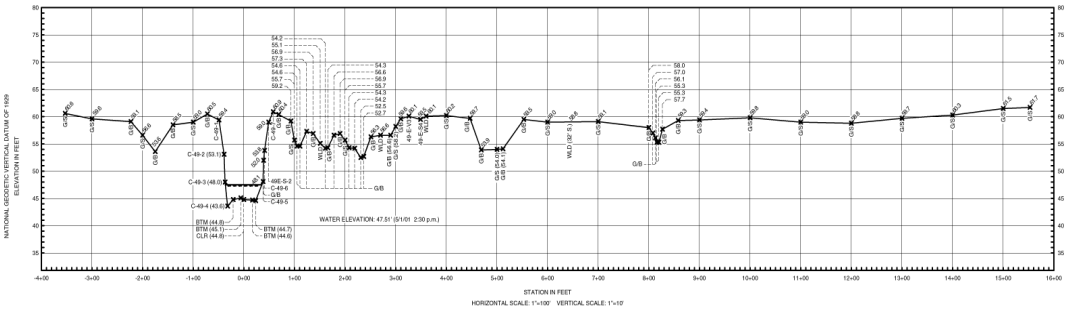
BTM BOTTOM OF RIVER
CLR CENTERLINE OF RIVER
G/B GRADE BREAK
G/S GROUND SHOT
WLD WETLAND DELINEATION MARKER

LINE #49

TRANSECT 49

HEADS ON A MAGNETIC BEARING OF N. 52°00' E.
VIEWED FACING NORTHWESTERLY

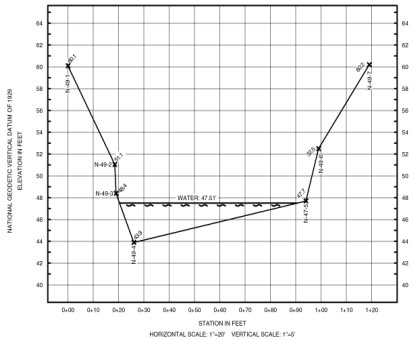
TOWNSHIP 33 SOUTH, RANGE 25 EAST
SECTION 15



HORIZONTAL SCALE: 1"=100' VERTICAL SCALE: 1"=10'

CROSS SECTION N-49

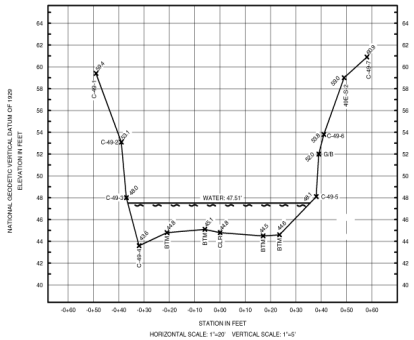
HEADS ON A MAGNETIC BEARING OF NORTH 51°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

CROSS SECTION C-49

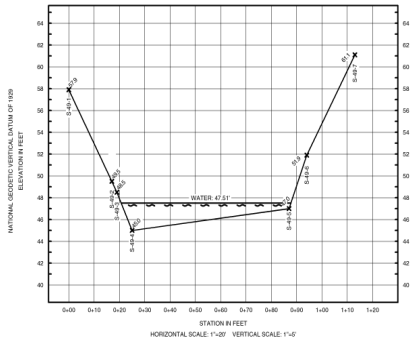
HEADS ON A MAGNETIC BEARING OF NORTH 52°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

CROSS SECTION S-49

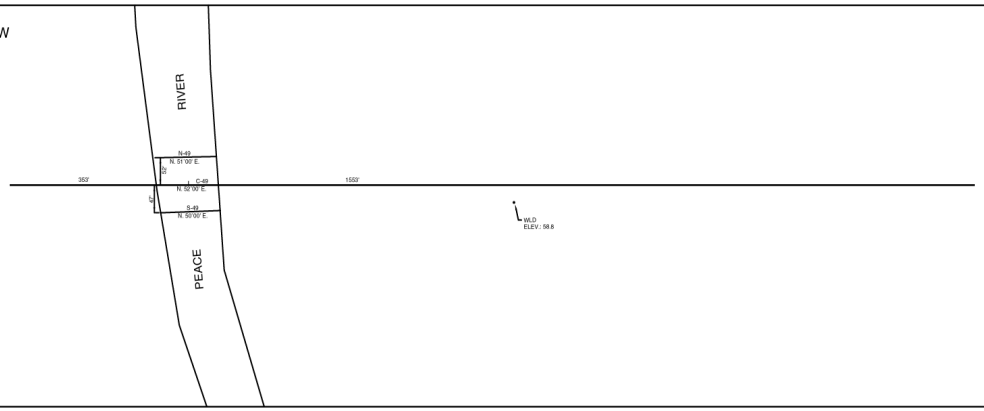
HEADS ON A MAGNETIC BEARING OF NORTH 50°00' EAST
VIEWED FACING NORTHWESTERLY



HORIZONTAL SCALE: 1"=20' VERTICAL SCALE: 1"=5'

PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 15-33-25-1: LARGE NAIL & DISK IN 10" PALM TREE
ELEVATION: 58.91'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN
MINIMUM FLOWS AND LEVELS
UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #49)

SECTION 15, TOWNSHIP 33 SOUTH, RANGE 25 EAST HARDEE COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
9/6/01	AS SHOWN	5 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG (LDD)
REFER TO F.B. 20/232, PAGES 4 & 48-54

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-20

LEGEND

BTM BOTTOM OF RIVER
CLR CENTERLINE OF RIVER
G/B GRADE BREAK
G/S GROUND SHOT

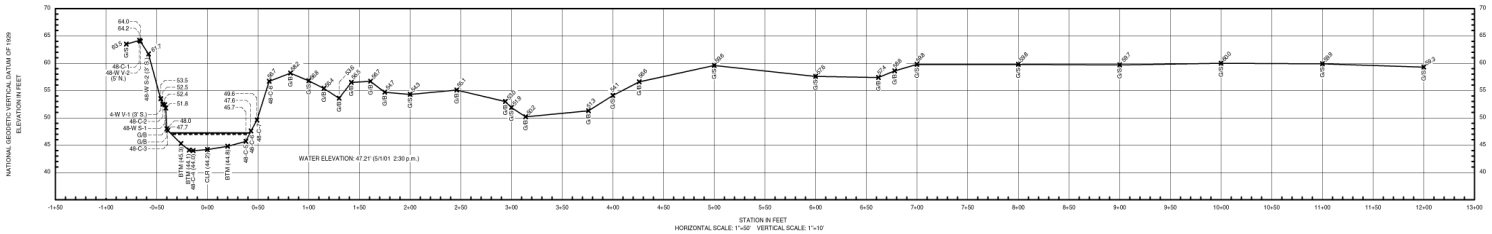
TOWNSHIP 33 SOUTH, RANGE 25 EAST

SECTION 15

LINE #48

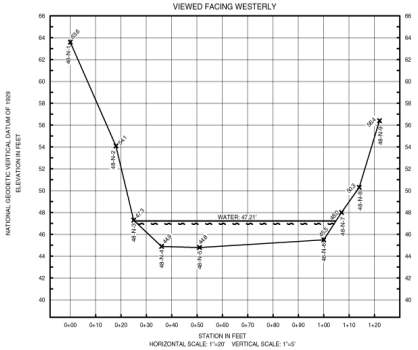
TRANSECT 48

HEADS ON A MAGNETIC BEARING OF N. 16°00' E.
VIEWED FACING WESTERLY



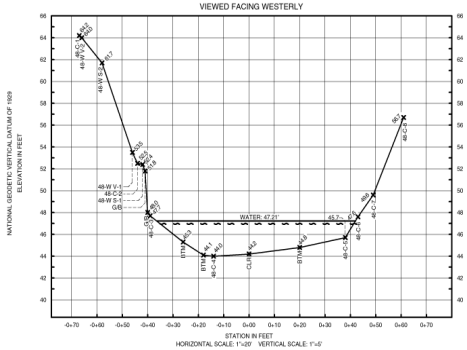
CROSS SECTION N-48

HEADS ON A MAGNETIC BEARING OF NORTH 20°00' EAST
VIEWED FACING WESTERLY



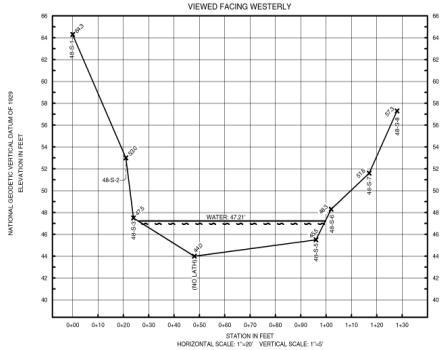
CROSS SECTION C-48

HEADS ON A MAGNETIC BEARING OF NORTH 16°00' EAST
VIEWED FACING WESTERLY



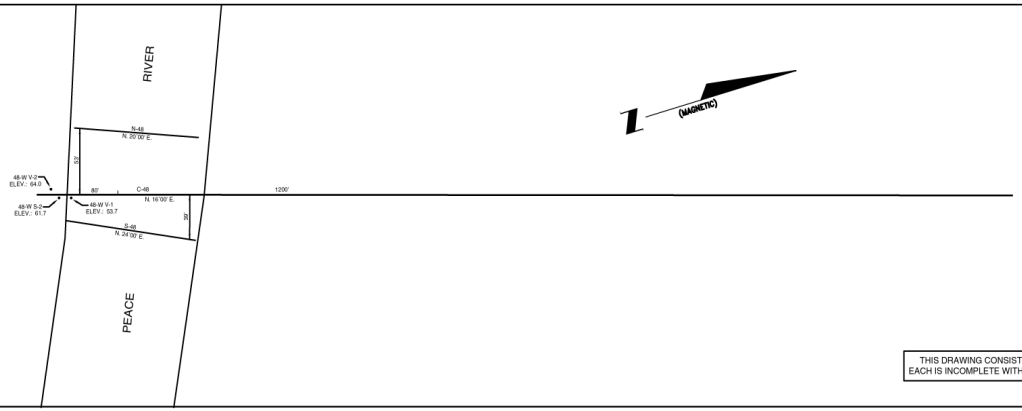
CROSS SECTION S-48

HEADS ON A MAGNETIC BEARING OF NORTH 24°00' EAST
VIEWED FACING WESTERLY



PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 15-33-25-2: BRIDGE SPIKE AND DISK IN 6" PALM TREE. EAST TOP OF BANK
ELEVATION: 56.73'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LD0]
REFER TO F.B. 20/232, PAGES 3 & 41-47

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN
MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #48)

SECTION 15, TOWNSHIP 33 SOUTH, RANGE 25 EAST — HARDEE COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
8/16/01	AS SHOWN	4 19

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-21

LEGEND

CLR CENTERLINE OF RIVER

G/B GRADE BREAK

G/S GROUND SHOT

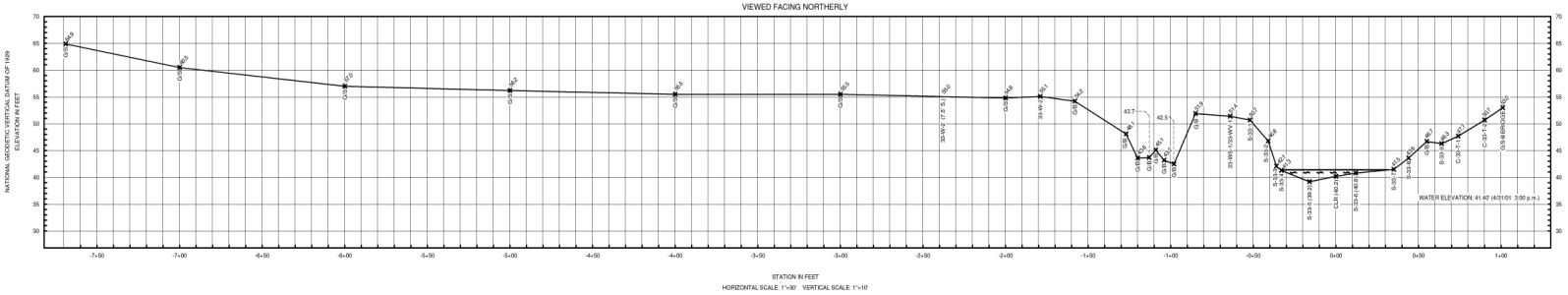
LINE #33

TOWNSHIP 33 SOUTH, RANGE 25 EAST

SECTION 27

TRANSECT 33

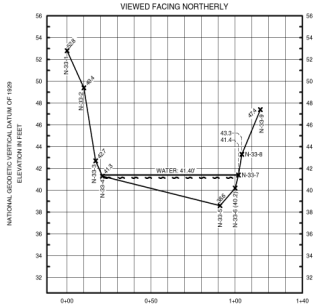
HEADS ON A MAGNETIC BEARING OF N. 85°00' E.
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=10'

CROSS SECTION N-33

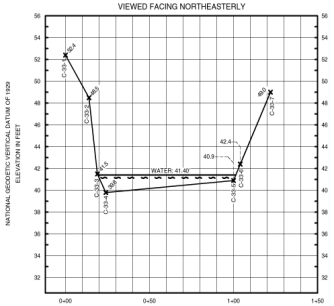
HEADS ON A MAGNETIC BEARING OF NORTH 82°00' EAST
VIEWED FACING NORTHERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION C-33

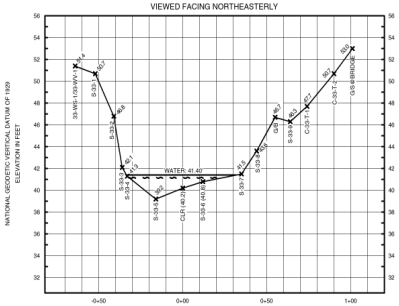
HEADS ON A MAGNETIC BEARING OF NORTH 87°00' EAST
VIEWED FACING NORTHEASTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION S-33

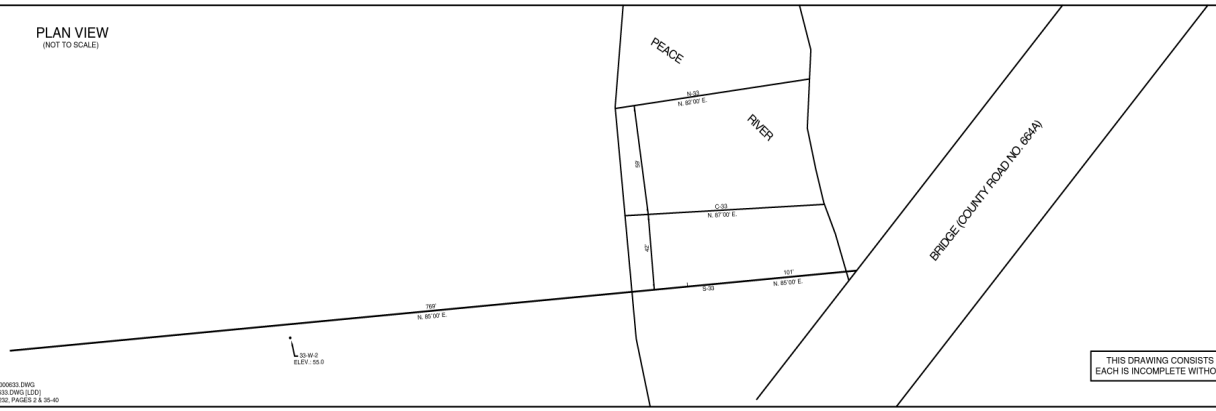
HEADS ON A MAGNETIC BEARING OF NORTH 85°00' EAST
VIEWED FACING NORTHEASTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 27-33-25-A: FOUND STATE ROAD DEPARTMENT DISK IN S.W. CORNER OF BRIDGE AT PEACE RIVER AND HEARD BRIDGE ROAD
ELEVATION: 63.59'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN

MINIMUM FLOWS AND LEVELS

UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #33)

SECTION 27, TOWNSHIP 33 SOUTH, RANGE 25 EAST — HARDEE COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN	SCALE	SHEET OF
8/16/01	AS SHOWN	3 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20/232, PAGES 2 & 35-40

DWG. NO. 20-000-633

Draft as of 7/5/02

IH-22

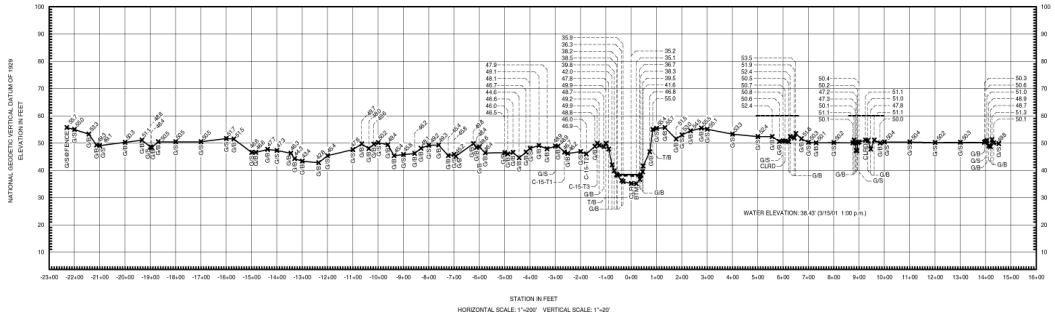
LEGEND

BTM	BOTTOM OF RIVER
CLR	CENTERLINE OF RIVER
CLRD	CENTERLINE OF DIRT ROAD
G/B	GRADE BREAK
G/S	GROUND SHOT
T/B	TOP OF BANK

LINE #15

TRANSECT 15

WEST OF 0+00 HEADS ON A MAGNETIC BEARING OF N. 11°00' W.
EAST OF 0+00 HEADS ON A MAGNETIC BEARING OF S. 57°00' E.
VIEWED FACING NORTHEASTERLY



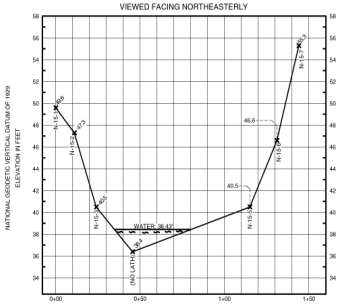
HORIZONTAL SCALE: 1"=200' VERTICAL SCALE: 1"=20'

TOWNSHIP 34 SOUTH, RANGE 25 EAST

SECTIONS 10 & 11

CROSS SECTION N-15

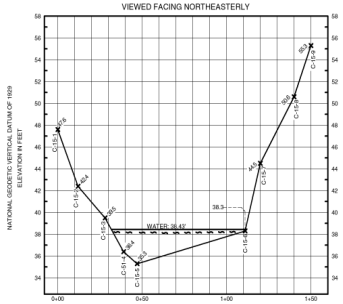
HEADS ON A MAGNETIC BEARING OF SOUTH 23°00' EAST
VIEWED FACING NORTHEASTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION C-15

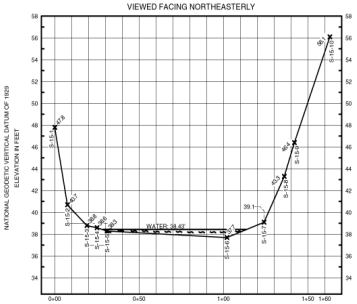
HEADS ON A MAGNETIC BEARING OF SOUTH 31°00' EAST
VIEWED FACING NORTHEASTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

CROSS SECTION S-15

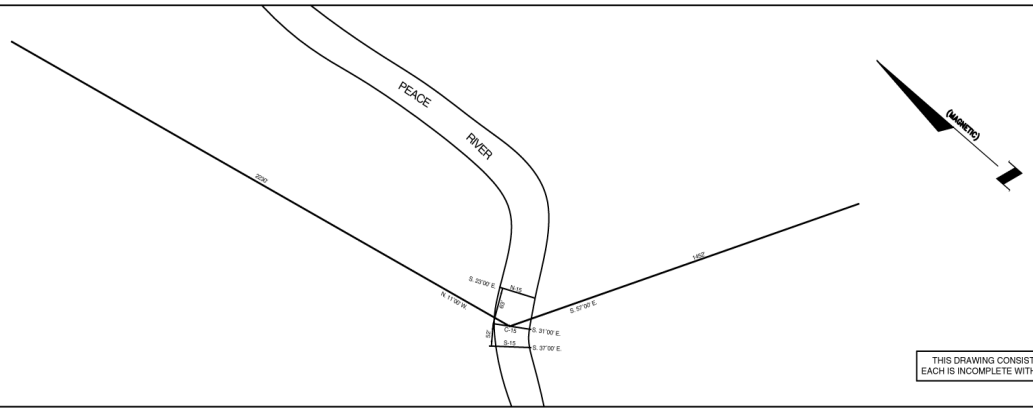
HEADS ON A MAGNETIC BEARING OF SOUTH 37°00' EAST
VIEWED FACING NORTHEASTERLY



HORIZONTAL SCALE: 1"=30' VERTICAL SCALE: 1"=5'

PLAN VIEW

(NOT TO SCALE)



BENCHMARK:

TBM 11-34-25-3: FOUND 3" ROUND CONCRETE MONUMENT WITH RAILROAD SPIKE IN TOP
ELEVATION: 56.51'

THIS DRAWING CONSISTS OF 19 SHEETS
EACH IS INCOMPLETE WITHOUT THE OTHERS.

LIMITED TOPOGRAPHIC SURVEY

DATE	REVISION	BY	APP

SOUTHWEST FLORIDA
WATER MANAGEMENT DISTRICT

PEACE RIVER BASIN
MINIMUM FLOWS AND LEVELS
UPPER PEACE RIVER
TRANSECTS AND CROSS SECTIONS (LINE #15)

SECTIONS 10 & 11, TOWNSHIP 34 SOUTH, RANGE 25 EAST — HARDEE COUNTY, FLORIDA

DRAWN BY	CHECKED	APPROVED
CRW / JJ		
DATE DRAWN: 8/14/01	SCALE: AS SHOWN	SHEET 2 OF 19

W.O. #01129
AUTOCAD FILE: 20000633.DWG
COGO FILE: 20000633.DWG [LDD]
REFER TO F.B. 20/232, PAGES 1 & 19-34

DWG. NO. 20-000-633

List of plant species encountered within the channel boundaries of the Upper Peace River. General instream location and vegetation type classification was also noted. Data from PBS&J (2002).

Herbaceous Layer				
Species Name	**Banktop**	**Channel**	**Riverbank**	**Shoreline**
Ageratina jucunda	X		X	
Alternanthera philoxeroides		X	X	X
Amaranthus australis		X	X	X
Ambrosia artemisiifolia	X	X	X	X
Ampelopsis arborea		X	X	
Asclepias perennis		X		
Aster carolinianus		X	X	
Aster dumosus			X	
Axonopus fissifolius			X	
Baccharis glomeruliflora		X		
Bacopa monnieri				X
Bidens alba			X	X
Bidens mitis		X	X	X
Boehmeria cylindrica		X	X	X
Campsis radicans			X	X
Carex longii		X		X
Carex lupuliformis		X		
Centella asiatica		X		
Cephalanthus occidentalis			X	
Cicuta maculata		X	X	
Cirsium nuttallii				X
Colocasia esculenta			X	X
Commelina diffusa		X	X	X
Conoclinium coelestinum		X		X
Conyza canadensis		X	X	X
Crinum americanum			X	
Cynodon dactylon				X
Cyperus polystachyos				X
Cyperus virens		X		
Dichondra caroliniensis	X			
Digitaria ciliaris		X	X	
Drymaria cordata			X	
Dyschoriste oblongifolia	X			X
Echinochloa walteri		X		X
Eichhornia crassipes		X		
Elephantopus elatus	X			
Emilia sonchifolia			X	

Species Name	Banktop	Channel	Riverbank	Shoreline
Erechtites hieracifolia				X
Erigeron quercifolius		X		X
Eryngium baldwinii	X	X	X	X
Eupatorium capillifolium		X	X	X
Fraxinus caroliniana			X	
Galactia volubilis	X		X	
Galium pilosum	X			
Gelsemium sempervirens	X			
Gnaphalium falcatum		X	X	X
Habenaria floribunda			X	
Heliotropium Amplexicaule		X		
Hydrocotyle ranunculoides		X		
Hydrocotyle species		X		
Hydrocotyle umbellata		X		
Hydrocotyle verticillatus		X		
Hygrophila costata		X		X
Hypoxis curtissii			X	X
Hyptis verticillata			X	
Ipomoea alba			X	
Ipomoea species	X			
Juncus effusus		X	X	X
Juncus marginatus				X
Lobelia glandulosa		X		
Ludwigia peruviana			X	
Lycopus rubellus			X	
Lygodium japonicum				X
Mikania scandens			X	
Myriophyllum aquaticum		X		
Nuphar lutea		X		X
Oplismenus hirtellus	X			
Oxalis corniculata	X	X	X	X
Panicum anceps			X	
Panicum commutatum	X	X	X	X
Panicum laxiflorum			X	
Panicum rigidulum			X	
Parietaria floridana		X	X	X
Parthenocissus quinquefolia			X	
Paspalum acuminatum				X
Paspalum conjugatum		X	X	X
Paspalum notatum	X		X	
Paspalum repens		X	X	
Paspalum setaceum	X			X

Species Name	Banktop	Channel	Riverbank	Shoreline
Phanopyrum gymnocarpon				X
Phyla nodiflora		X		X
Pistia stratiotes		X		
Pluchea odorata		X		
Polygala grandiflora			X	
Polygonum hydropiperoides		X		
Polygonum punctatum		X	X	X
Psychotria nervosa	X		X	
Ptilimnium capillaceum		X	X	X
Richardia brasiliensis			X	
Rubus trivialis			X	
Rumex verticillatus		X	X	X
Sabatia grandiflora		X		
Salix caroliniana			X	X
Salvia lyrata			X	
Salvinia minima		X		
Samolus valerandi		X		X
Scirpus tabernaemontani		X		
Senecio glabellus		X	X	X
Sida rhombifolia			X	
Smilax auriculata	X			
Smilax bona-nox	X		X	X
Smilax glauca	X			
Smilax laurifolia			X	
Solanum americanum		X	X	
Sporobolus indicus			X	
Stenotaphrum secundatum			X	
Thalia geniculata		X		
Thelypteris dentata			X	
Toxicodendron radicans		X	X	
Typha domingensis		X		
Urena lobata			X	X
Urochloa mutica		X	X	
Vicia floridana		X	X	X
Vitis aestivalis		X		
Vitis rotundifolia	X		X	
Youngia japonica			X	X
Shrub Layer				
Species Name	**Channel**	**Riverbank**		
Baccharis glomeruliflora	X	X		
Callicarpa americana		X		
Cephalanthus occidentalis		X		

Species Name	Banktop	Channel	Riverbank	Shoreline
Hypericum hypericoides		X		
Hypericum mutilum	X			
Ilex vomitoria		X		
Ludwigia peruviana	X	X		
Psychotria nervosa		X		
Sambucus canadensis		X		
Serenoa repens		X		
Sideroxylon reclinatum		X		
Tree Layer				
Species Name	**Banktop**	**Channel**	**Riverbank**	
Acer rubrum		X	X	
Aesculus pavia	X			
Carpinus caroliniana			X	
Carya aquatica			X	
Carya glabra	X			
Celtis laevigata	X	X	X	
Cinnamomum camphora		X		
Commelina diffusa			X	
Cornus foemina			X	
Crataegus marshallii	X			
Fraxinus caroliniana		X	X	
Liquidambar styraciflua	X	X	X	
Pontederia cordata		X		
Quercus laurifolia		X	X	
Quercus virginiana	X		X	
Sabal palmetto	X			
Ulmus americana		X		
Ximenia americana	X			

Macroinvertebrates collected from the Upper Peace River. Collections were made by Lanquist (1953) whose data is shown in the first 5 columns. Last column data was obtained from Farrell and Billetts (1987) Only data from collection sites near SWFWMD instream habitat sites were chosen and reported. Station assignment by Lanquist and Farrell and Billets and corresponding SWFWMD sites are as follows: Site 13 = near Bartow, SWFWMD sites 181 and 178; Site 11 = near Homeland, SWFWMD sites 146 and 143; Site 9 = near Ft. Meade, SWFWMD site 119; Site 7 = near Bowling Green, SWFWMD Site 52; Site 5 = near Zolfo Springs, SWFWMD Site 15; Site 664 = near Bowling Green, SWFWMD Site 52.

Macroinvertebrate Species **Peace River Stations**

	13	11	9	7	5	664
Porifera						
Spongilla ingloviformis			X		X	
Spongilla lecustris					X	
Coelenterata						
Hydra sp.	X					
Turbellaria						
Microdalyellia sp.		X				
Dugesia sp.	X	X	X	X	X	
Planarian sp. 1						X
Nemertea						
Prostoma rubrum		X	X	X	X	
Nematomorpha						
Paragordius varius					X	
Oligochaeta						
Aelosoma sp.	X	X		X	X	
Naididae	X	X	X	X	X	
Stylaria lacustris	X	X				
Dero sp.	X					
Aulophorus sp.	X	X				
Tubificid spp.	X	X	X	X	X	X
Lumbriculidae	X	X	X	X	X	
"Earthworm" sp. 1						X
Limnodrilus hoffmeisteri						X
Nais pardalis						X
Pristina longisoma						X
Hirudinea						
Helobdella elongata						X
Helobdella stagnalis	X	X				X
Helobdella trisericalis						X
Placobdella parasitica		X				X
Placobdella papillifera						X

Macroinvertebrate Species	Peace River Stations					
	13	11	9	7	5	664
Placobdella multilineata	X	X				
Placobdella sp. A		X	X			
Placobdella sp. B			X	X	X	
Batrachobdella phalera	X					X
Unidentified Glossiphonidae	X	X	X	X	X	
Philobdella floridana					X	
Dina sp. A	X	X	X	X	X	
Crustacea						
Asellidae, unid.	X	X		X		
Hyalella azteca	X	X	X		X	
Palaemonetes paludosa	X	X	X	X	X	
Procambarus alleni	X	X	X		X	
P. fallax	X	X	X	X	X	
P. sp.	X	X	X	X	X	
Callinectes sapidus			X		X	
Amphipoda						
Hyalella azteca						X
Isopoda						
Asellus racovitzai						X
Asellus sp. 1						X
Decapoda						
Astachid sp. 1						X
Palaemonetes paludosus						X
P. fallax						X
Hydracarina						
Hydrachna sp.					X	
Eylais sp.					X	
Hydrodroma sp.					X	
Atractides sp.				X		
Limnesia sp.	X					
Tyrellia sp.	X					
Hygrobates sp.	X					
Neumania sp.		X			X	
Mideopsis sp.	X	X		X		
Unid. *Hydracarina*	X	X	X	X	X	
Collembola						
Podura sp.				X		
Ephemeroptera						
Stenonema exiguum	X	X	X	X	X	X
S. proximum	X		X			
Tricorythodes albilineatus			X	X	X	X
Caenis diminuta	X	X	X	X	X	X
Callibaetis floridanus	X	X	X	X		X
C. pretiosus				X		

Macroinvertebrate Species	Peace River Stations					
	13	11	9	7	5	664
Baetis ehippiatus						X
Baetis spinosus	X	X	X	X	X	
B. intercalaris			X	X	X	X
B. propinguus						X
Centroptilum hobbsi			X	X	X	X
C. viridocularis						X
Pseudocloeon alachua			X	X		X
Stenacron interpunctatum						X
Brachymesia macultus						X
Anisoptera						
Aphylla williamsonii	X	X	X	X	X	X
Hagenius brevistylus			X	X		X
Dromogomphus spinosus			X	X	X	X
Gomphus dilatatus		X	X	X	X	X
Gomphus minutus	X		X	X	X	X
G. pallidus	X	X				
G. plagiatus	X	X	X	X	X	X
Boyeria vinosa		X	X	X		X
Nasiseschna penthacantha	X	X	X		X	
Anax junius				X		
Macromia georgina						X
M. taeniolata						X
M. sp.	X	X	X	X	X	
Epicordulia regina		X	X	X	X	
Tetragoneuria spp.				X	X	X
Libellula vibrans	X	X		X		
L. spp.						X
Orthemis ferruginea	X		X			
Perithemis seminole	X		X		X	
Pachydiplax longipennis	X	X			X	
Cannacria gravida	X					
Miathyria marcella	X					
Zygoptera						
Hetaerina titia		X	X	X	X	X
Argia fumipennis		X			X	
A. moesta			X	X		X
A. sedula	X	X	X	X	X	X
Ischnura posita	X	X				X
I. Ramburii	X			X	X	X
Enallagma cardinium	X	X	X	X	X	X
E. pollutum						X
E. sp.	X	X		X	X	
Hemiptera						
Mesovelis mulsanti	X	X	X	X	X	

Macroinvertebrate Species	Peace River Stations					
	13	11	9	7	5	664
M. amoena	X	X	X			
Hydrometra myrae	X	X	X	X	X	
Microvelia borealis	X	X				
M. hinei	X		X	X		
Rhagovelia choreutes			X	X	X	
Velia brachialis	X		X	X	X	
Gerris capaliculatus			X	X	X	
Gerris sp. 1						X
Limnogonus hesione	X		X	X	X	
Metrobates a. anomalus				X	X	
Rheumatobates tenuipes					X	
Pelocoris femoratus	X	X	X	X	X	
Pelocoris sp. 1						X
P. sp. A	X		X		X	
Ranatra nigra	X	X	X	X	X	
Ranatra sp. 1						X
R. buenoi			X		X	
R. drakei			X	X	X	
R. australis	X	X	X	X	X	
Benacus griseus		X	X	X		
B. testaceum	X	X	X			
Belostoma	X					
Plea striola	X					
Sigera bradleyi	X	X	X	X	X	
Palmacorixa buenoi		X			X	
Trichocoriza louisianae	X	X	X	X	X	
T. minima			X	X	X	
T. naias			X	X	X	
Megaloptera						
Corydalis cornutus						X
Neuroptera						
Corydalis cornutus	X		X	X	X	
Chauliodes sp.	X					
Trichoptera						
Chimarra perigus			X	X	X	
Neureclipsis sp.	X	X	X	X	X	
Polycentropus cinereus						X
Polycentropus sp.	X	X				
Cyrnellus fraternus						X
Cyrnellus marginalis		X	X	X	X	
Nyctiophylax sp. 1						X
Ochrotrichia sp. 1						X
Psychomyiid Genus A.	X	X			X	
Triaenodes sp. 1						X

Macroinvertebrate Species	**Peace River Stations**					
	13	**11**	**9**	**7**	**5**	**664**
Hydropsyche incommoda			X	X	X	
Hydropsyche sp. 1						X
Cheumatopsyche spp.	X	X	X	X	X	X
Nectopsyche exquisita						X
N. pavida						X
Oxyethira spp.		X				X
Orthotrichia sp.	X				X	
Hydroptila berneri			X	X		
H. sp. 1						X
Neotrichia ranea		X	X	X	X	
Leptocella candida	X		X	X	X	
L. exquisita			X	X	X	
L. sp. A					X	
Oecetis cinerescens			X			
O. cinerescens form B	X					
O. inconspicua	X		X	X	X	X
O. sp. 1						X
O. sp. 2						X
O. sp. 3						X
O. sp. C	X			X	X	
Lepidoptera						
Elophila sp.		X				
Paraponyx sp. 1						X
Coleoptera						
Colpius inflatus	X				X	
Pronoterus semipunctatus	X					
P. addendus	X					
Hydrocanthus oblongus	X	X	X	X	X	
H. similator	X	X			X	
H. sp., larva		X				
Suphisellus puncticollis				X	X	
S. gibbulus	X	X	X	X	X	
S. sp. A	X	X			X	
Laccophilus proximus	X	X	X	X	X	
L. gentilis	X	X	X		X	
L. sp., larva		X				
Hydrovatus compressus	X	X	X		X	
Desmopachria grana					X	
Brachyvatus seminulum	X	X	X	X		
Bidessus pullus floridanus					X	
Anodochilus exiguus				X	X	
Bidessonotus longivalis					X	
B. pulicarius			X		X	
Hygrotus acaroides marginipennis			X		X	

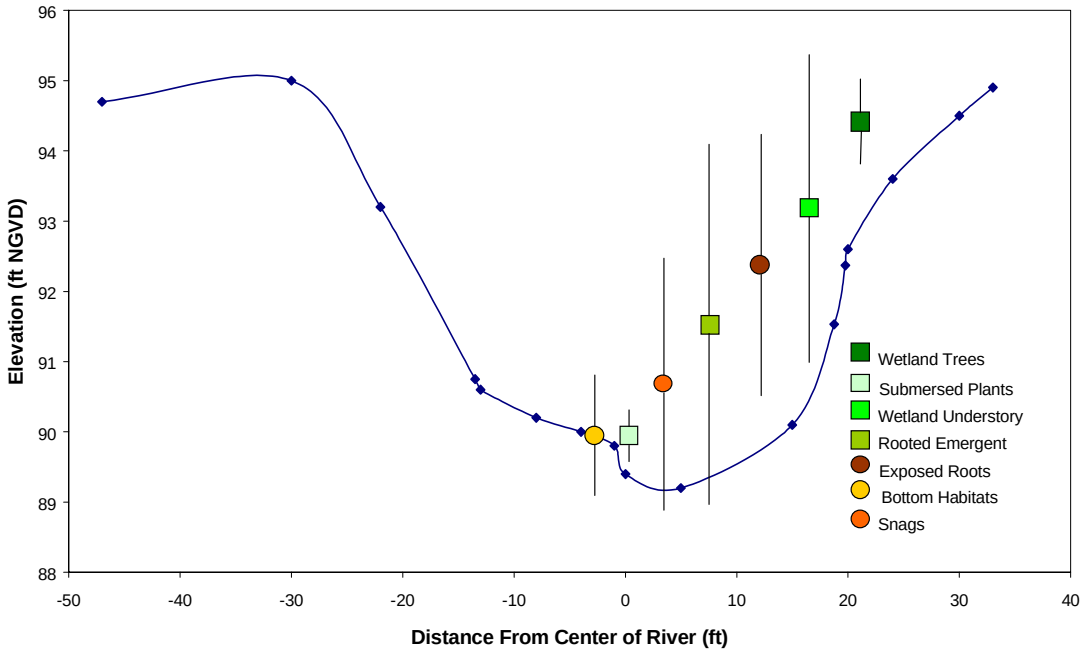
Macroinvertebrate Species	Peace River Stations					
	13	11	9	7	5	664
Hydroporus of. *vittatipennis*			X	X	X	
H. lynceus complex	X		X		X	
Celina angustata			X			
C. slossoni				X		
Copelatus caelatipennis		X			X	
C. chevrolati	X	X				
Coptotomas interrogatus obscurus	X	X	X	X	X	
Hydaticus bimarginatus			X			
Thermonectes basilaris	X		X			
Cybister fimbriolatus			X			
C. fimbriolatus, larva	X	X				
Peltodytes floridensis	X		X	X	X	
P. oppositus			X	X	X	
P. sexmaculatus			X	X	X	
P. sp. A	X	X	X	X	X	
P. sp., larva		X				
P. sp. 1						X
Scirtes sp. 1						X
Haliplus confluentus			X		X	
H. annulatus					X	
H. punctatus			X		X	
H. sp., larva					X	
Dineutes carolinus	X	X	X	X	X	
D. serrulatus	X	X	X	X	X	
D. sp., larva	X	X	X		X	
D. sp. 1						X
Gyrinus rockinghamensis	X			X	X	
G. elevatus	X		X	X	X	
G. pachysomus	X	X	X	X	X	
G. sp., larva		X	X	X	X	
G. sp. 1						X
Hydraena marginicollis	X	X	X	X	X	
Hydrochus foveatus			X		X	
H. equicarinatus	X	X	X	X	X	
H. rugosus			X		X	
H. sp. 1						X
Paracymus nanus	X	X	X	X	X	
Dubiraphia sp. 1						X
Enochrus nebulosus		X				
E. ochraceus	X	X	X	X	X	
E. sublongus		X	X	X	X	
E. blatchleyi	X	X	X	X	X	
E. consors		X	X	X		
E. cinctus			X	X	X	

Macroinvertebrate Species	Peace River Stations					
	13	11	9	7	5	664
E. sp., larva	X					
Helobata striata					X	
Tropisternus lateralis	X	X	X	X	X	
T. blatchleyi	X		X			
T. of. *Natator*	X					
T. striolatus	X	X	X	X	X	
T. sp., larva	X		X	X	X	
Berosus pugnax	X		X	X	X	
B. exiguus	X	X	X	X	X	
B. infuscatus	X	X	X	X	X	
B. sp., larva	X					
Pelonomus obscurus gracilipes				X	X	
Stenelmis fuscata	X	X	X	X	X	
S. sp., larva	X	X	X	X	X	
S. sp. 1						X
Microcylloepus pusillus			X			X
Simsonia quadrinotata		X	X	X	X	
S. sp., larva	X	X		X	X	
Chironomidae						
Ablabesmyia mallochi						X
A. parajanta						X
A. tarella						X
Chironomini sp. A						X
Cladotanytarsus sp. 1						X
C. sp. 2						X
Clinotanypus sp. 1						X
Corynoneura celeripes						X
C. taris						X
C. sp. 1						X
Cricotopus bicinctus						X
Cricotopus sp. 1						X
Cryptochironomus blarina						X
C. fulvus						X
Cryptochironomus sp. 1						X
Dicrotendipes modestus						X
D. neomodestus						X
L. neopilosella						X
Micropsectra sp. 1						X
M. sp. 2						X
Nanocladius sp. 1						X
Paralauterborniella nigrohalteralis						X
Pentaneura inculta						X
Polypedilum convictum						X
P. halterale						X

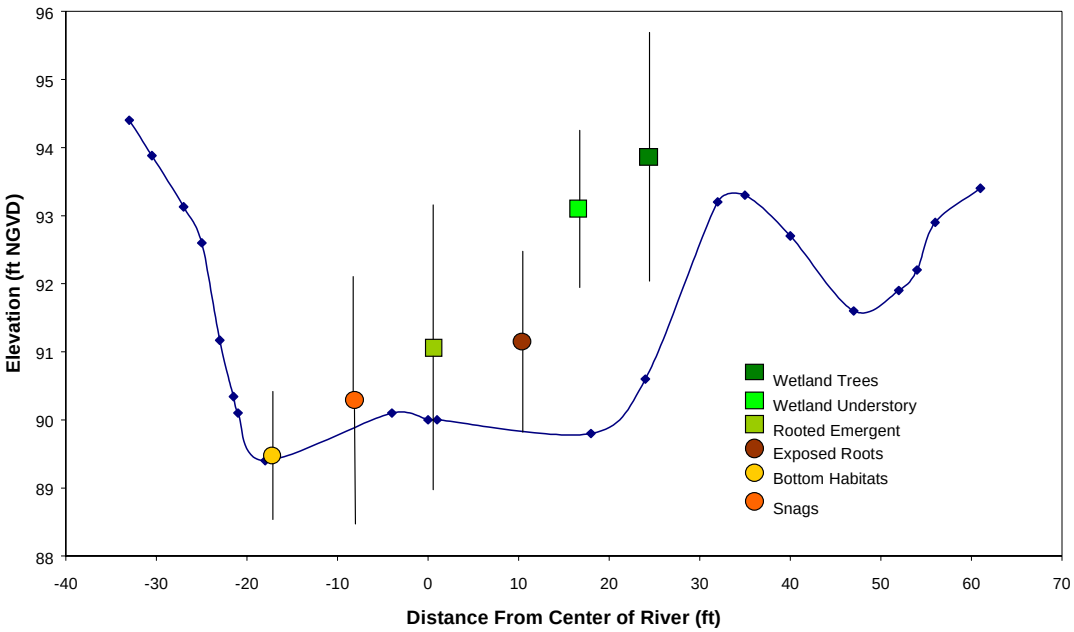
Macroinvertebrate Species	Peace River Stations					
	13	11	9	7	5	664
P. illinoense						X
Procladius sp. 1						X
Psectrocladius sp. 1						X
Pseudochironomus fulviventris						X
Rheocricotopus robacki						X
Rheotanytarsus exiquus						X
Stenochironomus hilaris						X
Tanytarsus sp. 1						X
Thienemanniella cf. *Fusca*						X
T. xena						X
Tribelos fusicornis						X
Diptera						
T. caloptera			X		X	
Chaoborus punctipennis	X					
Chaoborus sp. 1						X
Anophelos sp.	X					
Culax sp.	X					
Simulium jenningsi		X	X	X	X	
Simulium sp. 1						X
Tendipedidae	X	X	X	X	X	
Pelopiinae	X	X	X	X	X	
Tendipedinae	X	X	X	X	X	
Calopsectrini	X	X	X	X	X	
Ceratopogonid sp. 1						X
C. sp. 3						X
C. sp. 4						X
Tendipes militaris	X	X	X	X	X	
T. decorus	X	X	X	X	X	
Cryptochironomus sp. B				X	X	
Atrichopogon sp. A	X	X	X		X	
Palpomyia group A			X		X	
P. group	X	X	X	X	X	
Empididae sp. 1						X
Heleidae Genus A					X	
Euparyphus sp.	X					
Nemotelus sp.		X				
Odontomyia sp.	X					
Chrysops sp.			X			
Tabanus sp.			X		X	
Roederiodes sp.			X	X	X	
Eristalis sp.	X	X				
Muscoides Genus A			X			
Brachydeutera sp.	X					
Pelecypoda						

Macroinvertebrate Species	Peace River Stations					
	13	**11**	**9**	**7**	**5**	**664**
Elliptio buckleyi		X	X	X	X	
Byssanodonta sp.		X	X	X	X	
Sphaerium transversum	X	X	X	X	X	
Pisidium casertanum			X			
P. singleyi		X	X	X	X	
Bivalvia						
Corbicula manilensis						X
Elliptio buckleyi						X
Pisidium sp. 1						X
Gastropoda						
Pomacea paludosa	X	X	X			X
Viviparus georgianus	X		X			X
Amnicola dalli						X
Amnicola sp.				X	X	
Lymnaea columella			X	X	X	
Helisoma duryi	X	X		X	X	
H. trivolvis intertextum	X	X	X	X	X	
Menetus dilatatus		X	X		X	
Ferrissia sp. A	X	X	X	X	X	
F. sp. B				X	X	
Physa pomilis	X	X	X	X	X	
Gyraulus parvus						X
Hebetancylus excentricus						X
Laevapex fuscus						X
Physella sp. 1						X
Planorbella cf. *Duryi*						X

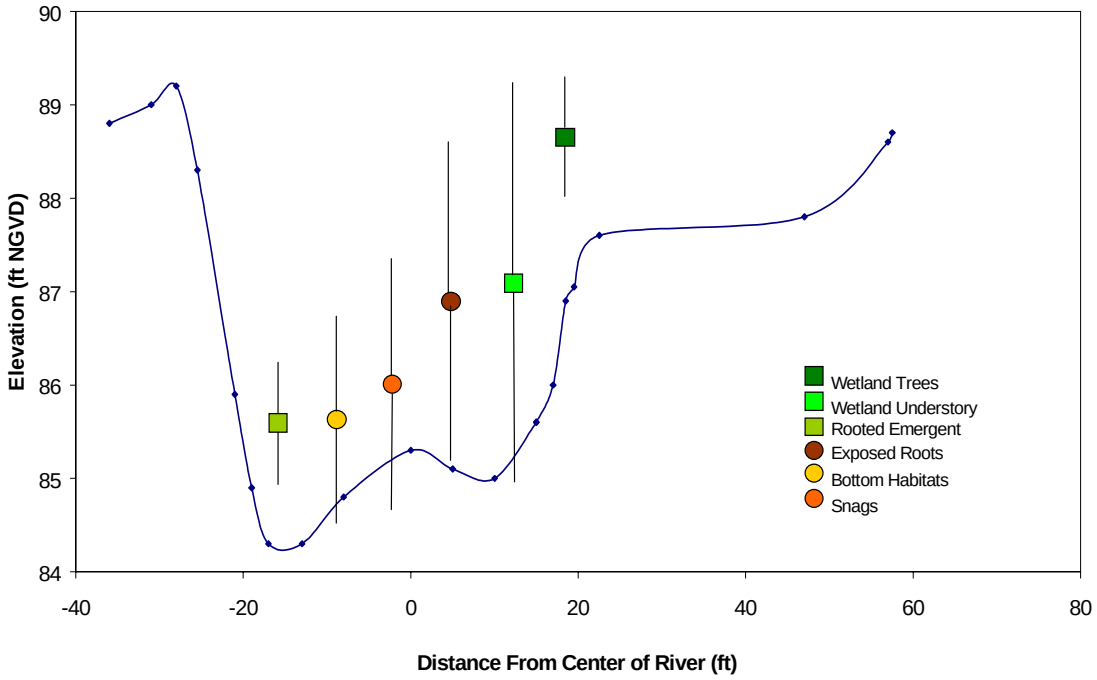
Instream Habitat Distribution - Site 181



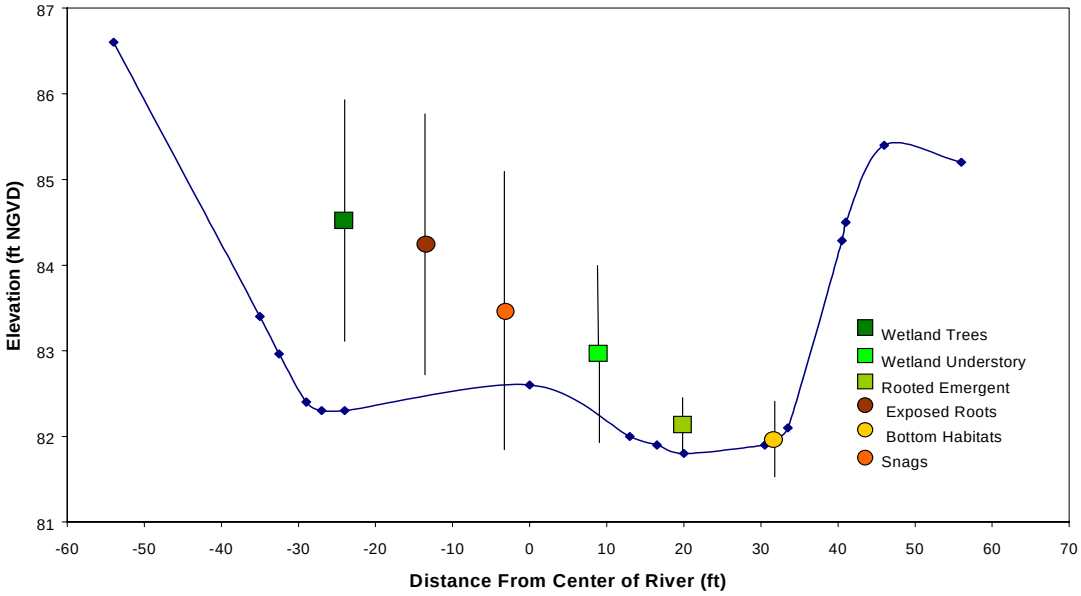
Instream Habitat Distribution - Site 178



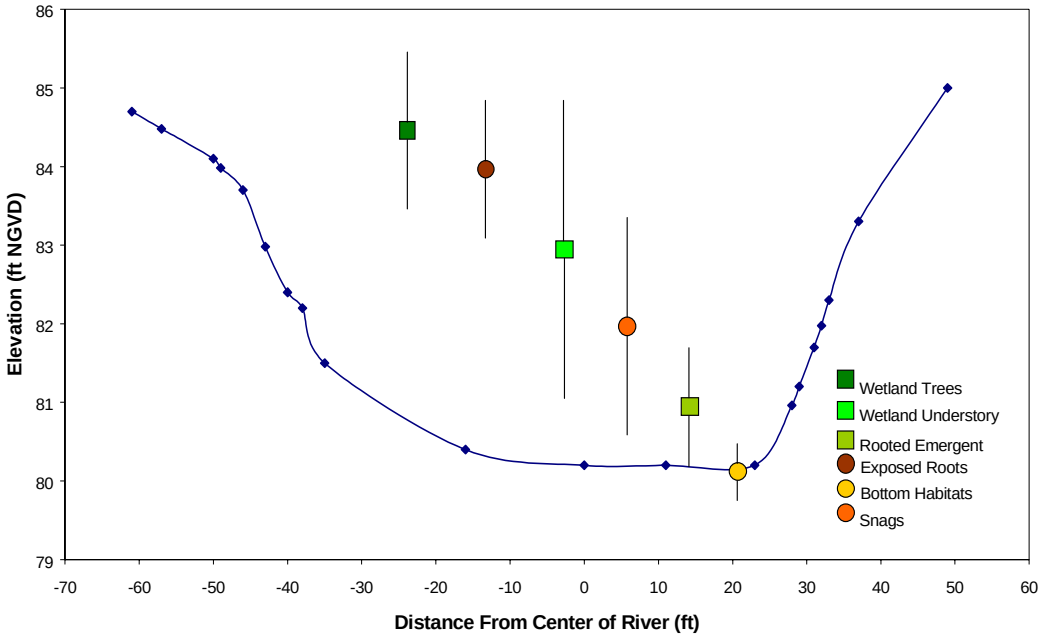
Instream Habitat Distribution - Site 161



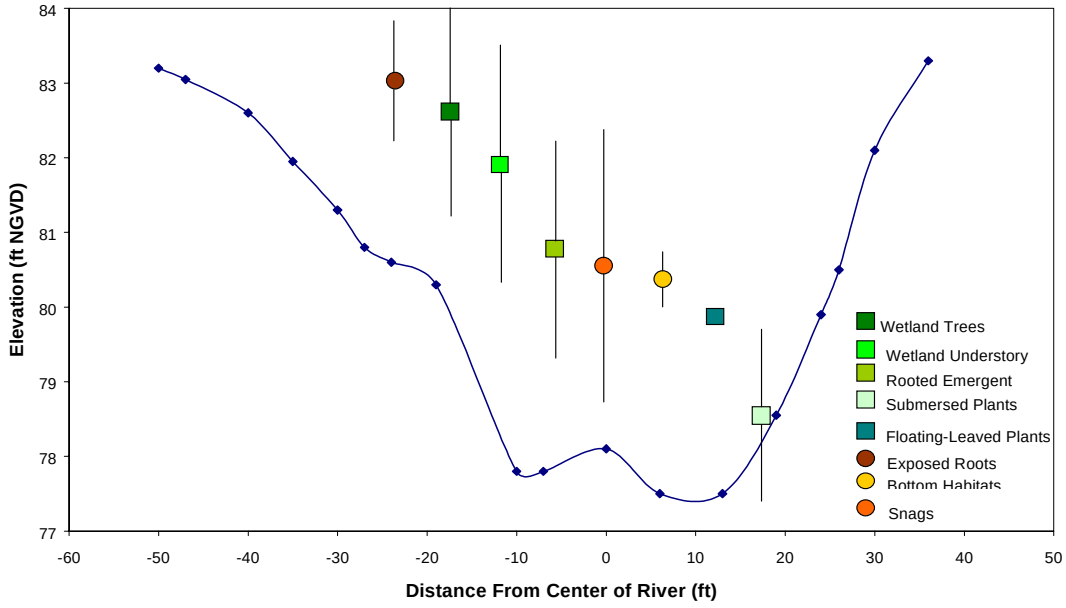
Instream Habitat Distribution - Site 150



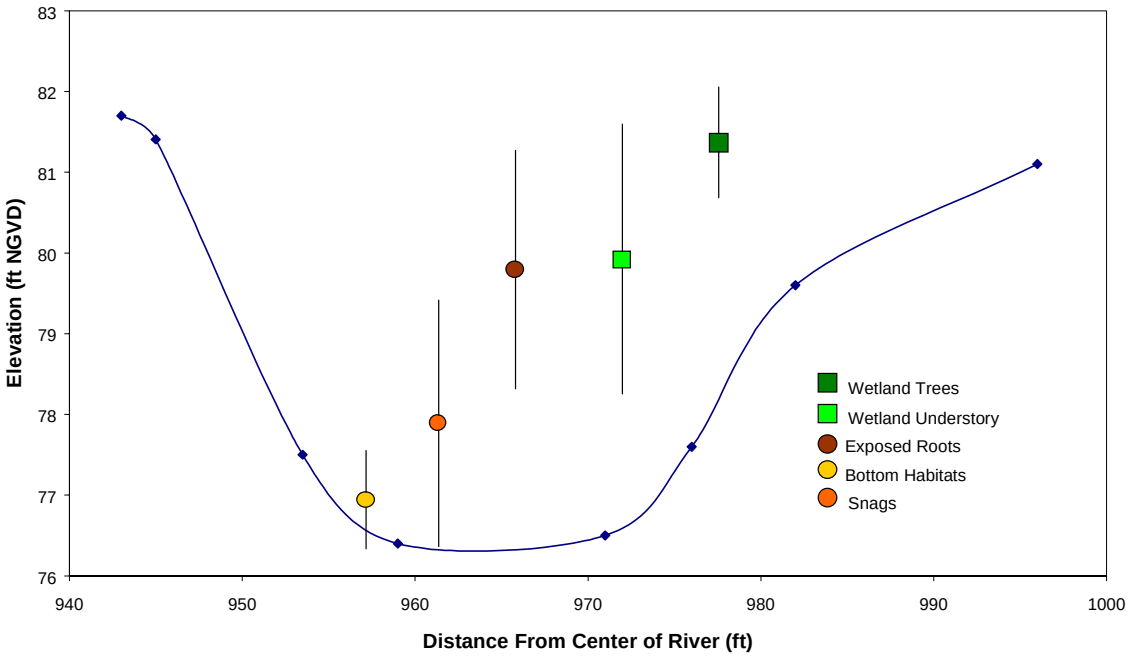
Instream Habitat Distribution - Site 146



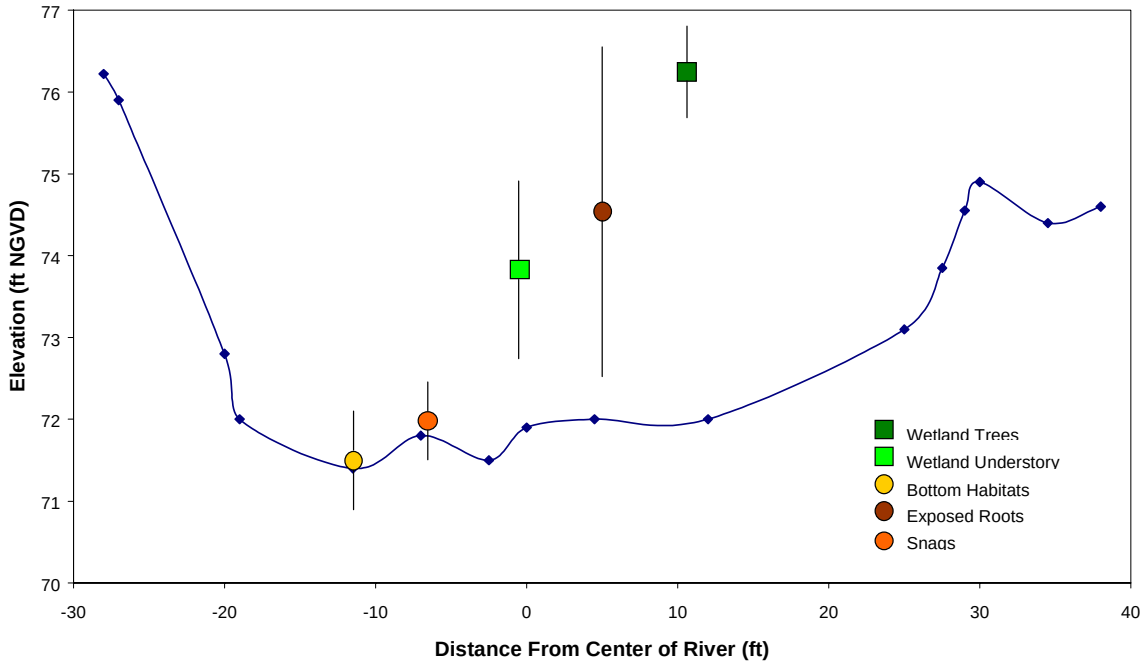
Instream Habitat Distribution - Site 143



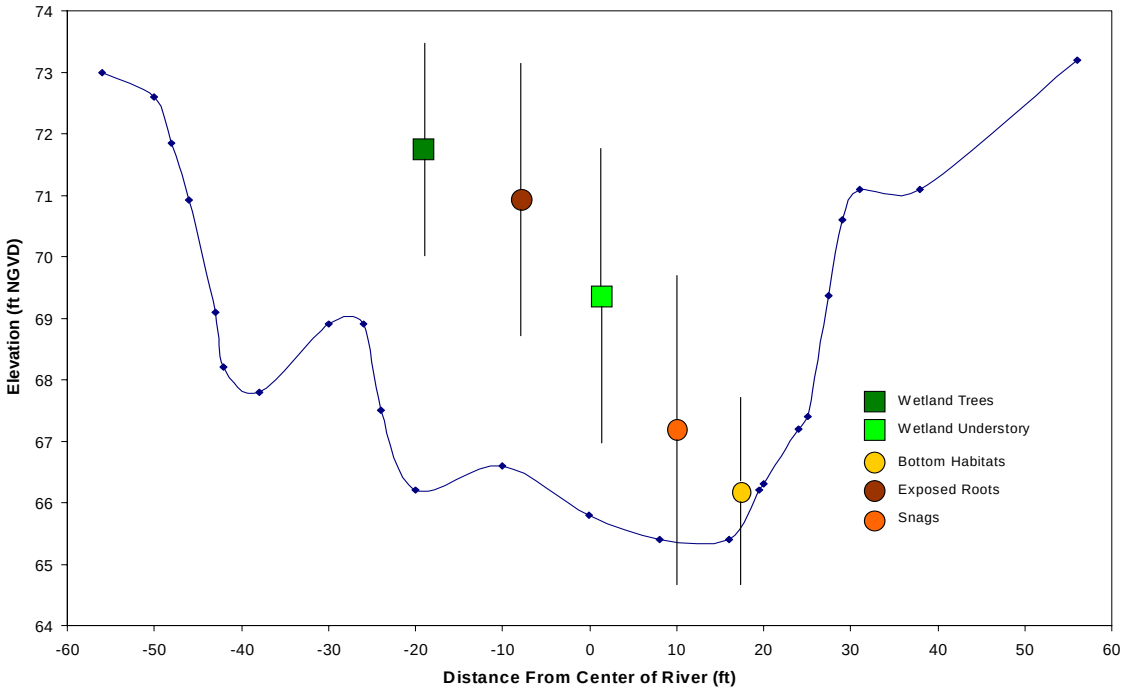
Instream Habitat Distribution - Site 134



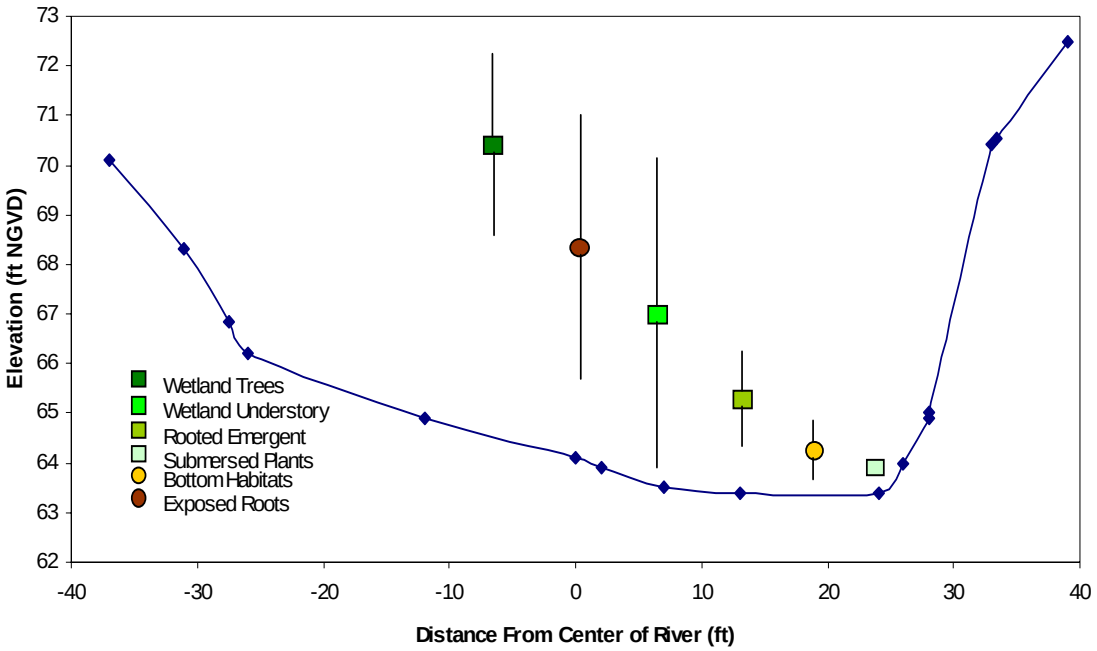
Instream Habitat Distribution - Site 119



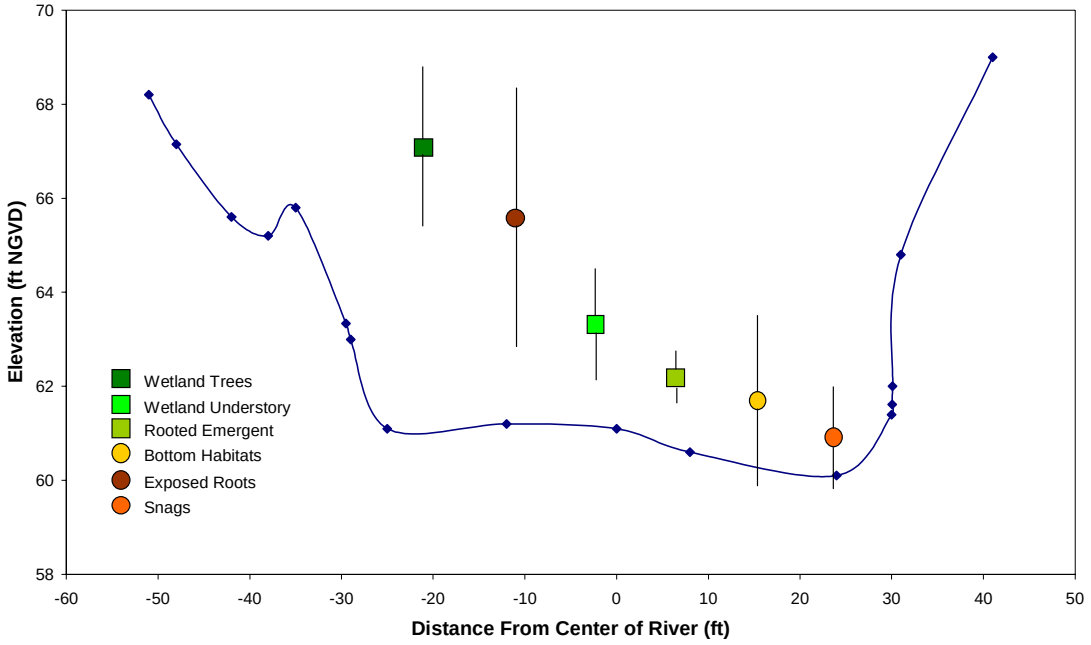
Instream Habitat Distribution - Site 106



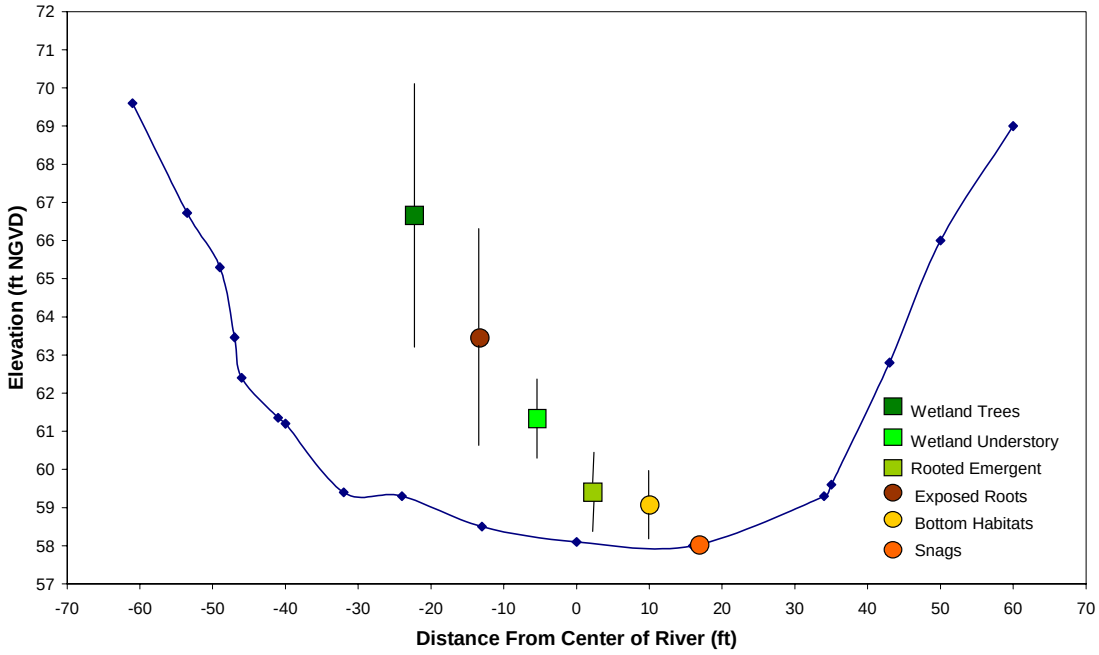
Instream Habitat Distribution - Site 99



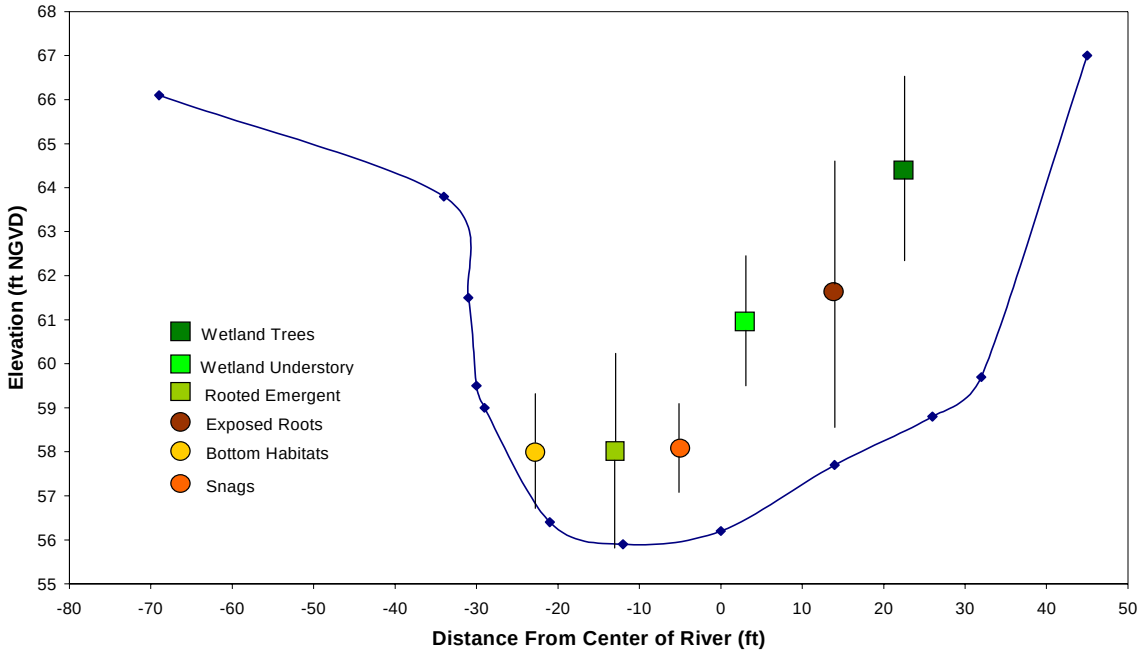
Instream Habitat Distribution - Site 91



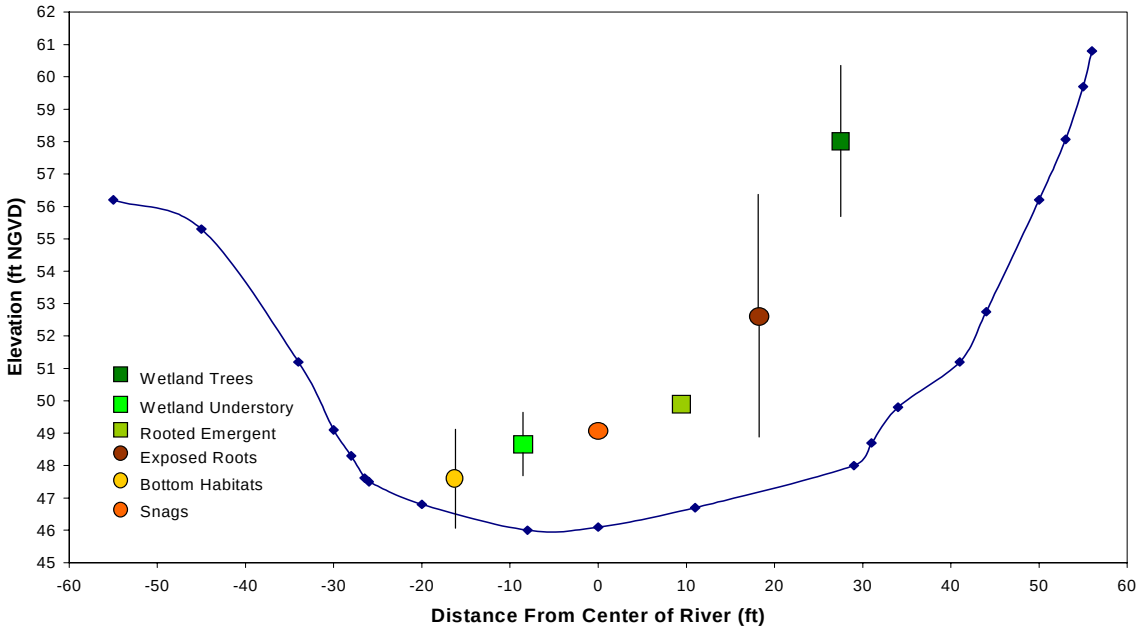
Instream Habitat Distribution - Site 83



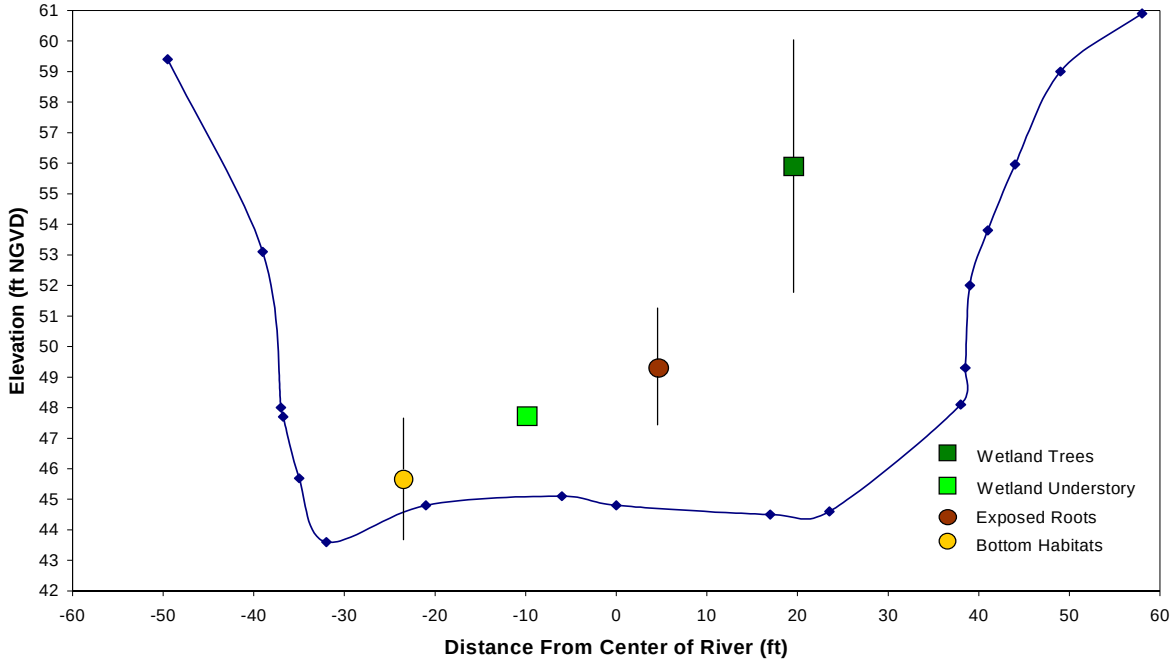
Instream Habitat Distribution - Site 79



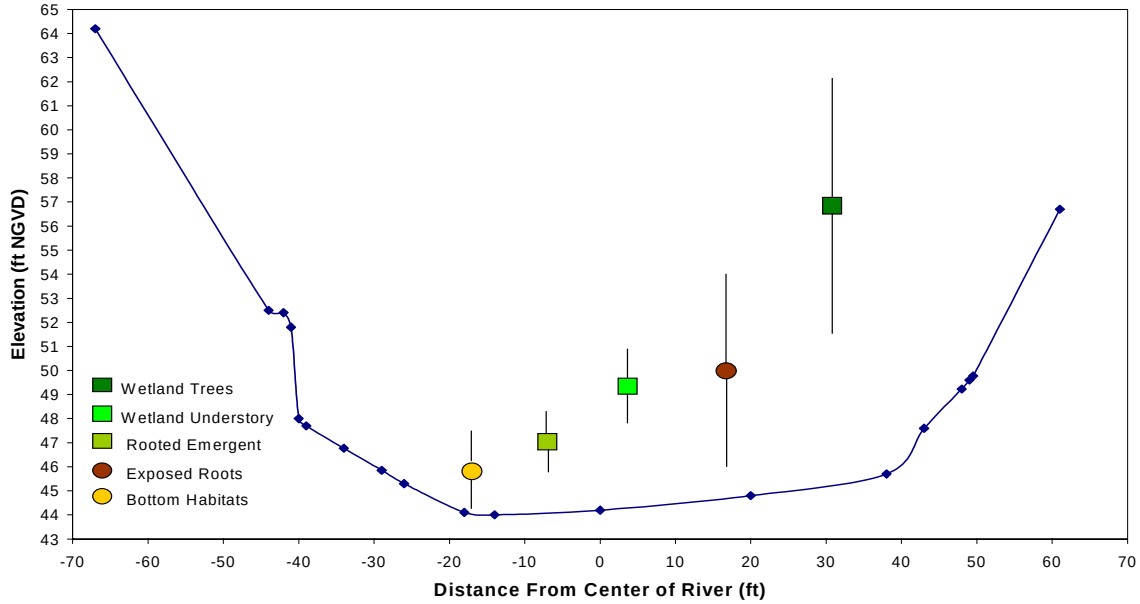
Instream Habitat Distribution - Site 52



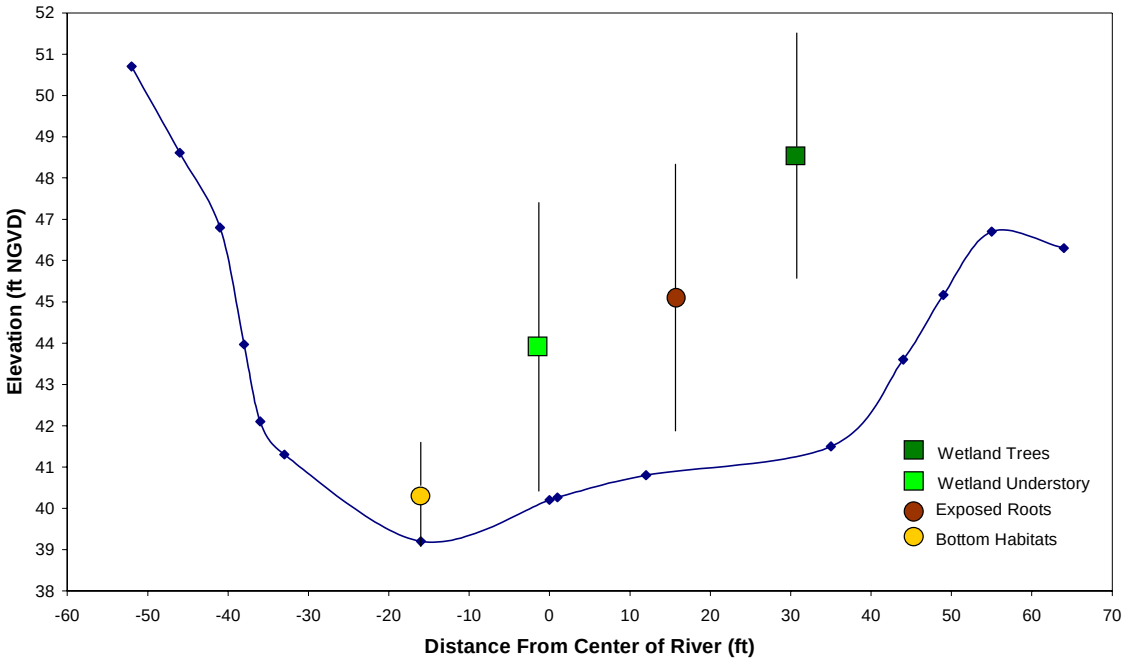
Instream Habitat Distribution - Site 49



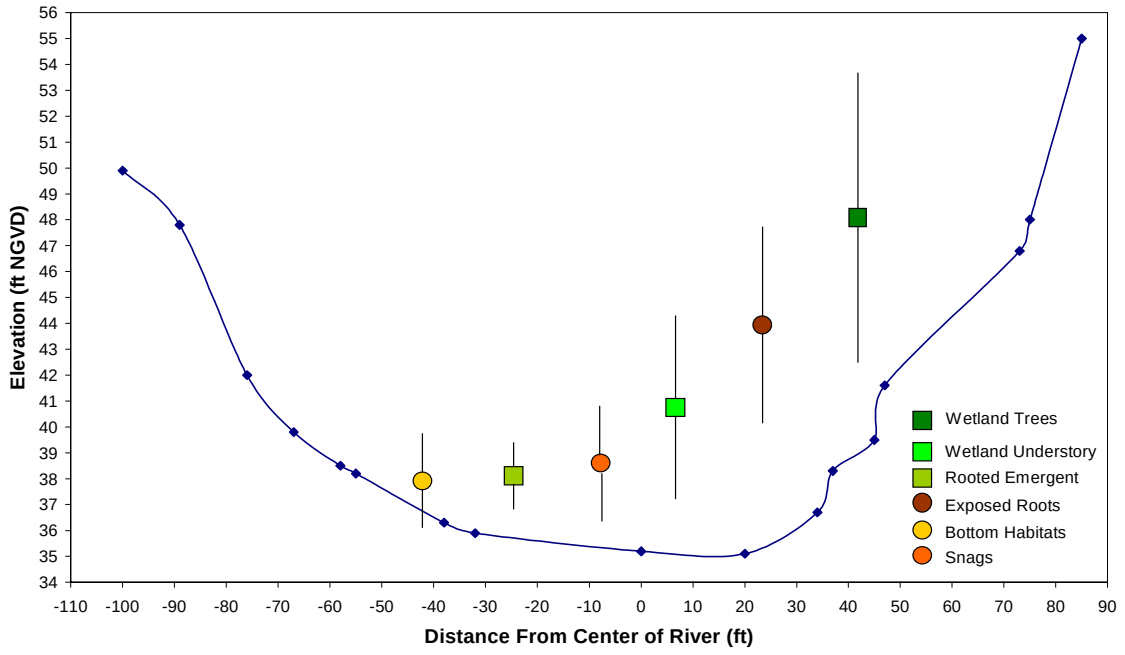
Instream Habitat Distribution - Site 48

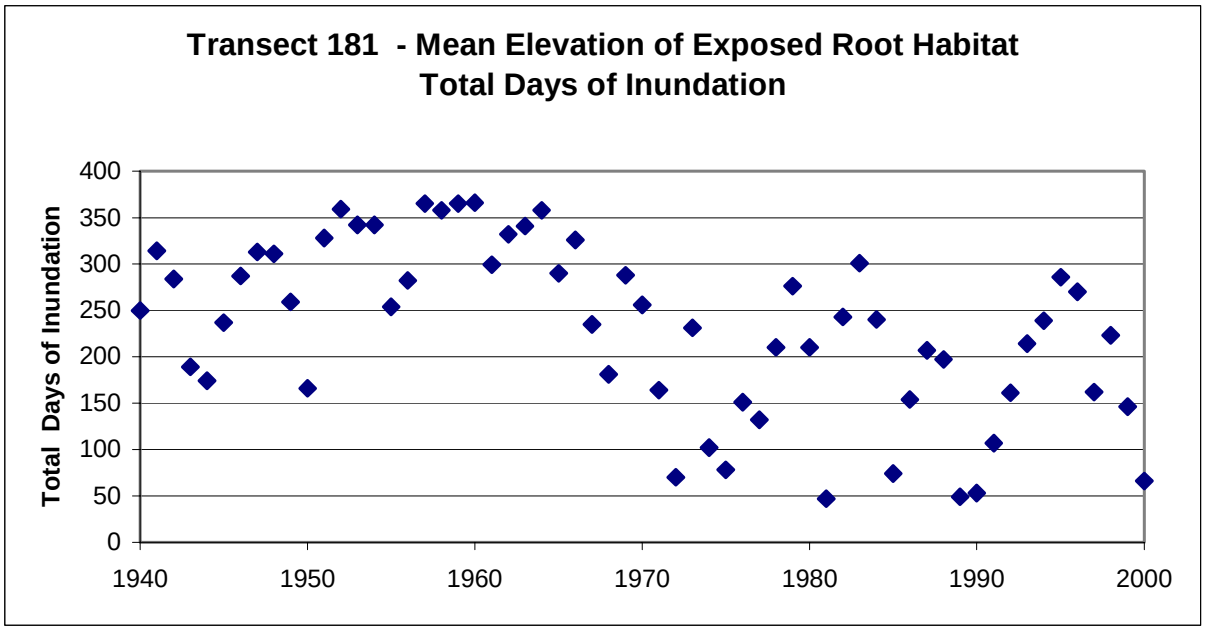


Instream Habitat Distribution - Site 33



Instream Habitat Distribution - Site 15




Transect 181 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
400
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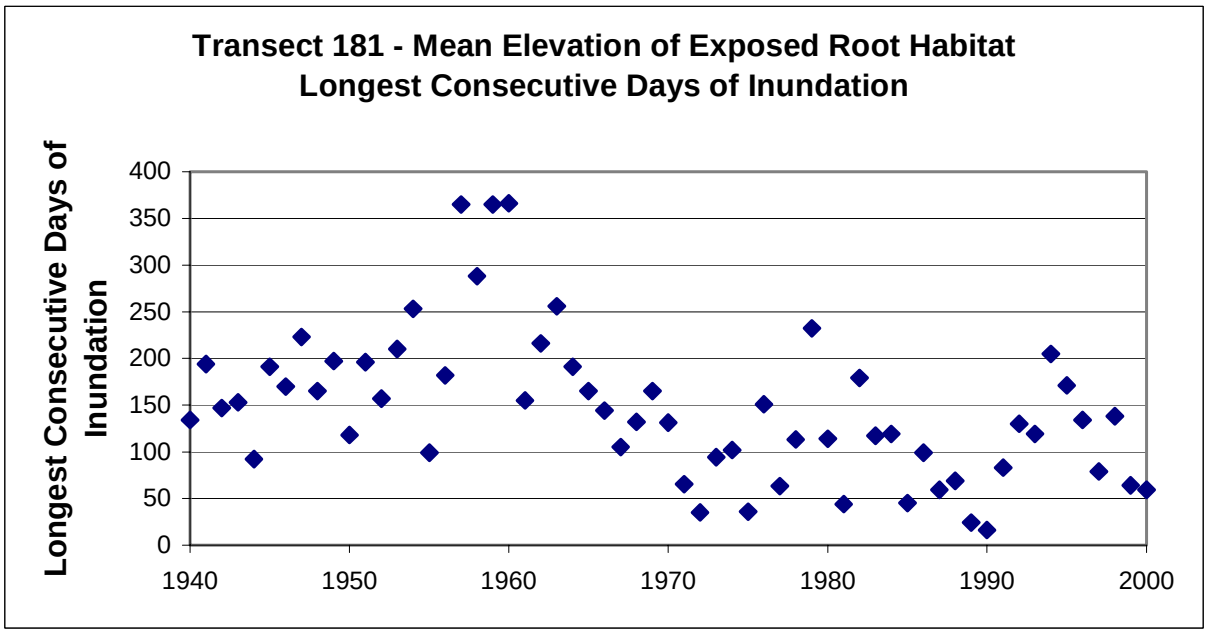
Transect 181 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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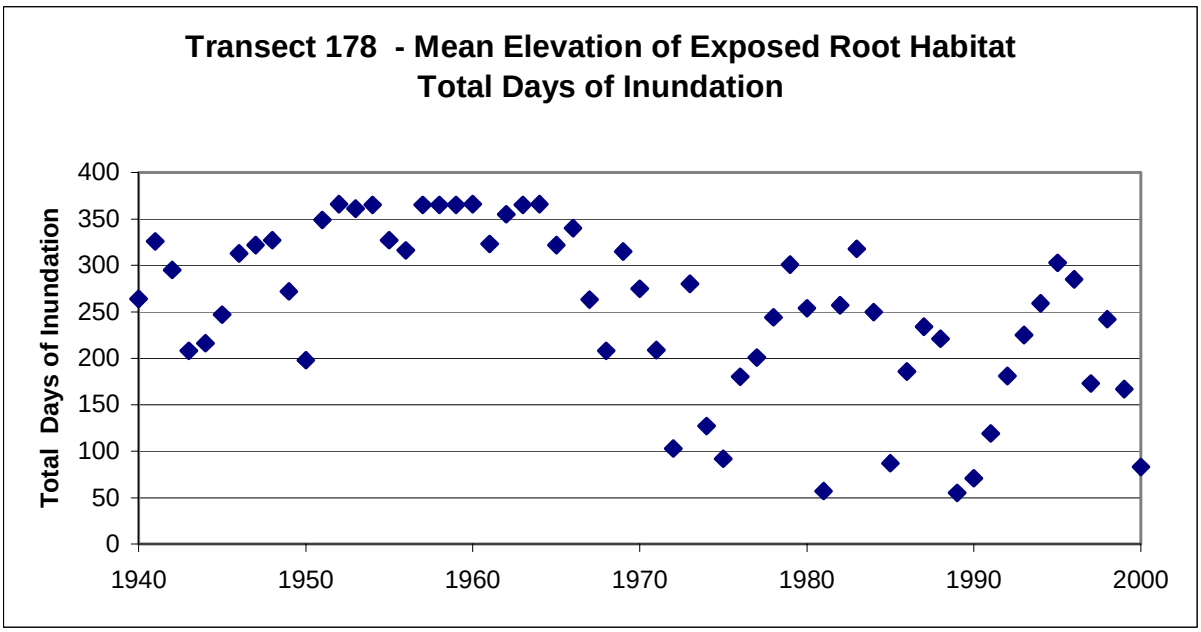
Transect 178 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
400
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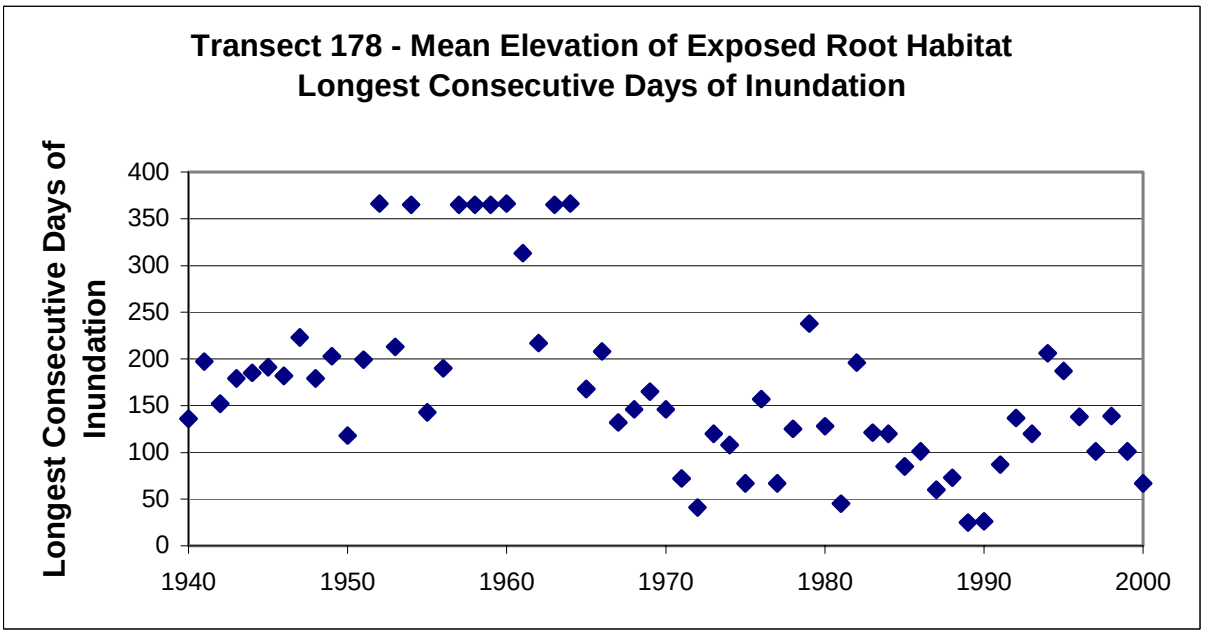
Transect 178 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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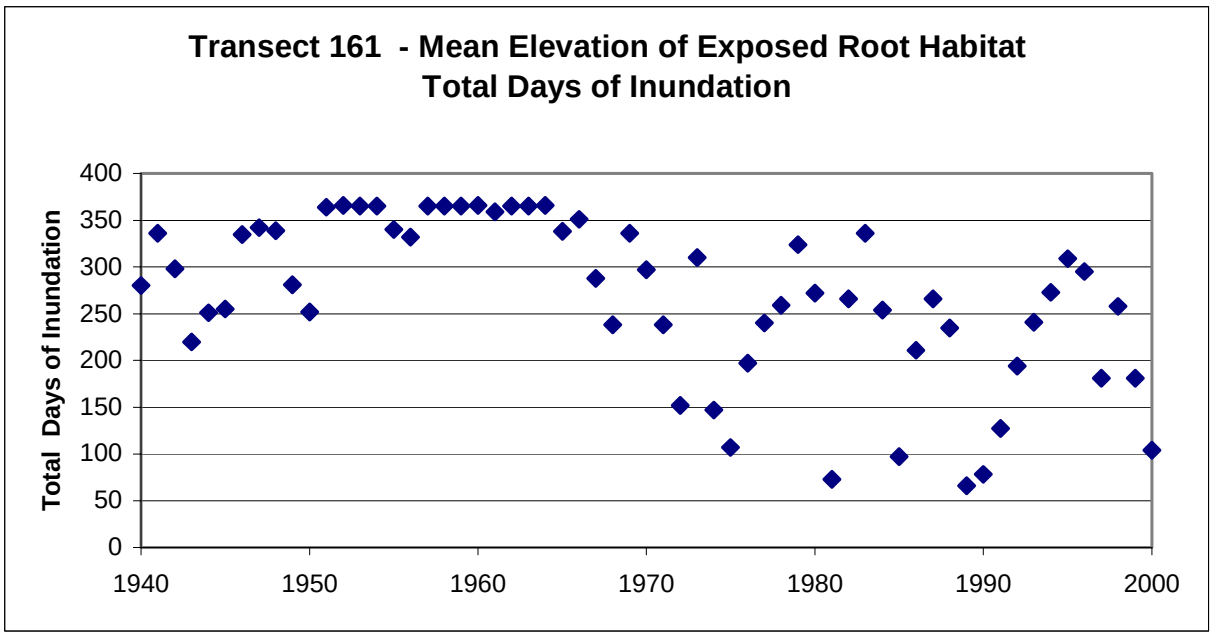
Transect 161 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
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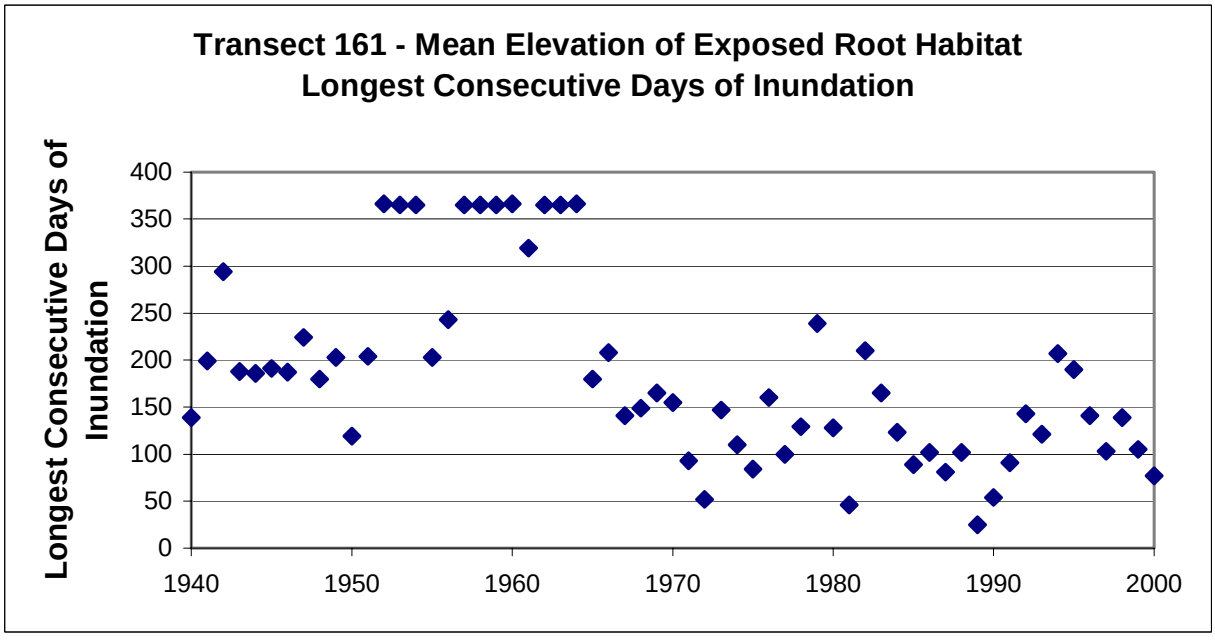
Transect 161 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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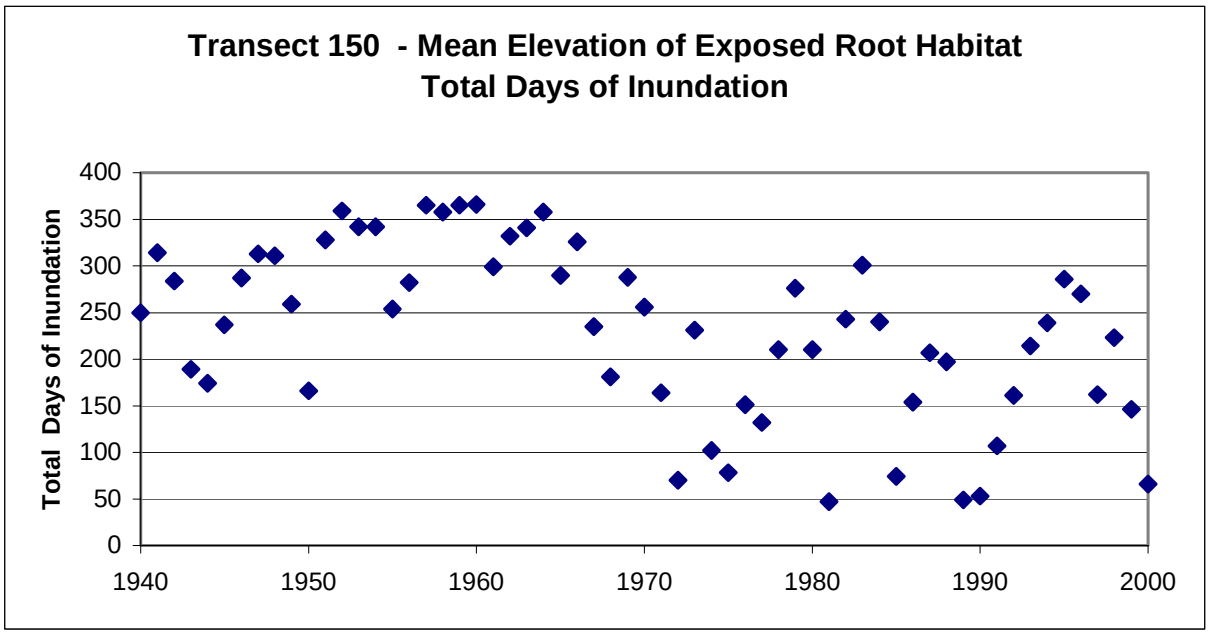
Transect 150 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
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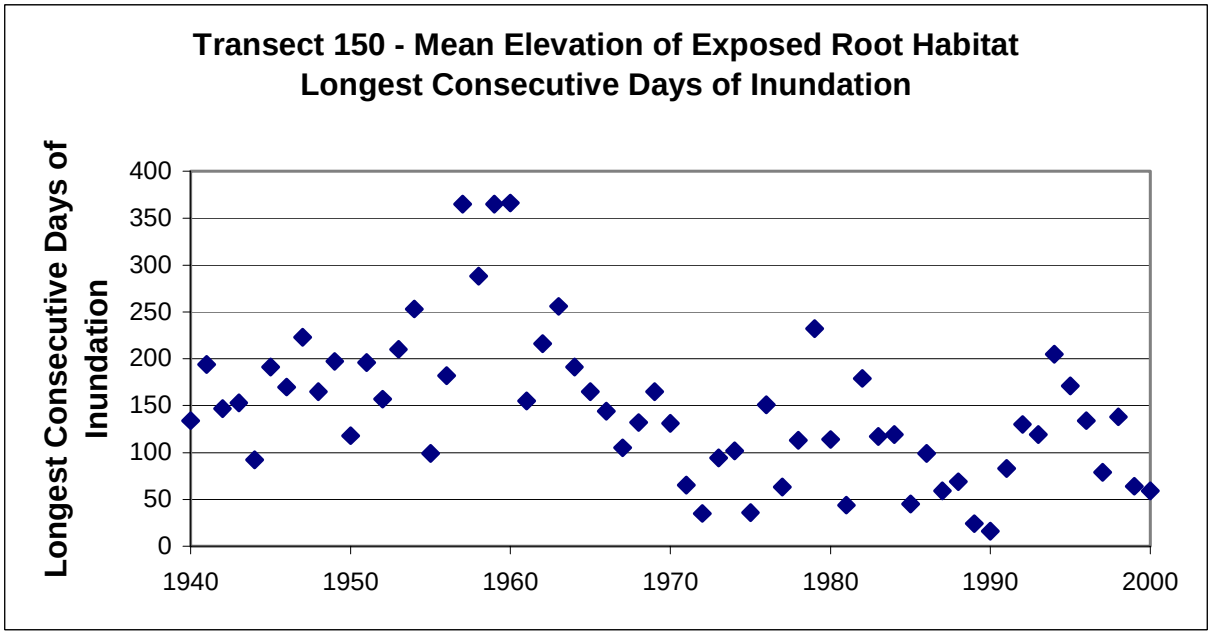
Transect 150 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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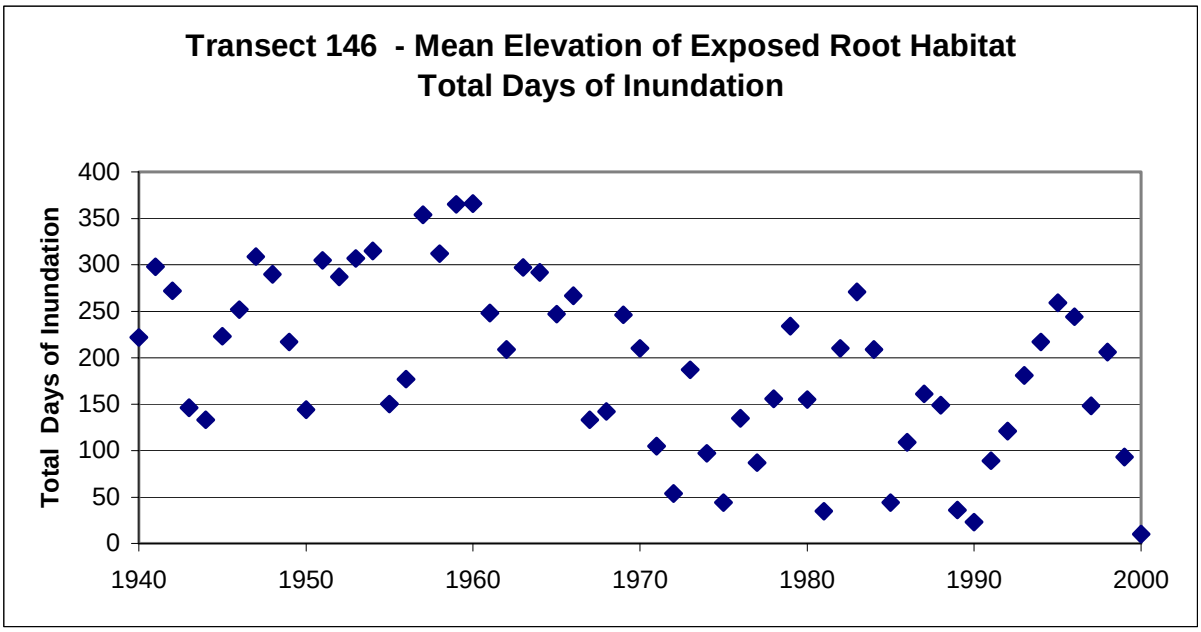
Transect 146 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
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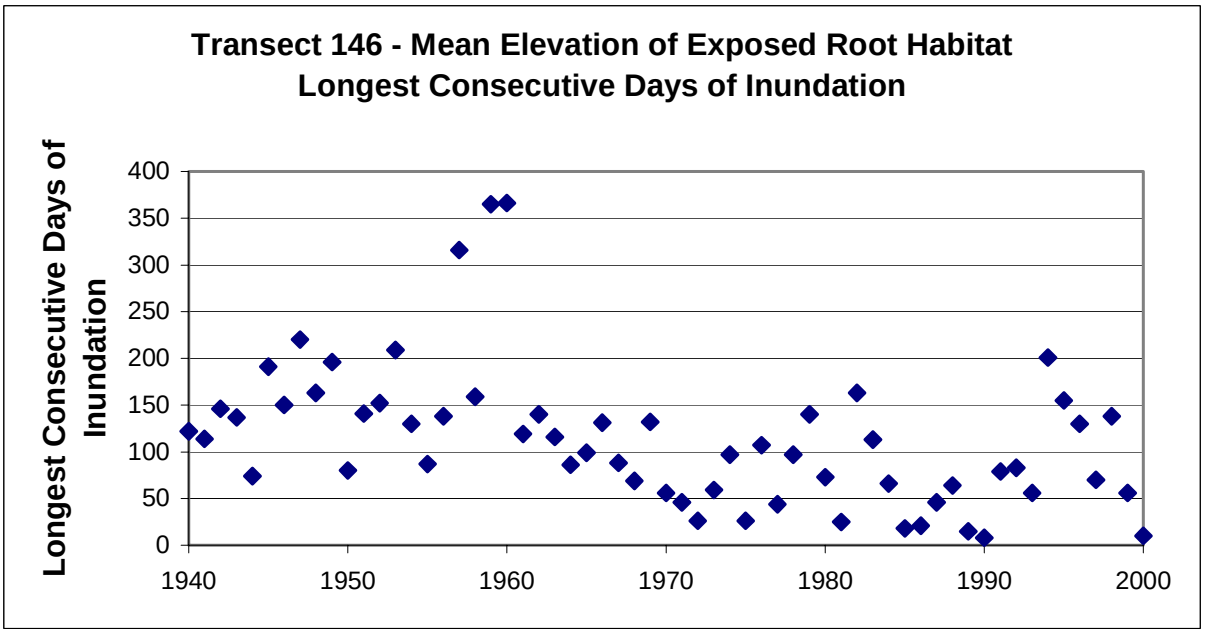
Transect 146 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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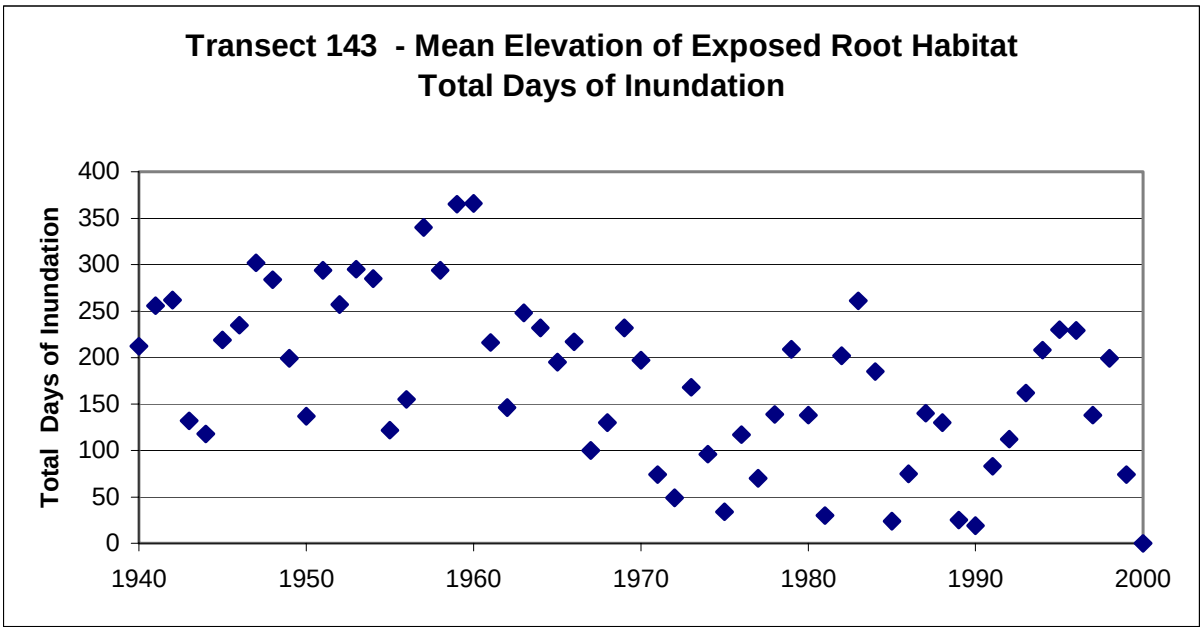
Transect 143 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
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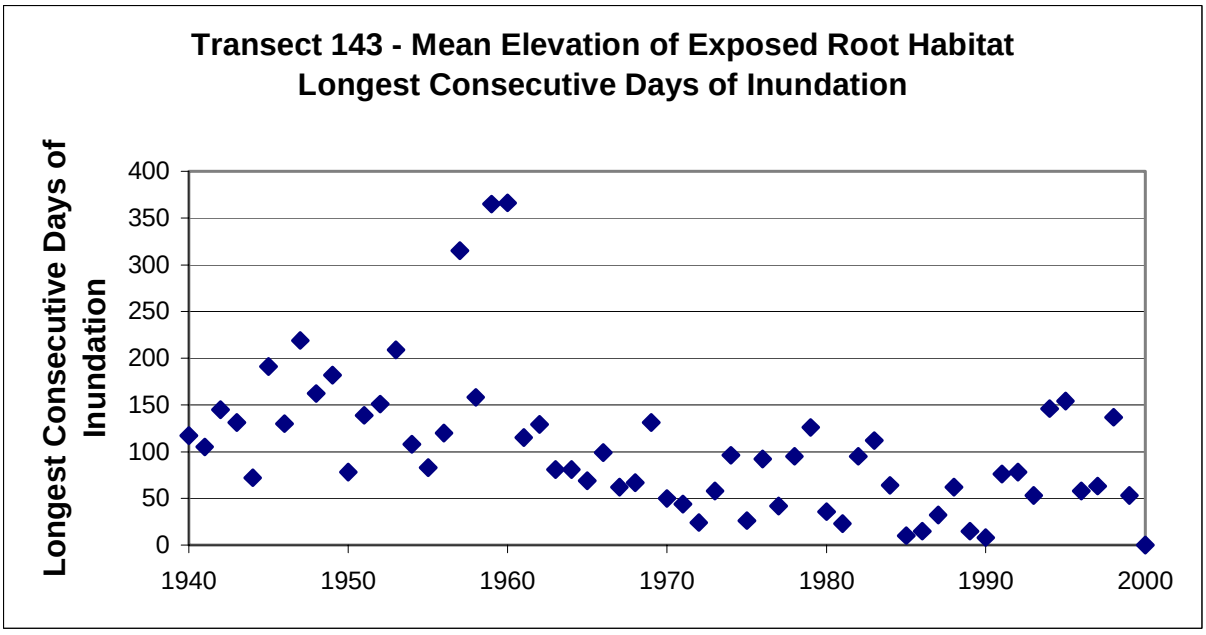
Transect 143 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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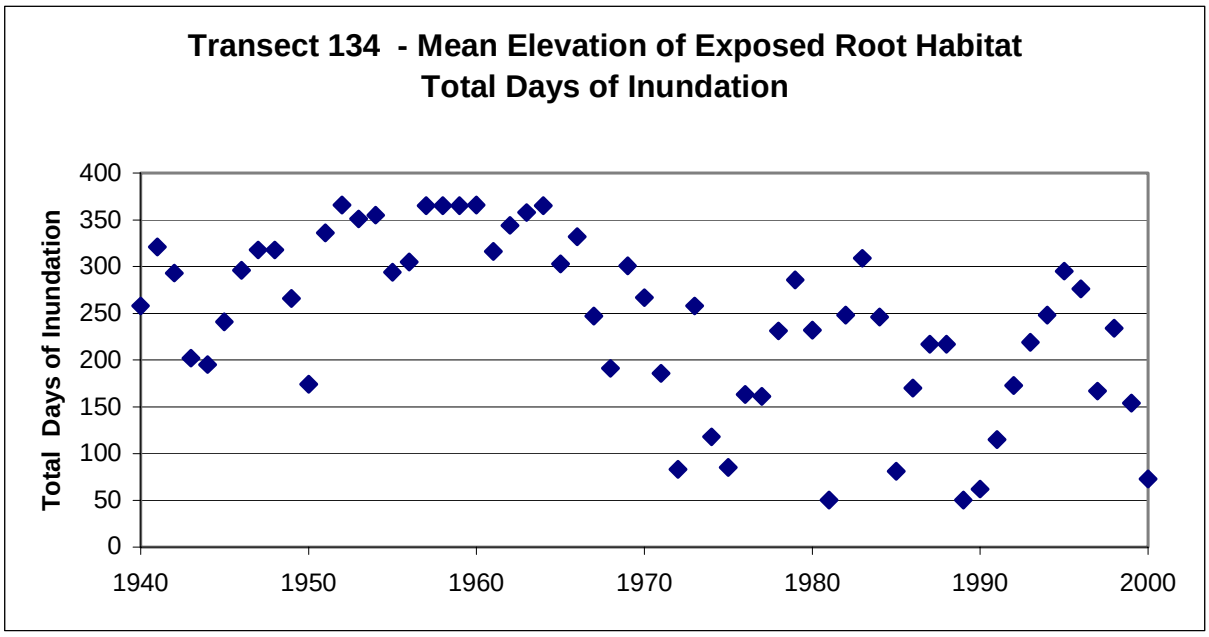
Transect 134 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
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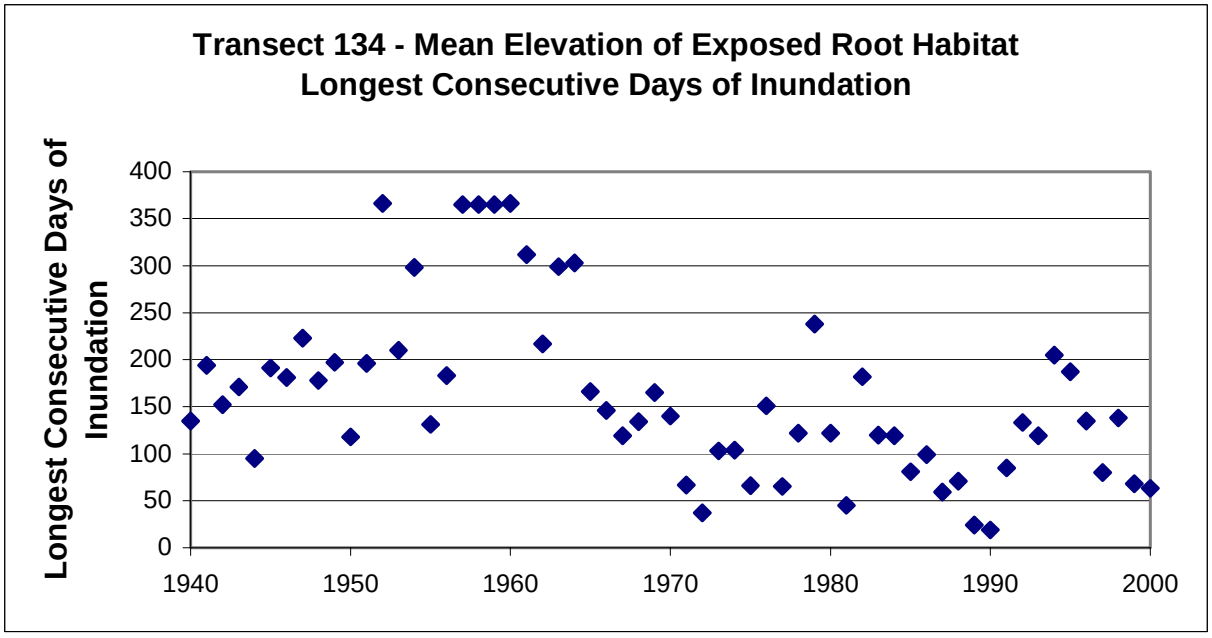
Transect 134 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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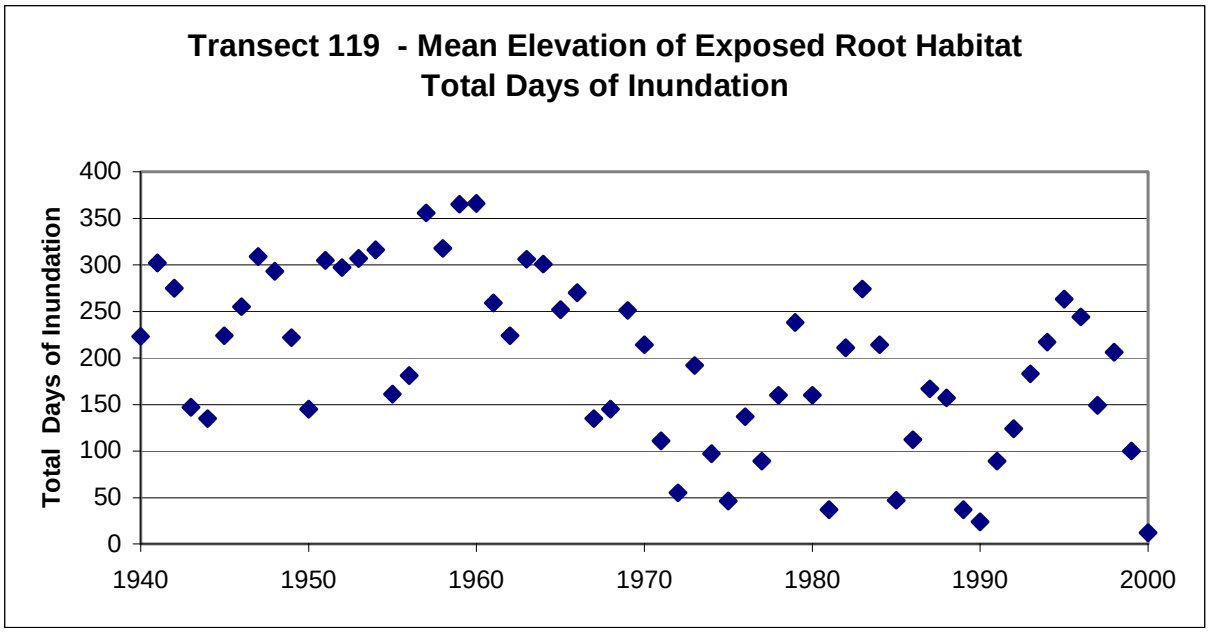
Transect 119 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
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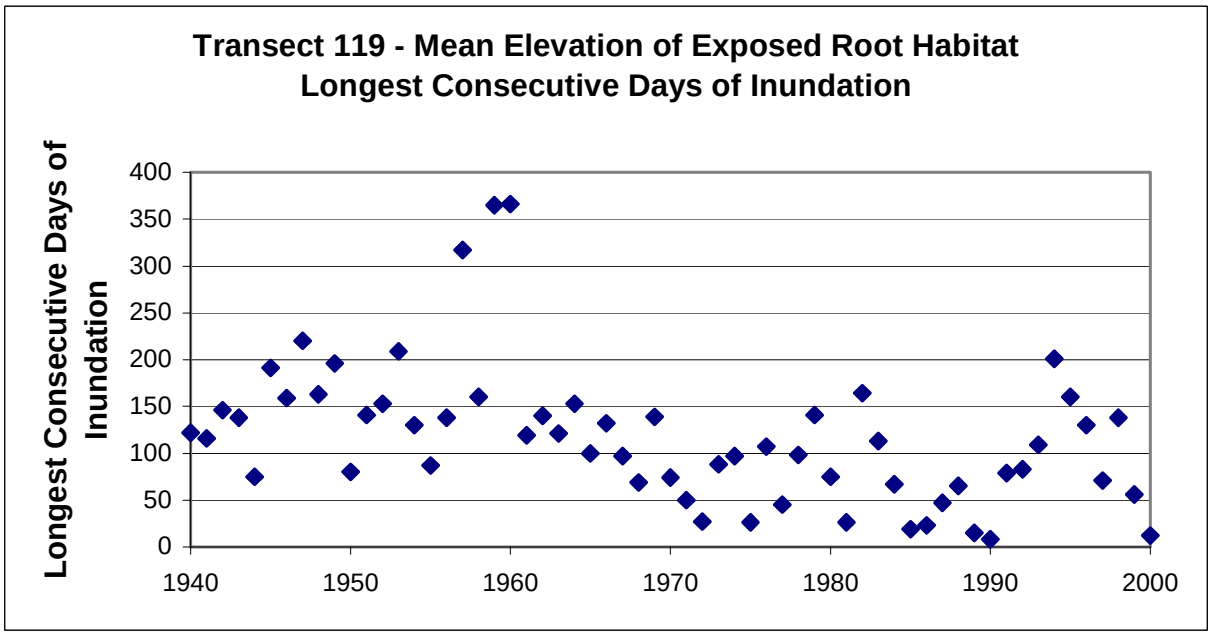
Transect 119 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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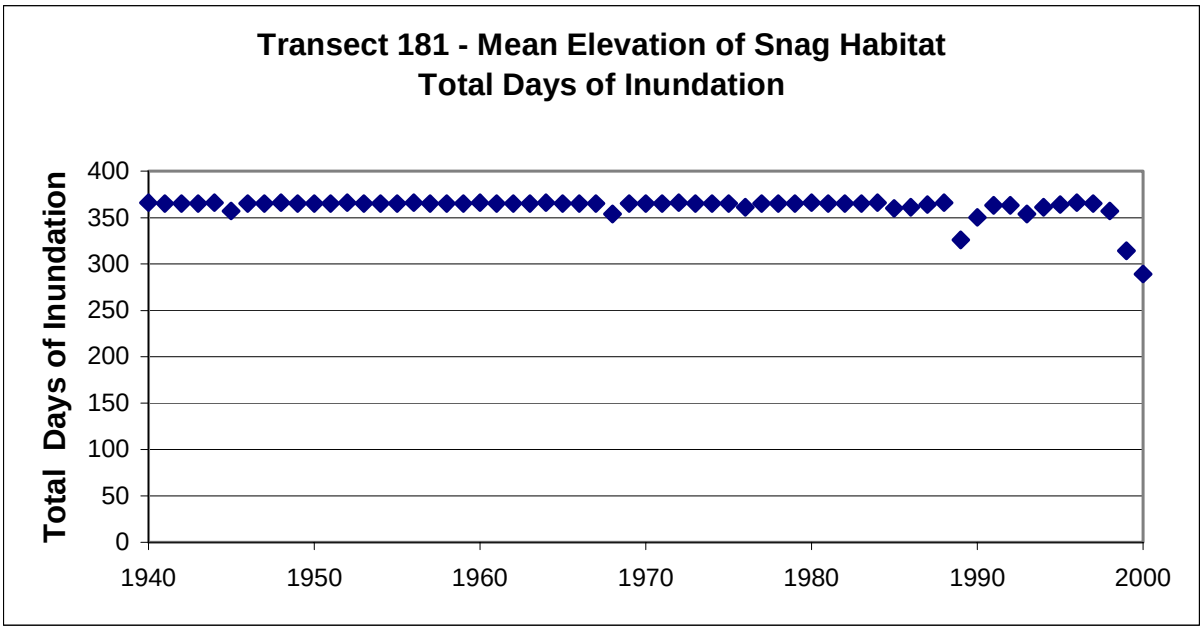
Transect 181 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
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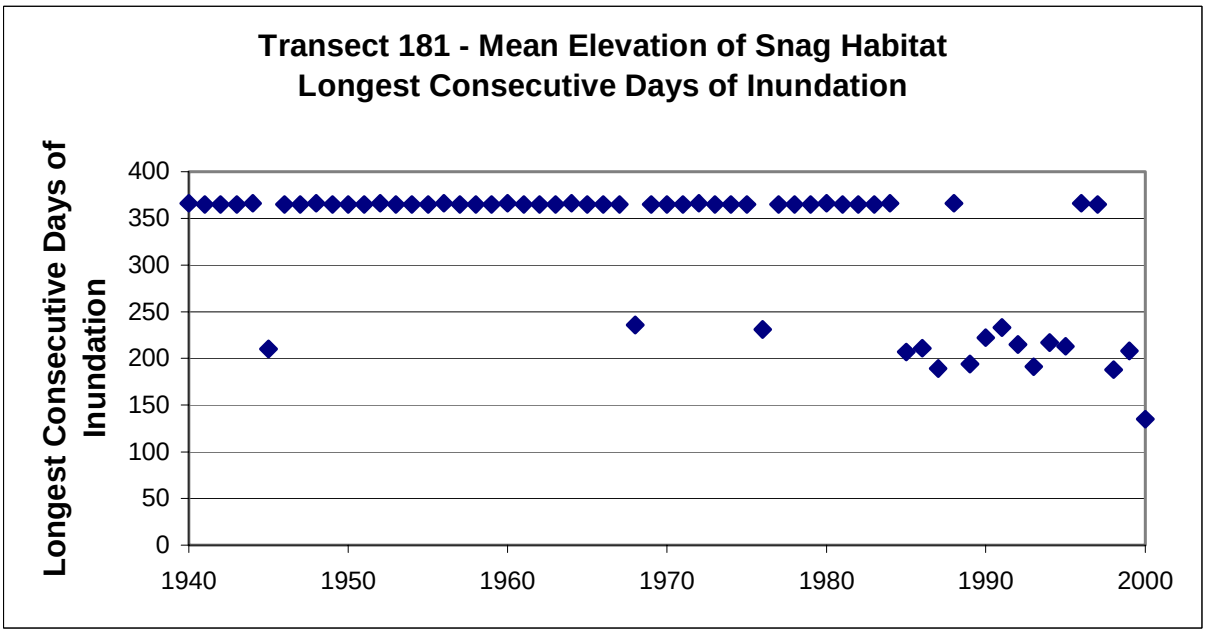
Transect 181 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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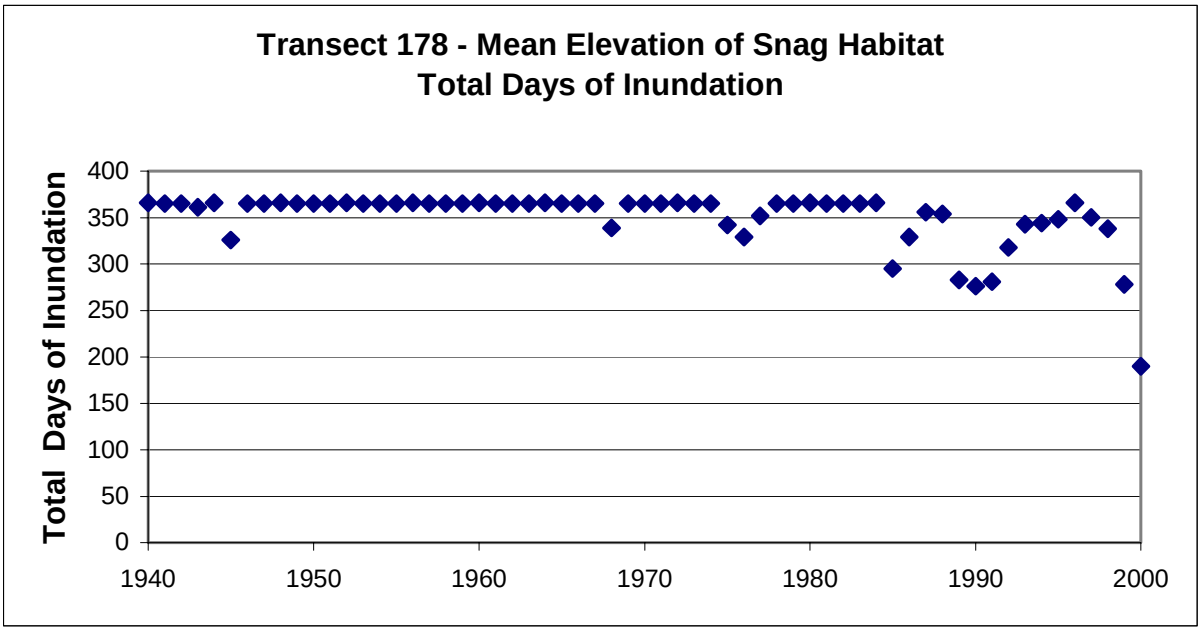
Transect 178 - Mean Elevation of Snag Habitat
Total Days of Inundation
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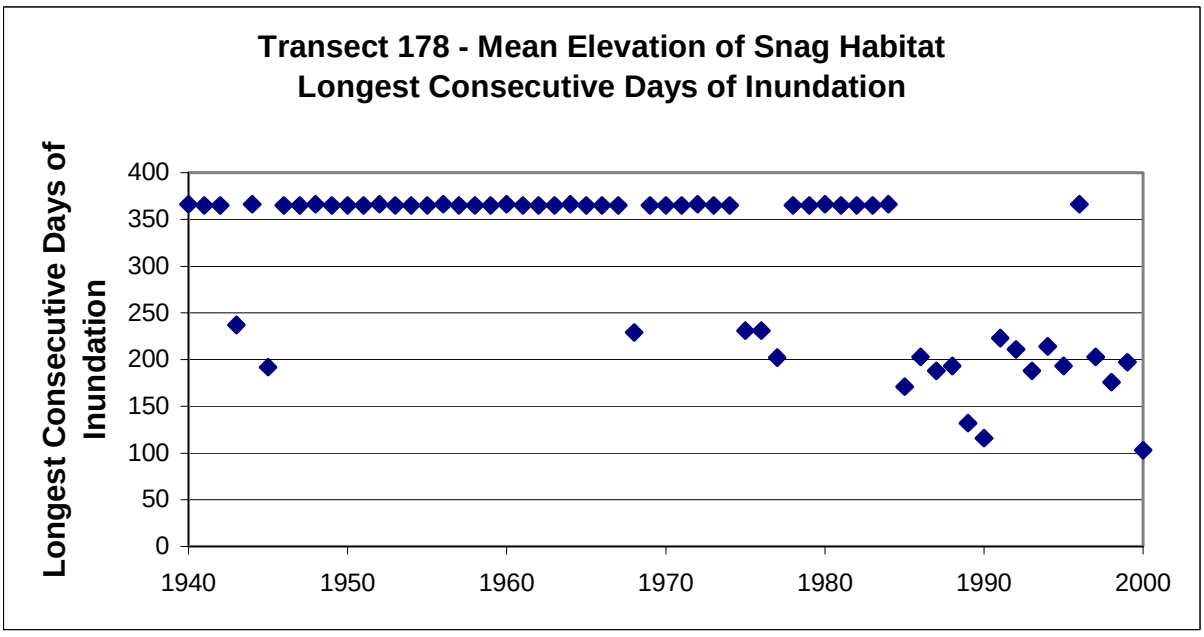
Transect 178 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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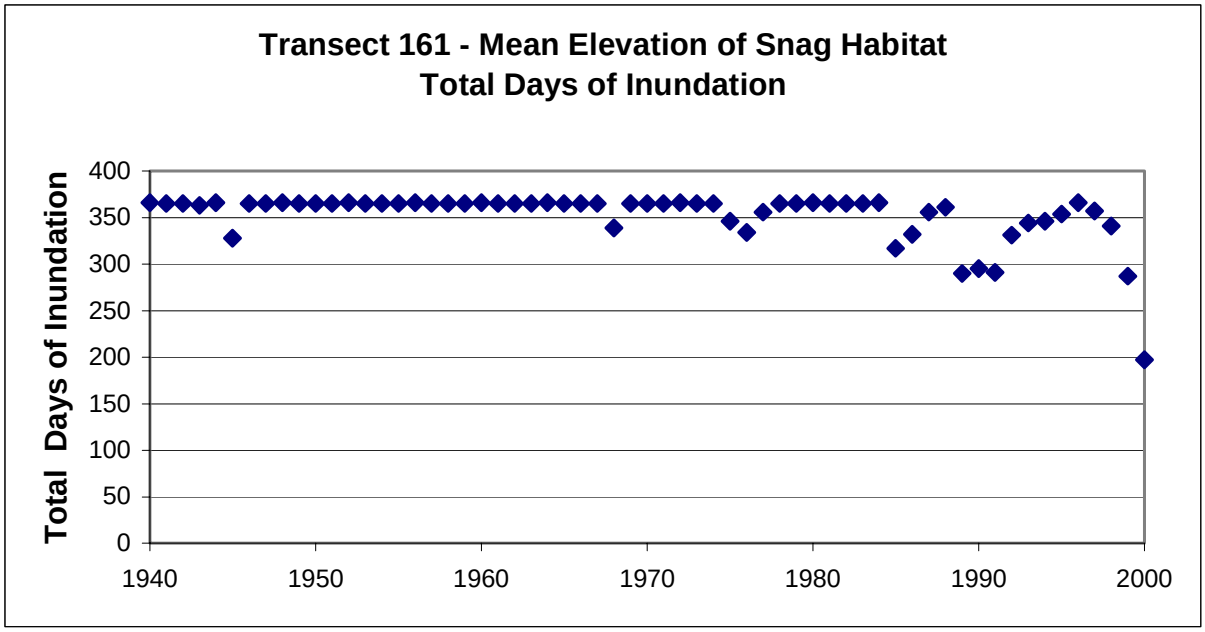
Transect 161 - Mean Elevation of Snag Habitat
Total Days of Inundation
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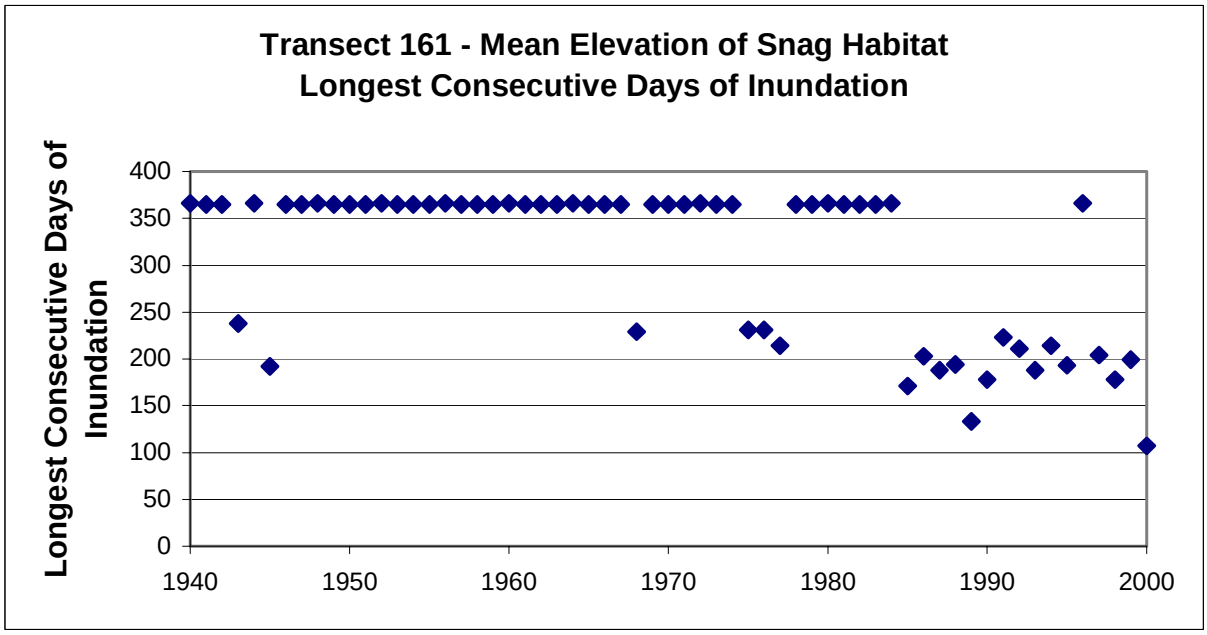
Transect 161 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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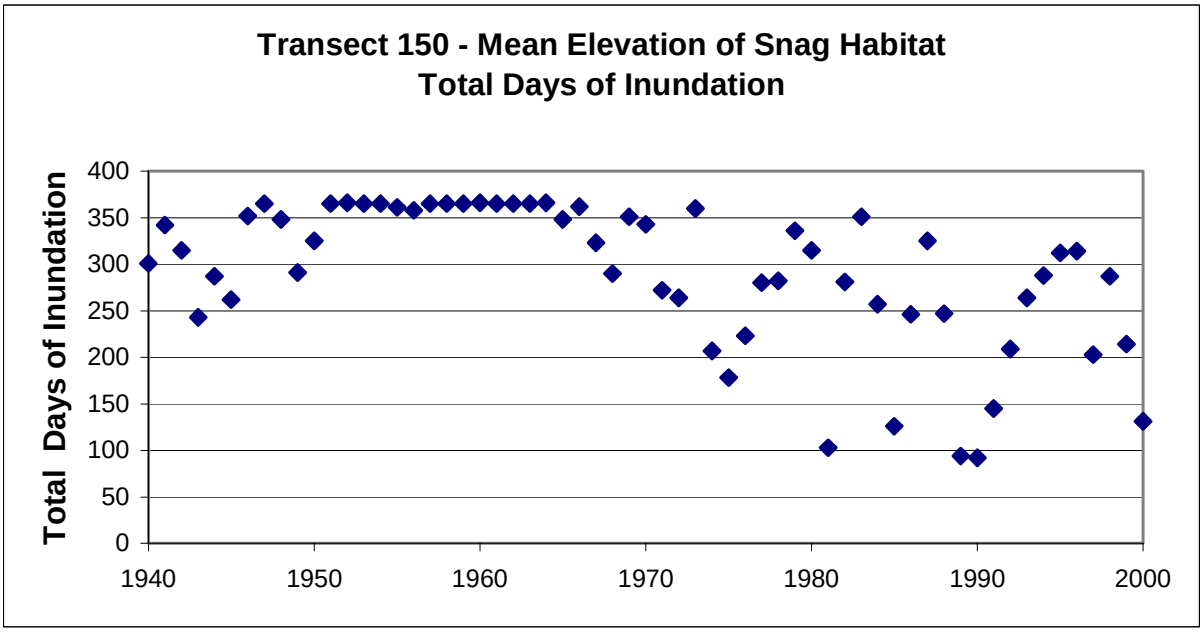
Transect 150 - Mean Elevation of Snag Habitat
Total Days of Inundation
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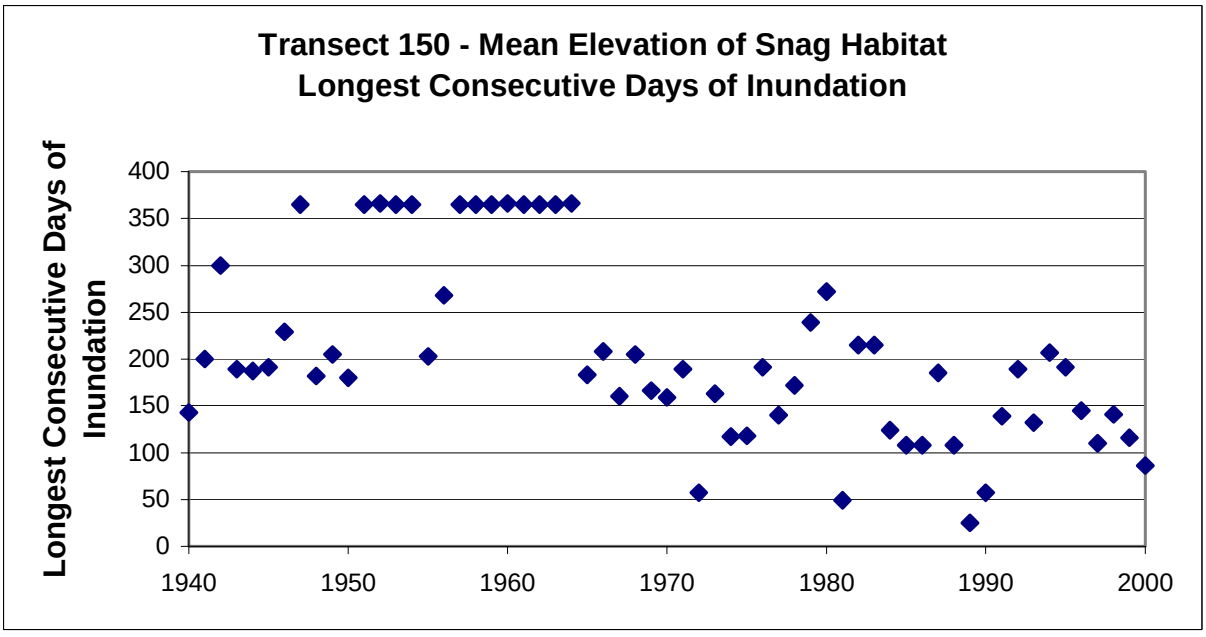
Transect 150 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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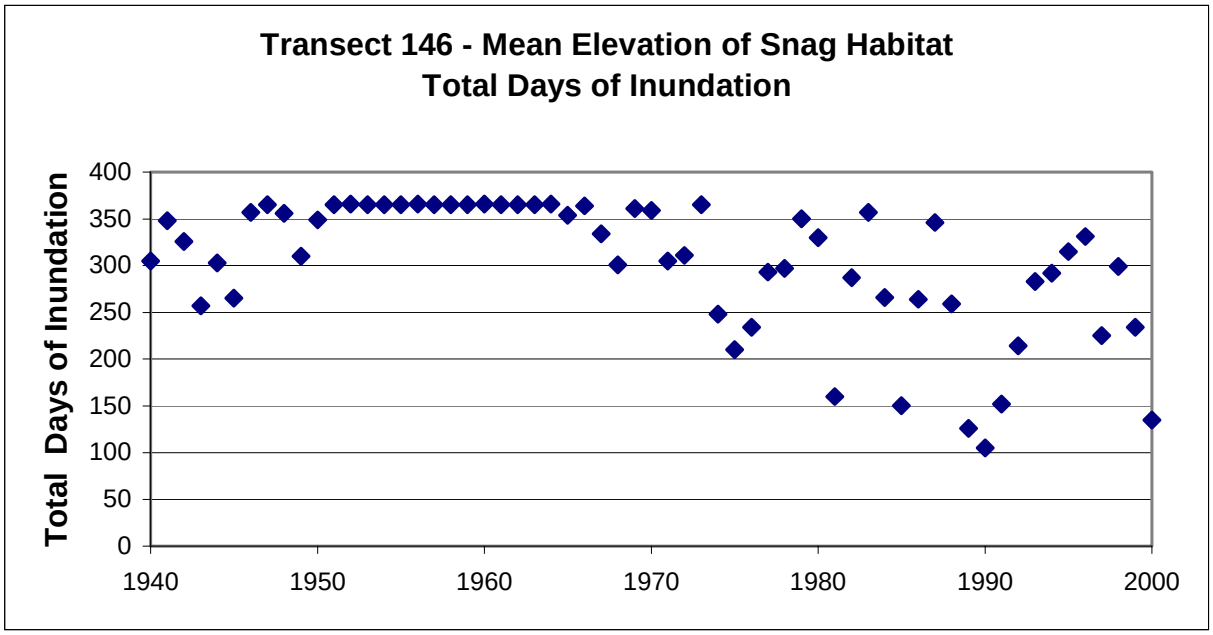
Transect 146 - Mean Elevation of Snag Habitat
Total Days of Inundation
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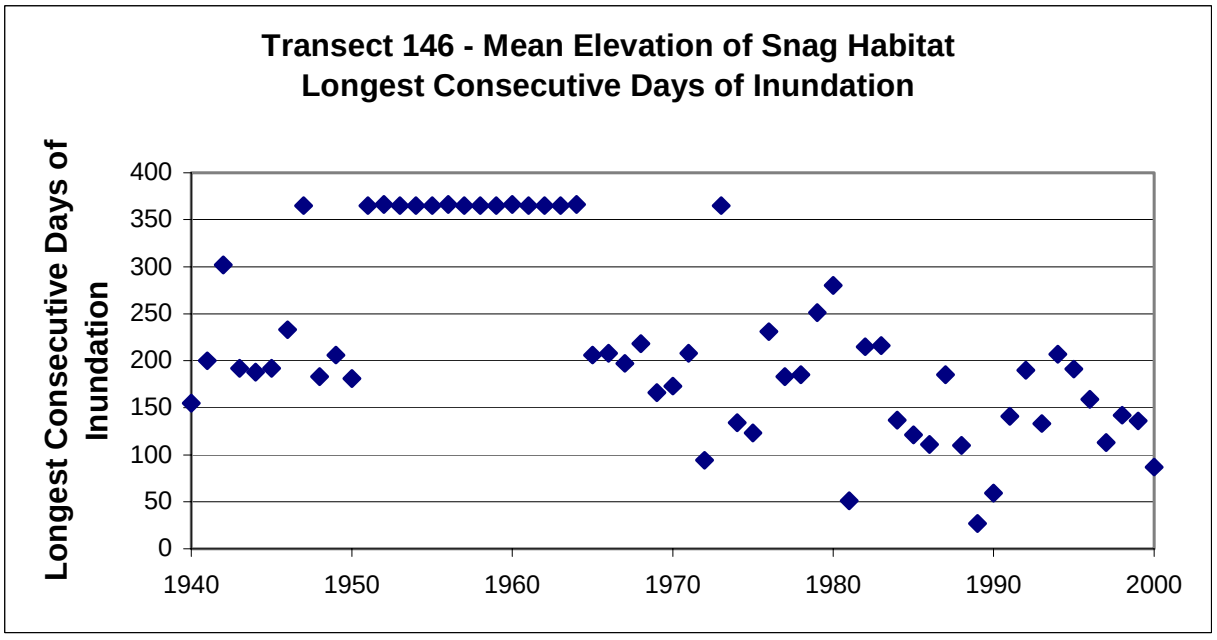
Transect 146 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
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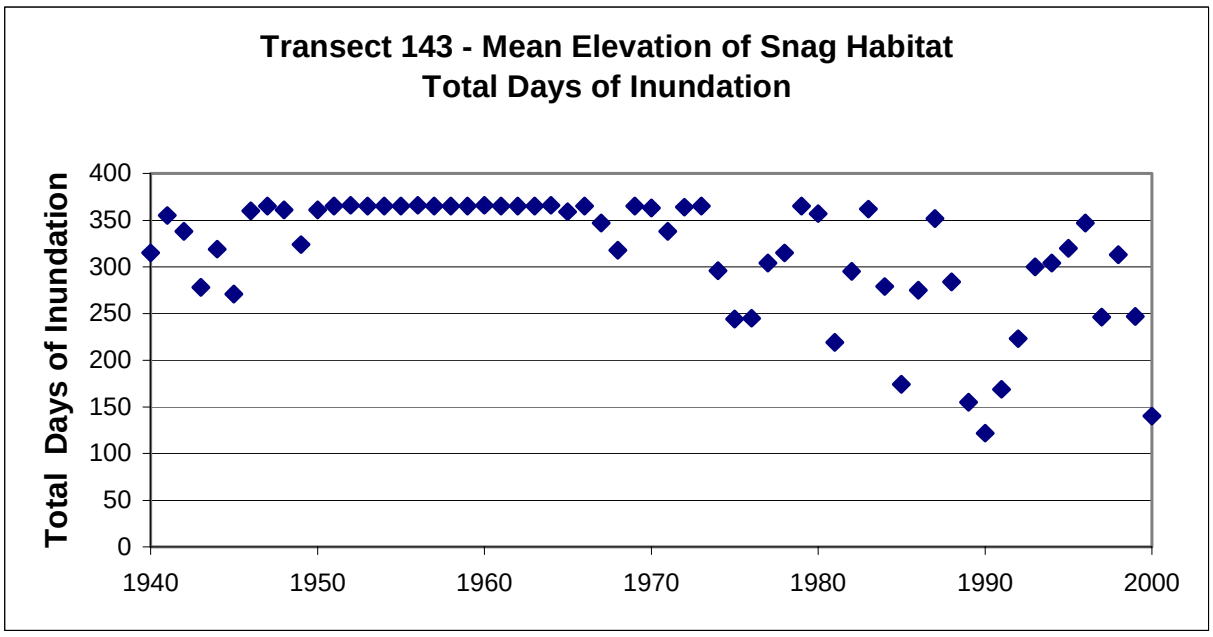
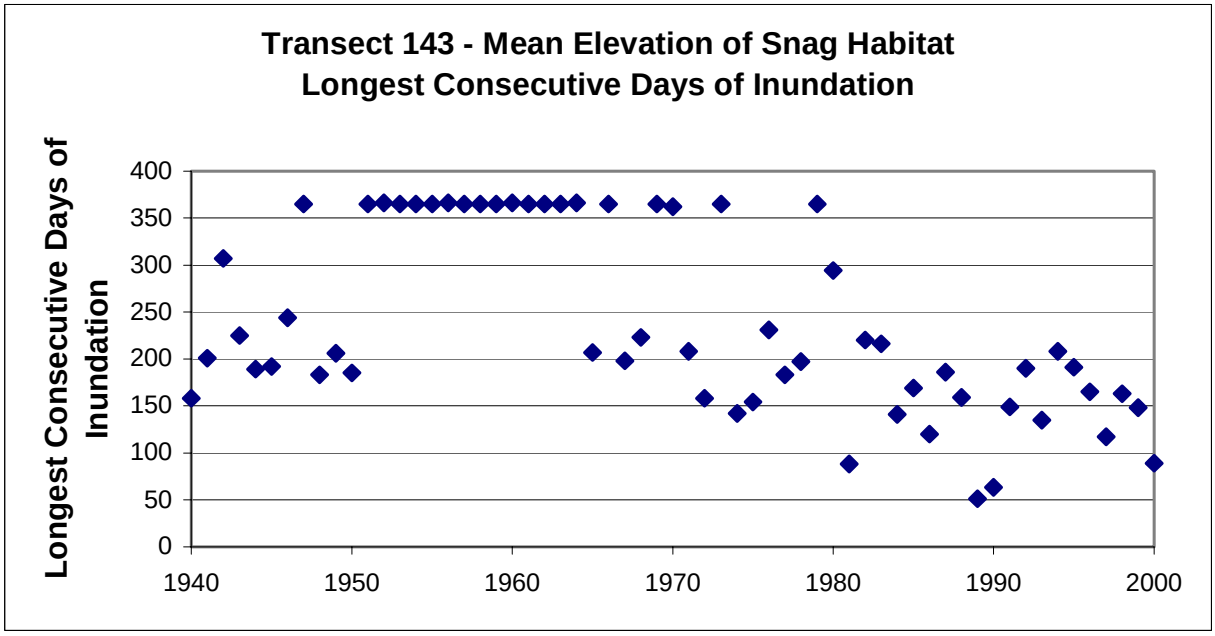
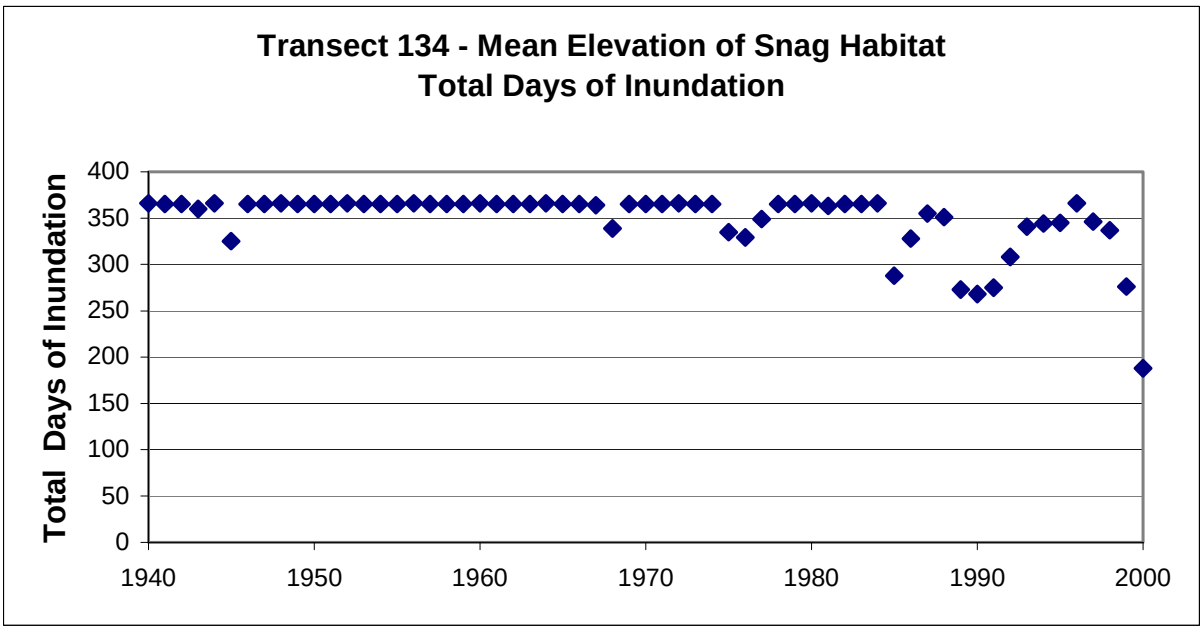
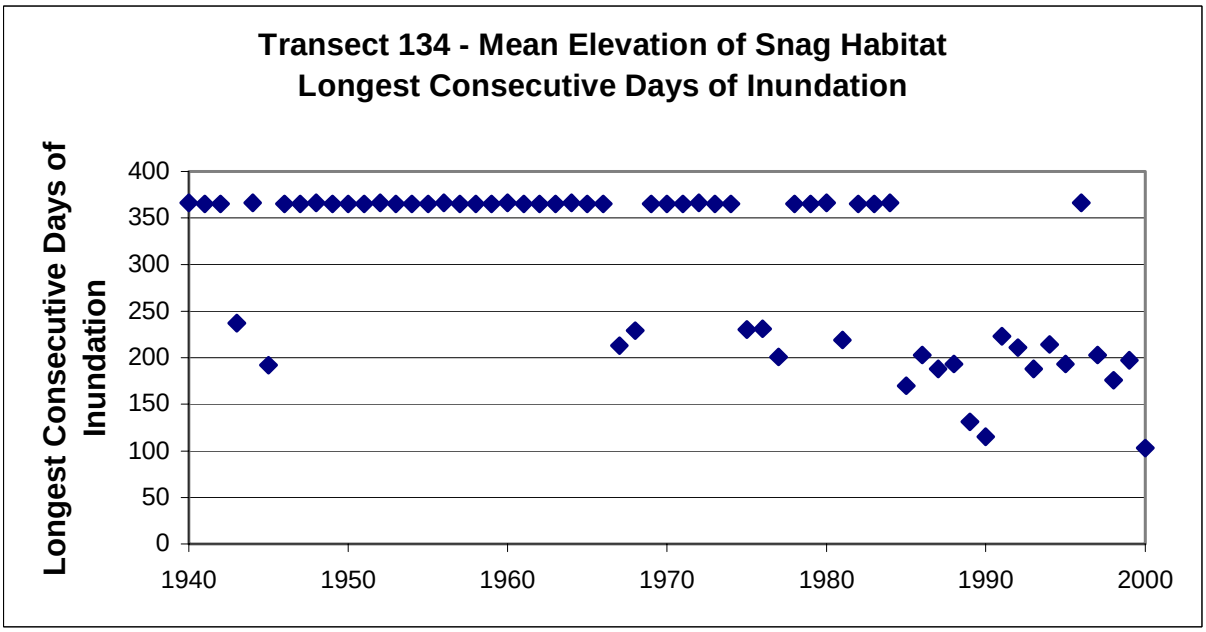
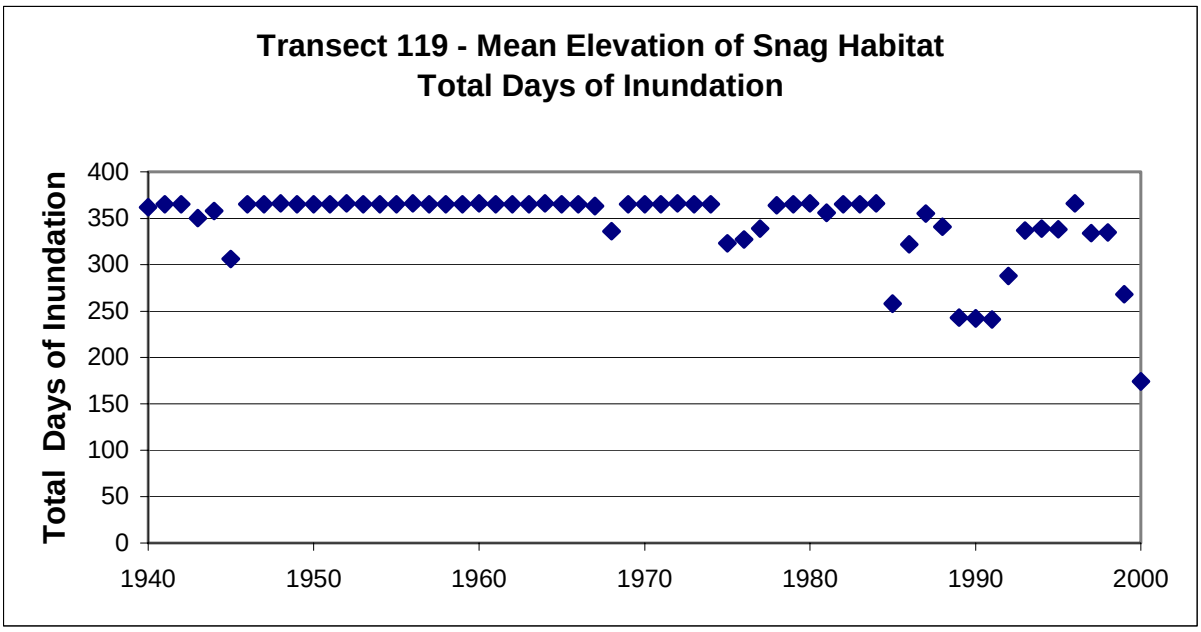
2000

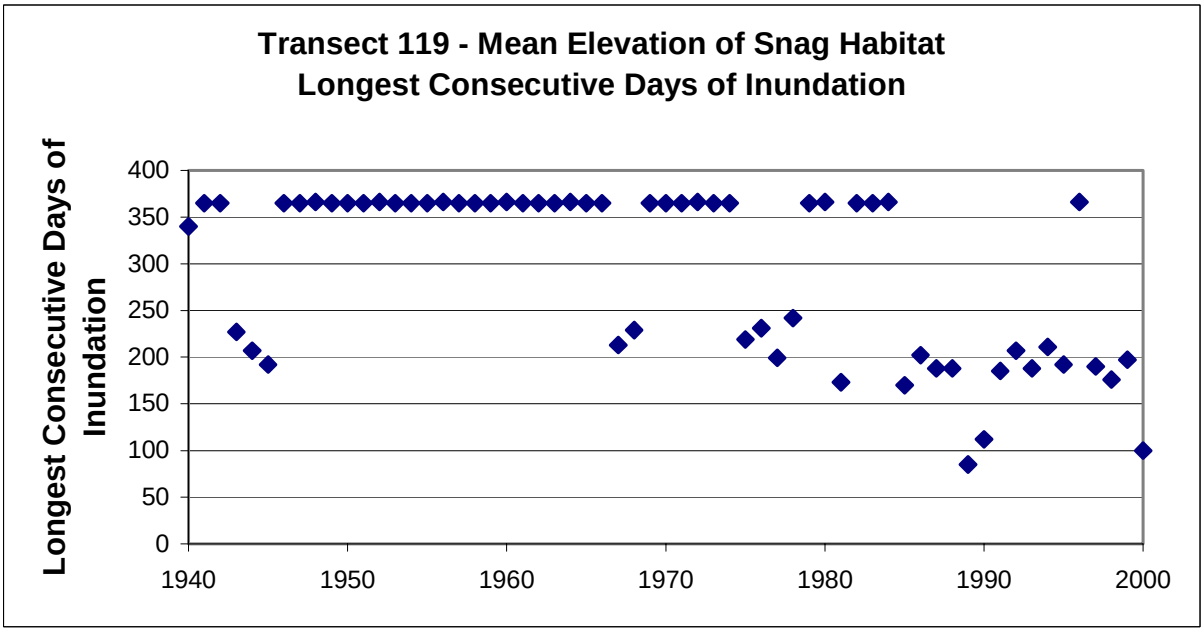

Transect 143 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

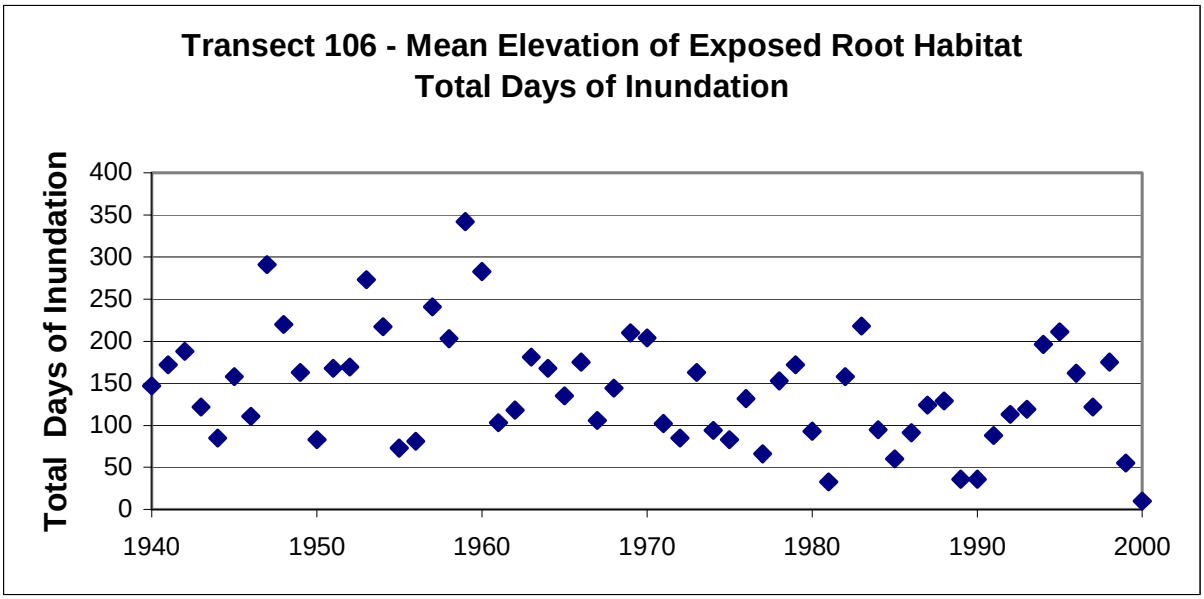

Transect 143 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

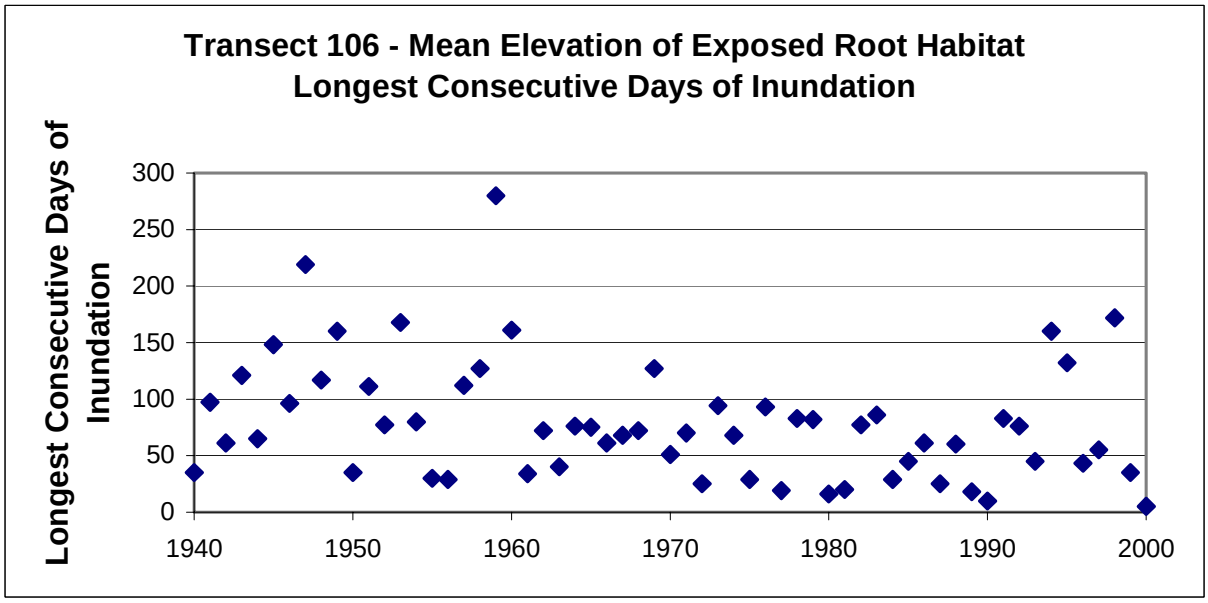

Transect 134 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

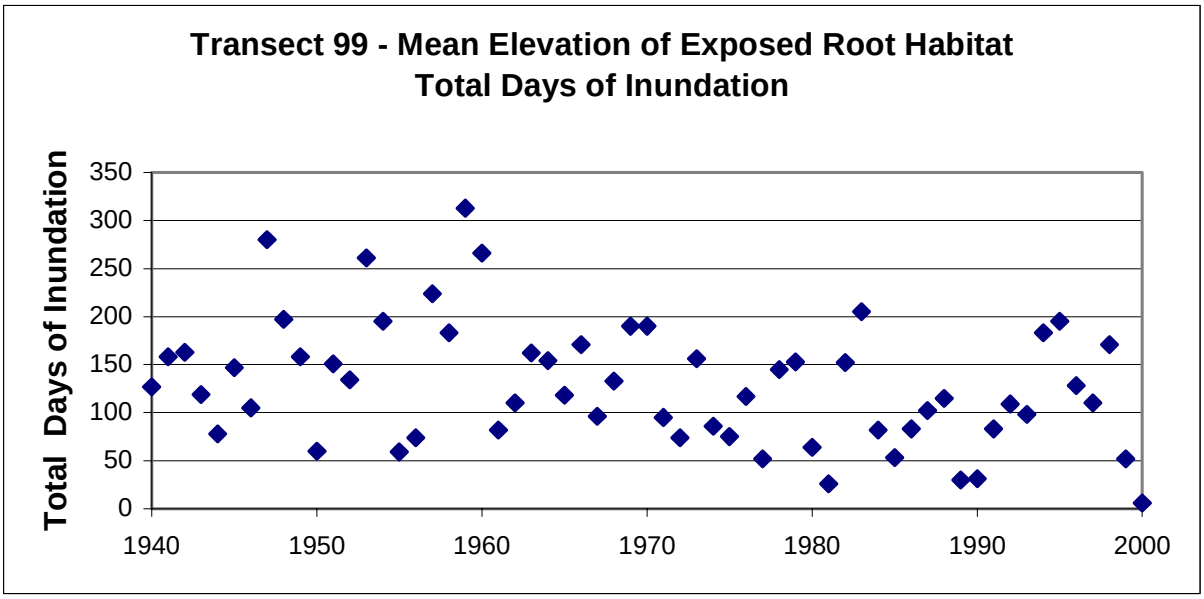

Transect 134 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

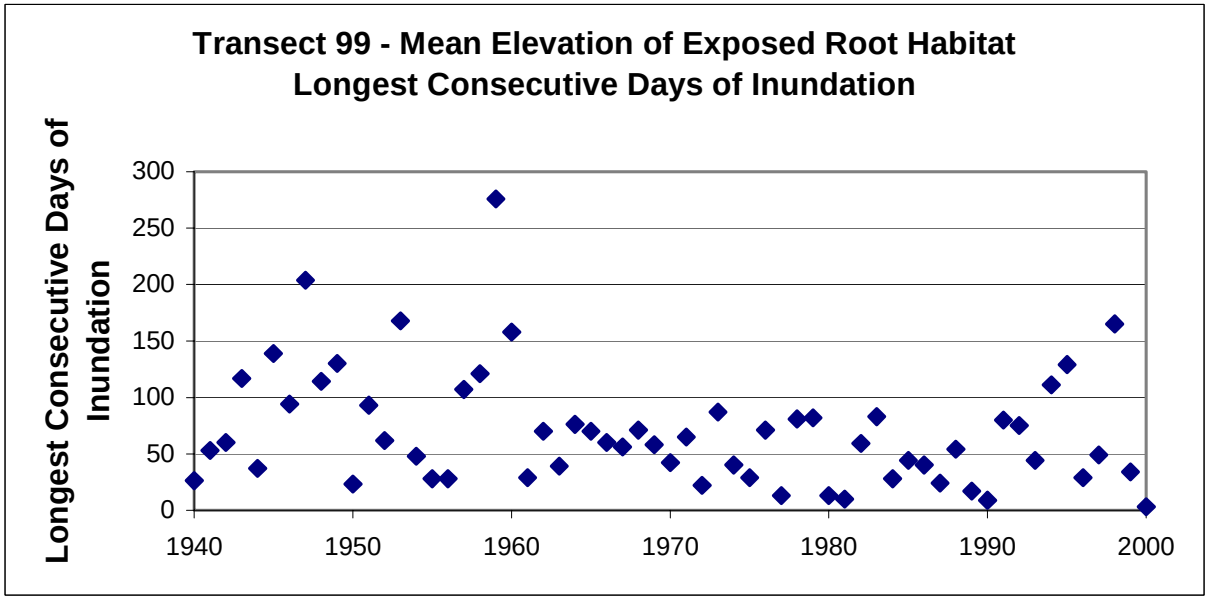

Transect 119 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

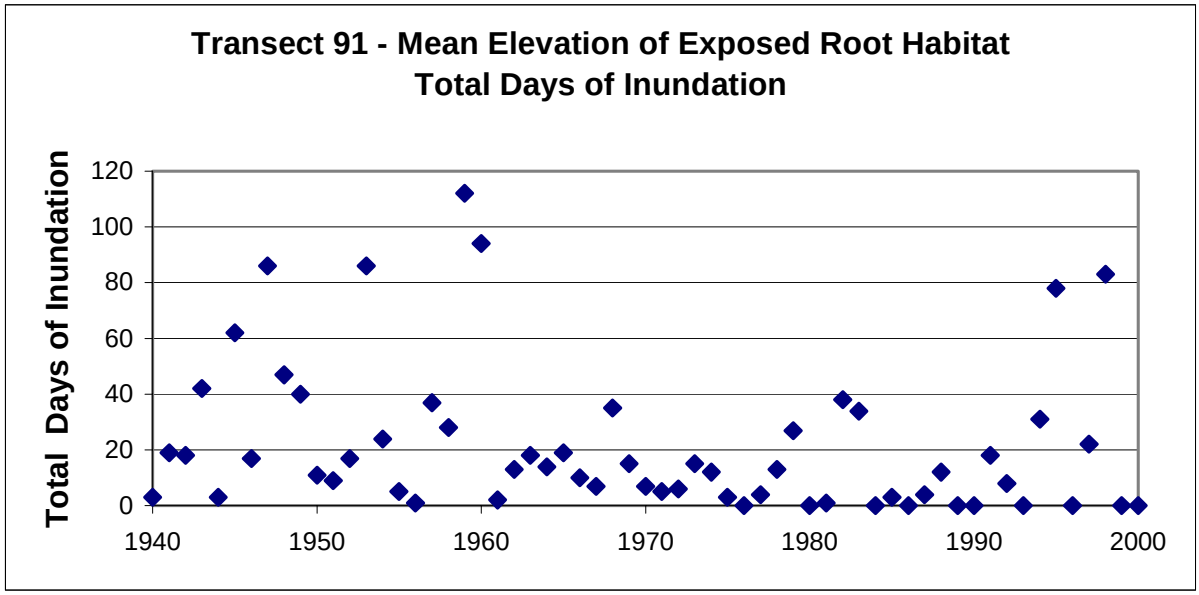

Transect 119 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

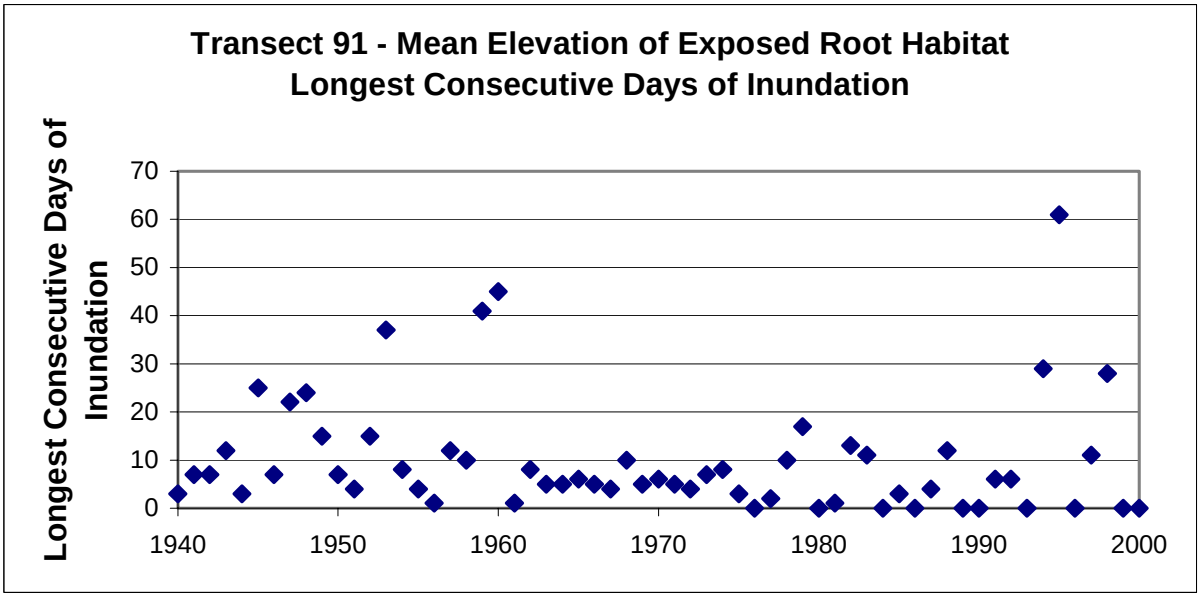

Transect 106 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

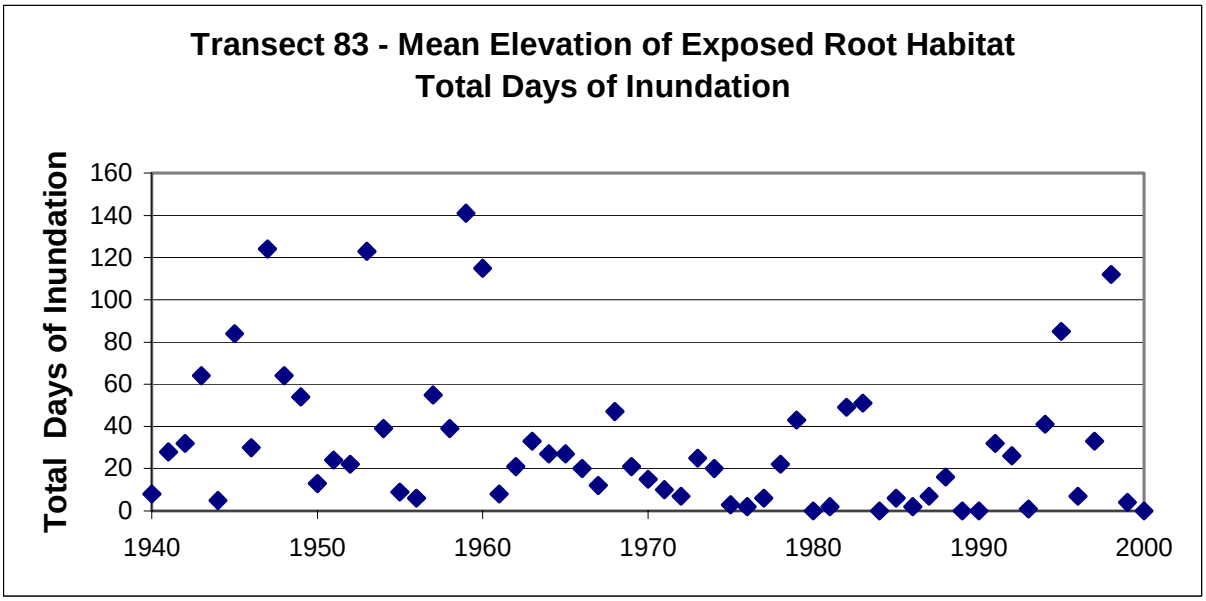

Transect 106 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

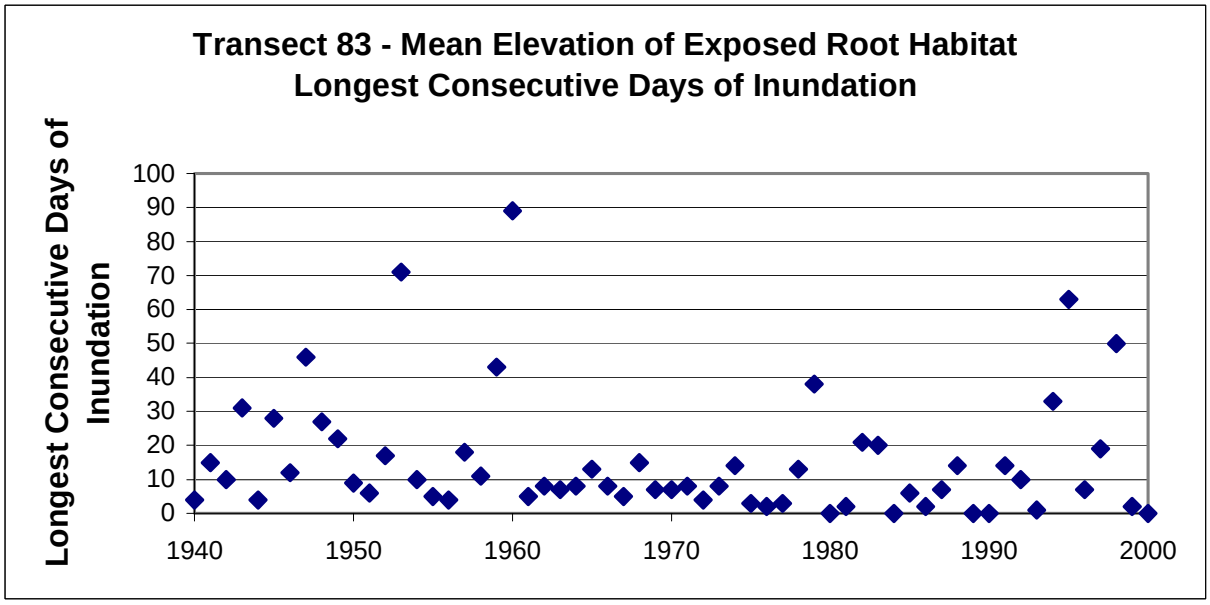

Transect 99 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

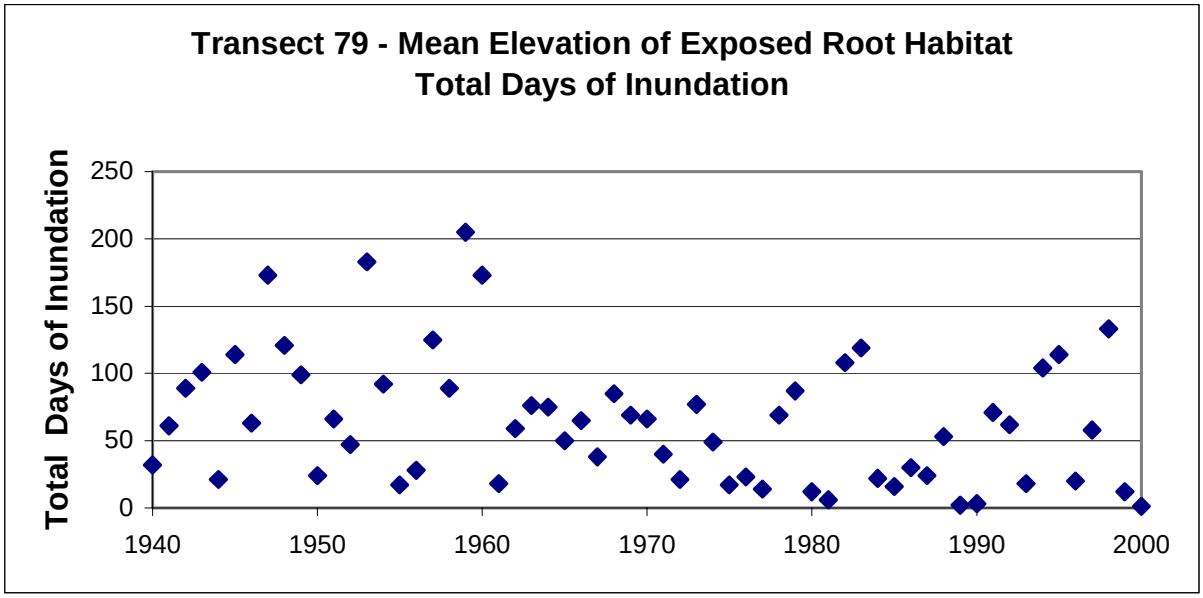

Transect 99 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

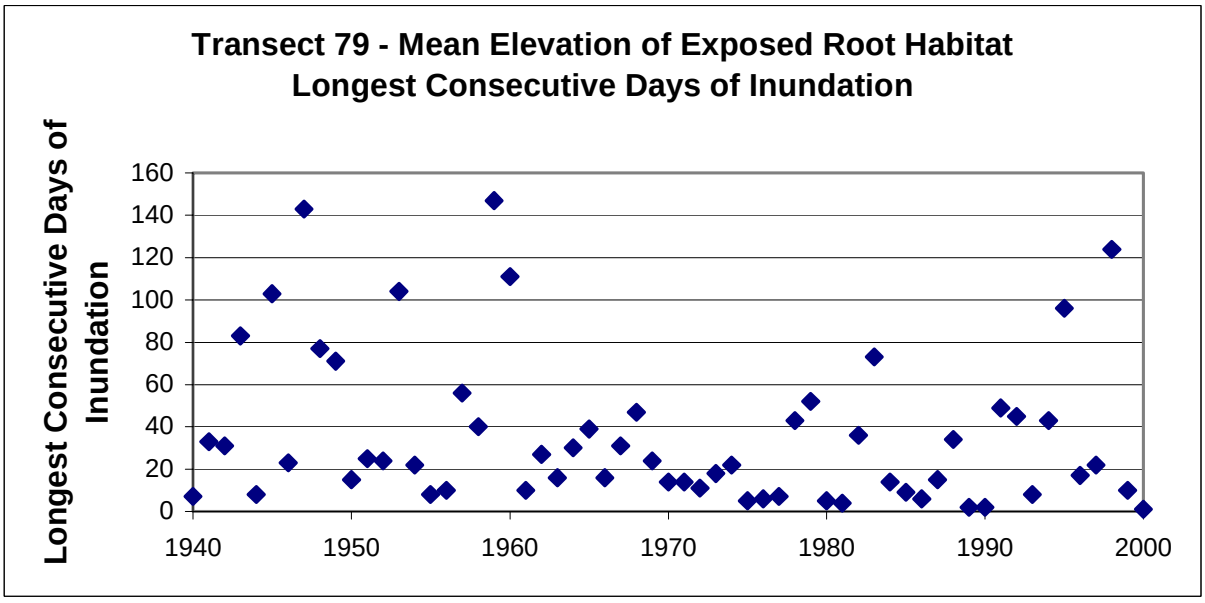

Transect 91 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

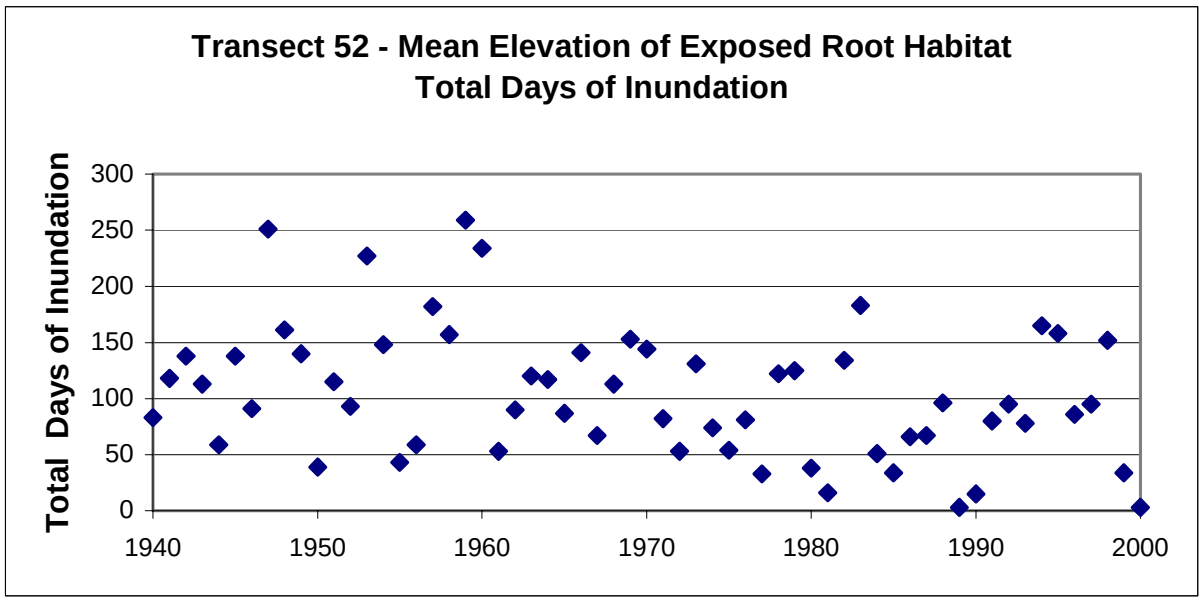

Transect 91 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

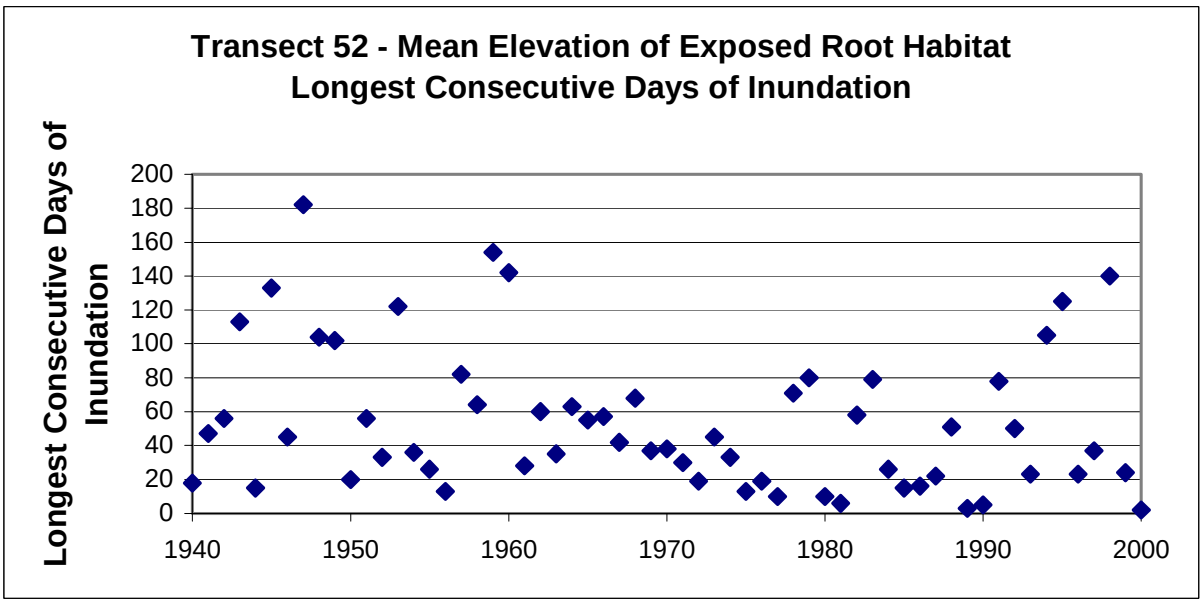

Transect 83 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

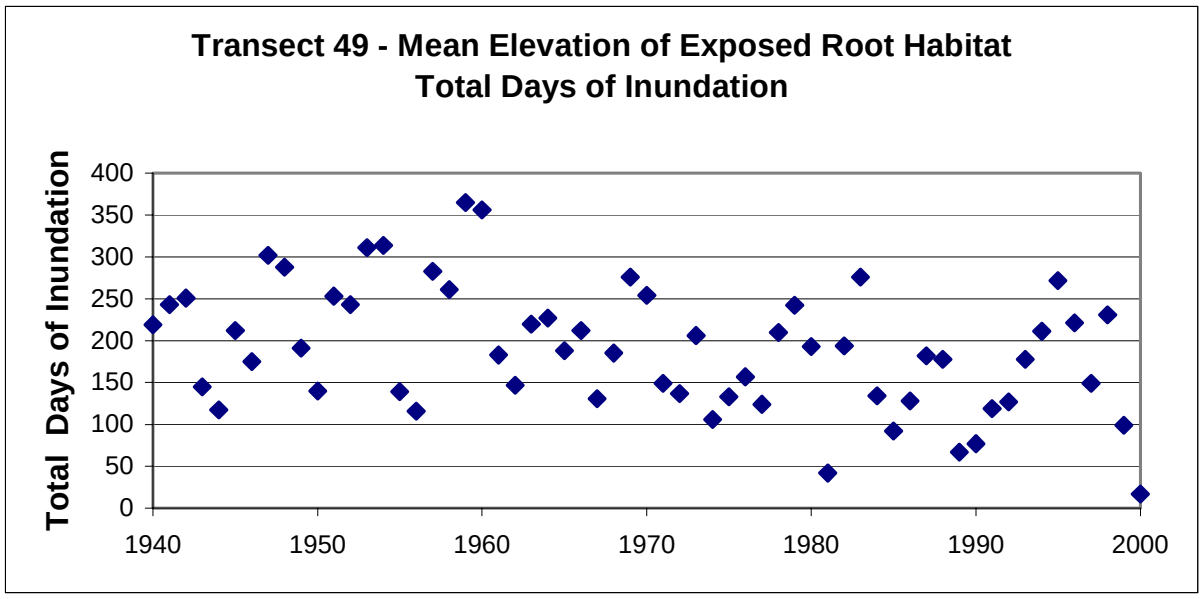

Transect 83 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
100
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

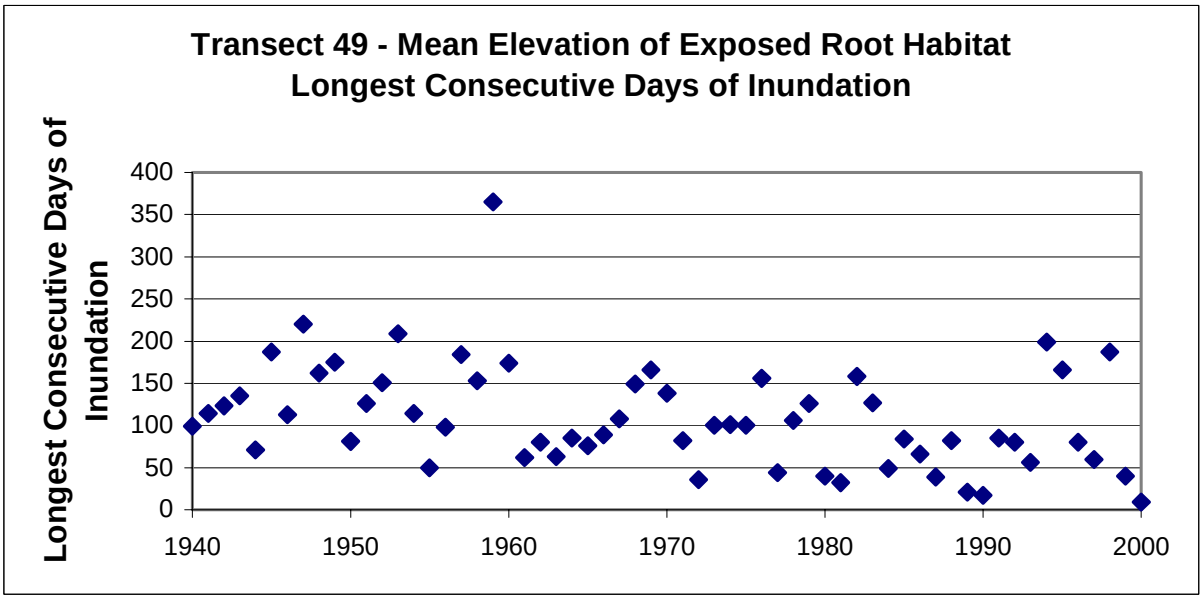

Transect 79 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

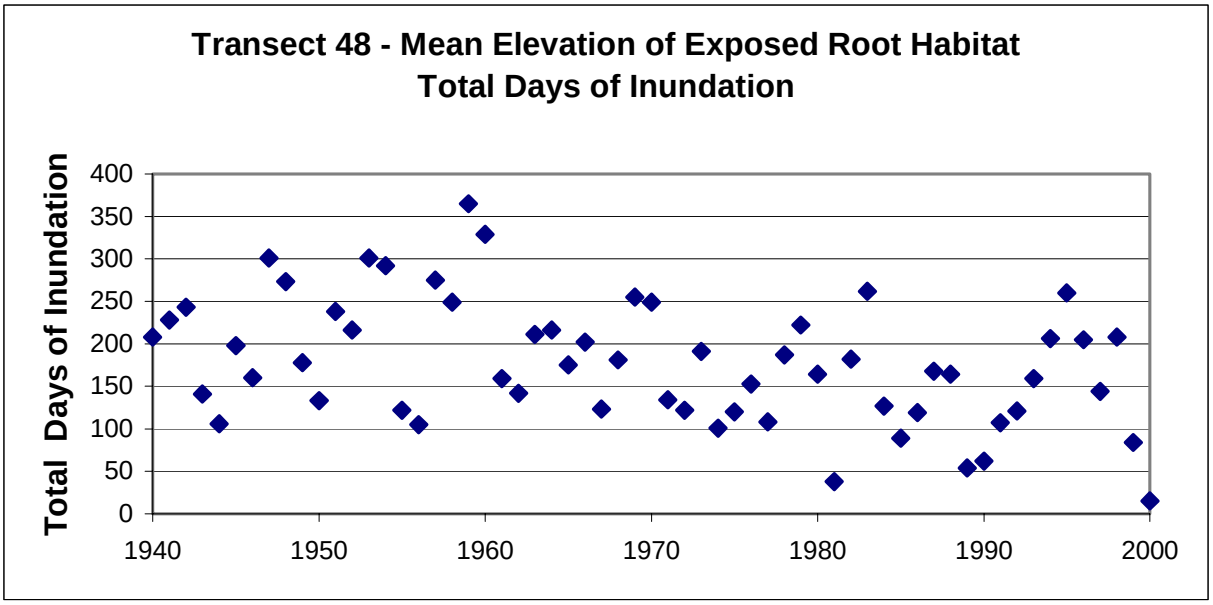

Transect 79 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

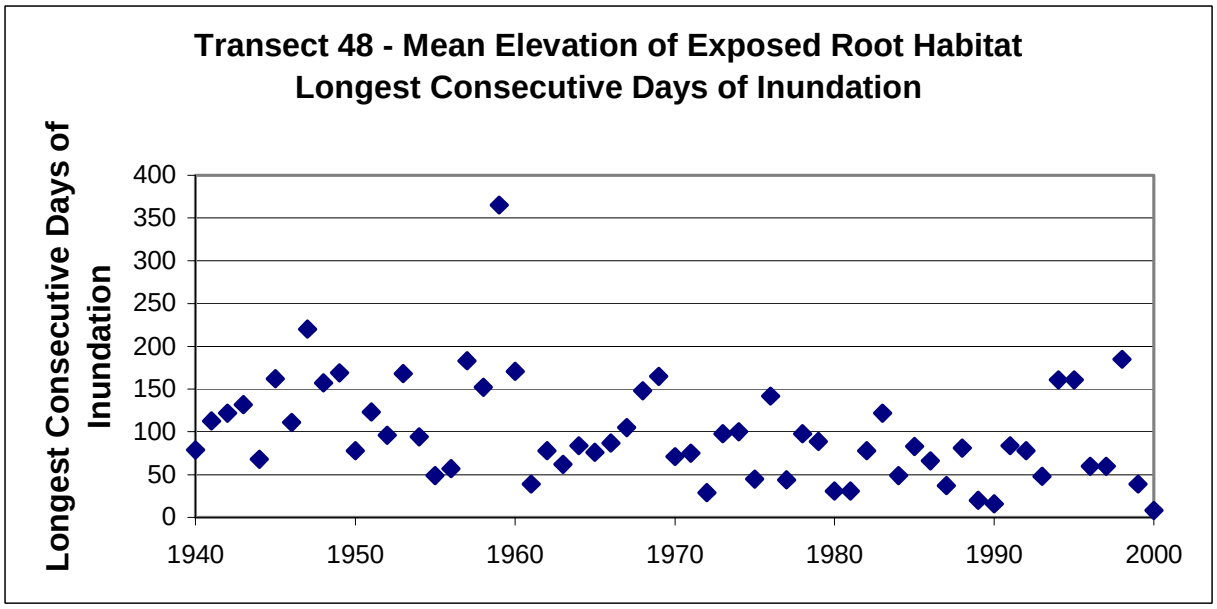

Transect 52 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

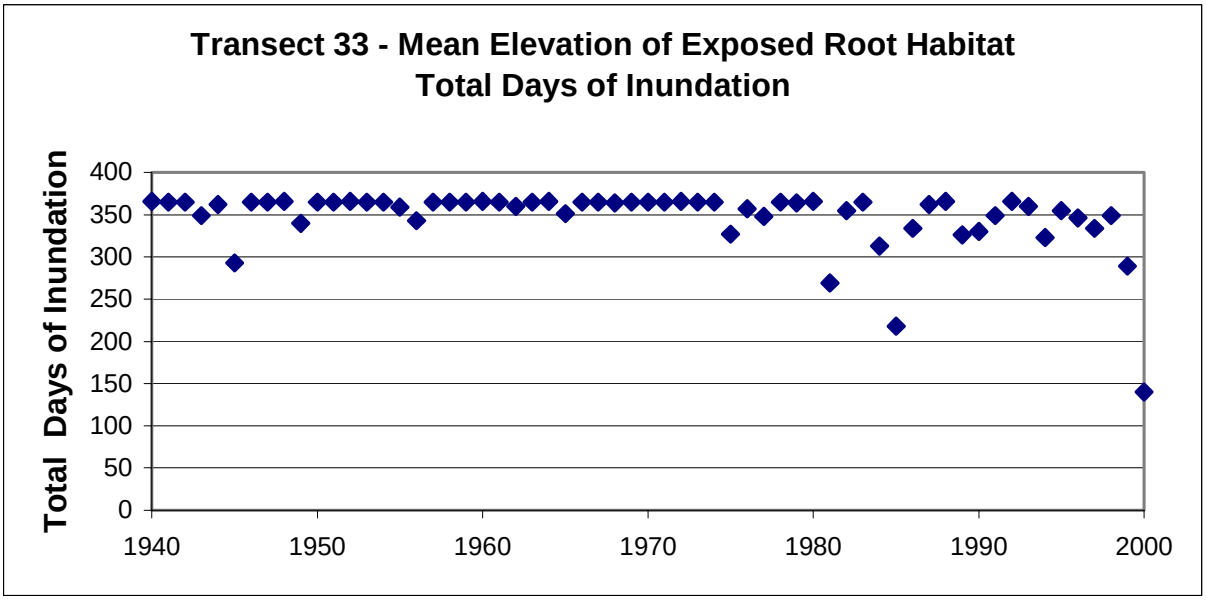

Transect 52 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
200
180
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

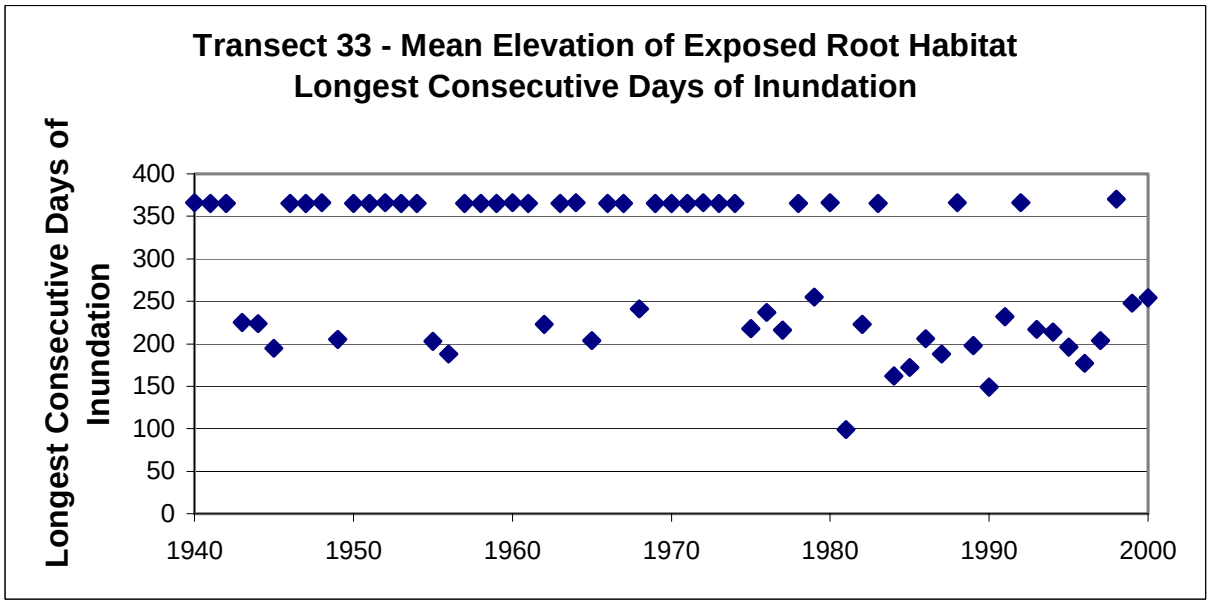

Transect 49 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

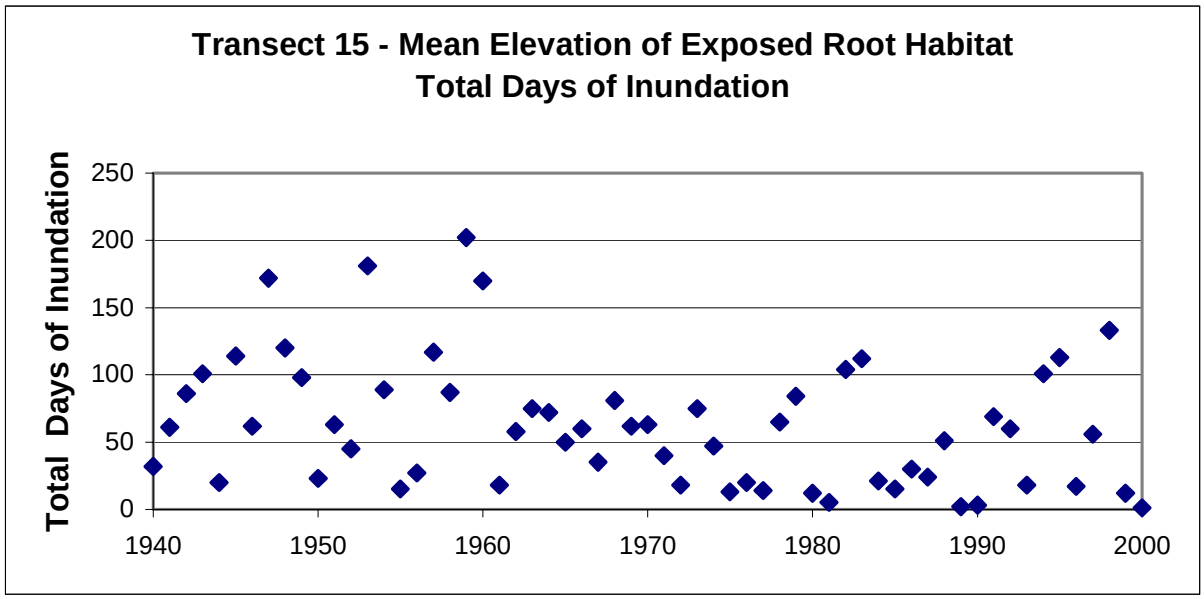

Transect 49 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

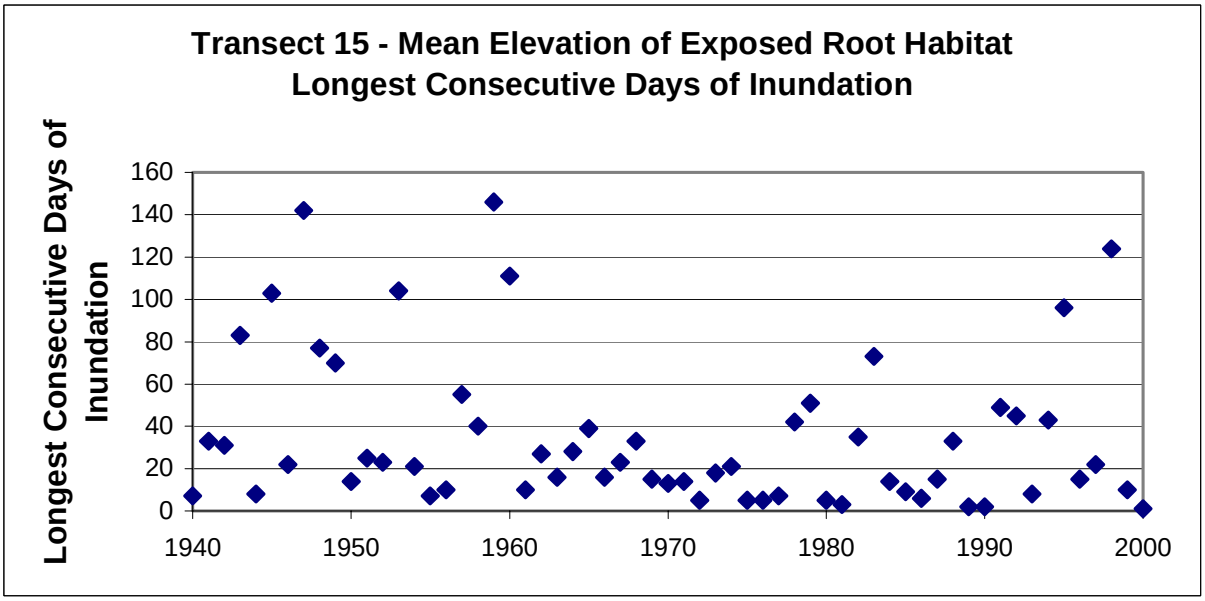

Transect 48 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

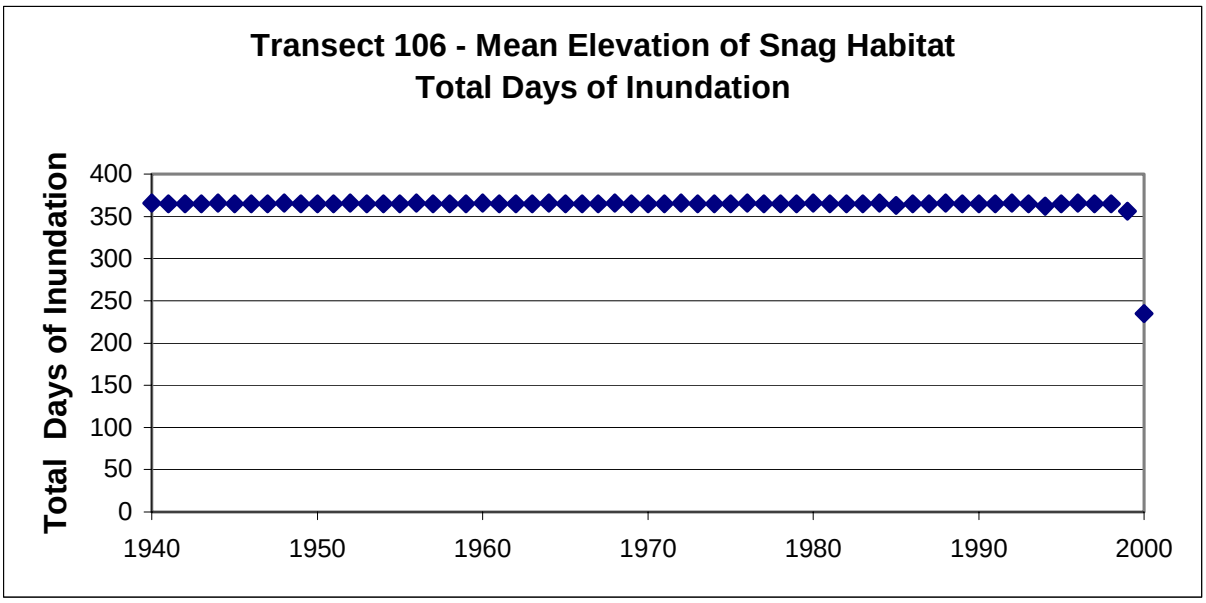

Transect 48 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

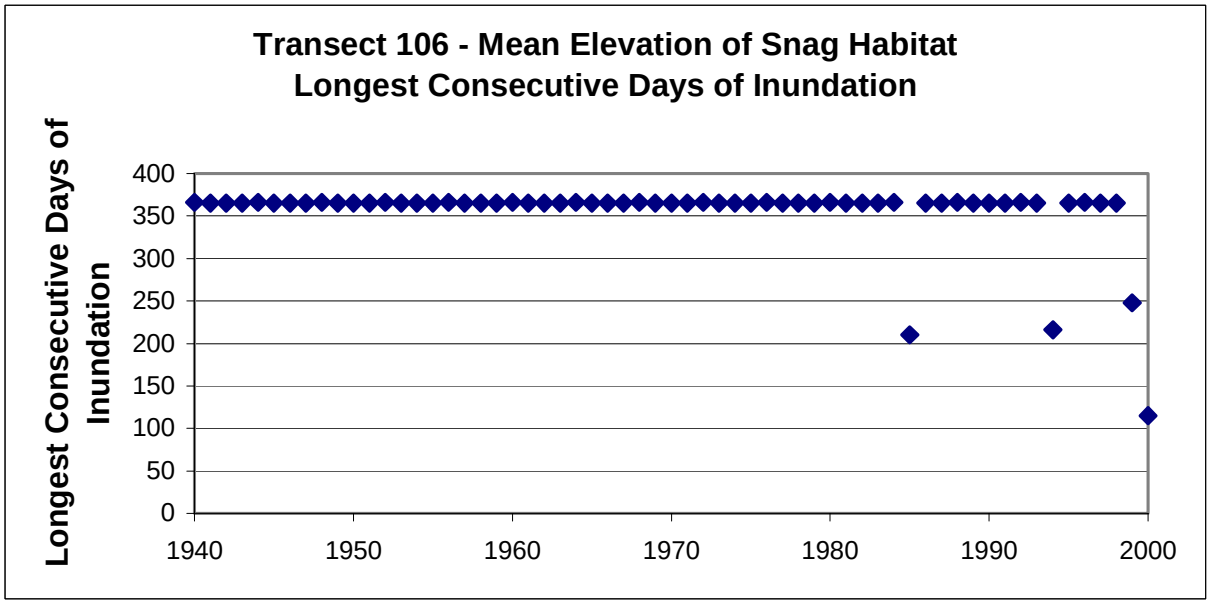

Transect 33 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

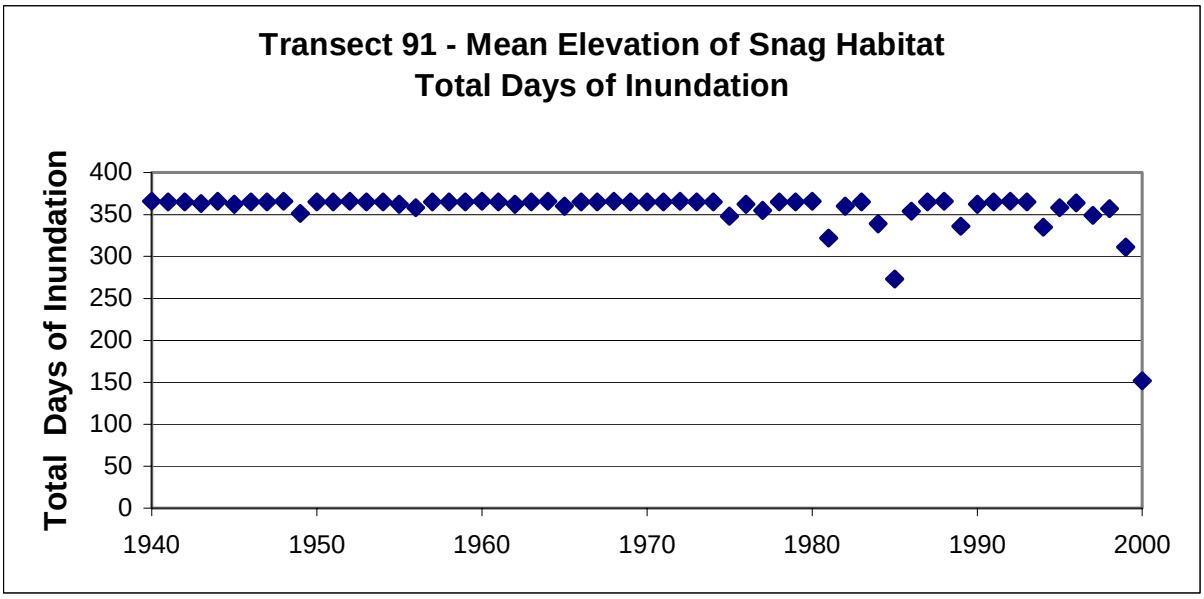

Transect 33 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

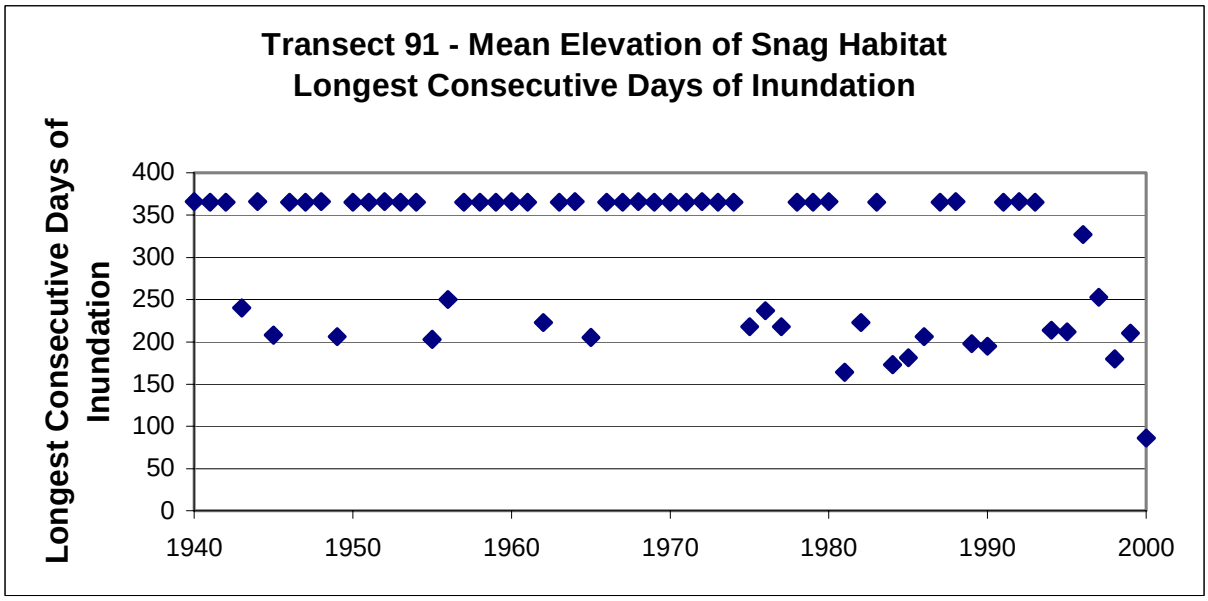

Transect 15 - Mean Elevation of Exposed Root Habitat
Total Days of Inundation
Total Days of Inundation
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

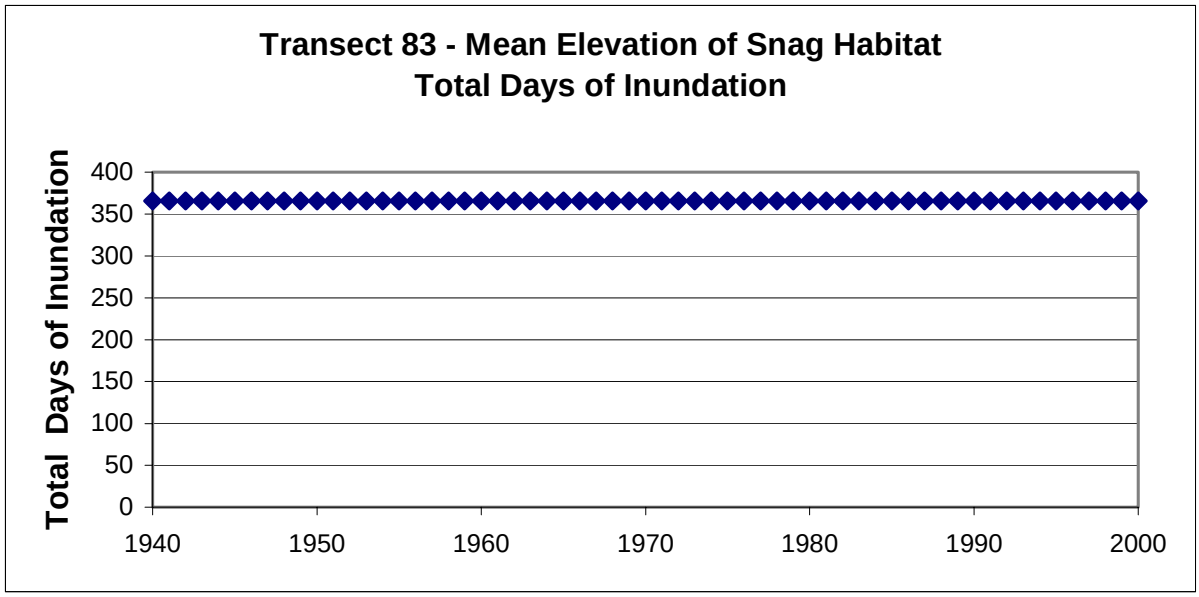

Transect 15 - Mean Elevation of Exposed Root Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

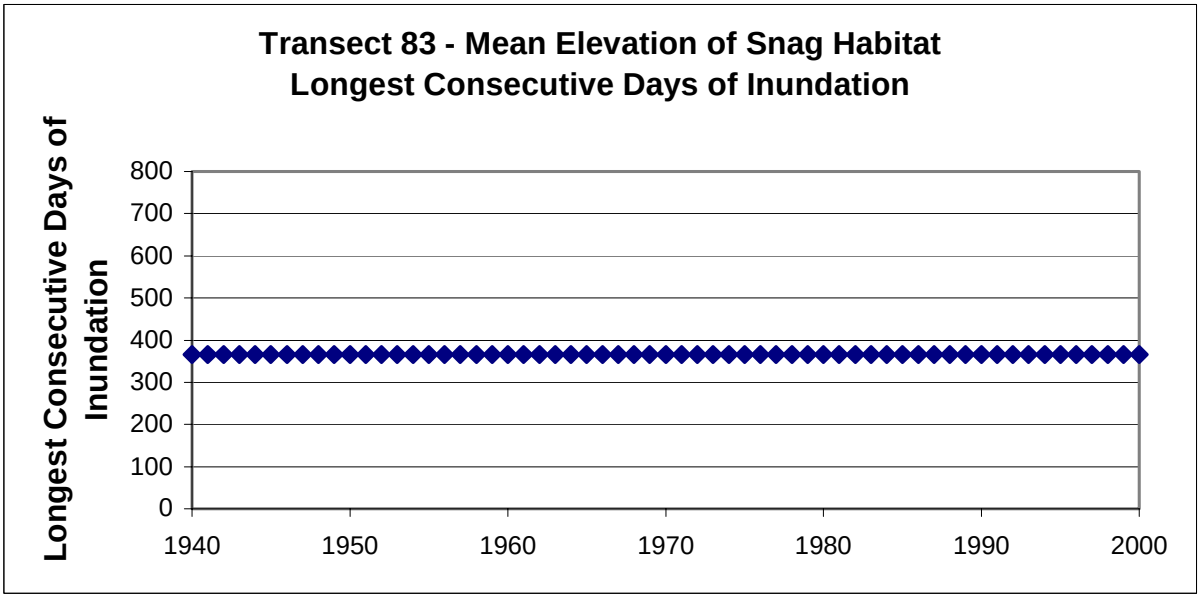

Transect 106 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

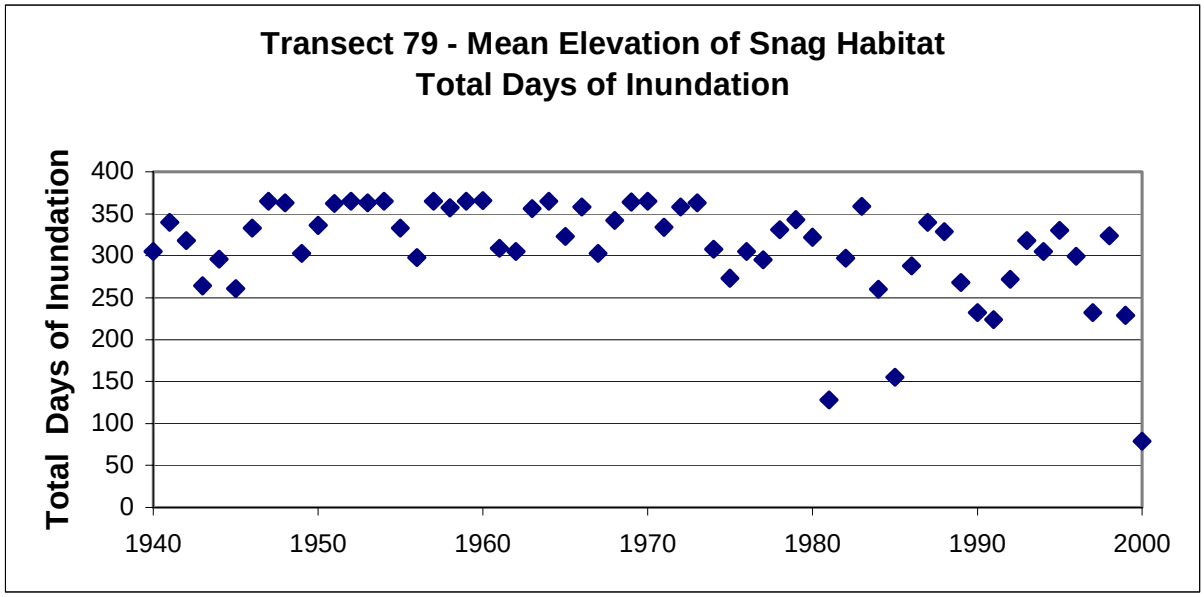

Transect 106 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

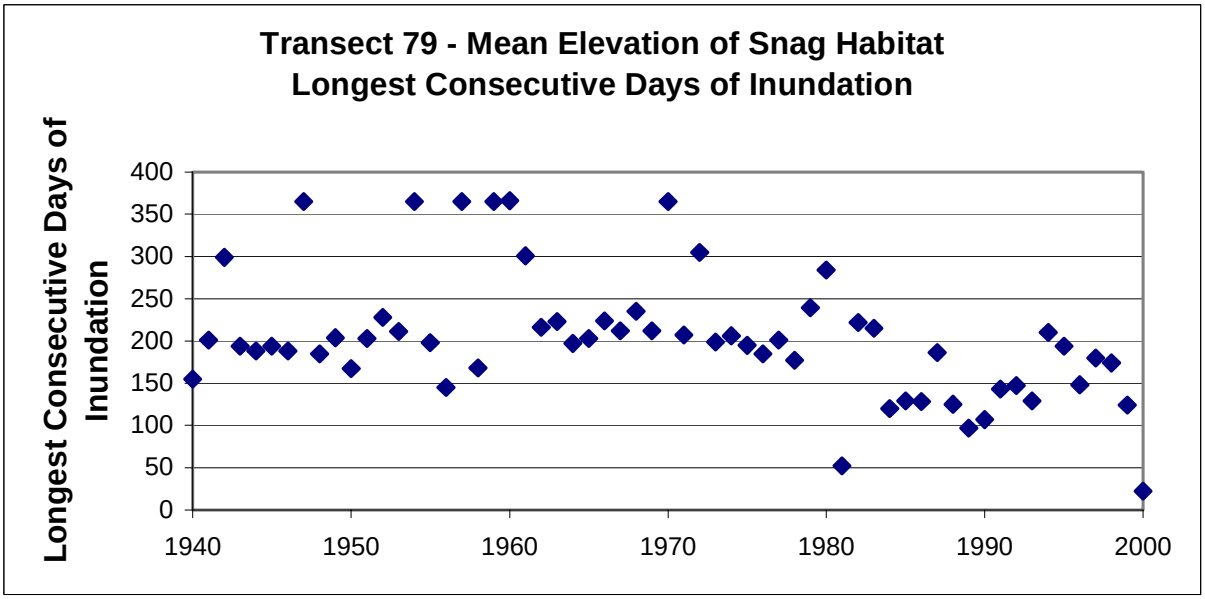

Transect 91 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

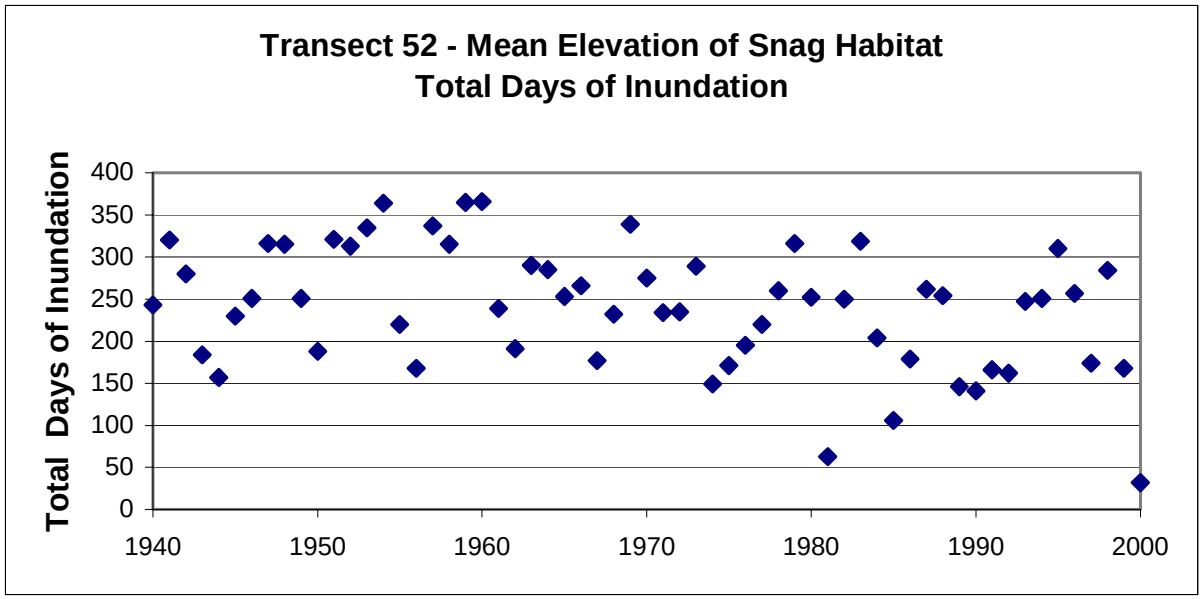

Transect 91 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

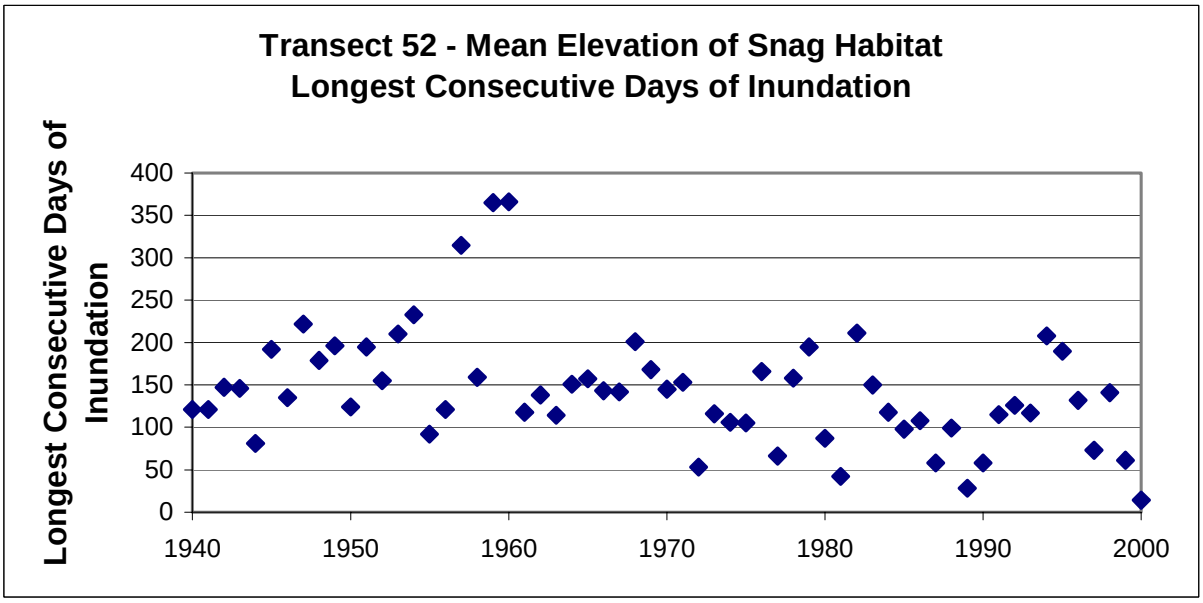

Transect 83 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

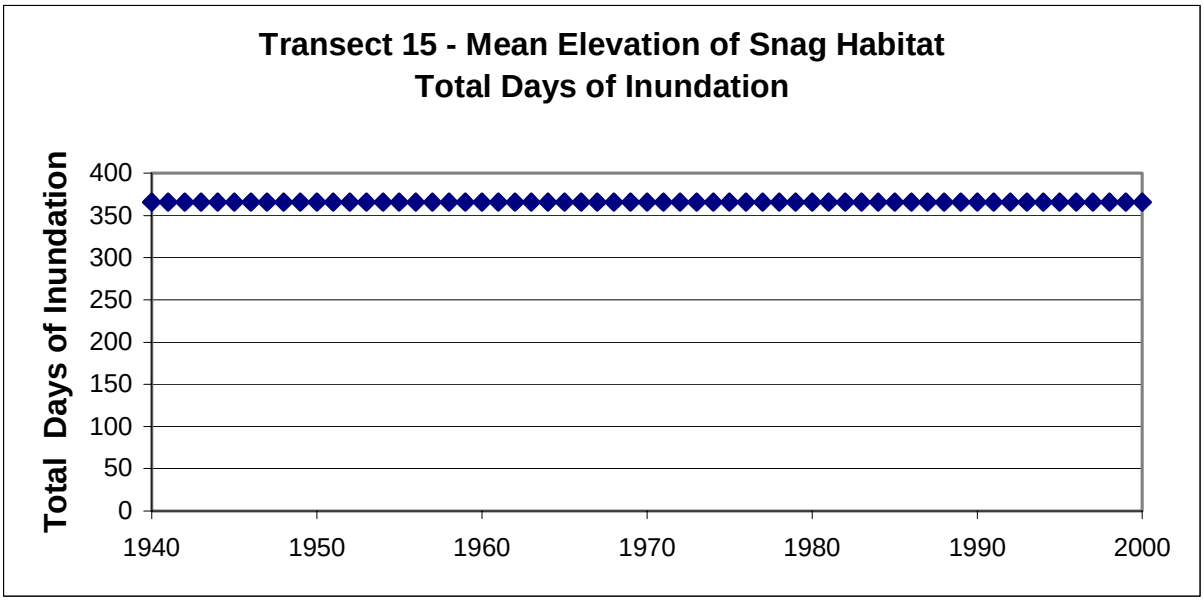

Transect 83 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
800
700
600
500
400
300
200
100
0
1940
1950
1960
1970
1980
1990
2000

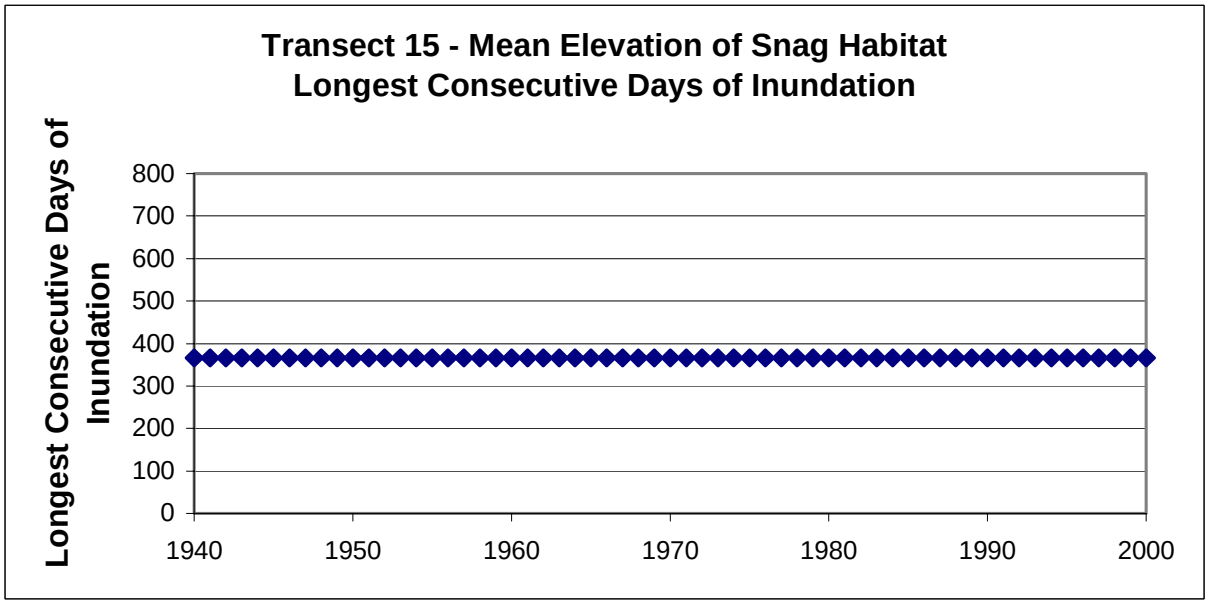

Transect 79 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000


Transect 79 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000


Transect 52 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000


Transect 52 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000


Transect 15 - Mean Elevation of Snag Habitat
Total Days of Inundation
Total Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

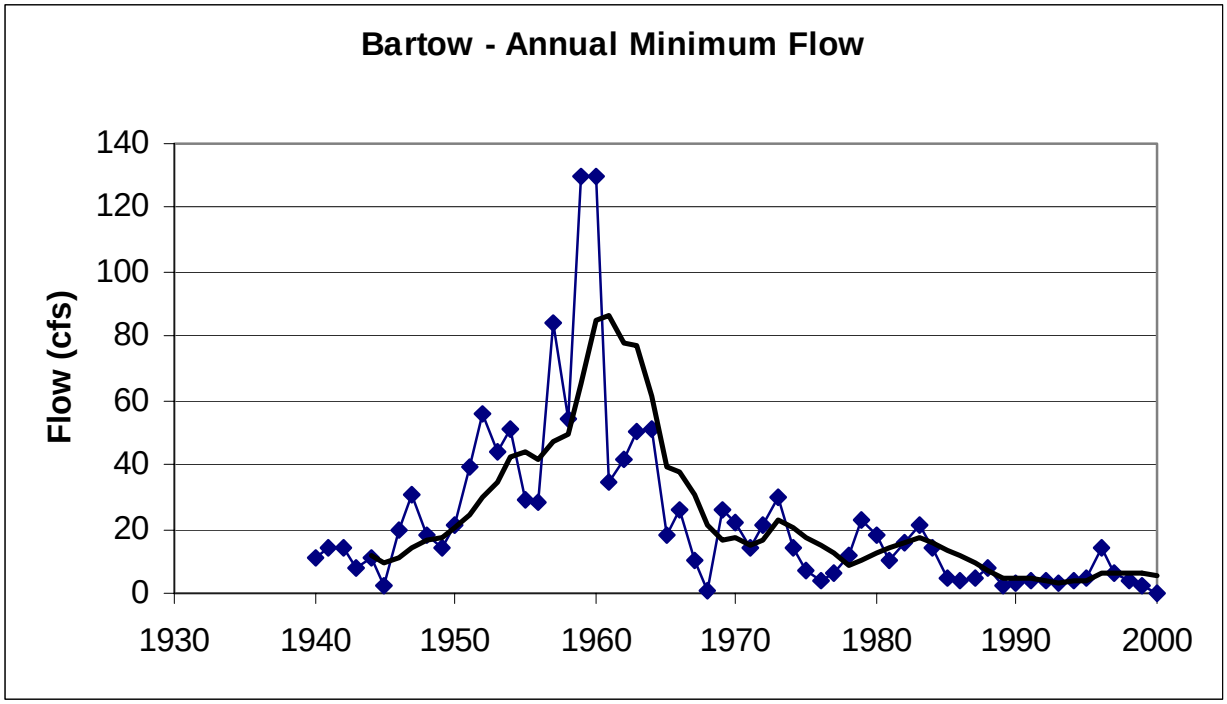

Transect 15 - Mean Elevation of Snag Habitat
Longest Consecutive Days of Inundation
Longest Consecutive Days of Inundation
800
700
600
500
400
300
200
100
0
1940
1950
1960
1970
1980
1990
2000

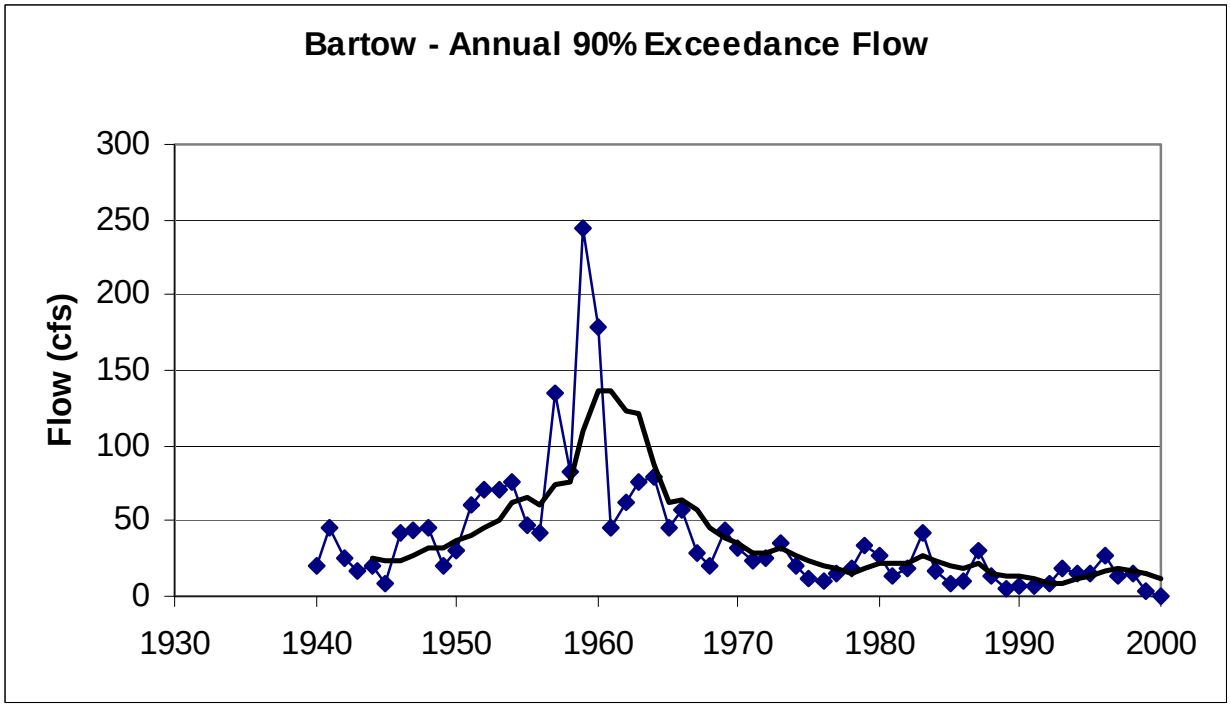
APPENDIX QE

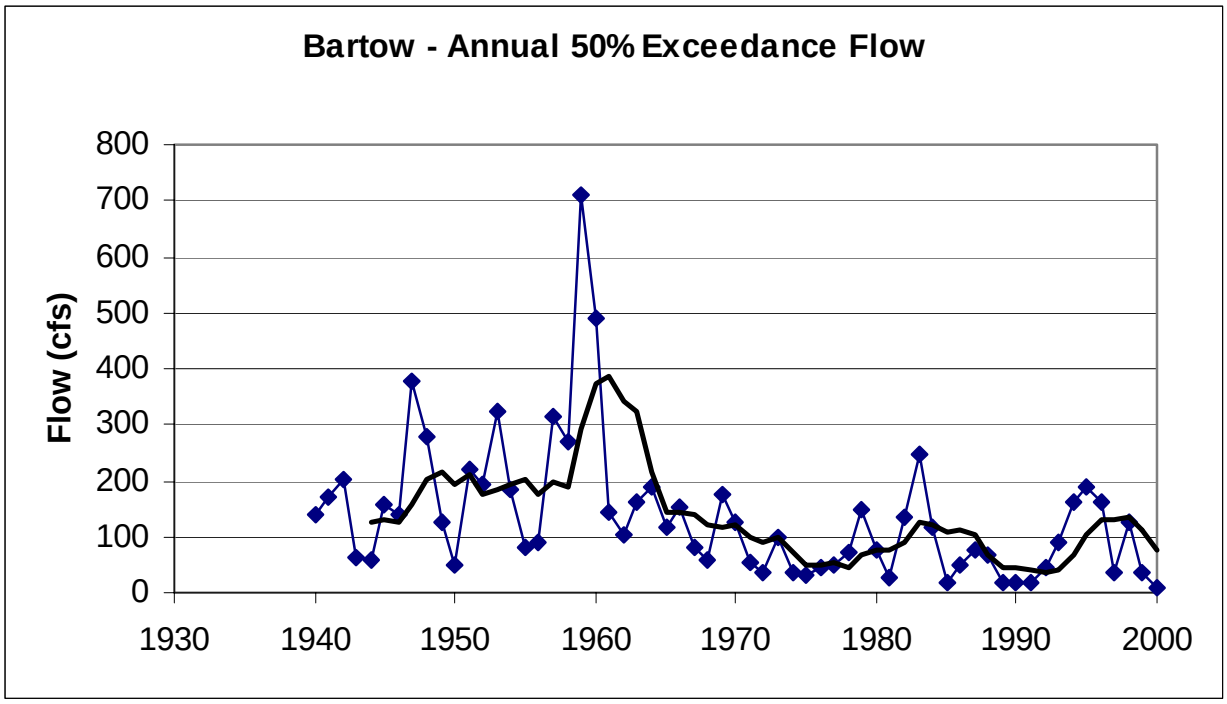
Flows/Exceedance - QE

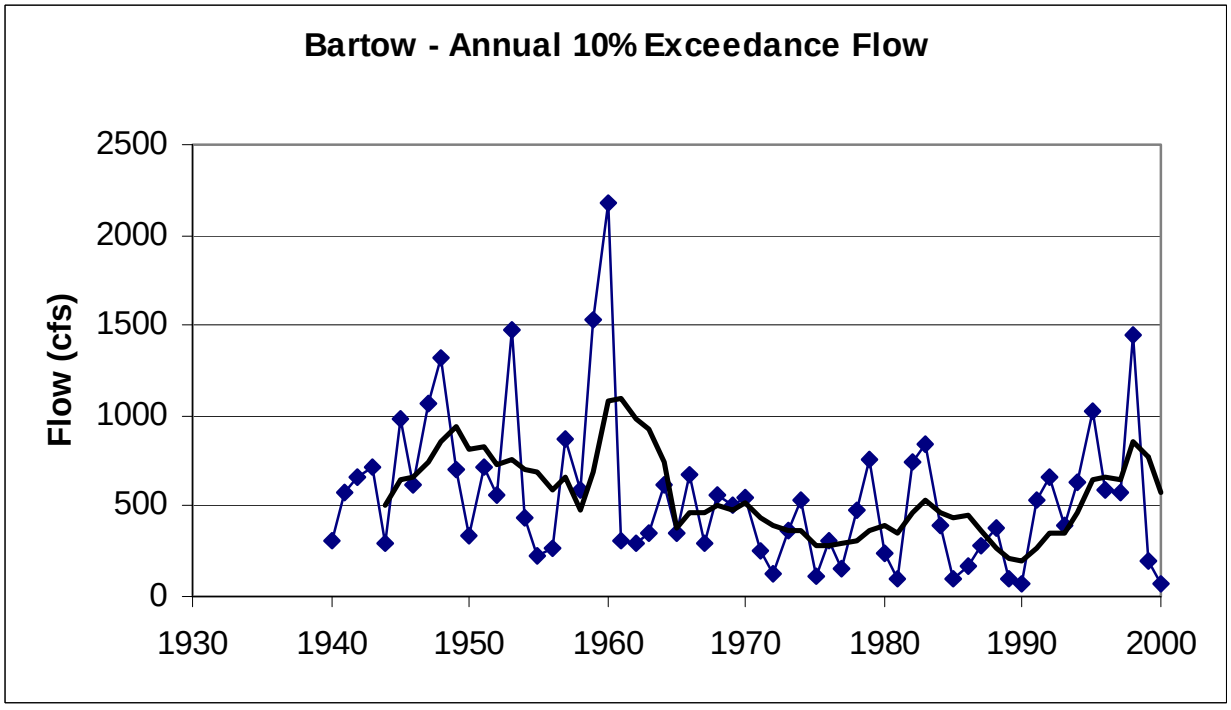
This appendix contains selected plots of percent exceedance flows for four gage sites on the Peace River: Bartow, Ft. Meade, Zolfo Springs and Arcadia. The reader is reminded that the period of record at the Ft. Meade site is considerably shorter (beginning in 1975) the other three sites which had periods of record to at least 1940. Percent exceedance plots are given for the 100% exceedance flow (the minimum flow) for each year of the period of record, for the 90% exceedance flow, the 50% exceedance flow (i.e., the median flow) and the 10% exceedance flow. Percent exceedance is for flows by year; the annual value is plotted as well as a 5-year running average. In addition to these plots, this appendix also includes several plots which also show the percent exceedance flow at an upstream site as a percent of the flow at a downstream site for selected time periods. One can visually see how the percent contribution of upstream flows to downstream flows has changed over time.

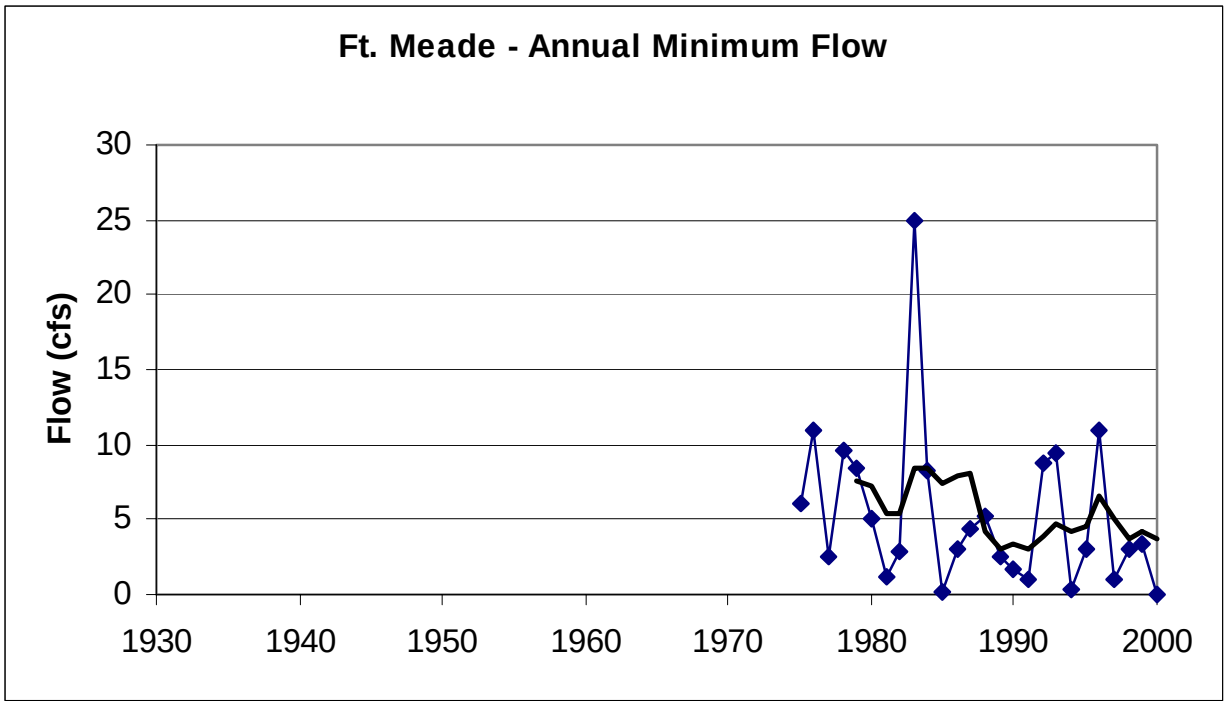
Chart/Table	Page
Bartow annual minimum flow (i.e., 100% exceedance flow)	QE-2
Bartow 90% exceedance flow	QE-2
Bartow median or 50% exceedance flow	QE-3
Bartow 10% exceedance flow	QE-3
Ft. Meade annual minimum flow (i.e., 100% exceedance flow)	QE-4
Ft. Meade 90% exceedance flow	QE-4
Ft. Meade median or 50% exceedance flow	QE-5
Ft. Meade 10% exceedance flow	QE-5
Zolfo Springs annual minimum flow (i.e., 100% exceedance flow)	QE-6
Zolfo Springs 90% exceedance flow	QE-6
Zolfo Springs median or 50% exceedance flow	QE-7
Zolfo Springs 10% exceedance flow	QE-7
Arcadia annual minimum flow (i.e., 100% exceedance flow)	QE-8
Arcadia 90% exceedance flow	QE-8
Arcadia or 50% exceedance flow	QE-9
Arcadia 10% exceedance flow	QE-9
Contribution of Bartow flow to Zolfo Springs flow	QE-10
Contribution of Bartow flow to Arcadia flow	QE-10
Contribution of Zolfo Springs flow to Arcadia flow	QE-11
Table of Annual Percent Exceedance Flows at Bartow	QE-12
Table of Annual Percent Exceedance Flows at Ft. Meade	QE-13
Table of Annual Percent Exceedance Flows at Zolfo Springs	QE-14
Table of Annual Percent Exceedance Flows at Arcadia	QE-15

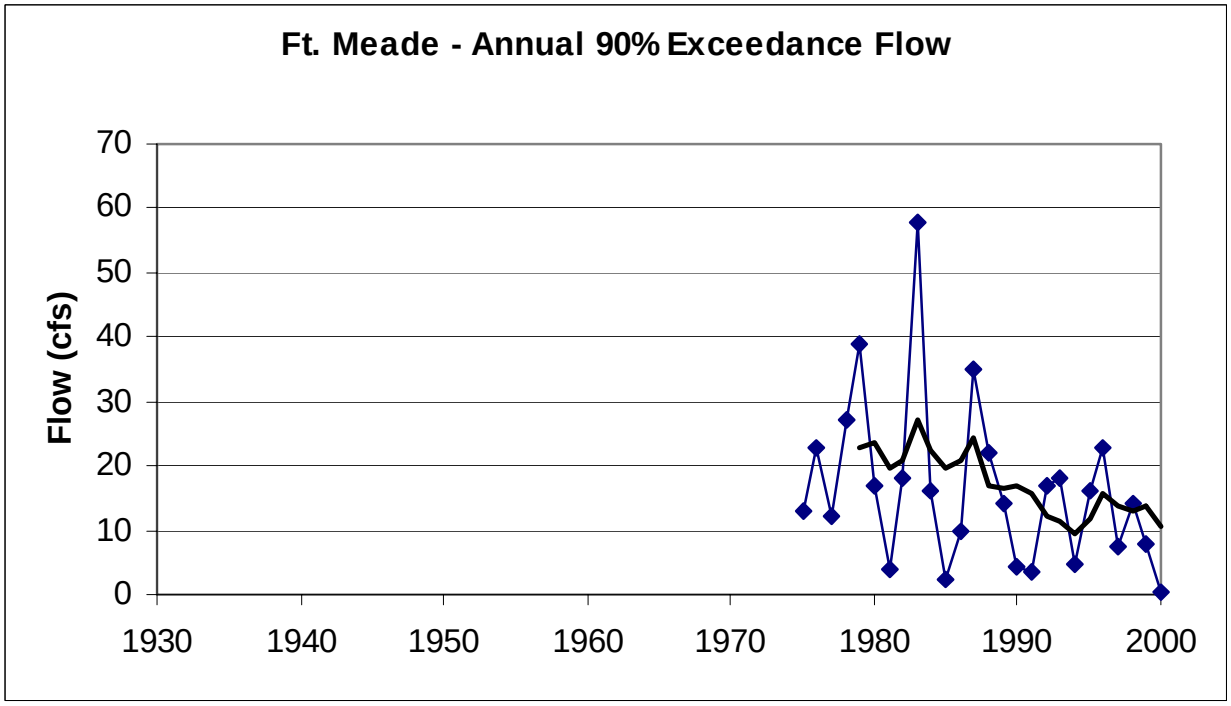

Bartow - Annual Minimum Flow
Flow (cfs)
140
120
100
80
60
40
20
0
1930
1940
1950
1960
1970
1980
1990
2000

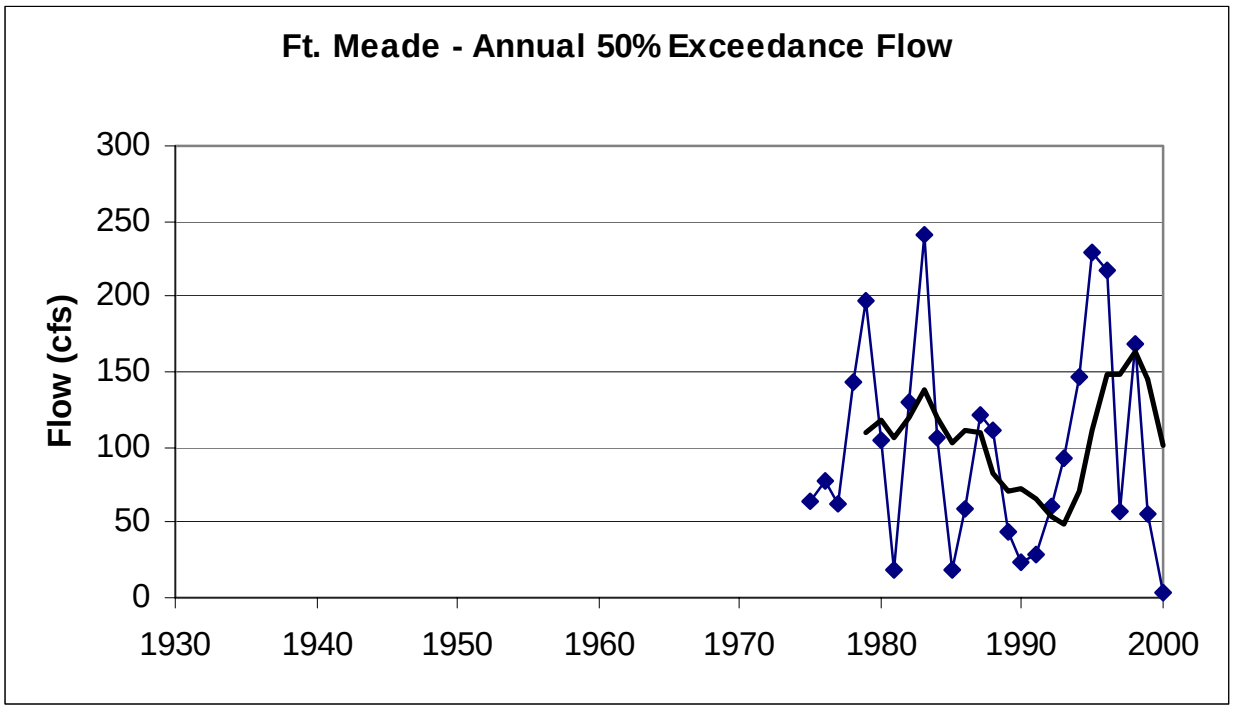

Bartow - Annual 90% Exceedance Flow
Flow (cfs)
300
250
200
150
100
50
0
1930
1940
1950
1960
1970
1980
1990
2000

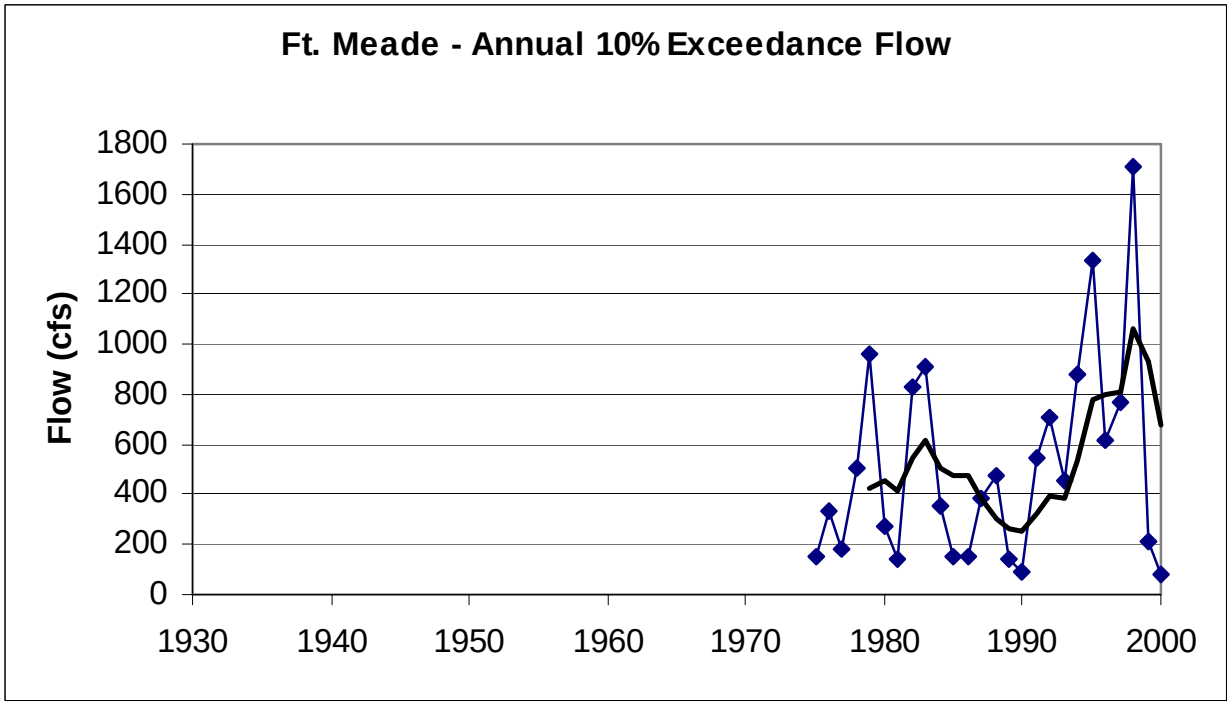

Bartow - Annual 50% Exceedance Flow
Flow (cfs)
800
700
600
500
400
300
200
100
0
1930
1940
1950
1960
1970
1980
1990
2000

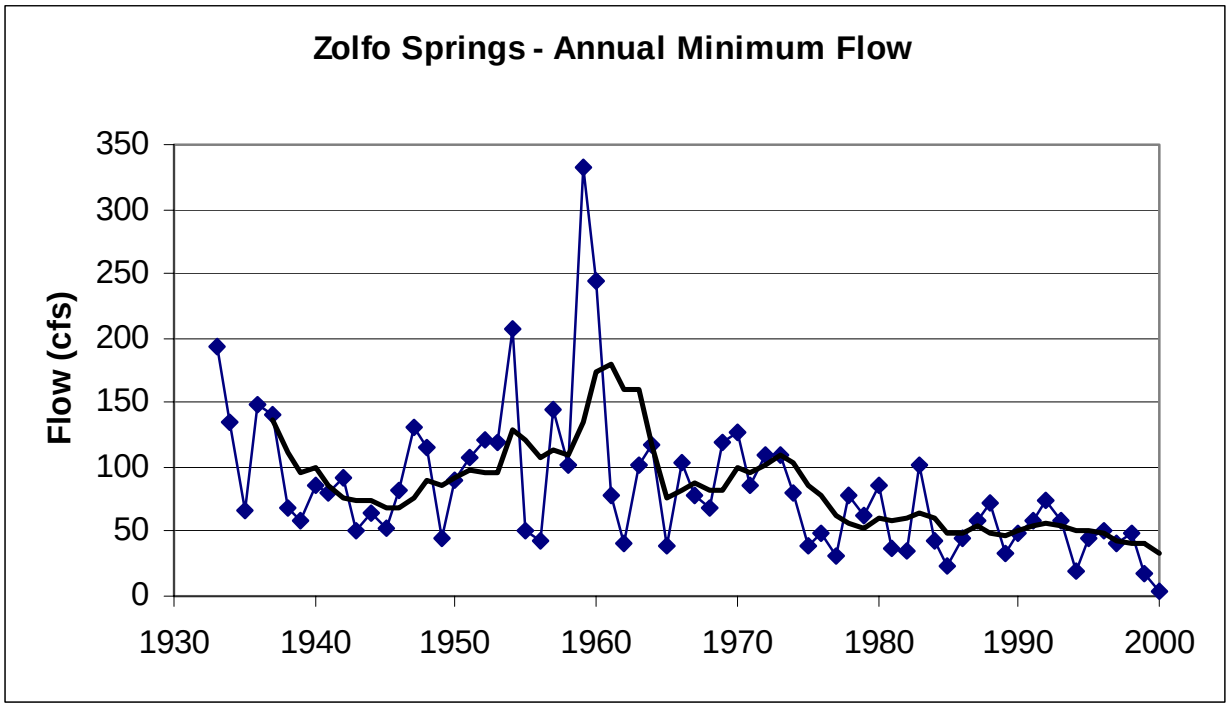

Bartow - Annual 10% Exceedance Flow
Flow (cfs)
2500
2000
1500
1000
500
0
1930
1940
1950
1960
1970
1980
1990
2000

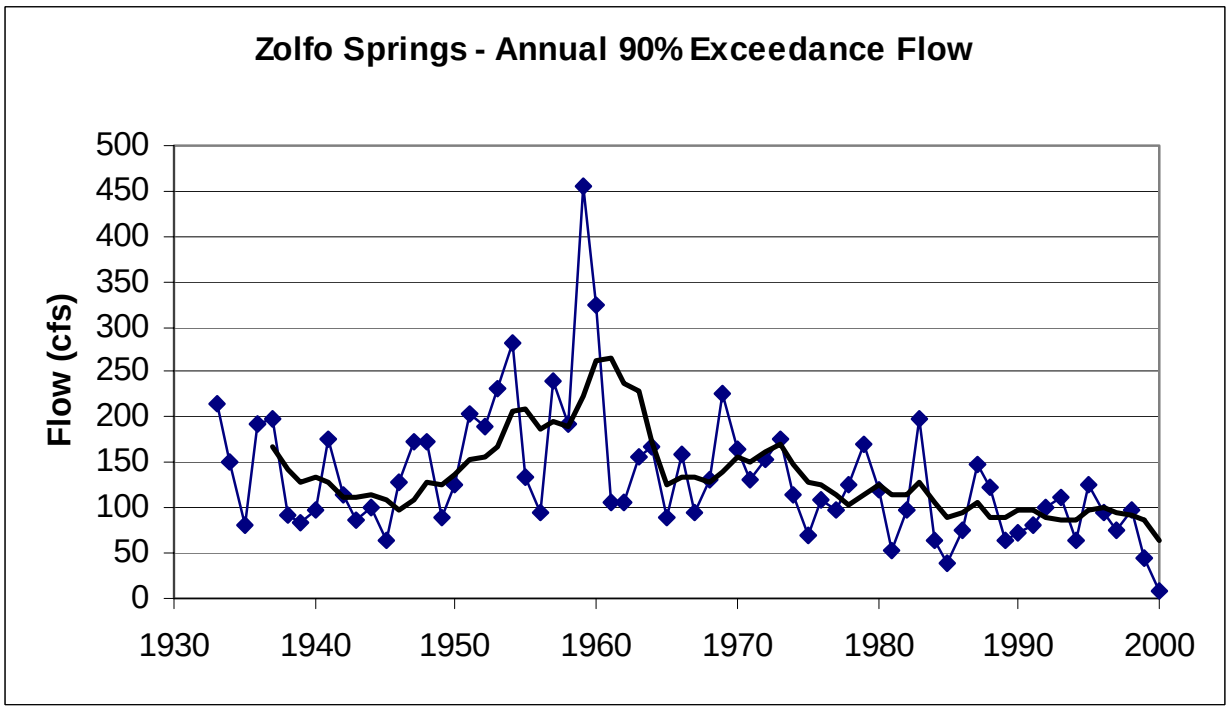

Ft. Meade - Annual Minimum Flow
Flow (cfs)
30
25
20
15
10
5
0
1930
1940
1950
1960
1970
1980
1990
2000

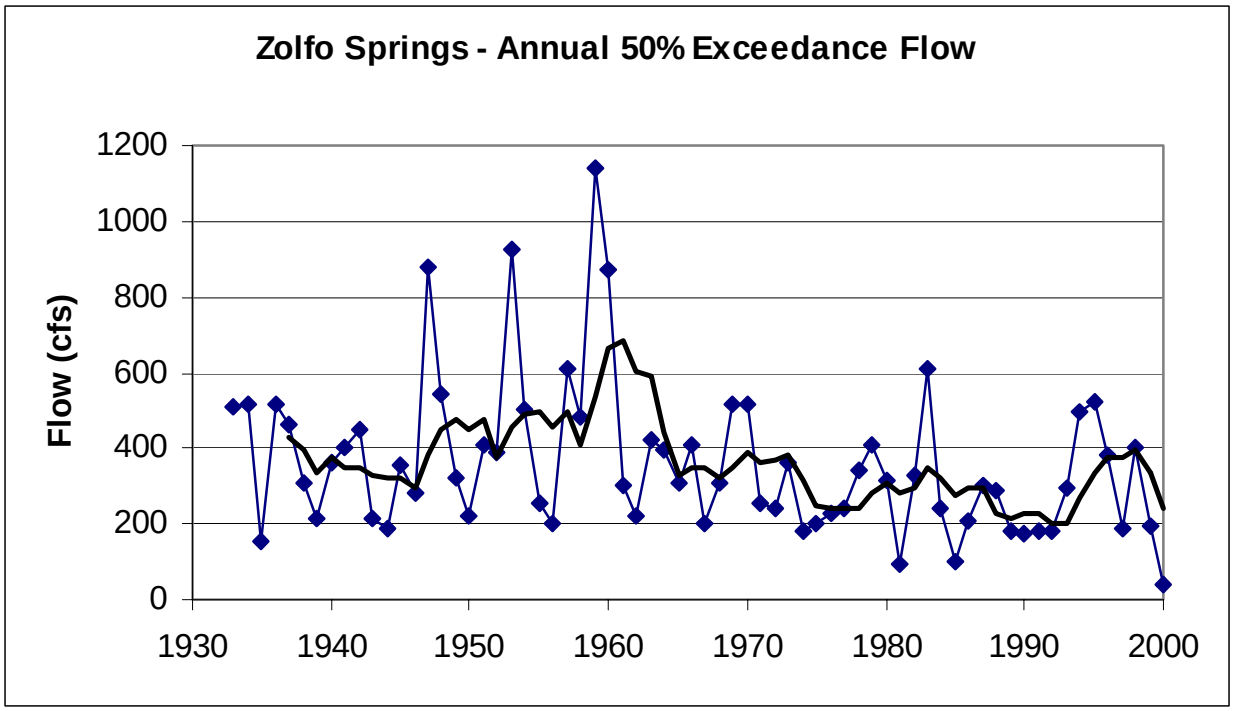

Ft. Meade - Annual 90% Exceedance Flow
Flow (cfs)
70
60
50
40
30
20
10
0
1930
1940
1950
1960
1970
1980
1990
2000

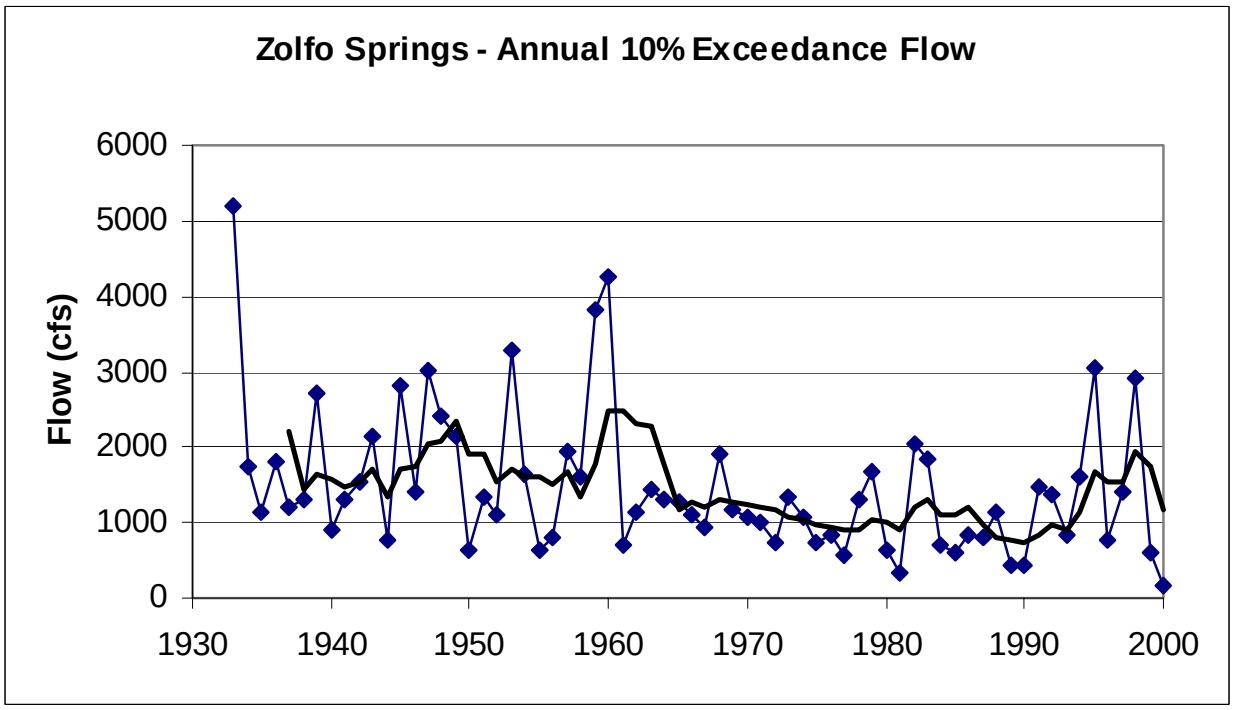

Ft. Meade - Annual 50% Exceedance Flow
Flow (cfs)
300
250
200
150
100
50
0
1930
1940
1950
1960
1970
1980
1990
2000

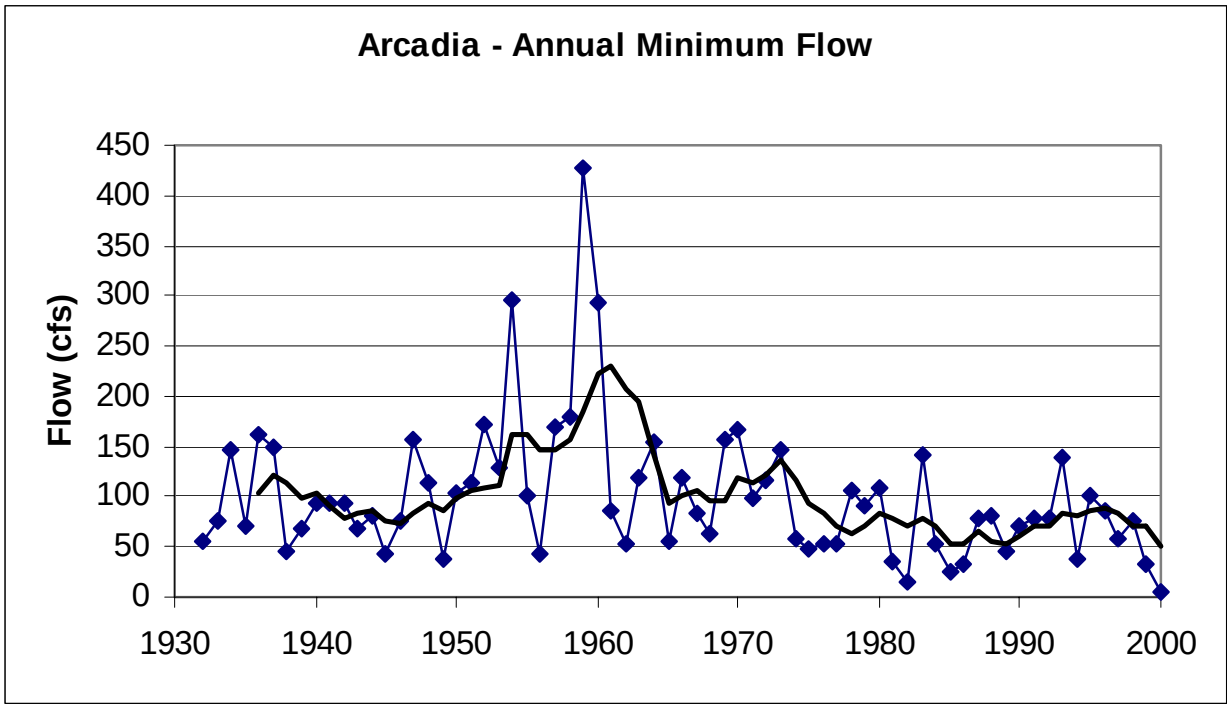

Ft. Meade - Annual 10% Exceedance Flow
Flow (cfs)
1800
1600
1400
1200
1000
800
600
400
200
0
1930
1940
1950
1960
1970
1980
1990
2000

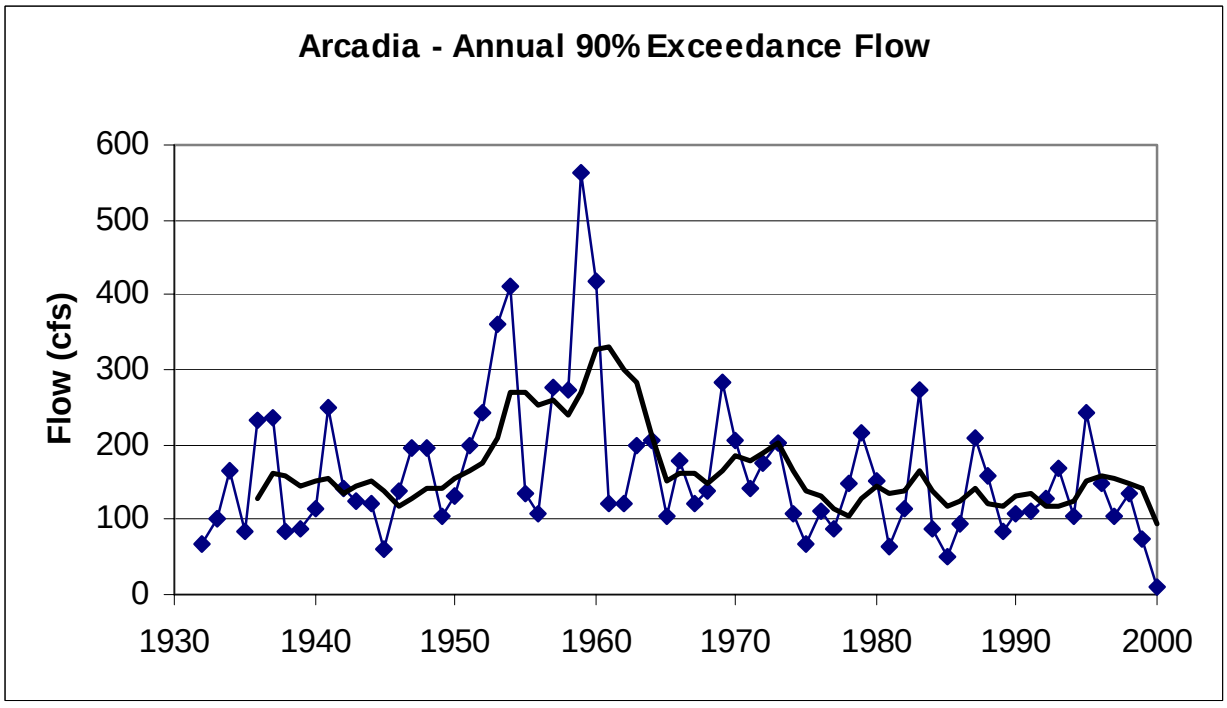

Zolfo Springs - Annual Minimum Flow
Flow (cfs)
350
300
250
200
150
100
50
0
1930
1940
1950
1960
1970
1980
1990
2000

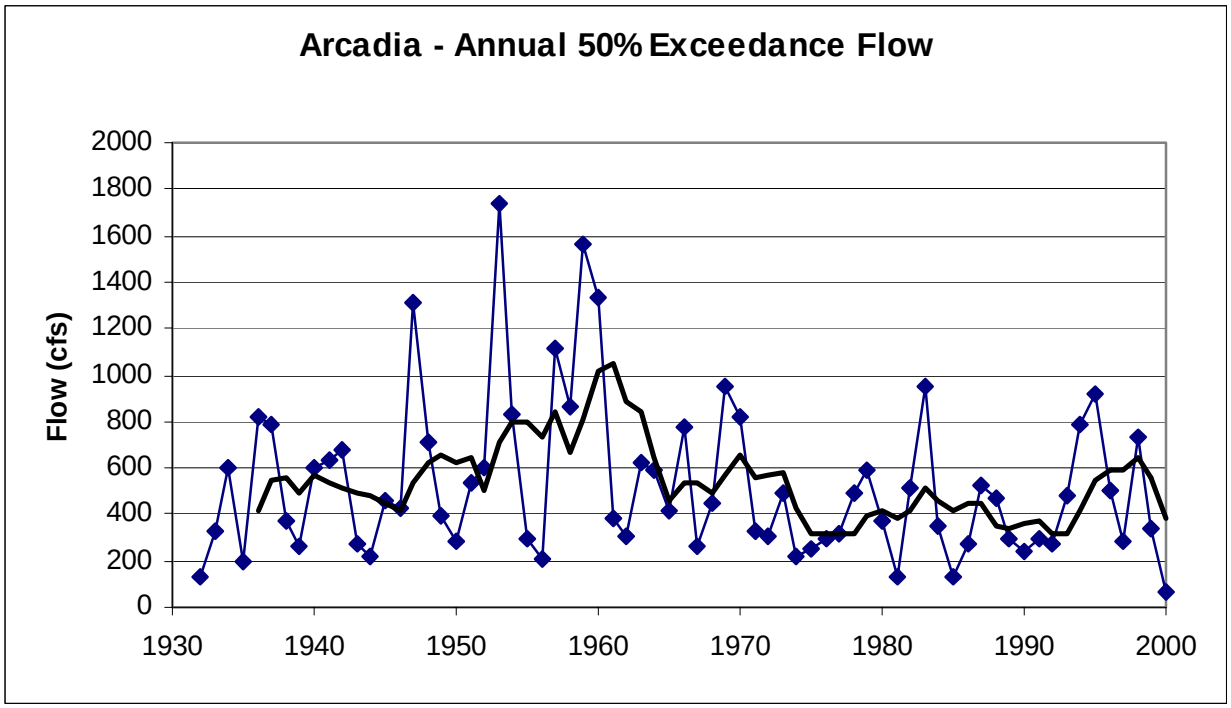

Zolfo Springs - Annual 90% Exceedance Flow
Flow (cfs)
500
450
400
350
300
250
200
150
100
50
0
1930
1940
1950
1960
1970
1980
1990
2000

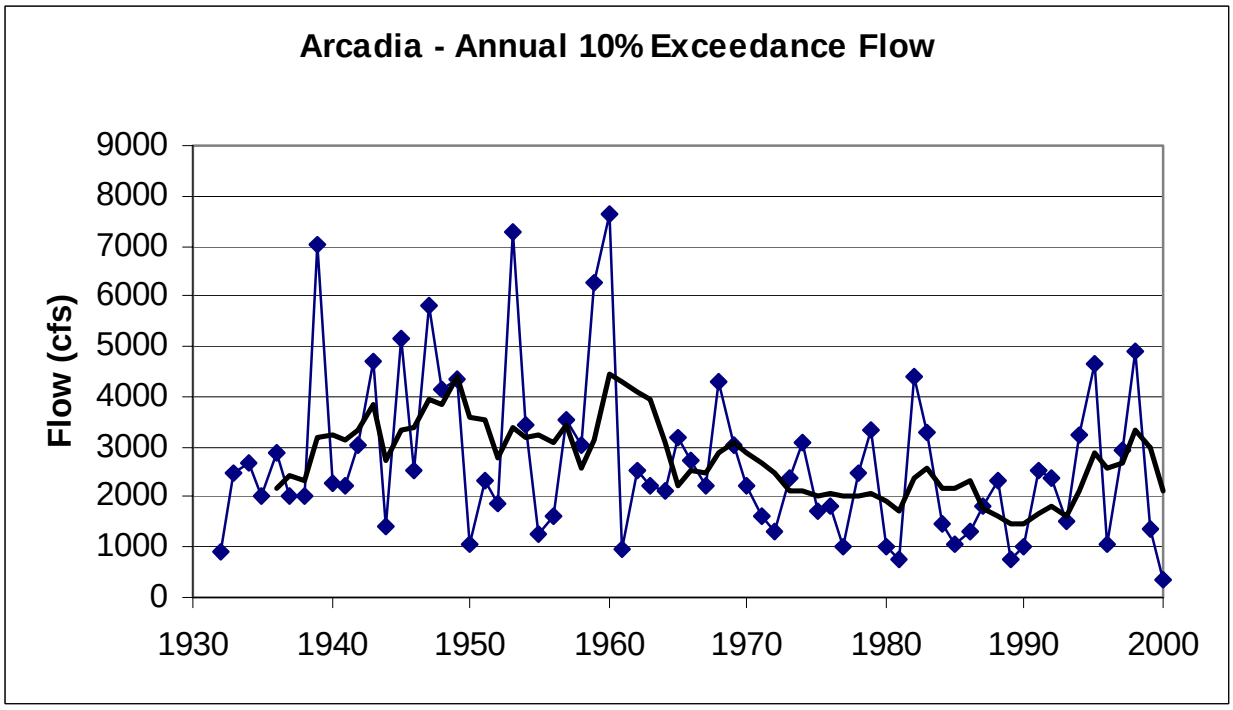

Zolfo Springs - Annual 50% Exceedance Flow
Flow (cfs)
1200
1000
800
600
400
200
0
1930
1940
1950
1960
1970
1980
1990
2000

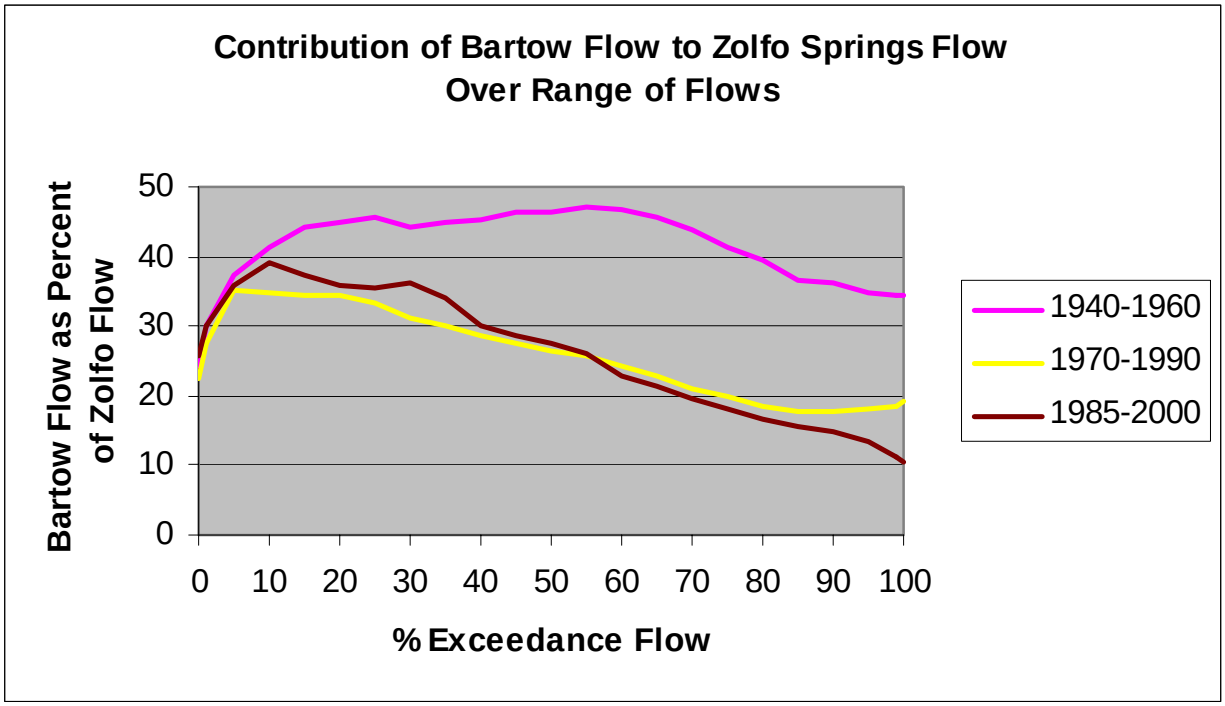

Zolfo Springs - Annual 10% Exceedance Flow
Flow (cfs)
6000
5000
4000
3000
2000
1000
0
1930
1940
1950
1960
1970
1980
1990
2000

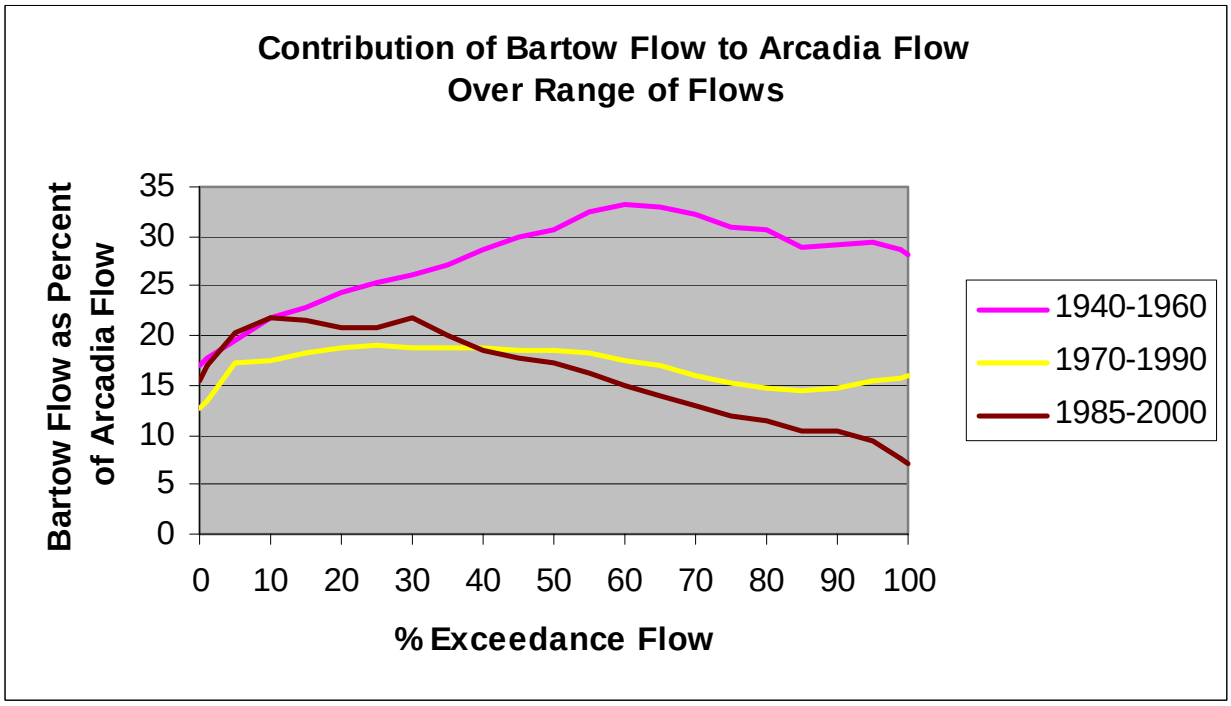

Arcadia - Annual Minimum Flow
Flow (cfs)
450
400
350
300
250
200
150
100
50
0
1930
1940
1950
1960
1970
1980
1990
2000

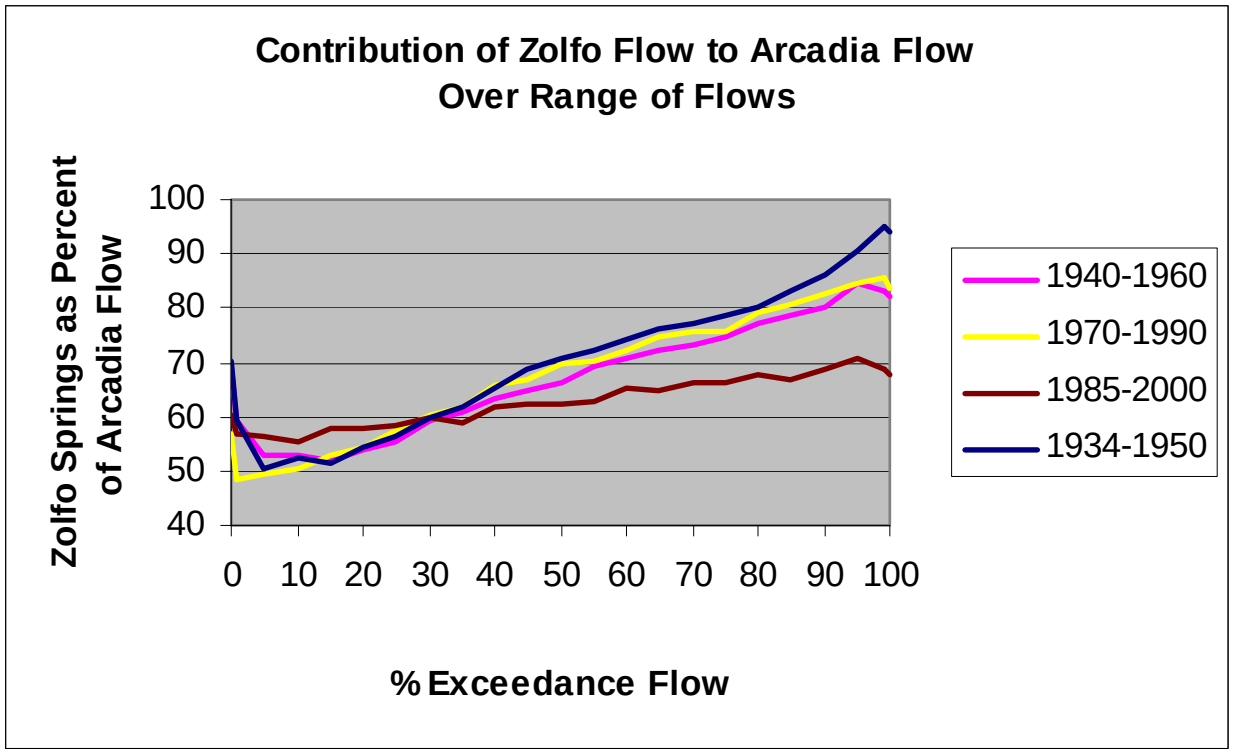

Arcadia - Annual 90% Exceedance Flow
Flow (cfs)
600
500
400
300
200
100
0
1930
1940
1950
1960
1970
1980
1990
2000


Arcadia - Annual 50% Exceedance Flow
Flow (cfs)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1930
1940
1950
1960
1970
1980
1990
2000


Arcadia - Annual 10% Exceedance Flow
Flow (cfs)
9000
8000
7000
6000
5000
4000
3000
2000
1000
0
1930
1940
1950
1960
1970
1980
1990
2000


Contribution of Bartow Flow to Zolfo Springs Flow
Over Range of Flows
Bartow Flow as Percent of Zolfo Flow
50
40
30
20
10
0
0 10 20 30 40 50 60 70 80 90 100
% Exceedance Flow
1940-1960
1970-1990
1985-2000


Contribution of Bartow Flow to Arcadia Flow
Over Range of Flows
Bartow Flow as Percent of Arcadia Flow
35
30
25
20
15
10
5
0
0 10 20 30 40 50 60 70 80 90 100
% Exceedance Flow
1940-1960
1970-1990
1985-2000


Contribution of Zolfo Flow to Arcadia Flow
Over Range of Flows
Zolfo Springs as Percent of Arcadia Flow
100
90
80
70
60
50
40
0
10
20
30
40
50
60
70
80
90
100
% Exceedance Flow
1940-1960
1970-1990
1985-2000
1934-1950

Annual percent exceedance flows at the Bartow gage on the Peace River.

YEAR	MIN	95%	90%	80%	70%	60%	50%	40%	30%	20%	10%	MAX
1940	11	15	20	36	54	99	138	166	201	237	305	638
1941	14	27	46	97	113	140	171	203	242	323	572	1280
1942	14	19	26	55	121	158	202	256	369	481	654	1300
1943	8.3	13	17	21	27	40	63	94	252	479	718	1340
1944	11	16	21	30	37	47	56.5	78	131	211	301	779
1945	1.8	7	8.9	16	38	115	158	226	482	676	981	1880
1946	20	33	42	55.5	90	122	141	167	211	343	618	1060
1947	31	39	44	155	237	333	377	536	672	769	1070	4100
1948	18	31	46	91	175	224	278	377	601	772	1320	2810
1949	14	18	21	30	66	92.5	128	227	293	423	698	2810
1950	21	27	30	35	39	44	51	84.5	173	210	335	1580
1951	39	48	60	113	158	191	221	276	358	515	718	1200
1952	56	64	71	92	114	147	193	238	295	394	558	1650
1953	44	56	71	117	174	262	325	425	545	1105	1480	2030
1954	51	58	76	109	124	152	184	215	262	324	442	939
1955	29	37	47	54	60	71	83	97	130	171	221	385
1956	28	32	42	57	66	77	89	117	145	213	260	494
1957	84	100	134	160	212	272	313	382	493	672	866	1220
1958	54	71	82	116	160	207	270	315	364	477	596	900
1959	130	218	245	289	382	545	709	822	952	1270	1530	3350
1960	130	164	179	237	322	386	489	646	945	1370	2170	3460
1961	35	41	45	66	92	111	143	169	199	232	314	664
1962	42	52	62	75	84	92	102	113	158	219	289	591
1963	50	58	76	94.5	108	129	164	207	252	296	355	718
1964	51	73	80	93	102	124	187	242	286	420	616	966
1965	18	32	45	59	88	103	118	153	188	237	347	1370
1966	26	42	58	76.5	97	111	155	311	420	567	678	915
1967	10	23	28	38.5	50	69	80	88	105	135	297	682
1968	1.2	6.5	20	30	36	42	60	89	202	382	563	1020
1969	26	32	43	57.5	85	132	177	247	315	397	510	958
1970	22	30	32	41.5	61	84	128	186	265	336	548	778
1971	14	21	24	28	33	46	54	65.5	92	113	248	400
1972	21	25	26	28	31	34	37	40	46	58	124	472
1973	30	33	36	43.5	55	64	98	150	207	262	362	645
1974	14	19	20	23	26	28.5	34	40	56	305	538	774
1975	6.6	8.9	12	16	21	26	30	34.5	39	64.5	106	239
1976	3.9	6.4	9.9	18	22	31	46.5	74	121	160	303	566
1977	5.5	11	16	27	37	44	51	56	71	107	154	388
1978	12	17	19	28	41	58	71	105	202	293	476	982
1979	23	28	34	51	76	102	147	235	367	641	761	1610
1980	18	23	27	35	47	57	77	102	138	182	241	512
1981	10	13	14	16	20	22.5	25	28	30	39	92	232
1982	16	17	18	24	49	73.5	135	180	305	605	749	1620
1983	21	33	42	65	132	195	248	332	506	654	845	1150
1984	14	16	17	20	33	87	115	140	179	212	400	827
1985	4.6	6.7	8	10	13	15	20	27	36	62	103	310
1986	4.1	7.3	10	19	28	38	49	65	93	115	162	386
1987	4.6	26	30	36	41	52.5	78	106	156	207	285	1140
1988	7.8	11	14	20	27	50	69	96	125	204	376	1140
1989	2	3.9	4.5	8.8	11	15	19	24	28	35.5	93	361
1990	3.1	5.4	6.5	9.2	11	14	16	20	26	45.5	72	295
1991	4	6.3	6.9	8.9	12	14	20	29.5	59	209	531	931
1992	4.2	7.5	9	12	16	24	47	73	118	275	658	863
1993	2.8	7.9	18	25	36	53.5	92	133	195	234	400	607
1994	4.3	8.8	16	26.5	49	86.5	162	229	317	389	638	1160
1995	4.7	10	15	57	97	122	191	251	429	759	1030	1550
1996	14	22	27	41	72	123	161	205	283	399	596	1110
1997	6.3	10	14	17	21	28	37	95.5	203	363	570	1480
1998	3.8	6.9	16	28.5	40	63	128	234	790	1025	1450	2110
1999	1.5	2.4	3.4	7.4	18	29.5	38	60.5	85	116	198	562
2000	0	0	0	4.8	5.4	6.4	11	20	39	53	76	105

Annual percent exceedance flows at the Ft. Meade gage on the Peace River.

YEAR	MIN	95%	90%	80%	70%	60%	50%	40%	30%	20%	10%	MAX
1975	6	9	13	22	33	47	64	79	97	125	156	439
1976	11	19	23	33	45	56	78	165	214	270	335	509
1977	3	9	12	27	45	53	63	75	90	136	181	437
1978	10	19	27	39	66	98	143	194	276	348	506	877
1979	8	22	39	74	98	147	198	254	427	598	957	1340
1980	5	10	17	34	65	92	105	138	178	214	275	456
1981	1	3	4	10	12	16	19	23	28	39	139	269
1982	3	15	18	30	69	106	130	187	434	659	829	1210
1983	25	49	58	85	153	204	241	327	492	692	907	1090
1984	8	12	16	25	45	83	107	130	167	229	354	858
1985	0	1	2	5	7	9	18	35	54	108	150	503
1986	3	7	10	24	35	47	59	73	88	117	155	412
1987	4	19	35	45	68	96	122	157	192	273	380	898
1988	5	16	22	39	64	89	111	136	163	279	475	1250
1989	3	9	14	21	28	35	44	55	70	90	143	402
1990	2	3	4	9	12	19	24	34	49	70	91	182
1991	1	3	4	6	8	15	28	53	95	206	544	968
1992	9	14	17	20	28	46	60	83	120	269	711	867
1993	10	15	18	30	46	67	92	140	201	274	455	807
1994	0	2	5	32	51	91	146	268	413	487	877	1810
1995	3	6	16	90	122	170	229	340	463	886	1330	2020
1996	11	18	23	46	106	162	218	294	381	470	620	1030
1997	1	4	7	12	20	31	57	102	226	379	771	1540
1998	3	5	14	46	61	102	168	356	1010	1300	1710	2220
1999	3	7	8	12	20	35	56	80	100	130	214	581
2000	0	0	0	1	2	3	3	6	33	49	78	211

Annual percent exceedance flows at the Zolfo Springs gage on the Peace River.

YEAR	MIX	95%	90%	80%	70%	60%	50%	40%	30%	20%	10%	MAX
1933	193	200	215	265	323	365	509	656	950	1630	5210	26000
1934	134	141	152	193	215	293	516	684	922	1310	1740	9850
1935	67	73	80	89	105	121	156	253	373	539	1150	6420
1936	148	169	193	235	282	406	518	620	800	1030	1800	4680
1937	141	174	197	236	312	374	462	535	649	828	1220	3390
1938	69	83	92	148	214	254	310	384	531	781	1310	8800
1939	58	72	84	109	165	194	216	317	860	1940	2730	9400
1940	86	94	98	132	169	290	364	436	542	650	898	2850
1941	81	108	175	240	289	342	402	509	674	861	1300	4160
1942	91	105	115	172	289	382	446	566	818	1060	1540	4100
1943	51	74	86	113	129	179	212	292	748	1415	2150	4030
1944	64	85	100	124	142	165	185	220	311	514	773	2540
1945	53	61	63	72	135	245	354	497	1060	1710	2830	10600
1946	82	111	128	174	207	242	284	354	440	812	1400	2900
1947	131	153	174	415	598	706	875	1190	1680	2060	3010	19700
1948	116	150	172	284	372	432	542	731	1070	1420	2430	11200
1949	44	63	88	138	203	255	324	573	833	1280	2130	15100
1950	90	116	125	142	160	183	220	290	382	458	646	3300
1951	108	164	203	261	297	354	407	503	650	884	1350	3050
1952	121	166	189	251	280	323	390	469	561	675	1110	8460
1953	119	175	233	376	503	632	925	1300	1680	2310	3300	9130
1954	208	259	281	326	369	427	502	632	813	1110	1640	3630
1955	51	100	135	161	186	211	258	293	344	430	646	2540
1956	43	69	94	125	159	180	198	222	316	486	800	2050
1957	144	183	241	280	383	503	608	781	993	1285	1950	5300
1958	102	166	193	246	310	385	484	642	782	1075	1620	4980
1959	332	417	454	536	622	853	1140	1485	2050	2540	3830	9160
1960	245	310	325	397	513	665	873	1130	1660	2370	4270	15200
1961	78	93	107	143	182	239	300	347	415	512	716	2070
1962	42	96	107	132	156	186	222	310	488	730	1150	6200
1963	102	139	156	209	246	304	425	525	661	966	1450	3850
1964	118	152	167	204	246	314	395	504	661	931	1320	3310
1965	40	74	88	174	206	244	308	394	519	710	1260	4440
1966	104	141	159	187	220	290	408	603	706	886	1110	3970
1967	79	87	96	131	150	174	200	238	415	595	935	2470
1968	69	111	132	159	194	224	309	422	653	1060	1920	4320
1969	119	197	226	276	326	396	515	635	788	893	1180	3800
1970	127	151	166	189	290	396	517	610	728	887	1080	3090
1971	87	112	130	164	188	226	257	308	397	680	1000	3320
1972	110	136	154	181	197	218	244	288	357	485	739	4260
1973	109	163	175	204	225	278	364	525	738	975	1350	3790
1974	81	94	114	133	149	166	181	212	270	618	1080	4750
1975	39	58	71	108	137	170	198	236	354	493	731	3740
1976	49	88	110	127	154	185	229	366	507	630	839	1770
1977	31	74	97	129	184	210	244	269	325	399	584	2960
1978	79	104	127	152	236	291	340	475	711	889	1300	3240
1979	62	108	170	243	282	336	407	507	718	1060	1690	4840
1980	86	104	119	167	205	253	315	347	406	467	624	1360
1981	38	48	54	65	75	85	97	116	132	182	343	2340
1982	36	84	98	130	205	259	328	508	922	1205	2060	6100
1983	101	179	198	266	347	426	612	781	964	1305	1860	2820
1984	43	52	65	82	131	178	244	278	379	512	710	1260
1985	23	33	38	51	60	71	101	129	199	393	598	2780
1986	44	63	76	120	141	173	205	259	356	563	831	1720
1987	58	109	148	178	218	261	299	374	471	596	814	2740
1988	73	105	122	162	208	242	292	378	528	751	1140	6210
1989	34	49	64	111	130	152	183	210	245	293	422	986
1990	48	65	72	91	106	144	174	205	249	309	427	1520
1991	58	74	82	94	106	128	181	245	320	896	1470	2620
1992	74	88	100	114	130	154	182	238	473	799	1370	2980
1993	59	90	113	149	196	260	292	363	448	641	824	1580
1994	19	47	64	151	202	281	497	700	905	1245	1620	4700
1995	44	87	125	263	336	417	525	710	994	2090	3050	6800
1996	51	69	96	137	210	306	380	451	545	637	774	1750
1997	42	60	75	88	107	140	185	317	487	773	1420	5790
1998	49	78	99	189	260	315	403	700	1600	2065	2910	9960
1999	17	31	44	69	92	135	192	232	279	362	595	1840
2000	5	7	9	13	19	26	37	59	93	128	184	1160

Annual percent exceedance flows at the Arcadia gage on the Peace River.

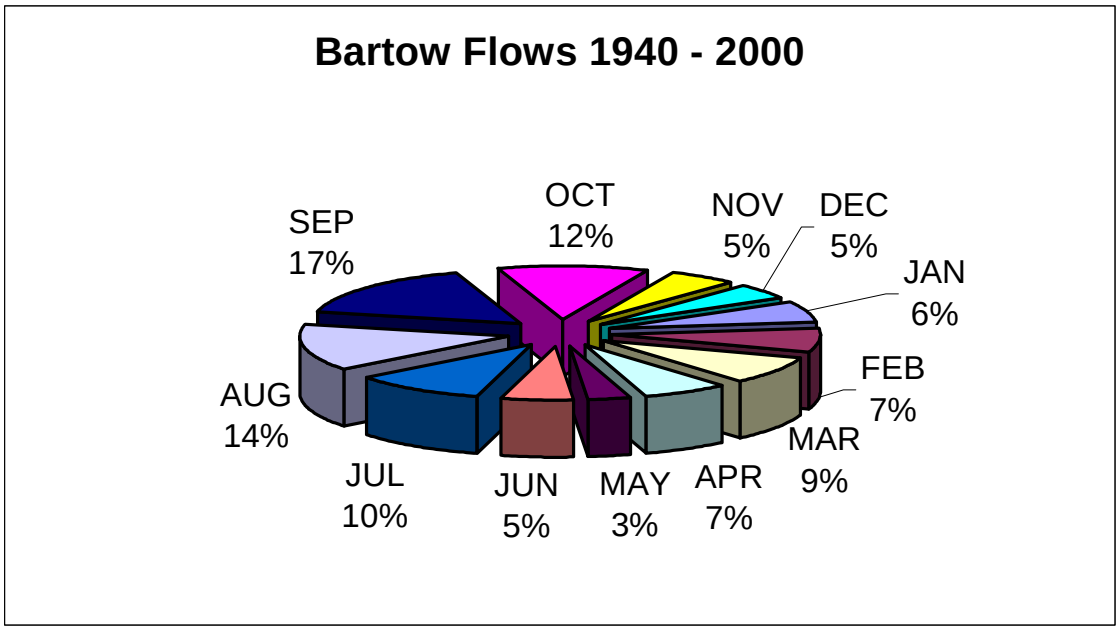
YEAR	MIN	95%	90%	80%	70%	60%	50%	40%	30%	20%	10%	MAX
1932	56	61	69	90	100	113	135	195	285	442	885	6230
1933	77	88	100	111	134	219	330	487	810	1595	2480	34700
1934	146	152	164	194	218	296	605	889	1420	2075	2690	10300
1935	70	77	83	95	112	133	193	289	440	936	2030	9750
1936	163	199	231	296	394	638	820	1040	1380	1930	2880	9920
1937	150	191	236	317	453	660	792	974	1170	1380	2040	5130
1938	45	69	84	163	247	303	370	510	754	1130	2040	10300
1939	68	76	87	118	193	228	263	615	1710	3830	7040	13900
1940	94	108	116	168	271	434	602	844	1100	1700	2260	6180
1941	93	132	250	362	433	515	639	812	1110	1510	2240	5380
1942	94	113	142	208	392	540	681	979	1330	2010	3010	7460
1943	67	97	124	150	190	229	278	407	1270	3115	4700	7040
1944	82	99	121	148	172	194	214	274	427	928	1440	3840
1945	43	52	62	83	155	256	454	649	1720	3050	5180	9750
1946	75	105	138	195	255	324	424	512	776	1410	2510	5730
1947	156	179	197	580	807	996	1310	2120	3400	4585	5790	23600
1948	115	175	197	369	462	551	710	974	1500	2190	4170	15800
1949	39	72	106	158	222	308	392	712	1230	1970	4350	25800
1950	104	122	130	160	182	206	285	350	445	544	1070	5170
1951	114	153	200	271	347	445	537	822	1210	1620	2340	8440
1952	171	206	242	304	364	462	596	766	966	1240	1880	12000
1953	129	180	362	556	826	1095	1740	2300	3270	4310	7260	11600
1954	295	372	412	490	589	693	829	1020	1480	2140	3440	6330
1955	101	119	134	179	197	230	299	385	494	706	1270	5080
1956	43	70	109	139	167	196	212	245	365	733	1620	3690
1957	170	194	275	353	559	849	1120	1395	1820	2505	3540	6430
1958	180	242	272	382	534	677	858	1145	1410	2030	3030	6280
1959	426	531	562	686	799	1065	1560	2335	3500	4560	6290	11800
1960	292	382	419	488	683	990	1335	1680	2320	4140	7650	20900
1961	86	102	122	170	222	285	379	503	612	738	973	2600
1962	53	98	120	158	177	255	308	480	868	1480	2510	11200
1963	118	155	200	270	336	454	623	764	963	1385	2240	4850
1964	154	190	206	243	300	395	587	778	1040	1390	2120	4230
1965	56	85	103	208	238	292	410	657	1040	1370	3170	4480
1966	120	162	180	230	289	416	772	1080	1410	1800	2720	6830
1967	84	108	123	154	186	222	267	356	703	1170	2220	4990
1968	62	103	138	204	235	262	450	691	1170	2140	4280	7000
1969	158	244	284	378	495	713	950	1255	1520	2070	3040	5690
1970	166	193	207	251	422	654	815	1040	1270	1635	2250	5720
1971	99	122	142	185	210	264	328	401	604	1060	1620	6930
1972	116	154	176	206	233	260	305	389	488	769	1300	4170
1973	146	187	201	238	287	356	488	837	1320	1845	2380	4860
1974	57	93	108	136	164	192	215	255	345	1380	3100	11700
1975	48	59	68	125	156	199	249	352	669	1055	1700	4200
1976	54	93	110	151	184	231	301	412	902	1290	1840	3360
1977	52	66	89	131	218	285	319	373	482	697	1000	3990
1978	106	128	149	179	272	373	493	665	976	1485	2490	6920
1979	90	139	217	317	391	471	591	791	1170	1710	3330	6750
1980	109	123	152	197	251	305	371	448	549	688	1020	3250
1981	35	52	63	82	98	112	127	153	181	293	742	2630
1982	14	98	116	162	263	362	514	867	1680	2530	4410	16500
1983	141	225	273	374	520	697	954	1255	1620	2300	3290	5580
1984	54	69	86	107	179	265	352	439	613	992	1470	2950
1985	26	40	51	72	88	103	129	175	304	632	1060	3310
1986	33	59	93	159	191	223	276	378	643	966	1310	2740
1987	78	155	209	273	334	413	530	675	876	1160	1810	4680
1988	82	128	160	233	303	347	471	667	1000	1460	2340	11700
1989	46	62	84	163	207	238	291	365	465	578	761	1590
1990	70	93	107	122	150	199	244	300	386	552	1000	2270
1991	79	104	110	136	170	222	299	408	601	1610	2530	4060
1992	78	113	127	145	181	214	269	370	865	1510	2390	5340
1993	138	159	170	223	303	394	483	640	777	1080	1520	3220
1994	37	78	104	198	272	366	785	1010	1340	1970	3250	8800
1995	102	149	243	442	564	738	920	1170	1720	3135	4630	7710
1996	85	107	147	242	324	420	508	628	739	867	1080	2360
1997	59	84	106	123	151	202	282	555	813	1685	2940	9890
1998	76	103	135	246	369	522	732	1125	2430	3375	4880	18500
1999	33	51	74	119	165	262	343	469	617	871	1390	3290
2000	6	8	11	34	41	48	63	82	134	195	331	1770

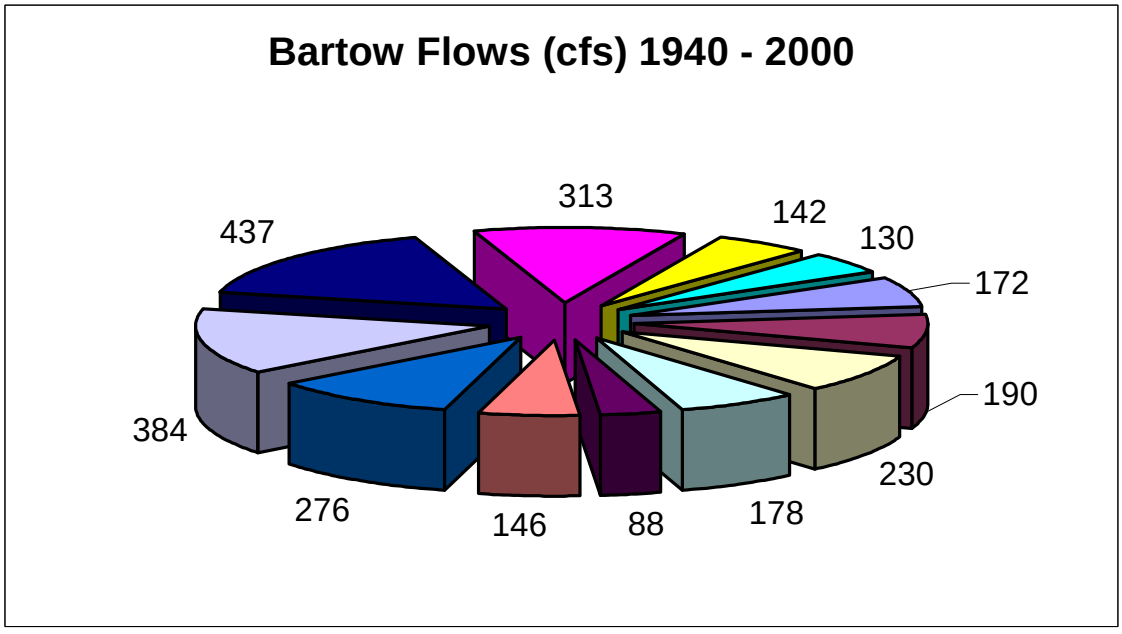
APPENDIX QM

Flows/Monthly - QM

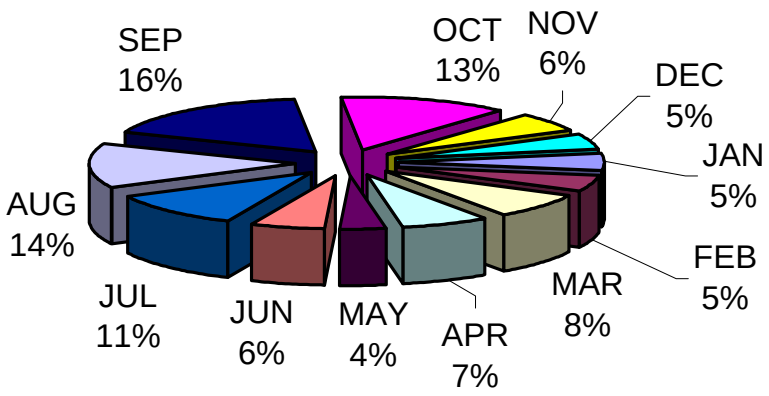
This appendix contains pie diagrams showing the percent distribution of flows by month for selected time periods and the actual mean monthly flows (cfs) by month for the selected time periods.

Chart and Table	Page
Bartow flows 1940-2000	QM-2
Bartow flows 1940-1960	QM-3
Bartow flows 1970-1990	QM-4
Bartow flows 1985-2000	QM-5
Ft. Meade flows 1975-2000	QM-6
Ft. Meade flows 1985-2000	QM-7
Zolfo Springs flows 1934-2000	QM-8
Zolfo Springs flows 1940-1960	QM-9
Zolfo Springs flows 1970-1990	QM-10
Zolfo Springs flows 1985-2000	QM-11
Arcadia flows 1931-2000	QM-12
Arcadia flows 1940-1960	QM-13
Arcadia flows 1970-1990	QM-14
Arcadia flows 1985-2000	QM-15

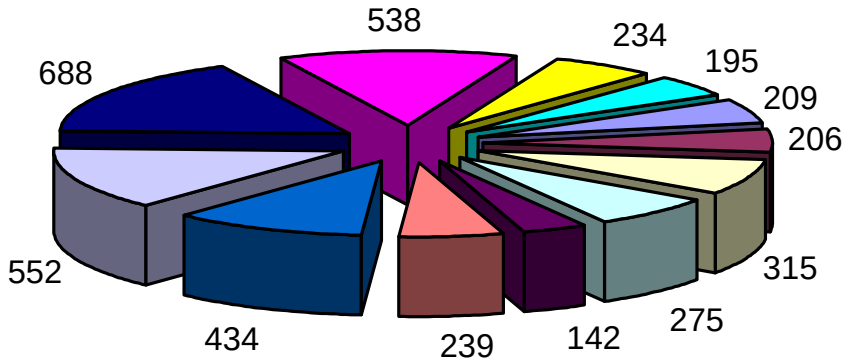

Bartow Flows 1940 - 2000
OCT
12%
NOV
5%
DEC
5%
SEP
17%
JAN
6%
FEB
7%
AUG
14%
MAR
9%
JUL
10%
JUN
5%
MAY
3%
APR
7%


Bartow Flows (cfs) 1940 - 2000
313
142
130
437
172
190
384
230
276
146
88
178

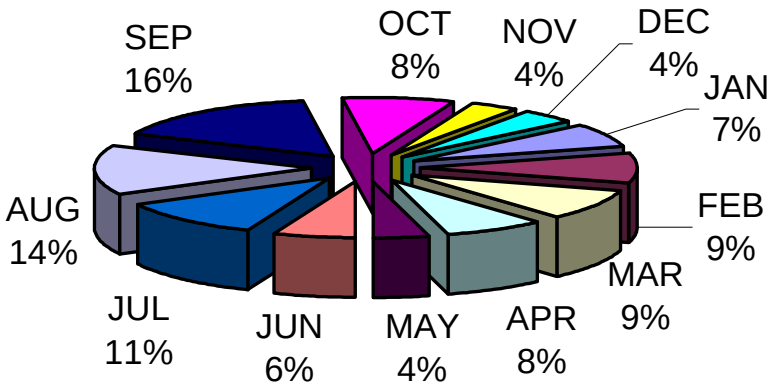
Bartow Flows 1940-1960



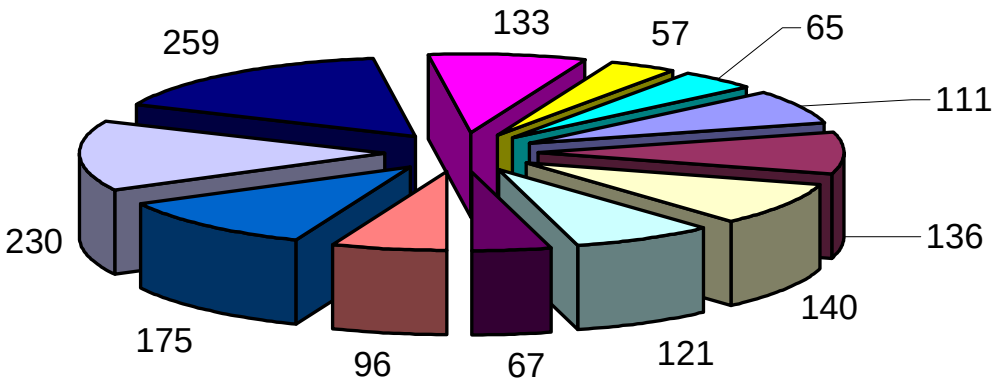
Bartow Flows (cfs) 1940-1960



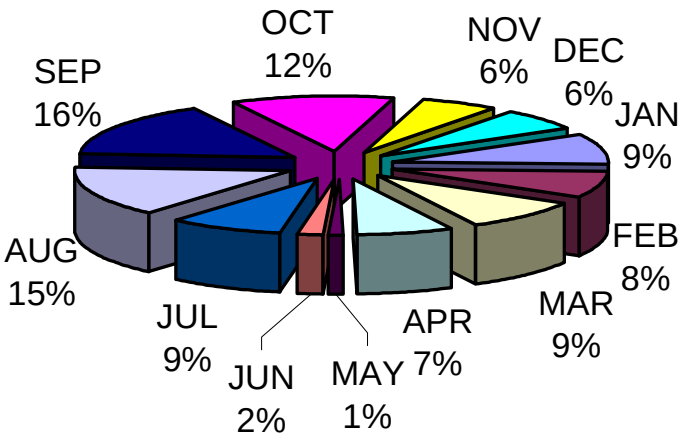
Bartow Flows 1970-1990



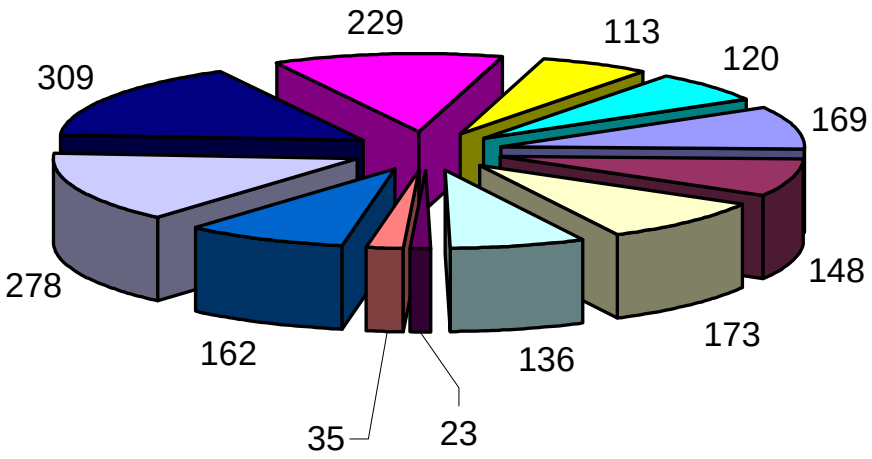
Bartow Flows (cfs) 1970-1990



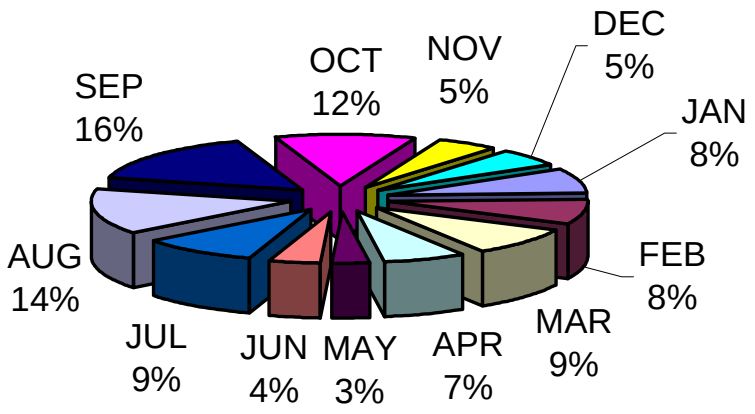
Bartow Flows 1985-2000



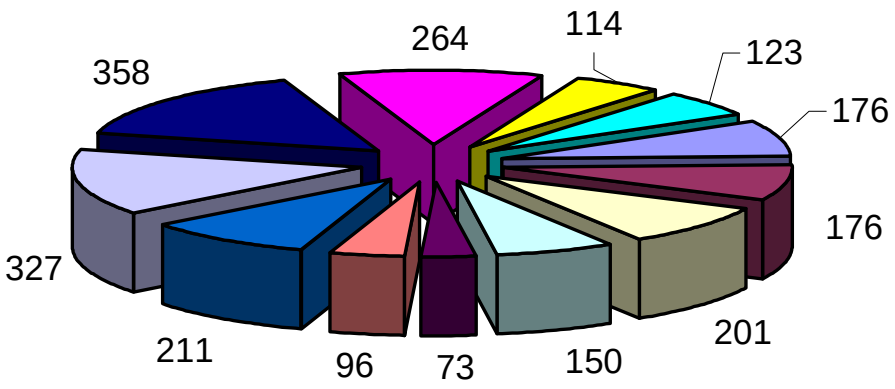
Bartow Flows (cfs) 1985-2000



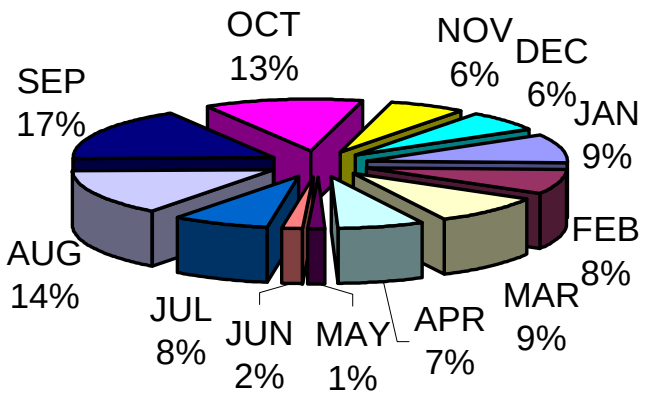
Ft Meade Flows 1975-2000



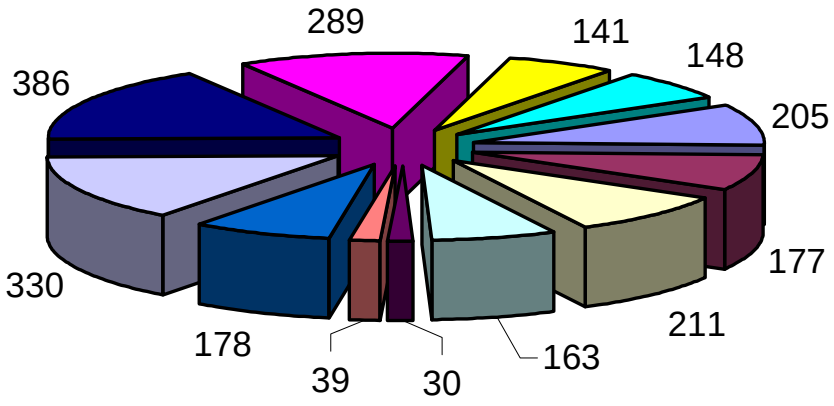
Ft Meade Flows 1975-2000



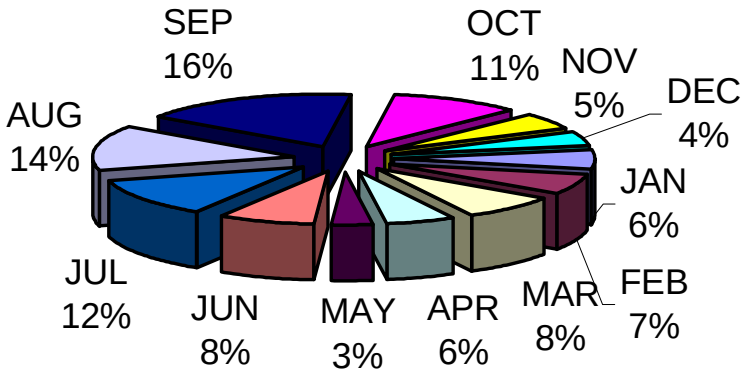
Ft Meade Flows 1985-2000



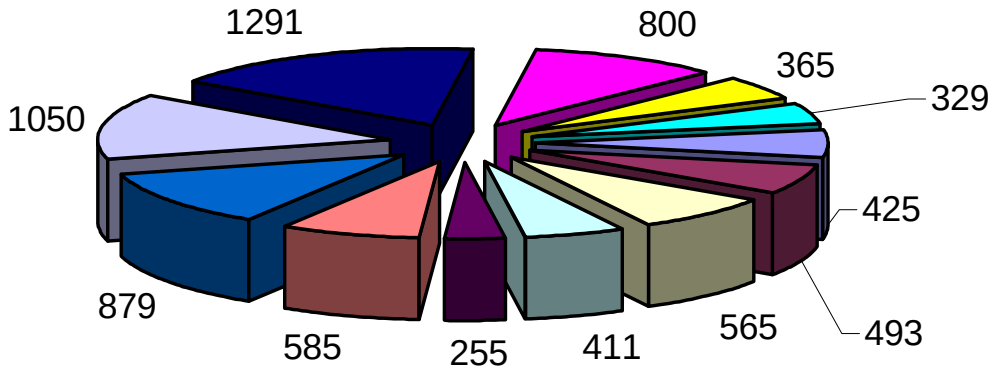
Ft Meade Flows (cfs) 1985-2000



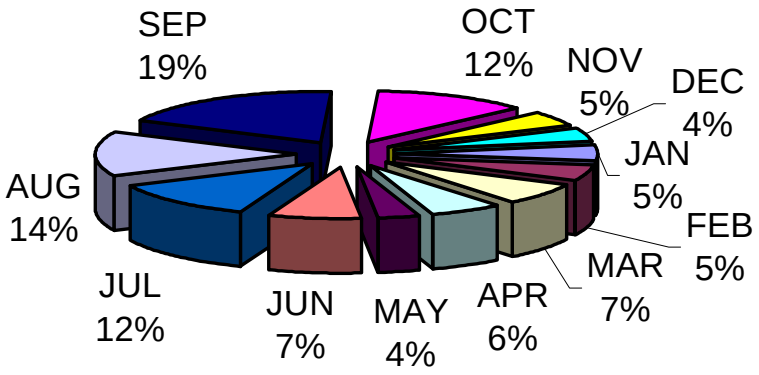
Zolfo Springs Flows 1934 - 2000



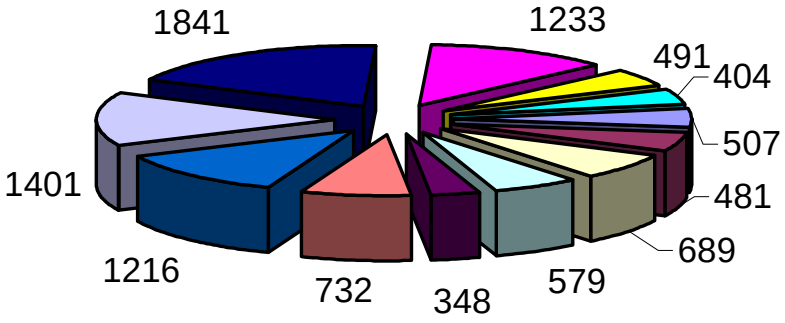
Zolfo Springs Flows (cfs) 1934 - 2000



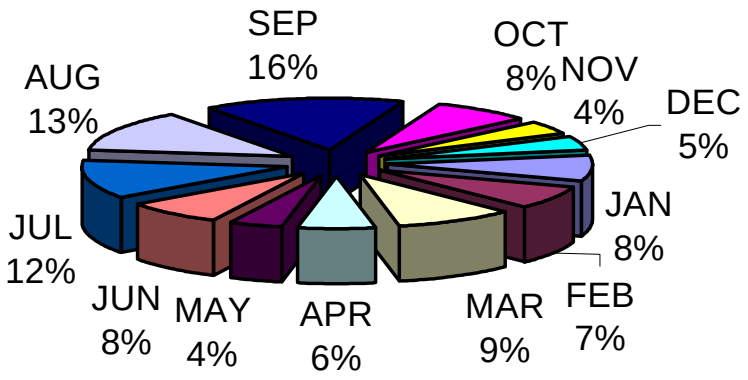
Zolfo Springs Flows 1940-1960



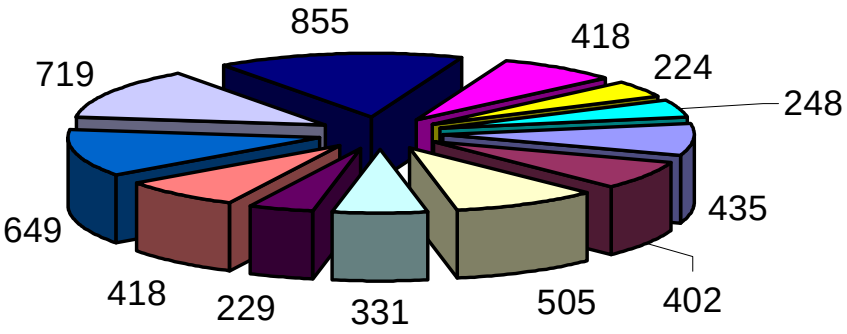
Zolfo Springs Flows (cfs) 1940-1960



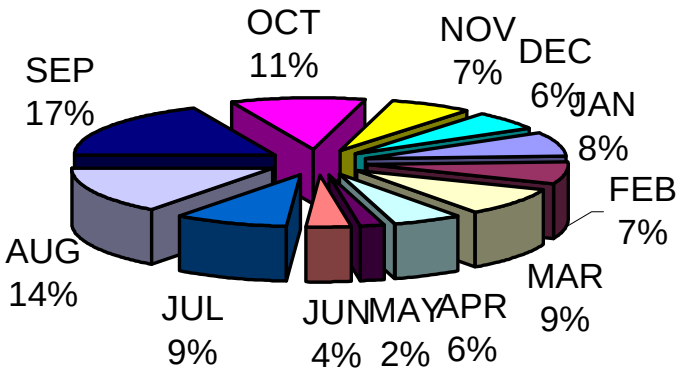
Zolfo Springs Flows 1970-1990



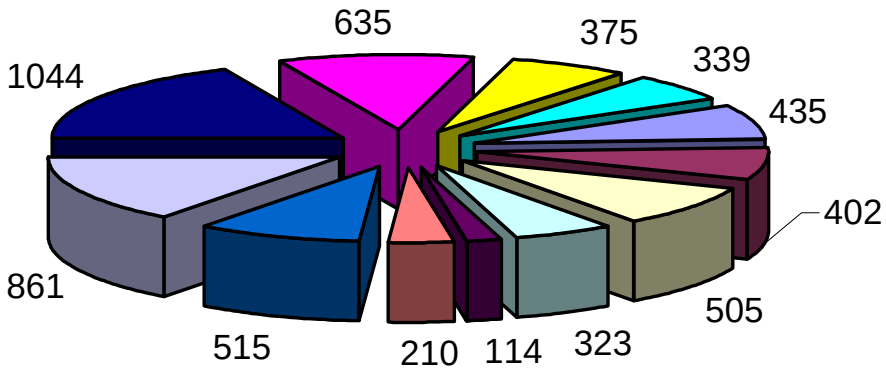
Zolfo Springs Flows (cfs) 1970-1990



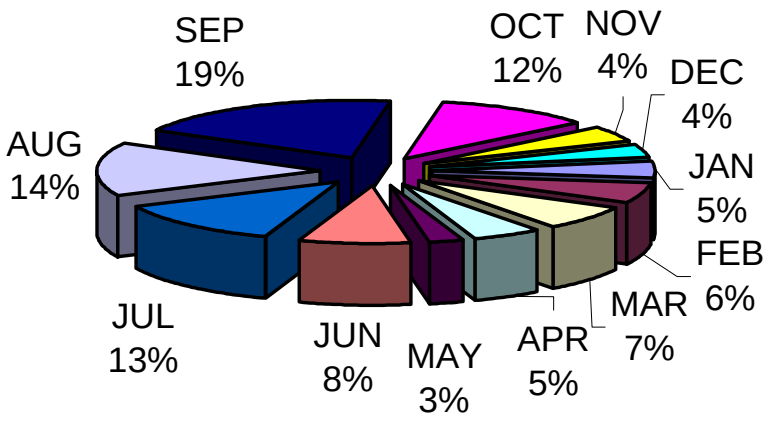
Zolfo Springs Flows 1985-2000



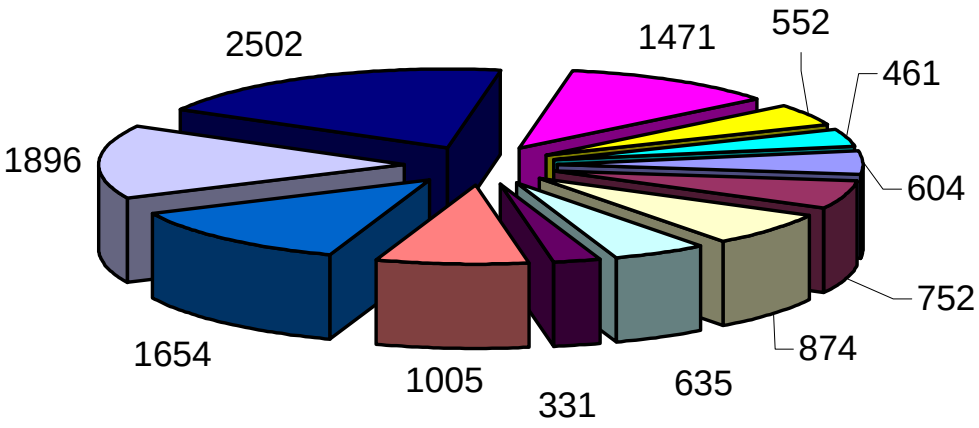
Zolfo Springs Flows 1985-2000



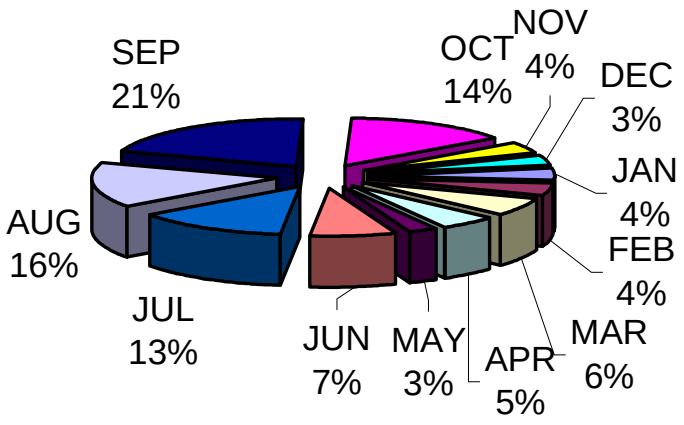
Arcadia Flows 1931-2000



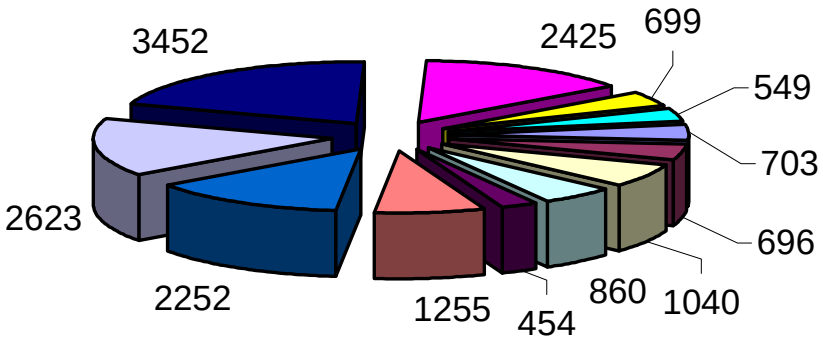
Arcadia Flows (cfs) 1931-2000



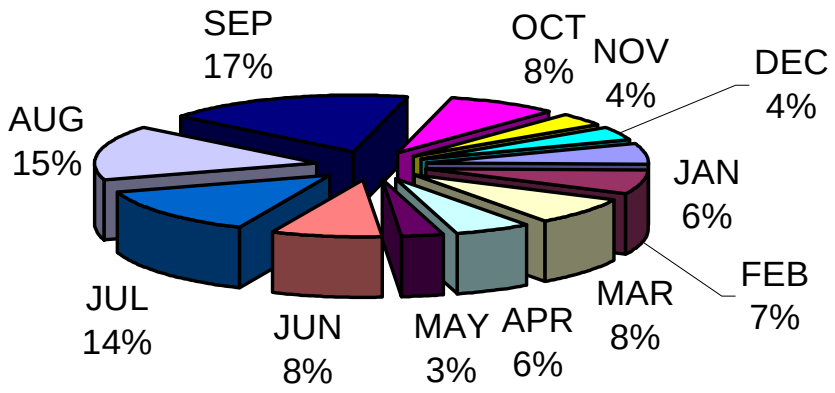
Arcadia Flows 1940-1960



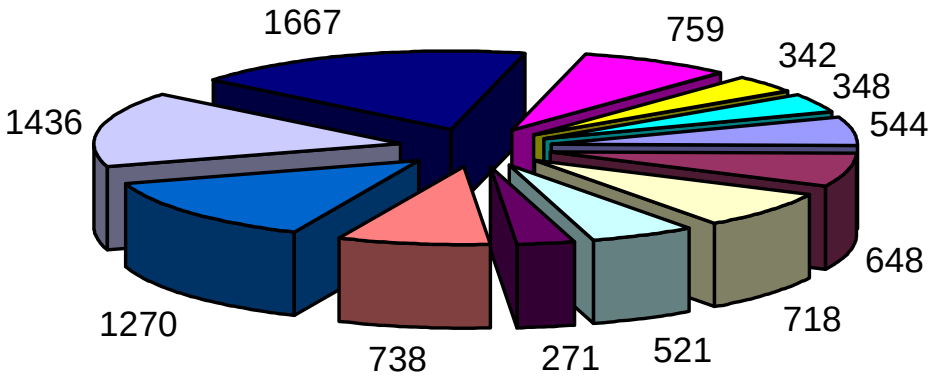
Arcadia Flows 1940-1960



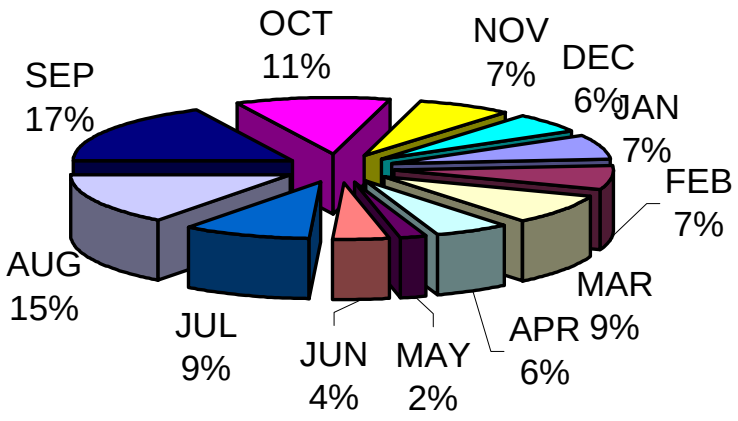
Arcadia Flows 1970-1990



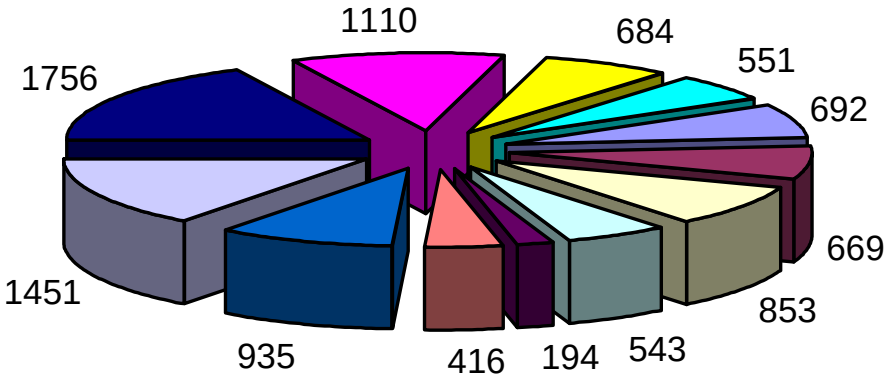
Arcadia Flows 1970-1990



Arcadia Flows 1985-2000



Arcadia Flows 1985-2000

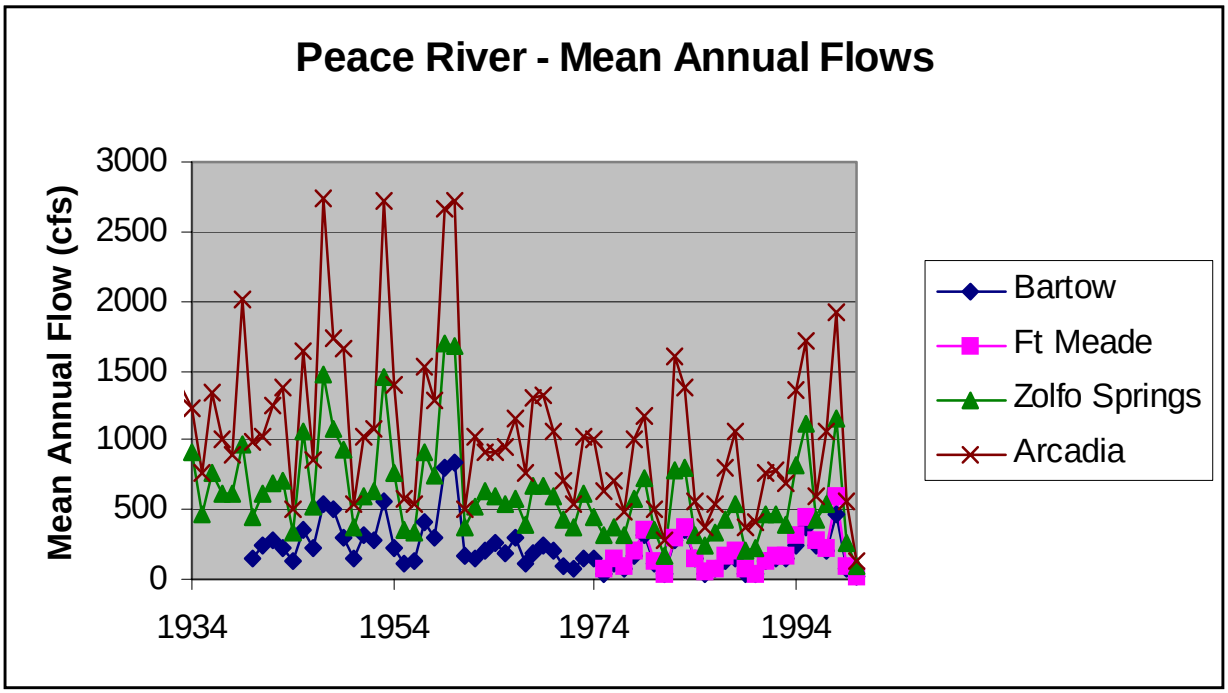


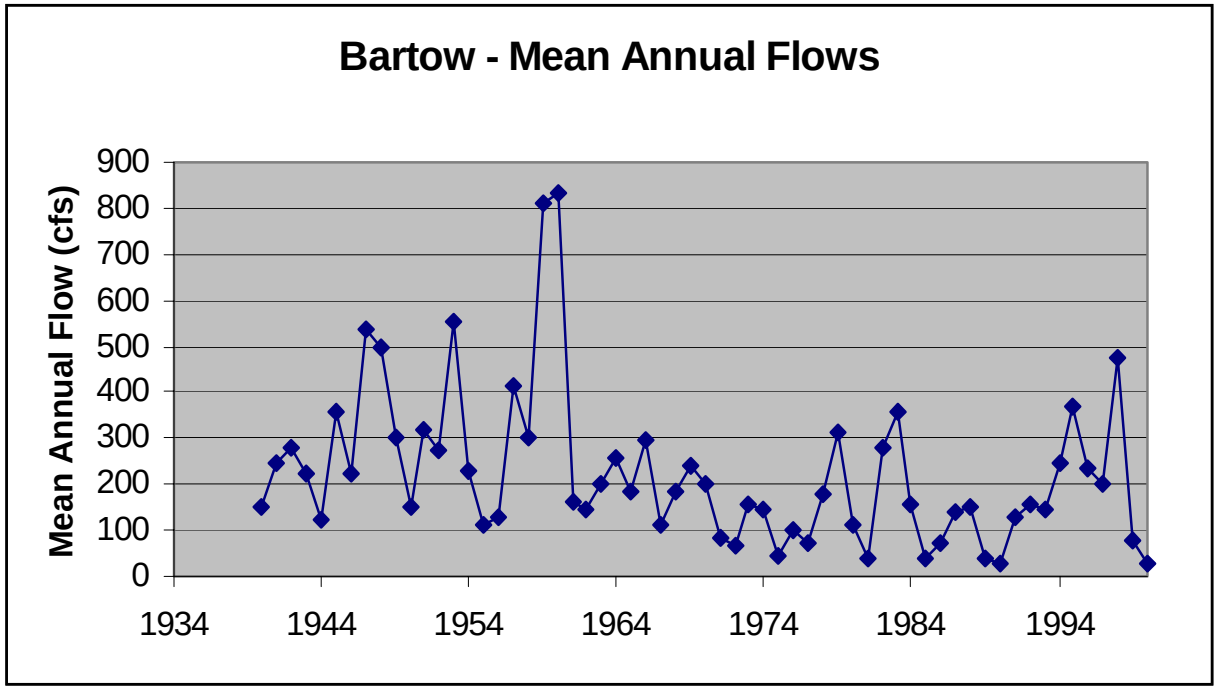
APPENDIX QX

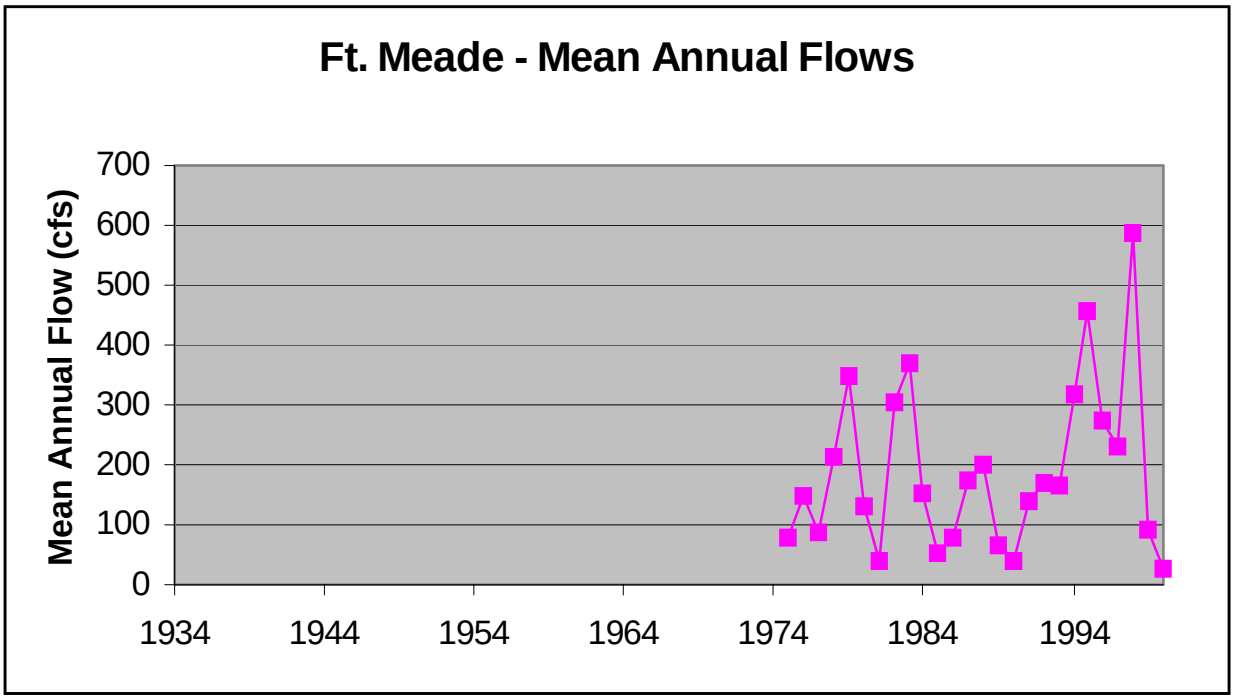
Mean Annual Flows - QX

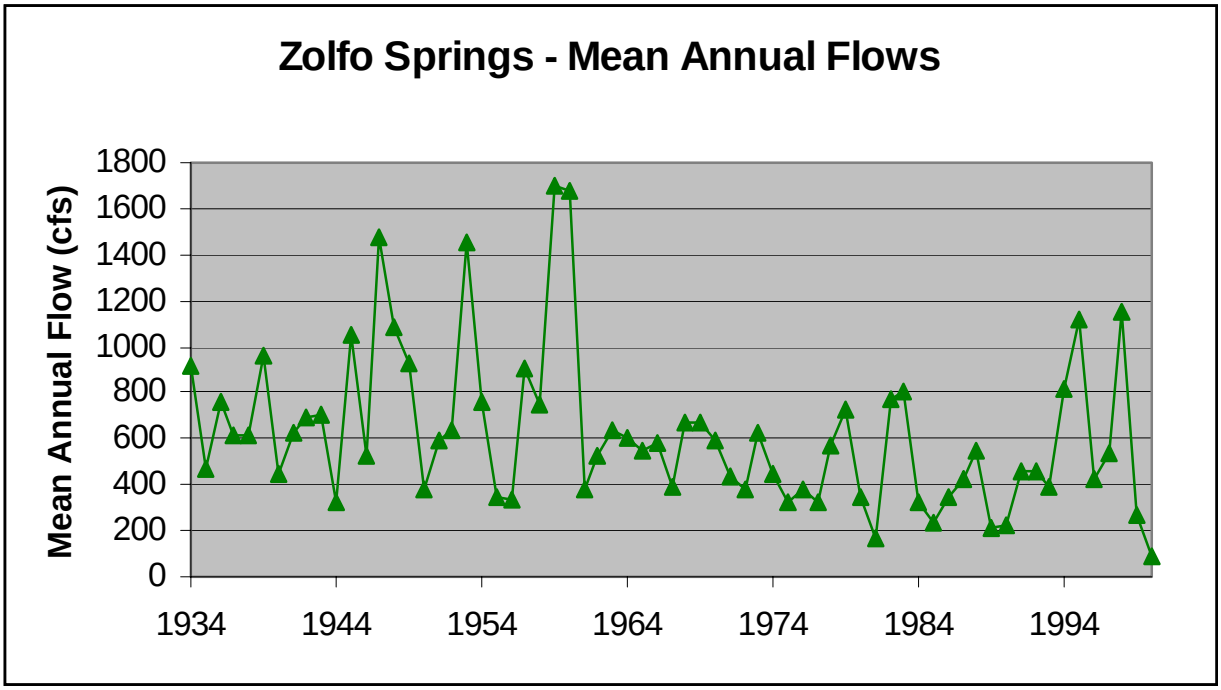
This appendix contains various plots of the mean annual flow for stations on the Peace River and elsewhere for comparative purposes.

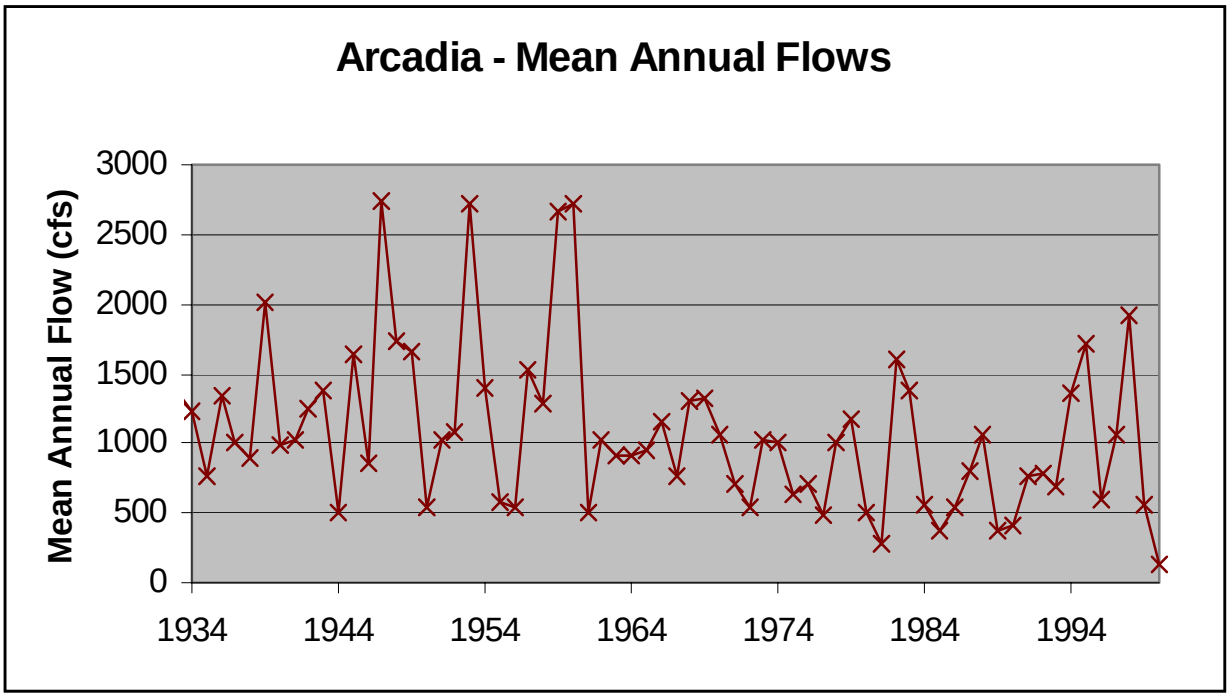
Chart/Table	Page
Peace River mean annual flows	QX-2
Mean annual flow at Bartow gage site	QX-2
Mean annual flow at Ft. Meade gage site	QX-3
Mean annual flow at Zolfo Springs gage site	QX-3
Mean annual flow at Arcadia gage site	QX-4
Peace River 5-year running average of mean flow at 4 gage sites	QX-4
Comparison of flows for three rivers - mean annual values	QX-5
Comparison of flows for three rivers - 5-year moving average	QX-5

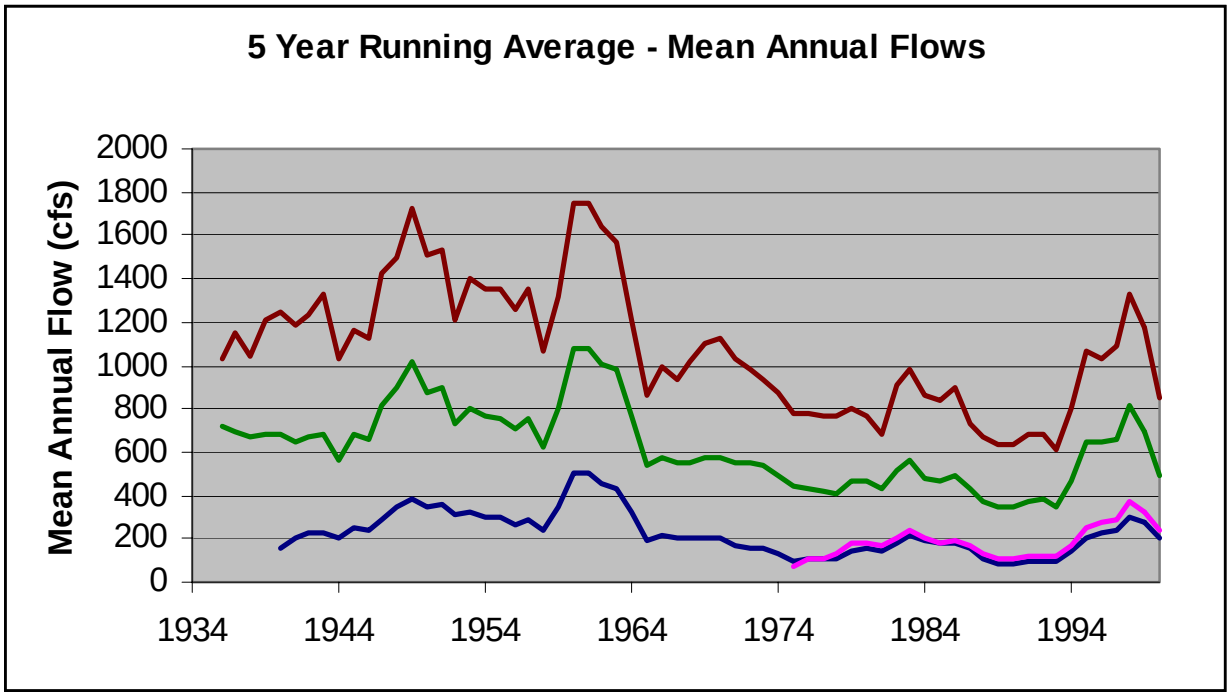

Peace River - Mean Annual Flows
Mean Annual Flow (cfs)
3000
2500
2000
1500
1000
500
0
1934
1954
1974
1994
Bartow
Ft Meade
Zolfo Springs
Arcadia

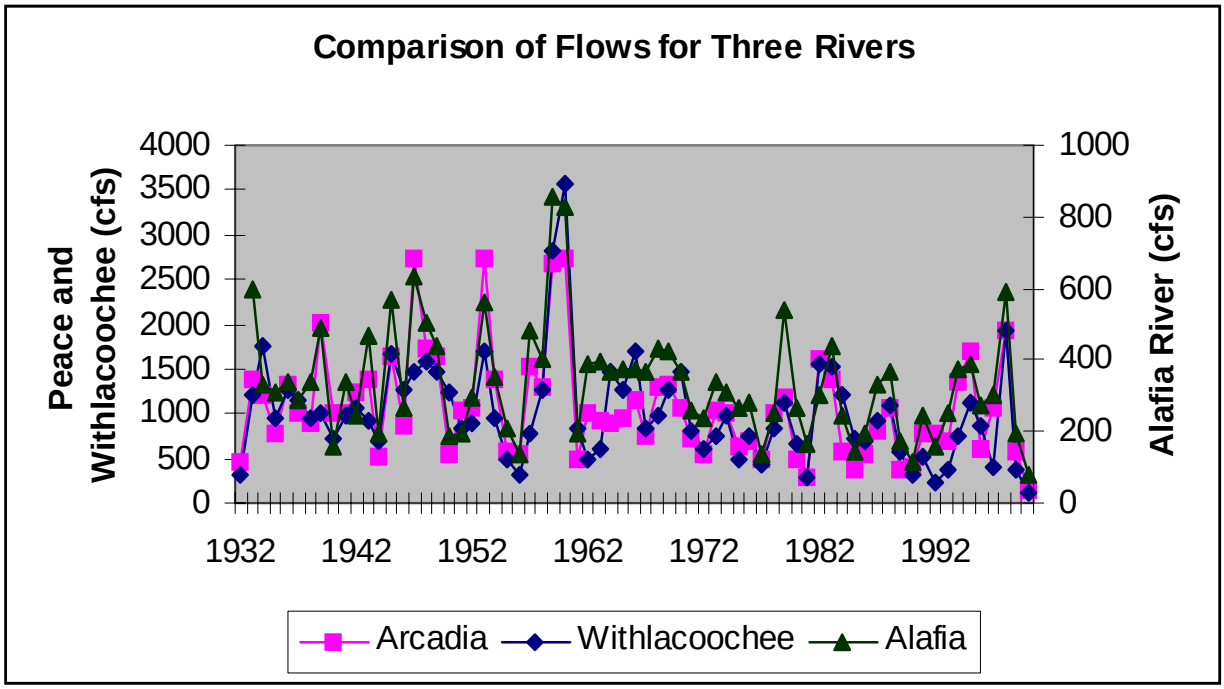

Bartow - Mean Annual Flows
Mean Annual Flow (cfs)
900
800
700
600
500
400
300
200
100
0
1934
1944
1954
1964
1974
1984
1994

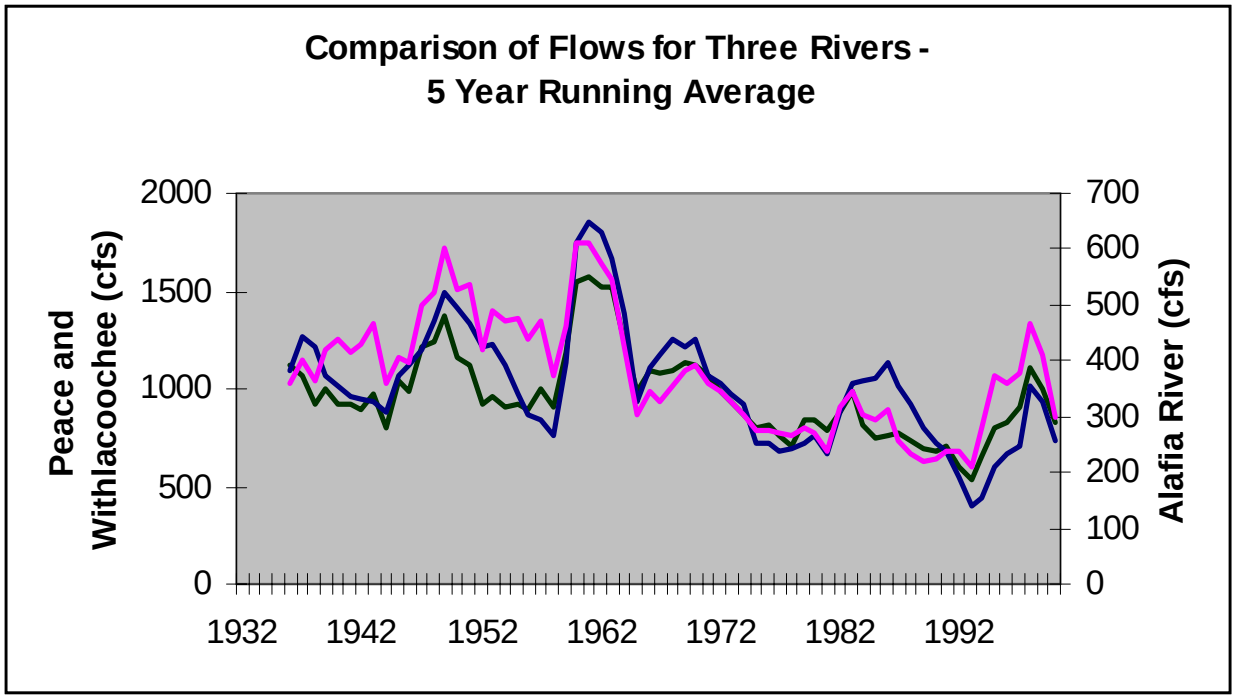

Ft. Meade - Mean Annual Flows
Mean Annual Flow (cfs)
700
600
500
400
300
200
100
0
1934
1944
1954
1964
1974
1984
1994


Zolfo Springs - Mean Annual Flows
Mean Annual Flow (cfs)
1800
1600
1400
1200
1000
800
600
400
200
0
1934
1944
1954
1964
1974
1984
1994


Arcadia - Mean Annual Flows
Mean Annual Flow (cfs)
3000
2500
2000
1500
1000
500
0
1934
1944
1954
1964
1974
1984
1994


5 Year Running Average - Mean Annual Flows
Mean Annual Flow (cfs)
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1934
1944
1954
1964
1974
1984
1994


Comparison of Flows for Three Rivers
Peace and Withlacoochee (cfs)
Alafia River (cfs)
4000
3500
3000
2500
2000
1500
1000
500
0
1000
800
600
400
200
0
1932
1942
1952
1962
1972
1982
1992
Arcadia
Withlacoochee
Alafia


Comparison of Flows for Three Rivers -
5 Year Running Average
Peace and Withlacoochee (cfs)
Alafia River (cfs)
2000
1500
1000
500
0
700
600
500
400
300
200
100
0
1932
1942
1952
1962
1972
1982
1992

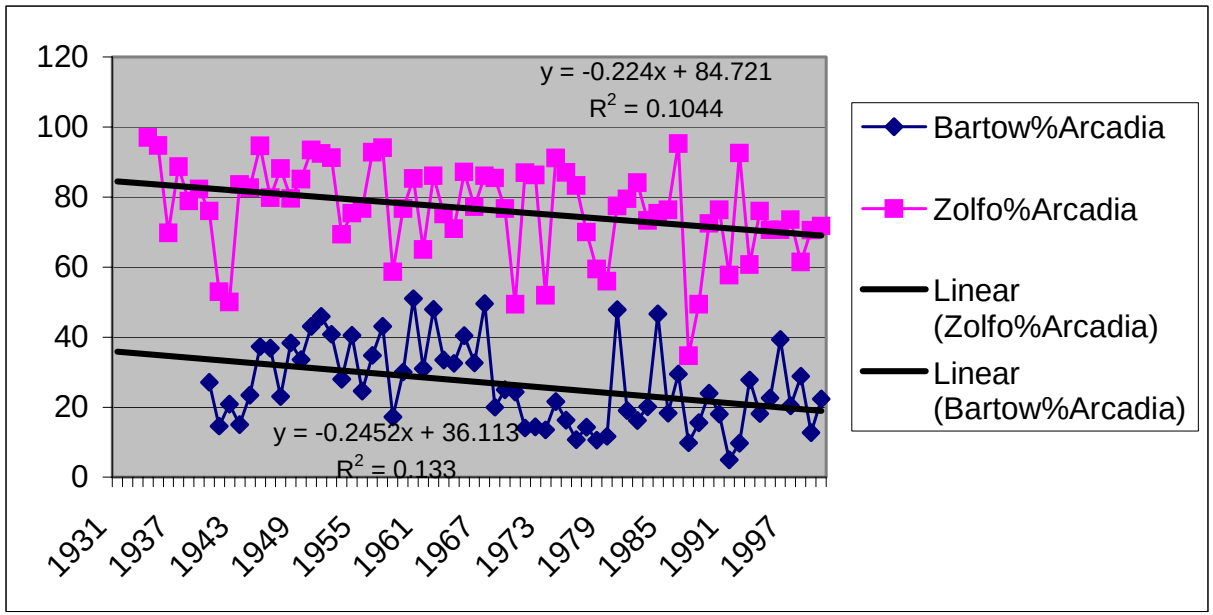
APPENDIX QPC

Flows - Percent Contribution

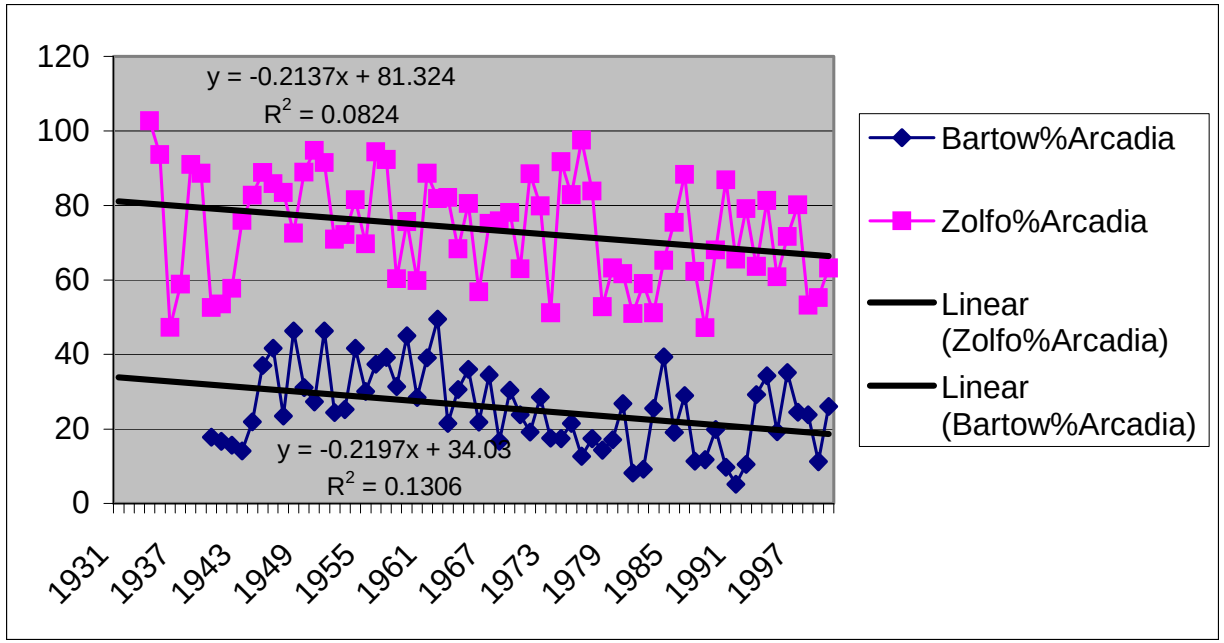
This appendix contains twelve pages. Each page is composed of a table and a plot. The plot shows Bartow and Zolfo Springs monthly flow for each year as a percentage of the monthly flow at Arcadia. The table above the plot gives the mean of the monthly flows for each gage for selected periods and the percentage of the Bartow, Ft. Meade and Zolfo Springs mean period monthly flow as a percentage of the Arcadia period monthly flow. The main text of this document (Chapter Three) discusses the highest flow month, September, and the lowest flow month, May.

Chart/Table	Page
January comparison	QPC-2
February comparison	QPC-3
March comparison	QPC-4
April comparison	QPC-5
May comparison	QPC-6
June comparison	QPC-7
July comparison	QPC-8
August comparison	QPC-9
September comparison	QPC-10
October comparison	QPC-11
November comparison	QPC-12
December comparison	QPC-13

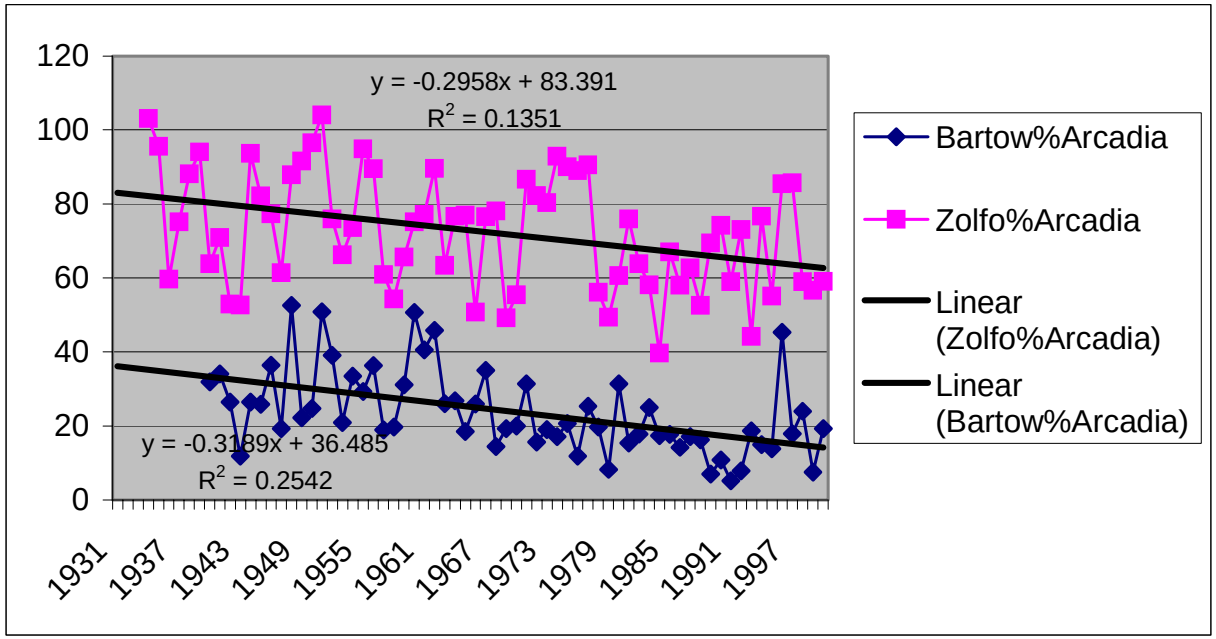
Flow Period	Mean Annual January Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	604	172	176	425			
From 1940-2000	640	172		435	27		68
From 1940-1950	607	176		435	29		72
From 1940-1960	703	209		507	30		72
From 1961-2000	606	152		398	25		66
From 1970-1990	544	111		334	20		61
From 1974-2000	596	146	176	388	24	30	65
From 1985-2000	692	170	205	435	25	30	63



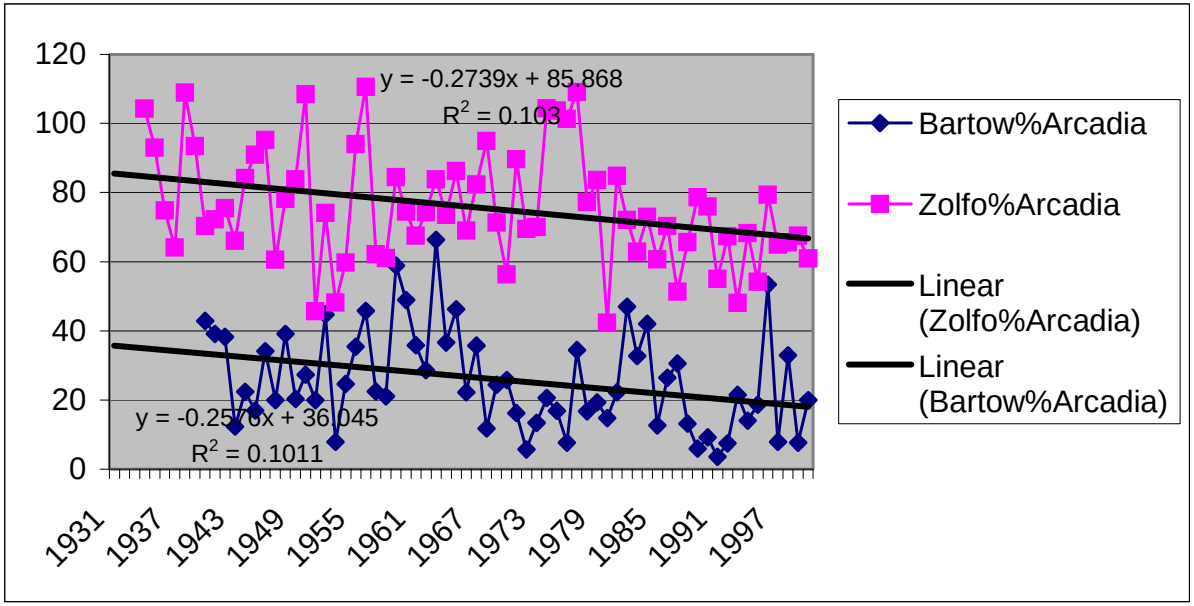
Flow Period	Mean Annual February Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	752	190	176	493			
From 1940-2000	742	190		484	26		65
From 1940-1950	628	165		420	26		67
From 1940-1960	697	206		481	30		69
From 1961-2000	765	181		486	24		64
From 1970-1990	648	136		401	21		62
From 1974-2000	683	151	176	406	22	26	60
From 1985-2000	670	149	177	402	22	26	60



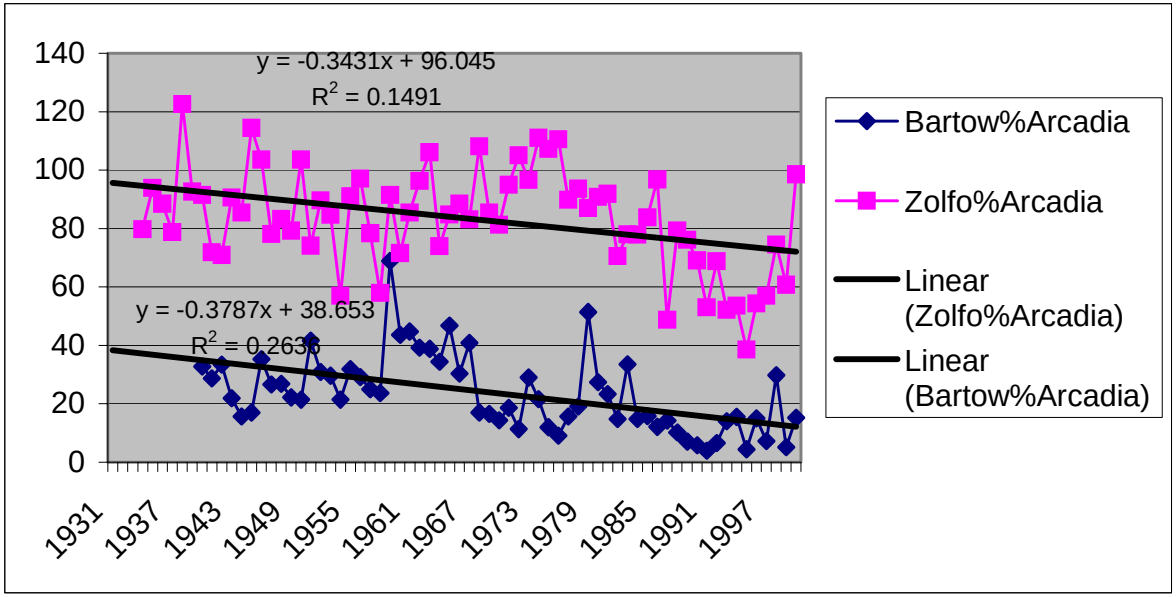
Flow Period	Mean Annual March Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	874	230	201	565			
From 1940-2000	919	230		575	25		63
From 1940-1950	728	204		476	28		65
From 1940-1960	1040	315		689	30		66
From 1961-2000	855	185		516	22		60
From 1970-1990	718	140		431	19		60
From 1974-2000	802	166	201	471	21	25	59
From 1985-2000	854	173	211	505	20	25	59



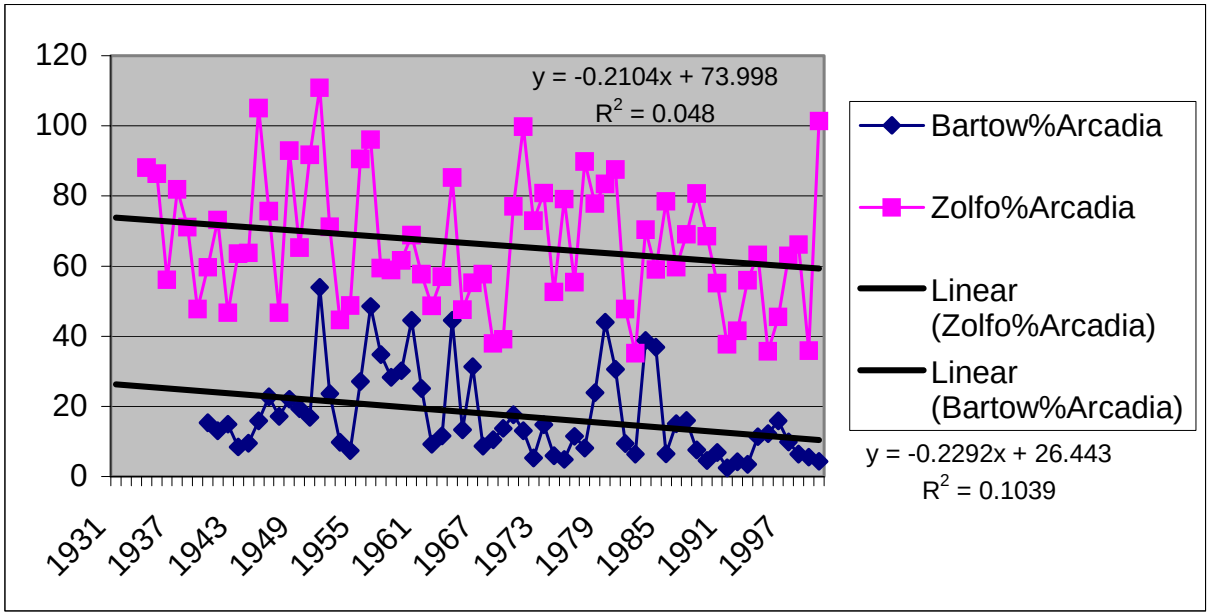
Flow Period	Mean Annual April Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	635	178	150	411			
From 1940-2000	624	178		410	29		66
From 1940-1950	563	181		404	32		72
From 1940-1960	860	275		579	32		67
From 1961-2000	501	127		321	25		64
From 1970-1990	522	121		330	23		63
From 1974-2000	493	128	150	301	26	30	61
From 1985-2000	544	136	163	323	25	30	59



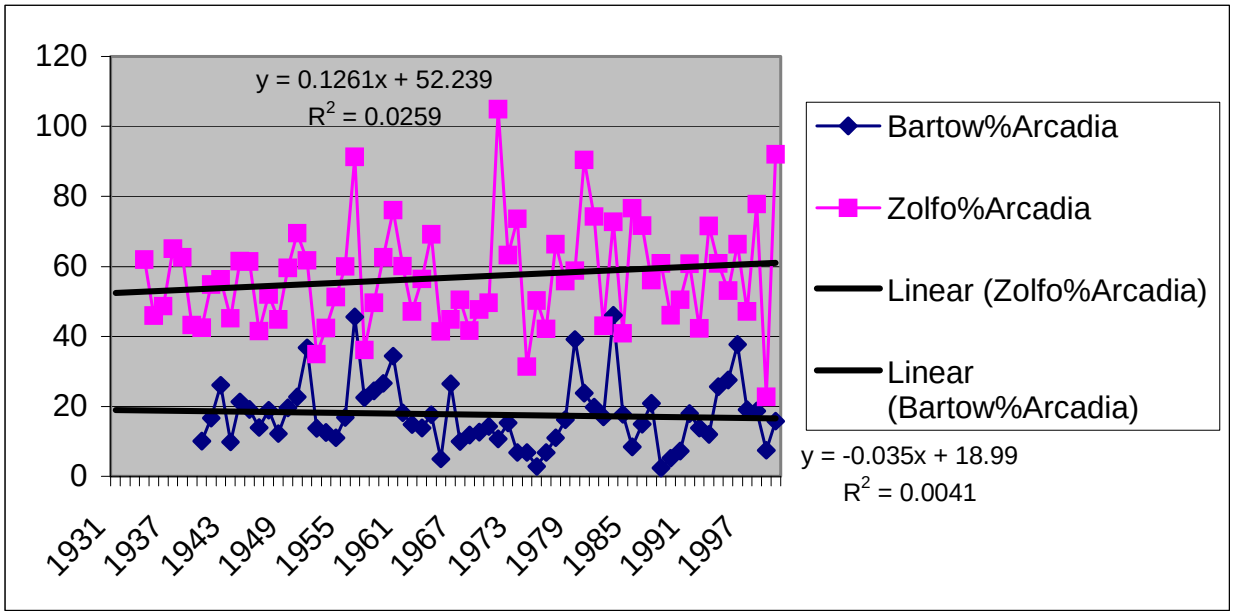
Flow Period	Mean Annual May Flows (in cfs) for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	331	88	73	255			
From 1940-2000	319	88		249	27.5		78.1
From 1940-1950	208	58		173	27.6		83.1
From 1940-1960	454	142		348	31.2		76.8
From 1961-2000	249	60		197	24.0		79.3
From 1970-1990	271	67		229	24.8		84.5
From 1974-2000	252	55	73	188	21.8	29.1	74.7
From 1985-2000	195	23	30	114	11.7	15.4	58.7



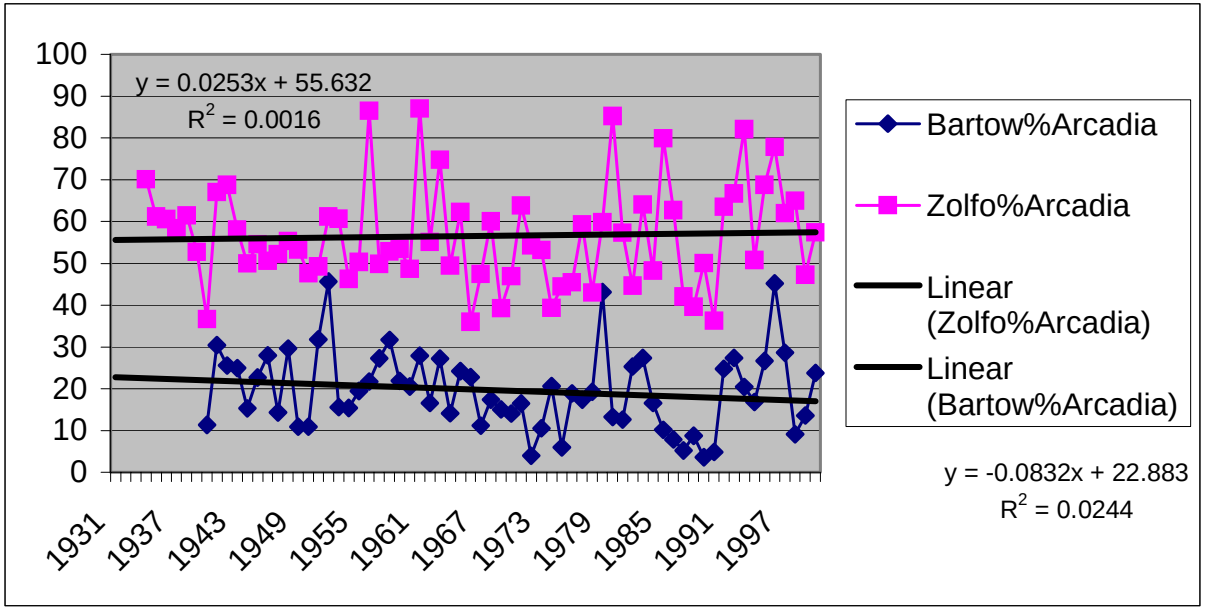
Flow Period	Mean Annual June Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	1005	146	97	585			
From 1940-2000	943	146		517	16		55
From 1940-1950	1136	178		680	16		60
From 1940-1960	1255	239		732	19		58
From 1961-2000	780	98		405	13		52
From 1970-1990	739	96		419	13		57
From 1974-2000	681	80	97	347	12	14	51
From 1985-2000	416	35	39	210	8	9	50



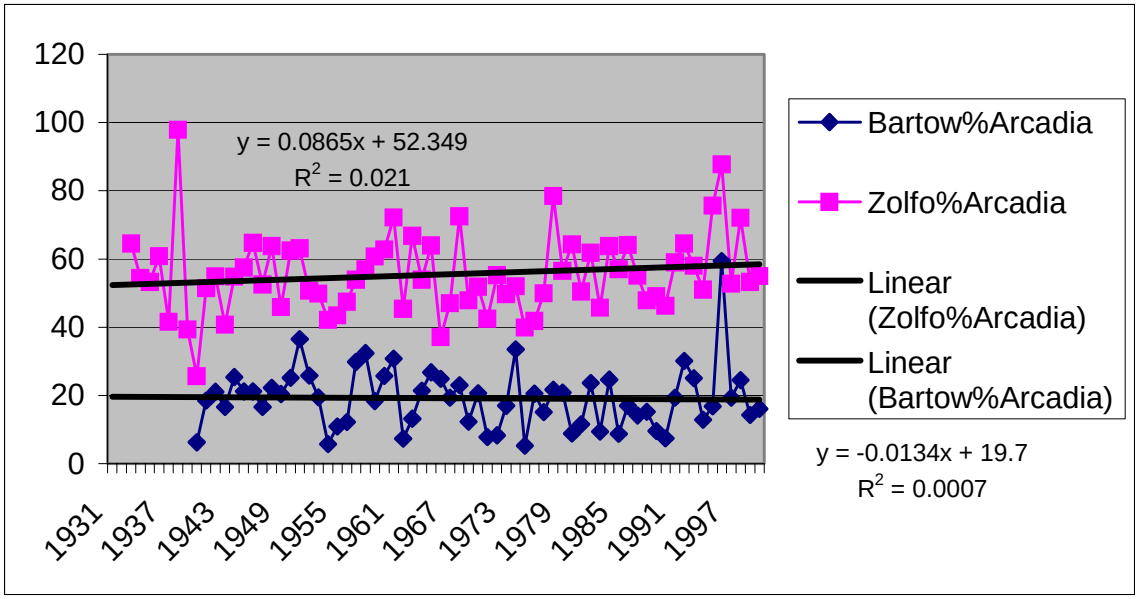
Flow Period	Mean Annual July Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	1654	276	216	879			
From 1940-2000	1639	276		853	17		52
From 1940-1950	2617	439		1380	17		53
From 1940-1960	2252	434		1216	19		54
From 1961-2000	1317	193		662	15		50
From 1970-1990	1270	175		649	14		51
From 1974-2000	1243	198	216	624	16	17	50
From 1985-2000	936	162	178	515	17	19	55



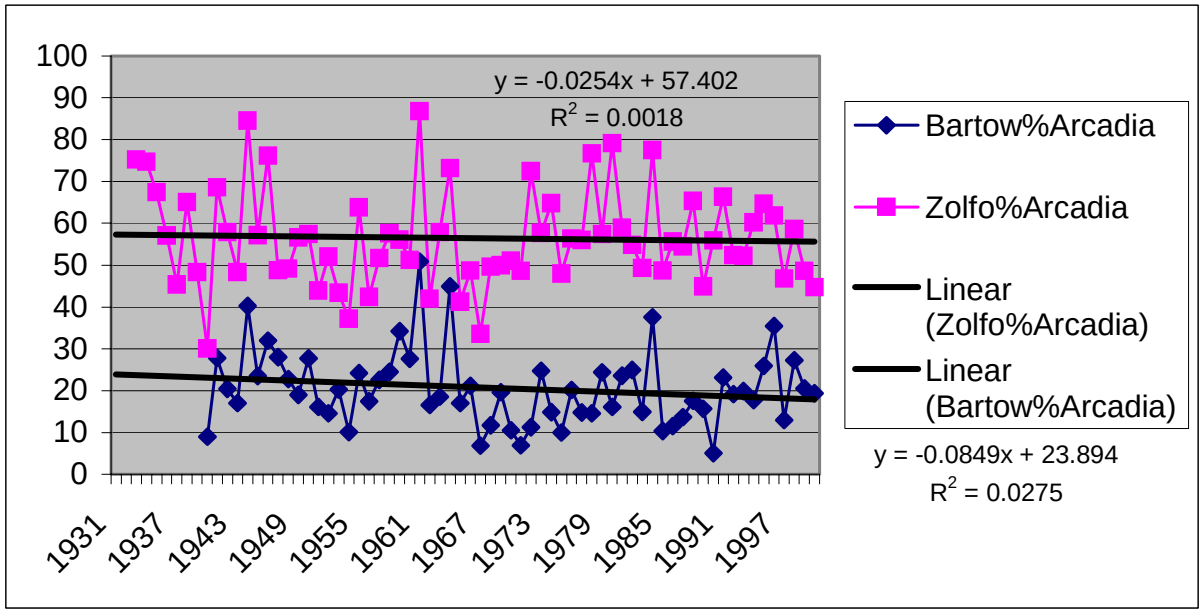
Flow Period	Mean Annual August Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	1896	384	330	1050			
From 1940-2000	1927	384		1036	20		54
From 1940-1950	2768	546		1485	20		54
From 1940-1960	2623	552		1401	21		53
From 1961-2000	1562	297		844	19		54
From 1970-1990	1436	230		719	16		50
From 1974-2000	1501	300	330	822	20	22	55
From 1985-2000	1451	278	330	861	19	23	59



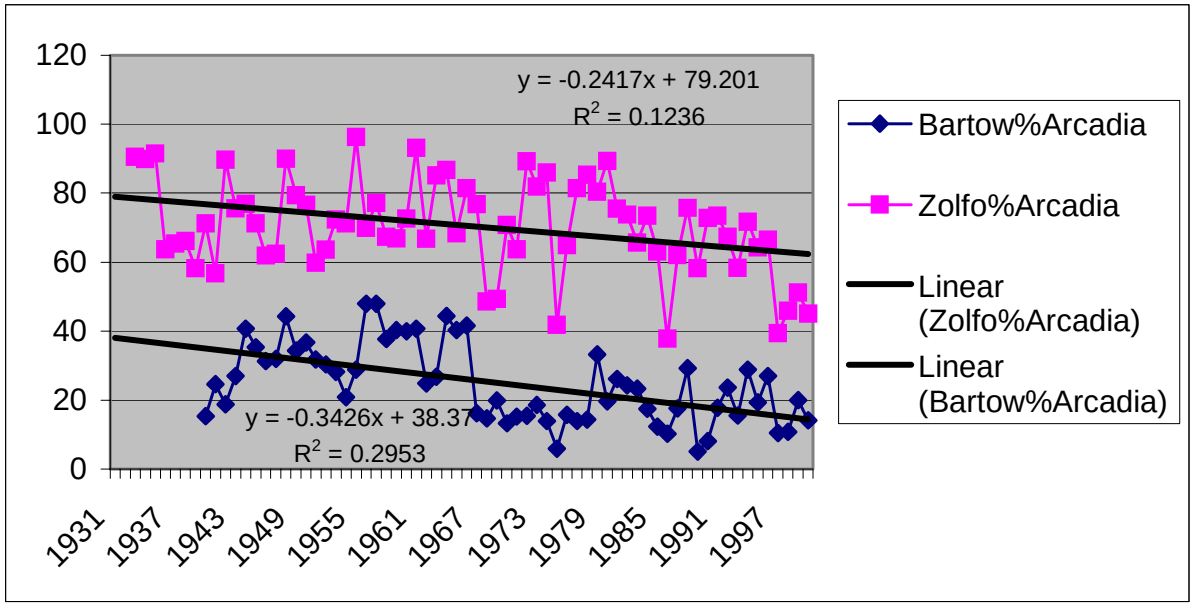
Flow Period	Mean Annual September Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	2502	437	356	1366			
From 1940-2000	2374	437		1285	18		54
From 1940-1950	3317	620		1714	19		52
From 1940-1960	3453	688		1841	20		53
From 1961-2000	1808	306		993	17		55
From 1970-1990	1667	259		855	16		51
From 1974-2000	1711	301	356	972	18	21	57
From 1985-2000	1757	309	386	1044	18	22	59



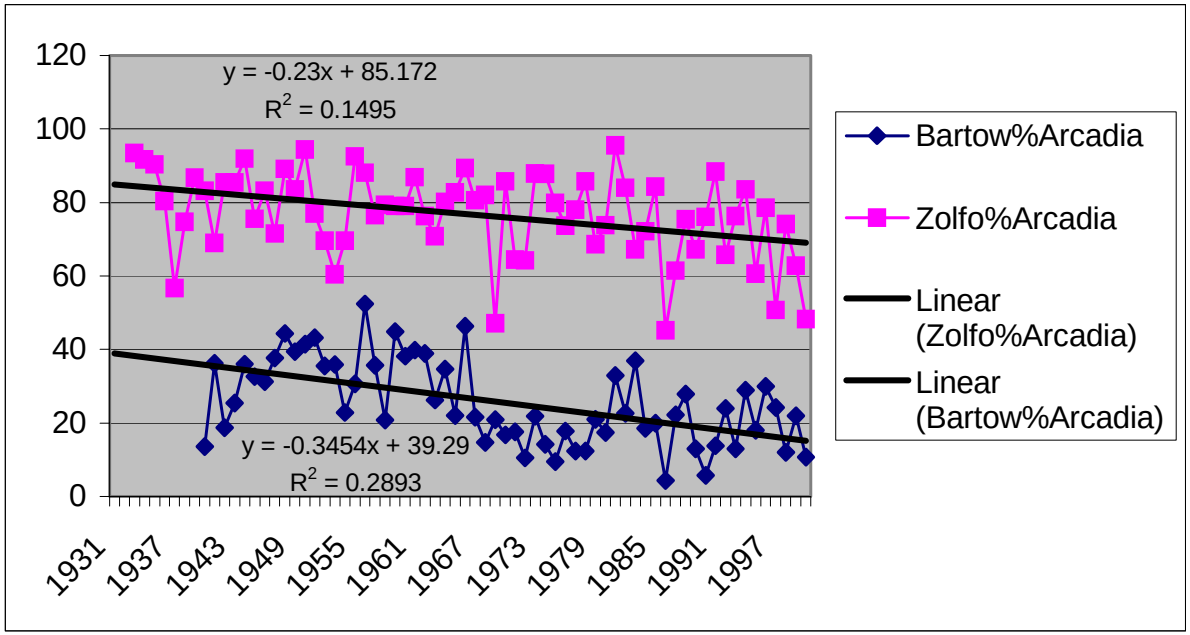
Flow Period	Mean Annual October Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	1471	313	257	801			
From 1940-2000	1491	313		781	21		52
From 1940-1950	2048	477		1104	23		54
From 1940-1960	2425	538		1233	22		51
From 1961-2000	1000	195		544	20		54
From 1970-1990	759	133		418	18		55
From 1974-2000	1027	211	257	583	21	25	57
From 1985-2000	1111	229	289	635	21	26	57



Flow Period	Mean Annual November Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	552	142	113	366			
From 1940-2000	573	142		368	25		64
From 1940-1950	533	177		381	33		71
From 1940-1960	699	234		491	34		70
From 1961-2000	507	94		304	19		60
From 1970-1990	342	57		224	17		66
From 1974-2000	530	88	113	306	17	21	58
From 1985-2000	684	113	141	375	16	21	55



Flow Period	Mean Annual December Flows for Arcadia	Bartow	Ft Meade	Zolfo Springs	Percentage contribution to Arcadia Flow Bartow	Fort Meade	Zolfo Springs
Period of Record	461	131	123	328			
From 1940-2000	480	131		333	27		69
From 1940-1950	399	141		319	35		80
From 1940-1960	549	195		404	36		74
From 1961-2000	445	98		295	22		66
From 1970-1990	348	65		248	19		71
From 1974-2000	466	101	123	306	22	26	66
From 1985-2000	551	120	148	339	22	27	61

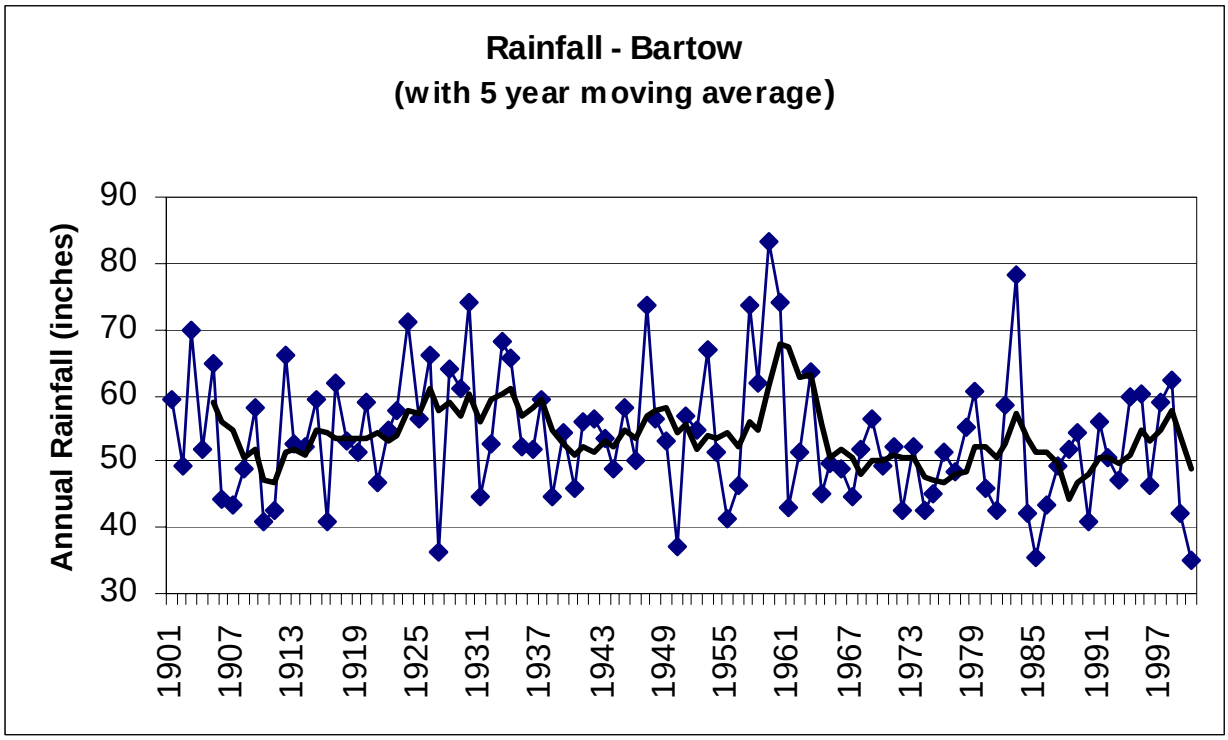


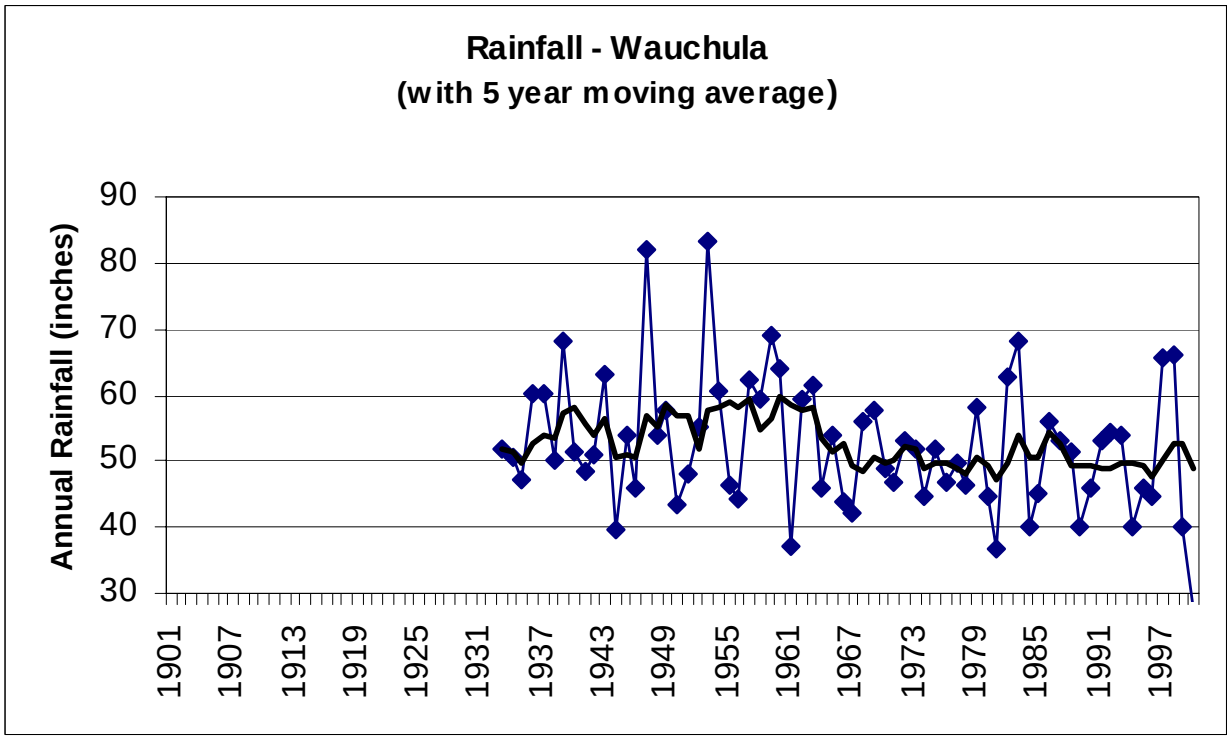
APPENDIX RF

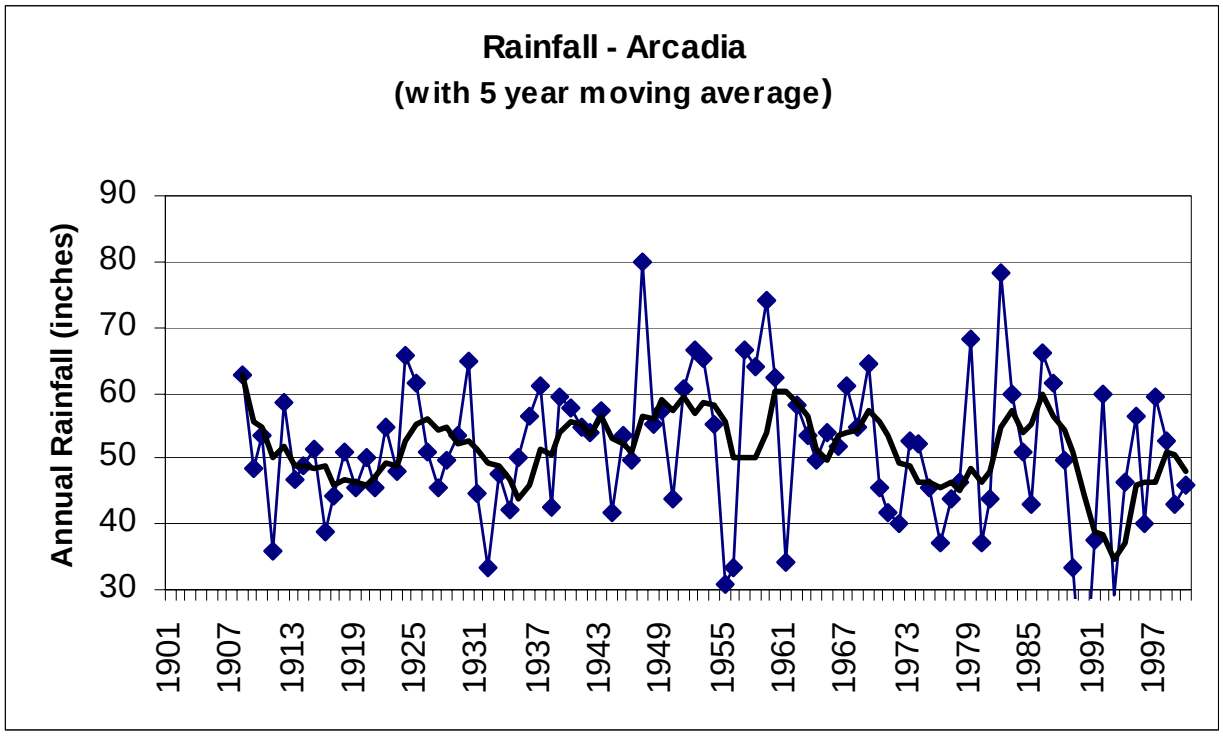
Rainfall - RF

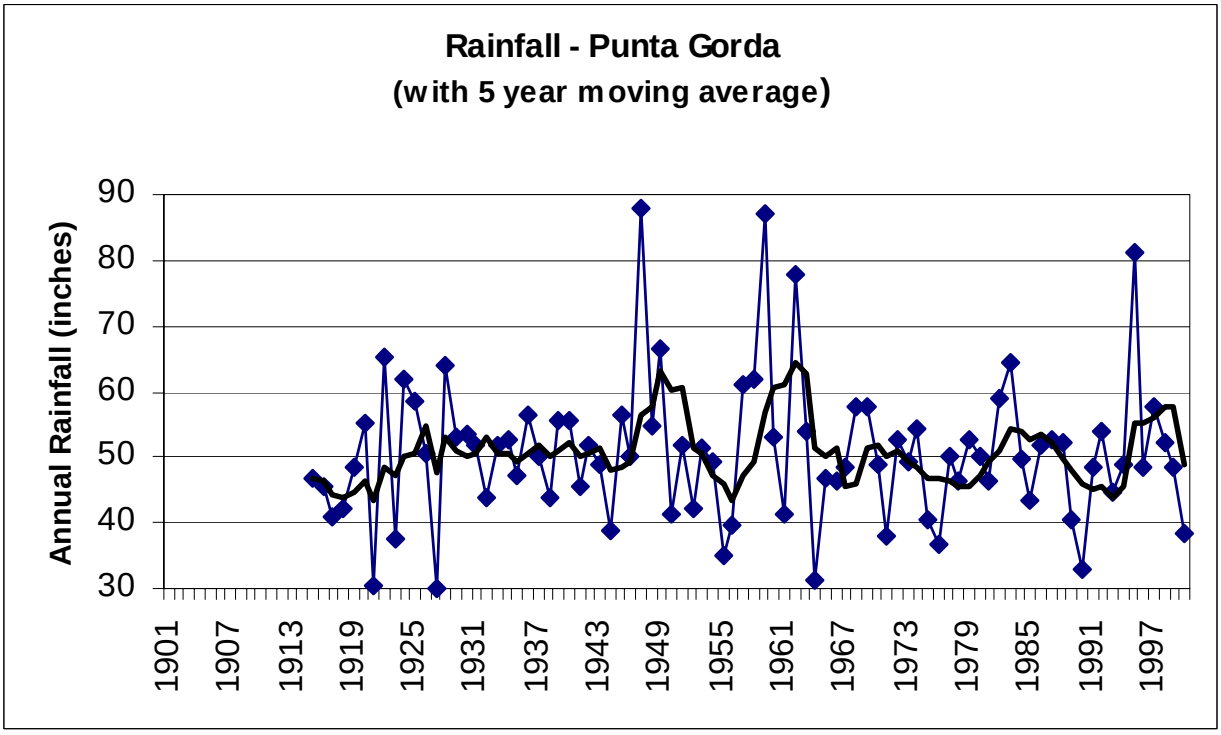
This appendix contains plots for seven rainfall sites located within the Peace River basin. Several sites are located in relatively close proximity to the river and USGS gage sites and are presented in upstream to downstream order. These sites are Bartow, Ft. Meade, Wauchula, Arcadia, and Punta Gorda. Three other rainfall sites located in the upper most part of the watershed are also included; these are Lake Alfred, Lakeland and Winter Haven. Two sets of plots are presented. The first set is simply a plot of total annual rainfall for the period of record for each site; this plot also includes a 5-year running average plot. The second set of plots is the cumulative deviation in rainfall plots. Two plots were prepared for each site. The upper plot is the cumulative deviation from the mean annual rainfall over the period of record; the lower plot is the cumulative deviation from the median annual rainfall over the period of record. A general upward slope is indicative of a period of above normal rainfall, while an extended downward slope is indicative of a period of below normal rainfall.

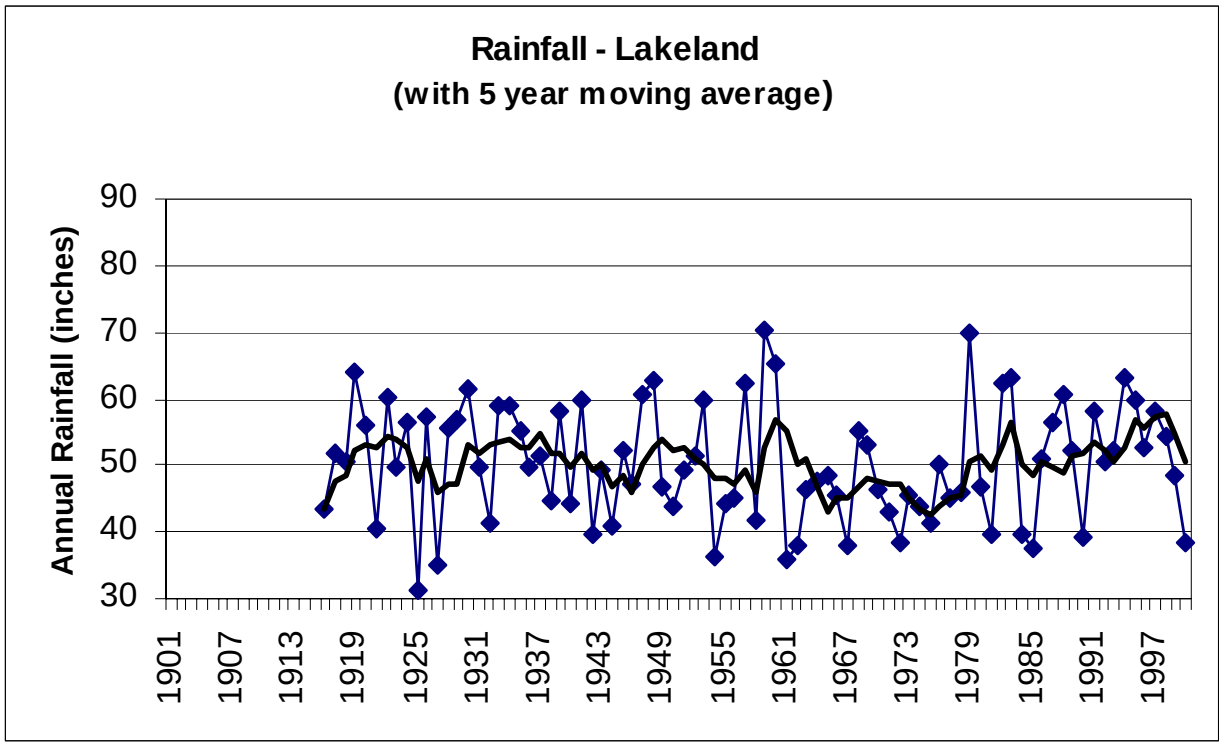
Chart/Table	Page
Period of record total annual rainfall - Bartow	RF-2
Period of record total annual rainfall - Wauchula	RF-2
Period of record total annual rainfall - Arcadia	RF-3
Period of record total annual rainfall - Punta Gorda	RF-3
Period of record total annual rainfall - Lake Alfred	RF-4
Period of record total annual rainfall - Lakeland	RF-4
Period of record total annual rainfall - Winter Haven	RF-5
Cumulative deviation from mean annual rainfall - Bartow	RF-6
Cumulative deviation from median annual rainfall - Bartow	RF-6
Cumulative deviation from mean annual rainfall - Wauchula	RF-7
Cumulative deviation from median annual rainfall - Wauchula	RF-7
Cumulative deviation from mean annual rainfall - Arcadia	RF-8
Cumulative deviation from median annual rainfall - Arcadia	RF-8
Cumulative deviation from mean annual rainfall - Punta Gorda	RF-9
Cumulative deviation from median annual rainfall - Punta Gorda	RF-9
Cumulative deviation from mean annual rainfall - Lake Alfred	RF-10
Cumulative deviation from median annual rainfall - Lake Alfred	RF-10
Cumulative deviation from mean annual rainfall - Lakeland	RF-11
Cumulative deviation from median annual rainfall - Lakeland	RF-11
Cumulative deviation from mean annual rainfall - Winter Haven	RF-12
Cumulative deviation from median annual rainfall - Winter Haven	RF-12
Monthly mean and median period of record rainfall at seven sites	RF-13

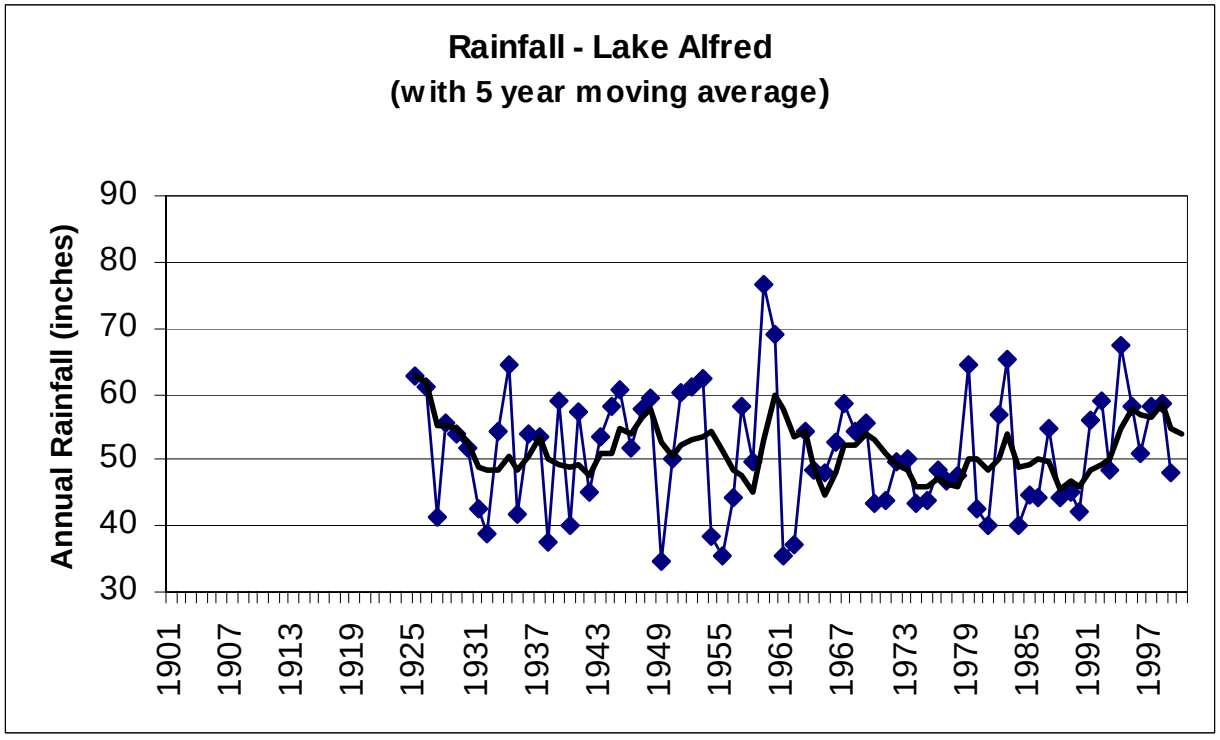

Rainfall - Bartow
(with 5 year moving average)
Annual Rainfall (inches)
90
80
70
60
50
40
30
1901
1907
1913
1919
1925
1931
1937
1943
1949
1955
1961
1967
1973
1979
1985
1991
1997

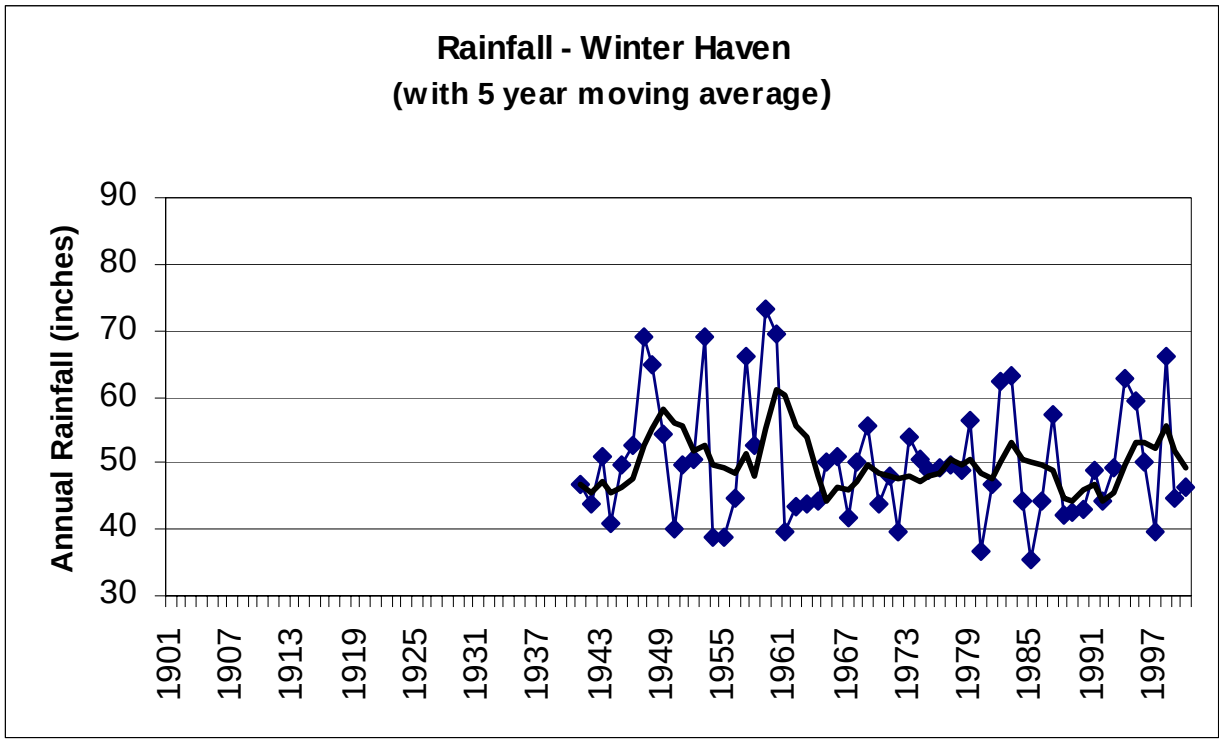

Rainfall - Wauchula
(with 5 year moving average)
Annual Rainfall (inches)
90
80
70
60
50
40
30
1901
1907
1913
1919
1925
1931
1937
1943
1949
1955
1961
1967
1973
1979
1985
1991
1997

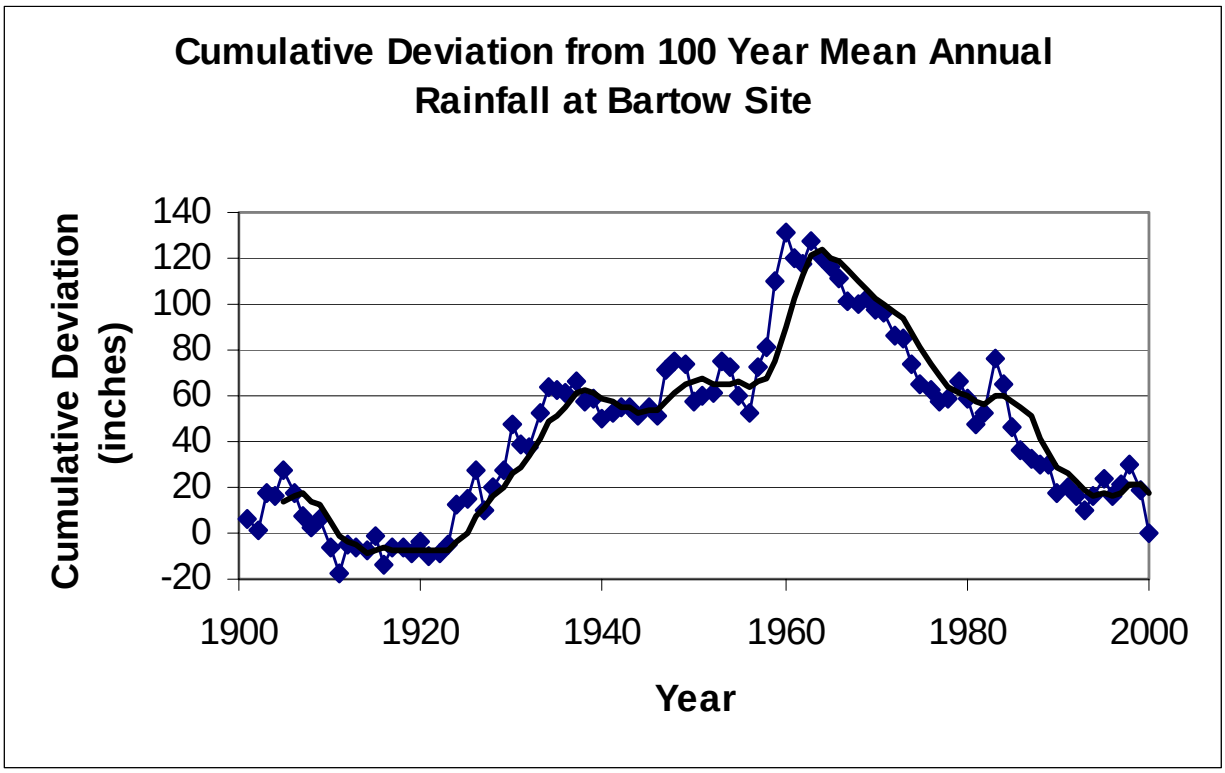

Rainfall - Arcadia
(with 5 year moving average)
Annual Rainfall (inches)
90
80
70
60
50
40
30
1901
1907
1913
1919
1925
1931
1937
1943
1949
1955
1961
1967
1973
1979
1985
1991
1997

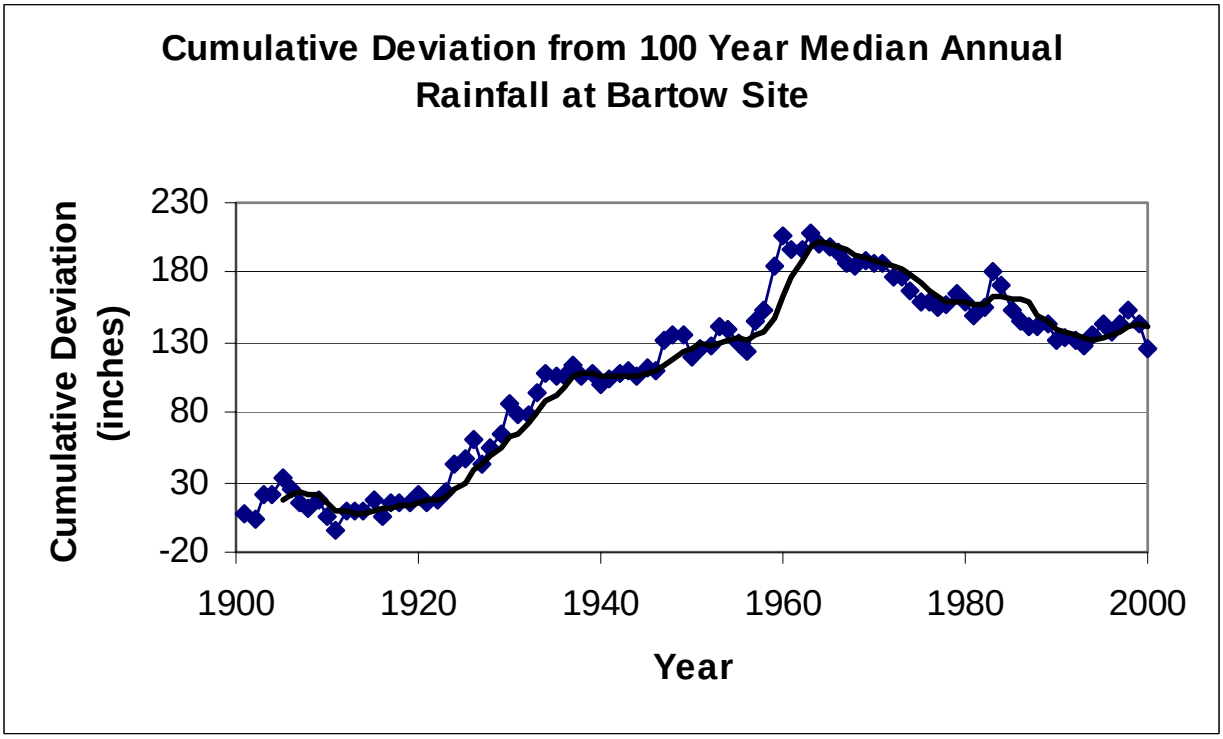

Rainfall - Punta Gorda
(with 5 year moving average)
Annual Rainfall (inches)
90
80
70
60
50
40
30
1901
1907
1913
1919
1925
1931
1937
1943
1949
1955
1961
1967
1973
1979
1985
1991
1997

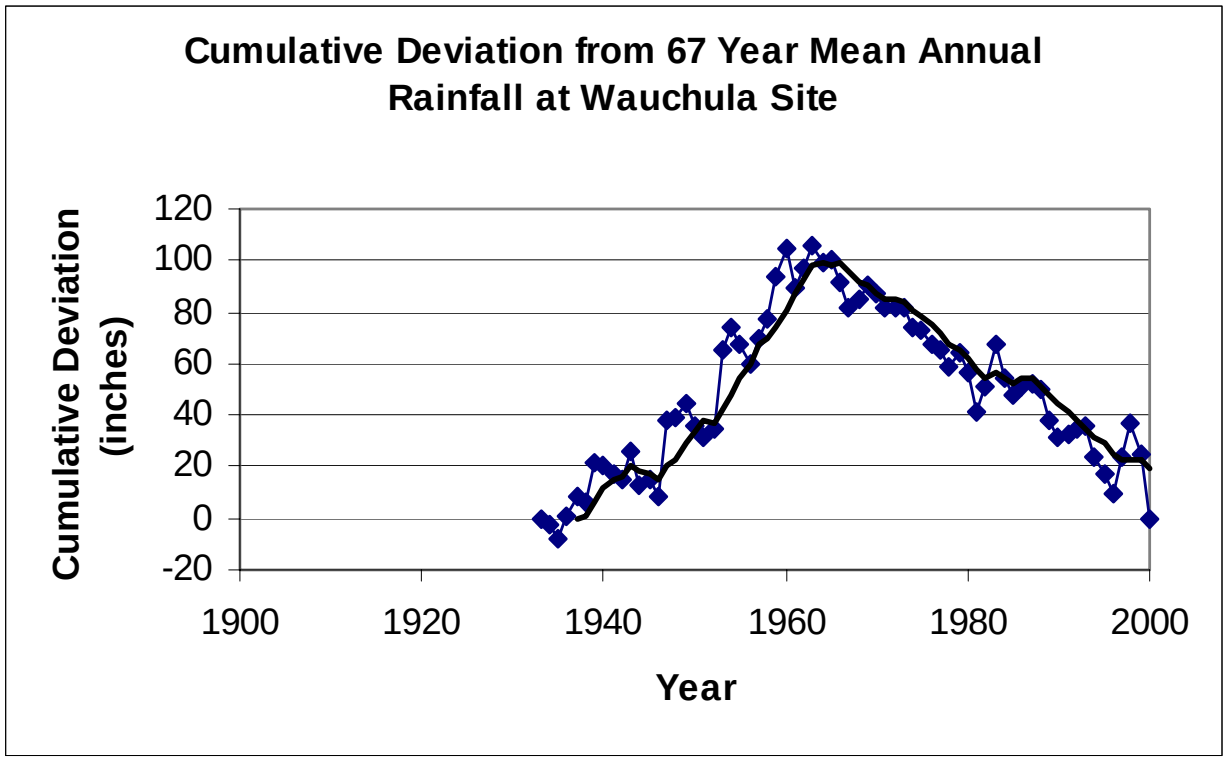

Rainfall - Lakeland
(with 5 year moving average)
Annual Rainfall (inches)
90
80
70
60
50
40
30
1901
1907
1913
1919
1925
1931
1937
1943
1949
1955
1961
1967
1973
1979
1985
1991
1997

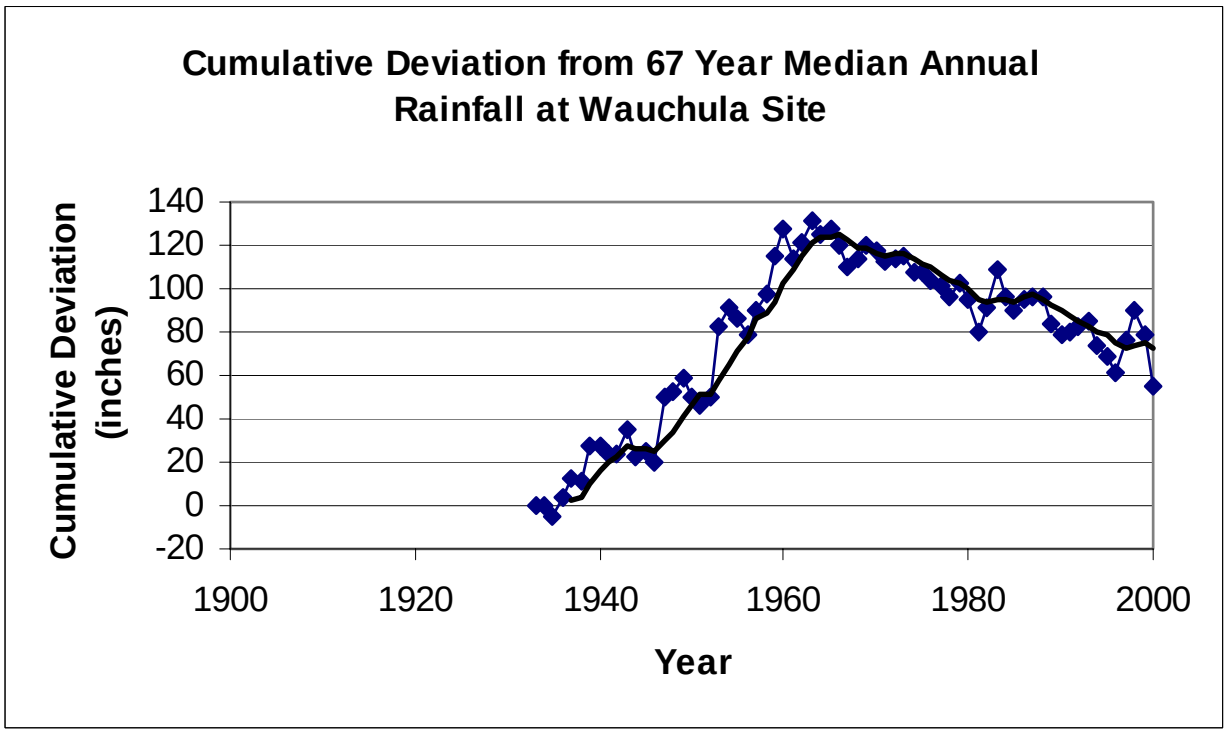

Rainfall - Lake Alfred
(with 5 year moving average)
Annual Rainfall (inches)
90
80
70
60
50
40
30
1901
1907
1913
1919
1925
1931
1937
1943
1949
1955
1961
1967
1973
1979
1985
1991
1997

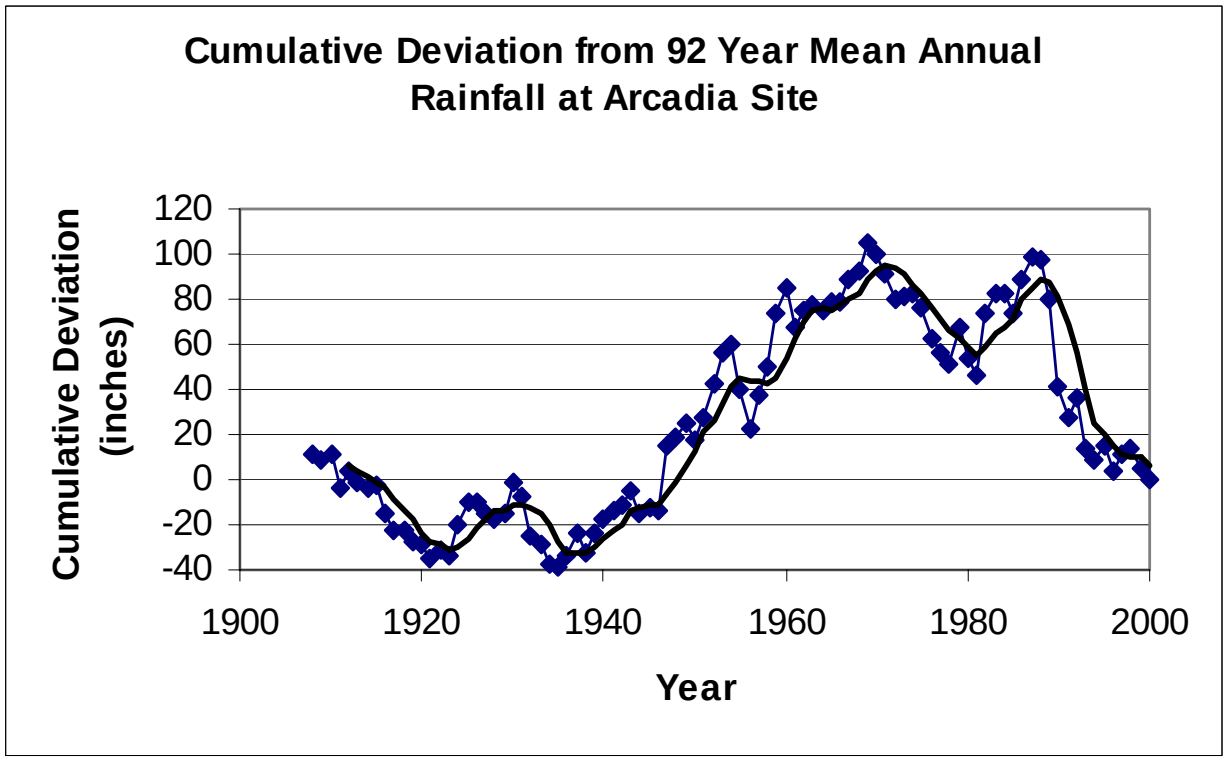

Rainfall - Winter Haven
(with 5 year moving average)
Annual Rainfall (inches)
90
80
70
60
50
40
30
1901
1907
1913
1919
1925
1931
1937
1943
1949
1955
1961
1967
1973
1979
1985
1991
1997

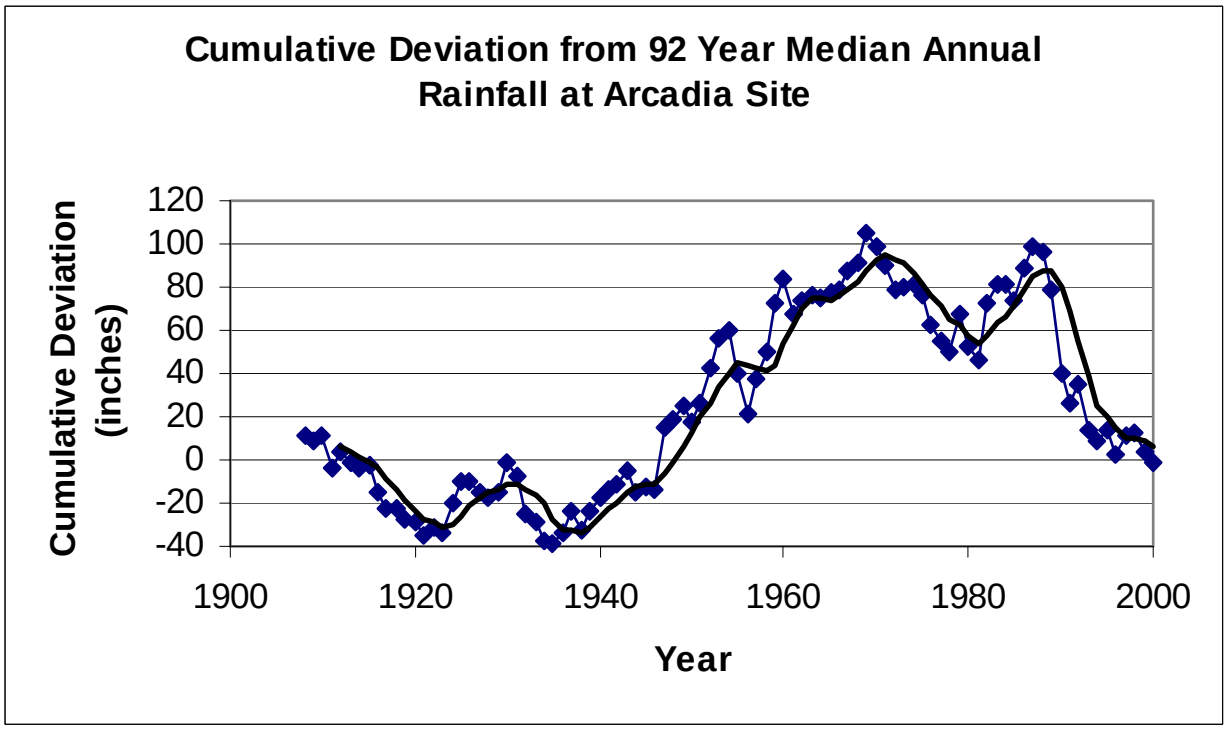

Cumulative Deviation from 100 Year Mean Annual Rainfall at Bartow Site
Cumulative Deviation (inches)
140
120
100
80
60
40
20
0
-20
1900
1920
1940
1960
1980
2000
Year

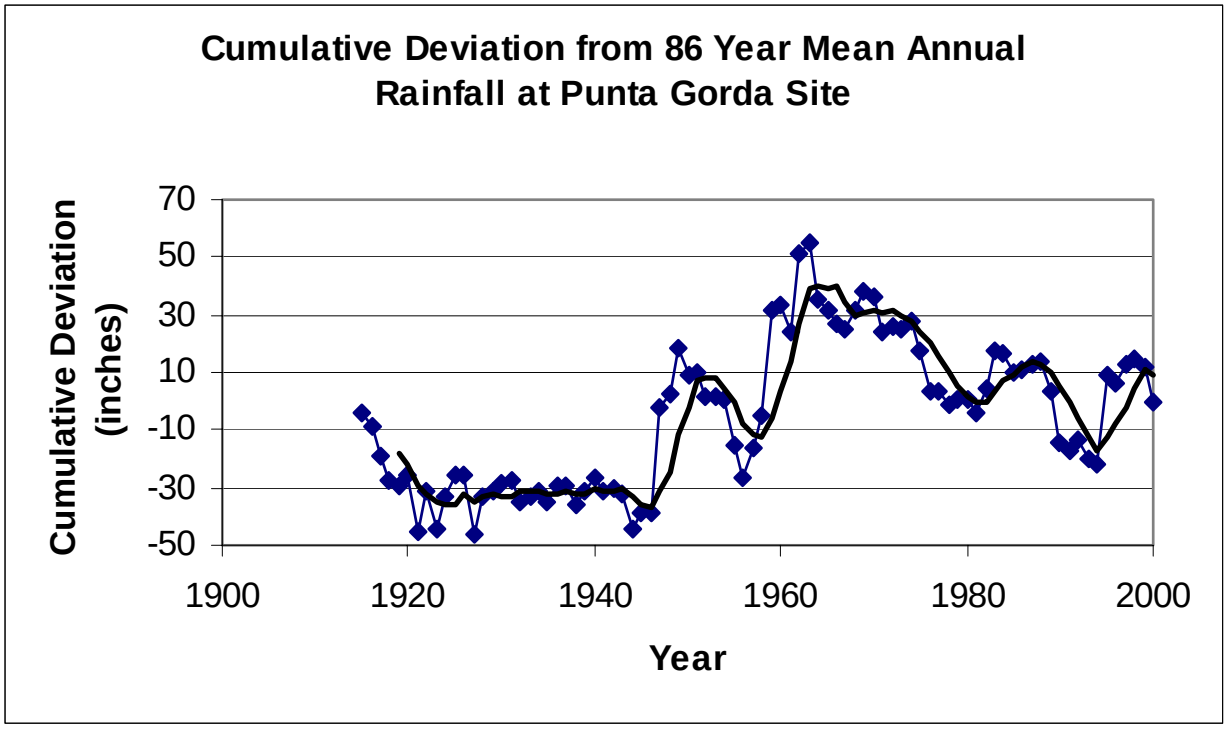

Cumulative Deviation from 100 Year Median Annual Rainfall at Bartow Site
Cumulative Deviation (inches)
230
180
130
80
30
-20
1900
1920
1940
1960
1980
2000
Year

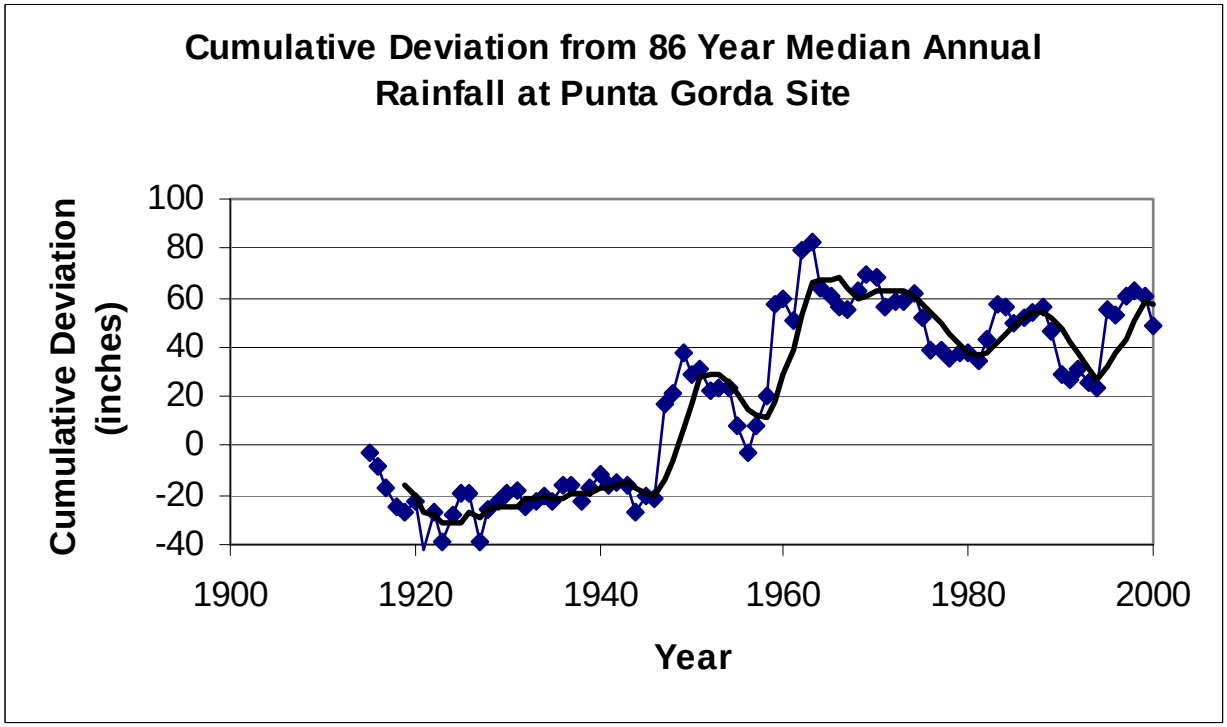

Cumulative Deviation from 67 Year Mean Annual Rainfall at Wauchula Site
Cumulative Deviation (inches)
120
100
80
60
40
20
0
-20
1900
1920
1940
1960
1980
2000
Year

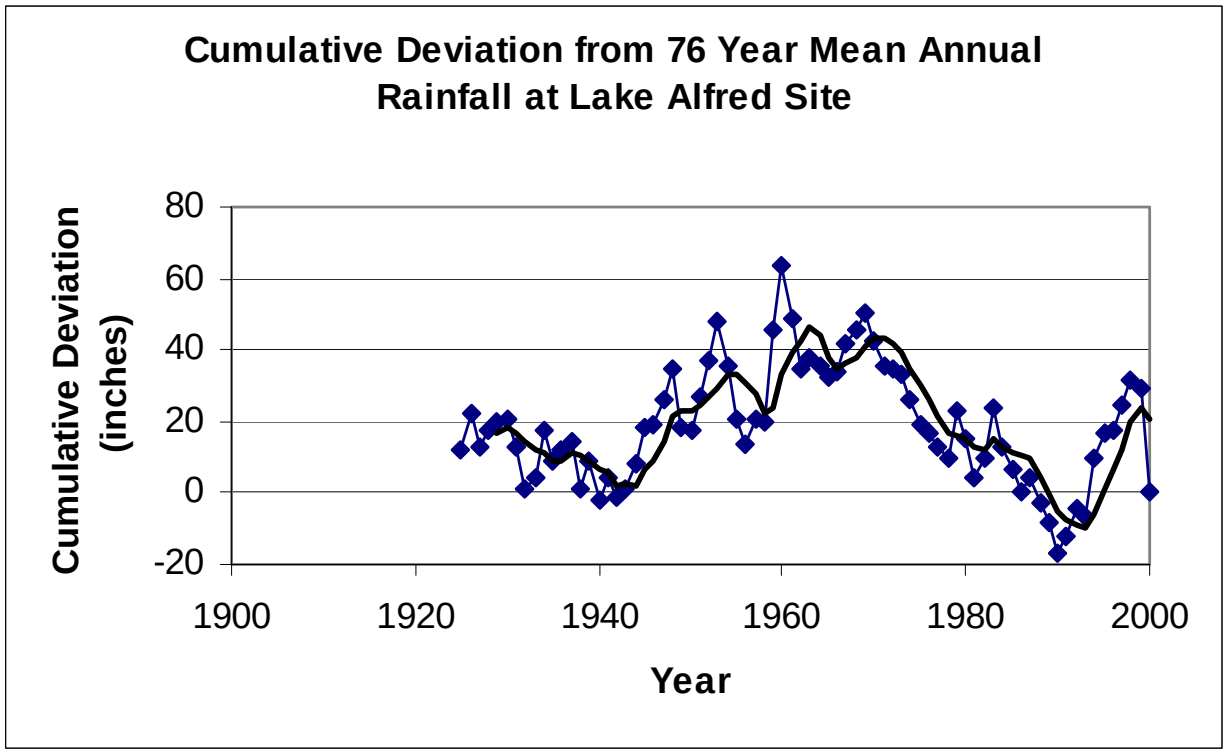

Cumulative Deviation from 67 Year Median Annual Rainfall at Wauchula Site
Cumulative Deviation (inches)
140
120
100
80
60
40
20
0
-20
1900
1920
1940
1960
1980
2000
Year

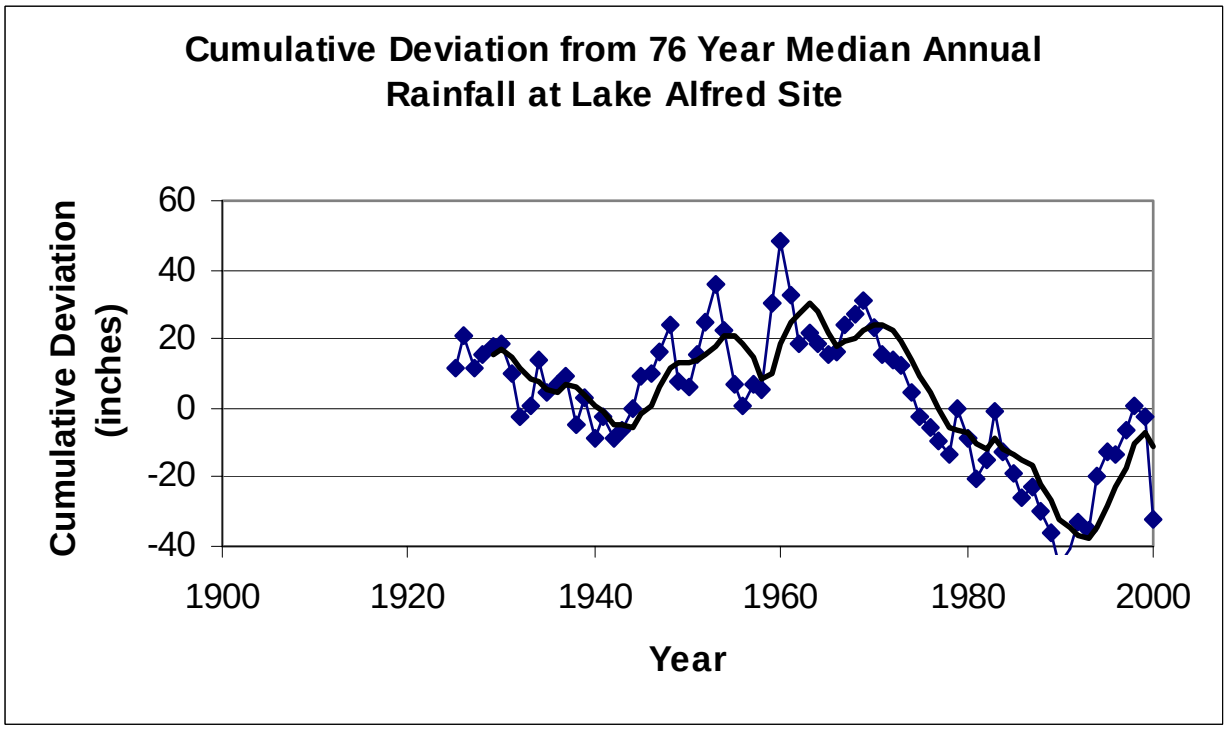

Cumulative Deviation from 92 Year Mean Annual Rainfall at Arcadia Site
Cumulative Deviation (inches)
120
100
80
60
40
20
0
-20
-40
1900
1920
1940
1960
1980
2000
Year

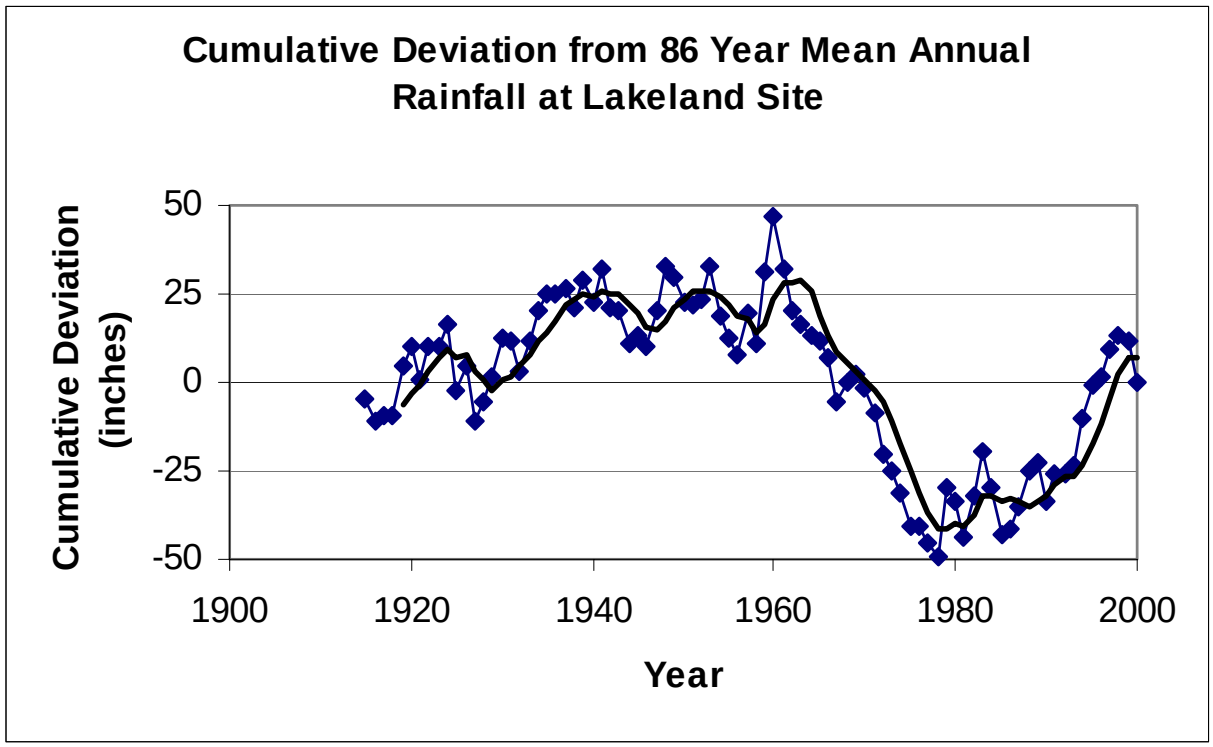

Cumulative Deviation from 92 Year Median Annual Rainfall at Arcadia Site
Cumulative Deviation (inches)
120
100
80
60
40
20
0
-20
-40
1900
1920
1940
1960
1980
2000
Year

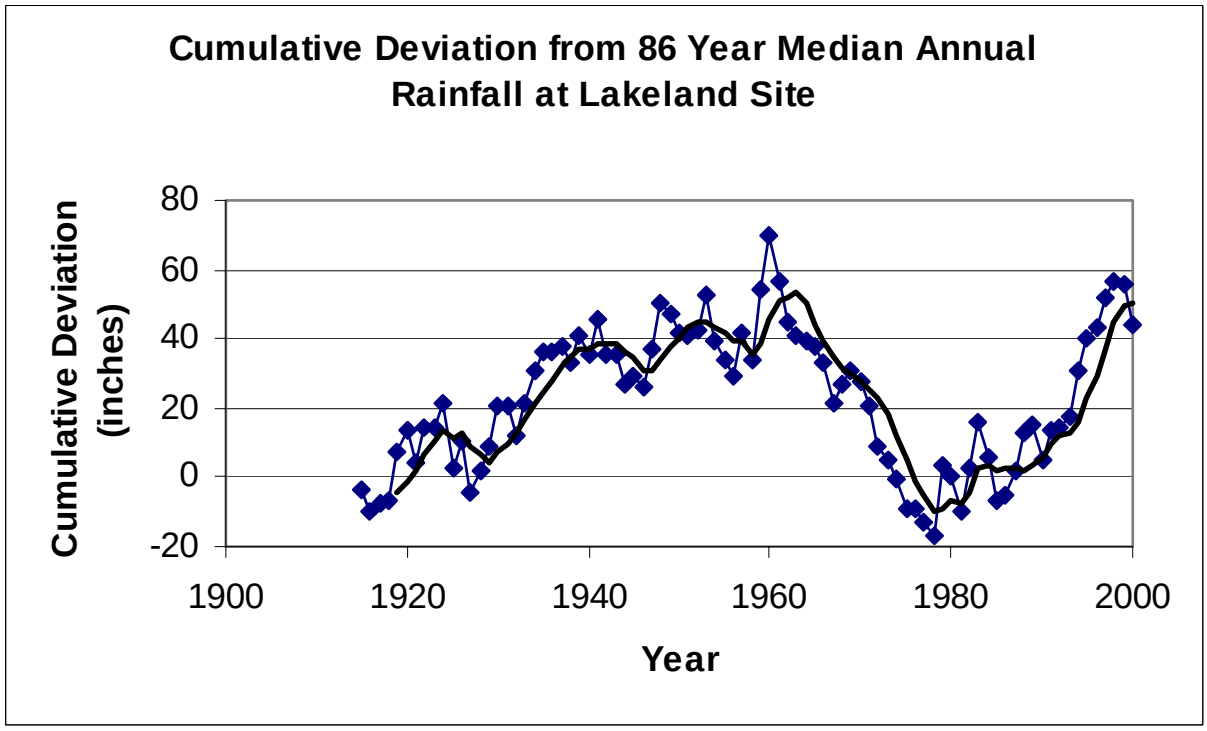

Cumulative Deviation from 86 Year Mean Annual Rainfall at Punta Gorda Site
Cumulative Deviation (inches)
70
50
30
10
-10
-30
-50
1900
1920
1940
1960
1980
2000
Year

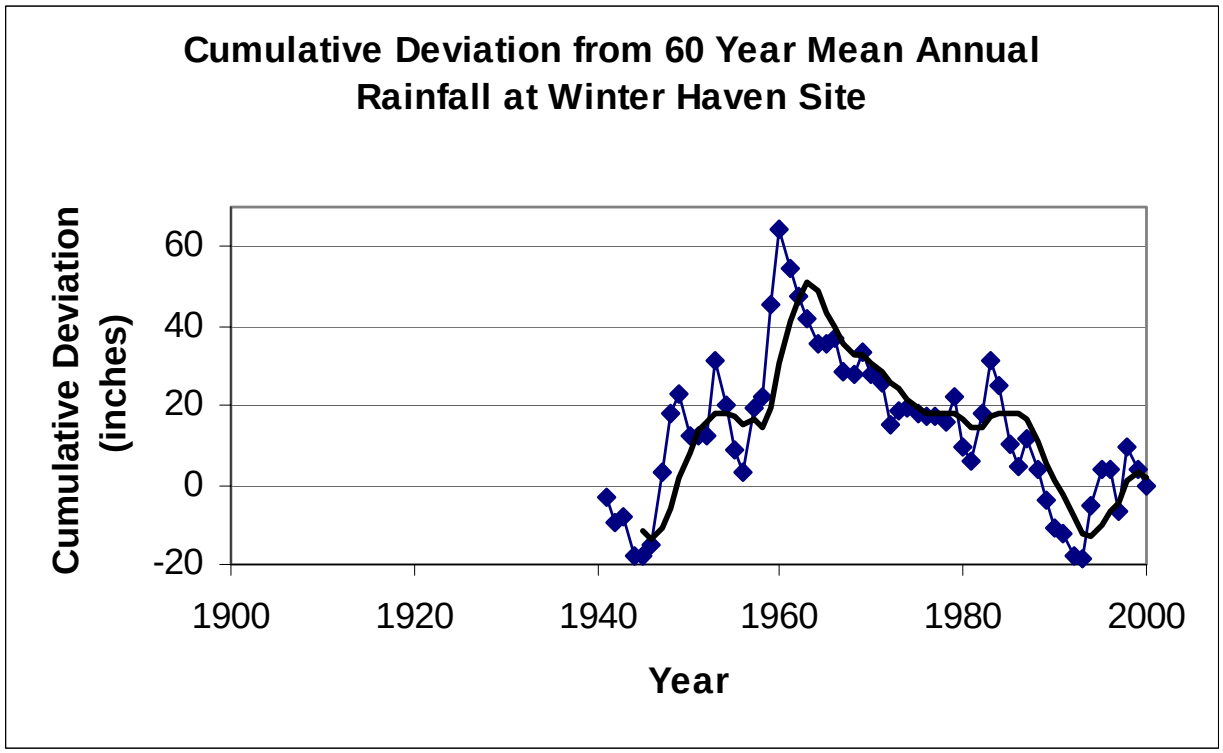

Cumulative Deviation from 86 Year Median Annual Rainfall at Punta Gorda Site
Cumulative Deviation (inches)
100
80
60
40
20
0
-20
-40
1900
1920
1940
1960
1980
2000
Year

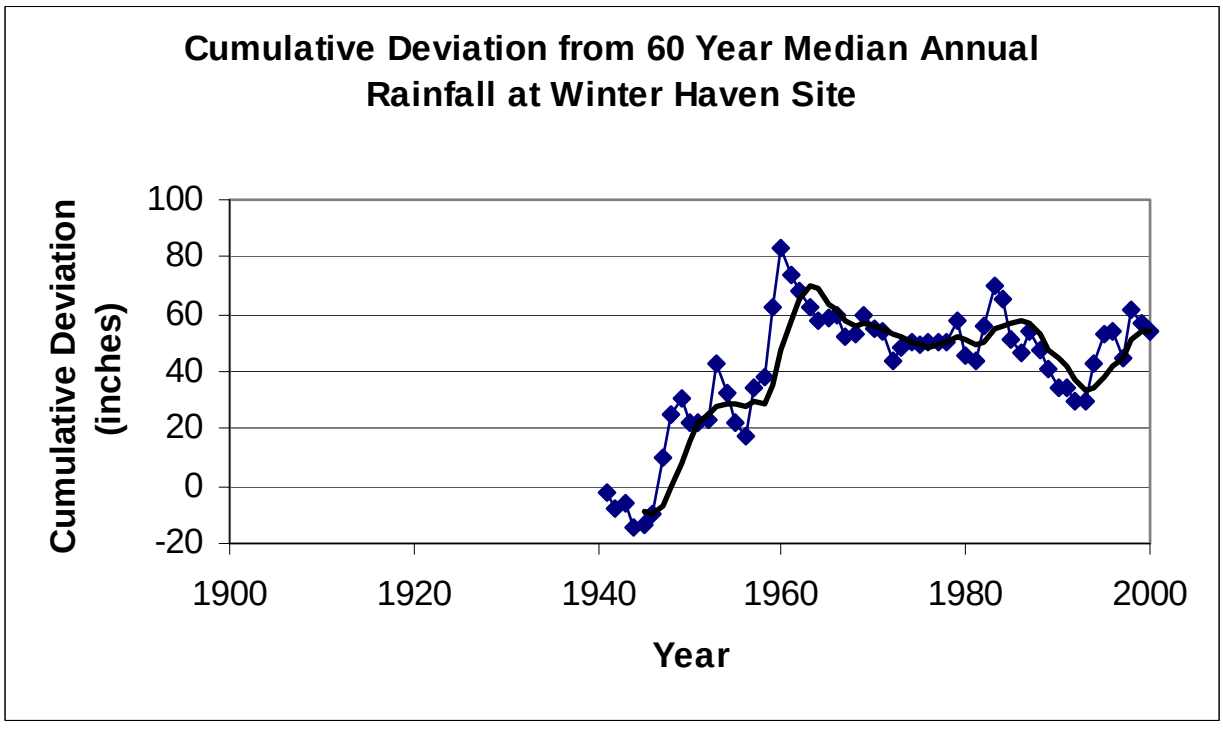

Cumulative Deviation from 76 Year Mean Annual Rainfall at Lake Alfred Site
Cumulative Deviation (inches)
80
60
40
20
0
-20
1900
1920
1940
1960
1980
2000
Year


Cumulative Deviation from 76 Year Median Annual Rainfall at Lake Alfred Site
Cumulative Deviation (inches)
60
40
20
0
-20
-40
1900
1920
1940
1960
1980
2000
Year


Cumulative Deviation from 86 Year Mean Annual Rainfall at Lakeland Site
Cumulative Deviation (inches)
50
25
0
-25
-50
1900
1920
1940
1960
1980
2000
Year


Cumulative Deviation from 86 Year Median Annual Rainfall at Lakeland Site
Cumulative Deviation (inches)
80
60
40
20
0
-20
1900
1920
1940
1960
1980
2000
Year


Cumulative Deviation from 60 Year Mean Annual Rainfall at Winter Haven Site
Cumulative Deviation (inches)
60
40
20
0
-20
1900
1920
1940
1960
1980
2000
Year


Cumulative Deviation from 60 Year Median Annual Rainfall at Winter Haven Site
Cumulative Deviation (inches)
100
80
60
40
20
0
-20
1900
1920
1940
1960
1980
2000
Year

Bartow Station - Average Rainfall (inches)
Period of Record (1901-2000)

Month	Mean	Percent	Median
JAN	2.4257	4.518815	1.91
FEB	2.84	5.28	2.34
MAR	3.26	6.08	2.65
APR	2.74	5.11	2.30
MAY	4.51	8.40	3.52
JUN	7.89	14.70	7.19
JUL	8.44	15.72	8.37
AUG	7.48	13.93	6.69
SEP	7.05	13.13	6.02
OCT	3.04	5.67	2.24
NOV	1.88	3.51	1.57
DEC	2.14	3.99	1.75
Annual	53.68	100.00	52.42

Wauchula Station - Average Rainfall (inches)
Period of Record (1933-2000)

Month	Mean	Percent	Median
JAN	2.20	4.20	1.75
FEB	2.78	5.31	2.37
MAR	3.19	6.09	2.60
APR	2.62	5.00	2.38
MAY	4.01	7.65	3.24
JUN	8.61	16.43	8.10
JUL	8.44	16.10	7.97
AUG	7.38	14.08	7.26
SEP	7.14	13.62	7.04
OCT	2.86	5.47	2.69
NOV	1.82	3.47	1.20
DEC	1.79	3.42	1.38
Annual	52.39	100.85	

Arcadia Station - Average Rainfall (inches)
Period of Record (1908-2000)

Month	Average	Percent	Median
JAN	2.03	3.96	1.63
FEB	2.42	4.73	2.02
MAR	2.72	5.31	1.84
APR	2.32	4.54	2.08
MAY	4.04	7.89	3.44
JUN	7.97	15.57	6.64
JUL	7.82	15.28	7.37
AUG	7.57	14.78	7.08
SEP	7.34	14.35	6.95
OCT	3.54	6.92	2.68
NOV	1.72	3.37	1.32
DEC	1.69	3.31	1.23
Annual	51.18	100.00	

Punta Gorda Station - Average Rainfall (inches)
Period of Record (1915-2000)

Month	Mean	Percent	Median
JAN	2.02	3.98	1.44
FEB	2.31	4.55	1.98
MAR	2.55	5.03	1.96
APR	2.12	4.18	1.68
MAY	3.51	6.91	2.96
JUN	8.36	16.48	7.46
JUL	7.68	15.13	7.62
AUG	7.68	15.14	7.36
SEP	7.78	15.34	6.98
OCT	3.49	6.87	2.87
NOV	1.61	3.17	1.26
DEC	1.69	3.32	1.26
Annual	50.73	100.12	

Lake Alfred Station - Average Rainfall (inches)
Period of Record (1925-2000)

Month	Mean	Percent	Median
JAN	2.35	4.62	1.77
FEB	2.76	5.42	2.48
MAR	3.55	6.98	3.02
APR	2.52	4.94	1.87
MAY	4.19	8.23	3.69
JUN	7.60	14.94	7.35
JUL	7.40	14.55	7.10
AUG	7.13	14.00	6.70
SEP	6.70	13.17	6.16
OCT	2.92	5.73	1.96
NOV	1.85	3.63	1.31
DEC	2.13	4.19	1.75
Annual	50.90	100.41	

Lakeland Station - Average Rainfall (inches)
Period of Record (1916-2000)

Month	Average	Percent	Median
JAN	2.27	4.51	1.80
FEB	2.59	5.16	2.17
MAR	3.66	7.28	3.17
APR	2.62	5.21	2.08
MAY	4.09	8.14	3.57
JUN	7.20	14.32	6.69
JUL	7.70	15.33	7.64
AUG	7.26	14.45	6.95
SEP	6.44	12.82	6.14
OCT	2.53	5.03	2.15
NOV	1.78	3.54	1.14
DEC	2.11	4.21	1.59
Annual	50.25	100.01	

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Winter Haven Station - Average Rainfall (inches)
Period of Record (1941-2000)

Month	Mean	Percent	Median
JAN	2.34	4.66	1.62
FEB	2.67	5.32	2.27
MAR	3.51	7.00	2.86
APR	2.28	4.55	1.98
MAY	3.87	7.72	3.37
JUN	6.81	13.58	6.01
JUL	8.25	16.47	8.10
AUG	6.97	13.90	7.05
SEP	6.46	12.89	5.96
OCT	2.96	5.92	2.42
NOV	2.05	4.09	1.47
DEC	1.99	3.97	1.76
Annual	50.12	100.07	

APPENDIX RH

Riparian Habitats - RH

This appendix contains two types of plots. For each transect the wetted perimeter of each particular riparian habitat (e.g., cypress swamp, lower floodplain, upper floodplain) is plotted versus elevation. These plots are followed by a series of paired plots of the total and longest consecutive number of days of inundation per year to the median elevation of various riparian habitats (e.g., cypress swamp, mixed hardwood swamp, lower floodplain, upper floodplain) at transect sites on the Upper Peace River.

Chart or Table	Page
Transect 181: Wetted perimeter of habitats versus elevation	RH-5
Transect 178: Wetted perimeter of habitats versus elevation	RH-5
Transect 161: Wetted perimeter of habitats versus elevation	RH-6
Transect 150: Wetted perimeter of habitats versus elevation	RH-6
Transect 146: Wetted perimeter of habitats versus elevation	RH-7
Transect 143: Wetted perimeter of habitats versus elevation	RH-7
Transect 134: Wetted perimeter of habitats versus elevation	RH-8
Transect 119: Wetted perimeter of habitats versus elevation	RH-8
Transect 106: Wetted perimeter of habitats versus elevation	RH-9
Transect 99: Wetted perimeter of habitats versus elevation	RH-9
Transect 91: Wetted perimeter of habitats versus elevation	RH-10
Transect 83: Wetted perimeter of habitats versus elevation	RH-10
Transect 79: Wetted perimeter of habitats versus elevation	RH-11
Transect 49: Wetted perimeter of habitats versus elevation	RH-11
Transect 48: Wetted perimeter of habitats versus elevation	RH-12
Transect 33: Wetted perimeter of habitats versus elevation	RH-12
Transect 15: Wetted perimeter of habitats versus elevation	RH-13
Transect 181 - Total and longest consecutive number of days of of inundation to median elevation of lower floodplain	RH-14
Transect 178 - Total and longest consecutive number of days of of inundation to median elevation of lower floodplain	RH-15
Transect 161 - Total and longest consecutive number of days of of inundation to median elevation of lower floodplain	RH-16
Transect 150 - Total and longest consecutive number of days of of inundation to median elevation of lower floodplain	RH-17
Transect 146 - Total and longest consecutive number of days of of inundation to median elevation of lower floodplain	RH-18
Transect 143 - Total and longest consecutive number of days of of inundation to median elevation of lower floodplain	RH-19
Transect 134 - Total and longest consecutive number of days of of inundation to median elevation of lower floodplain	RH-20

Transect 119 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-21
Transect 106 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-22
Transect 99 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-23
Transect 91 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-24
Transect 79 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-25
Transect 49 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-26
Transect 48 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-27
Transect 15 - Total and longest consecutive number of days of
of inundation to median elevation of lower floodplain RH-28

Transect 181 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-29
Transect 161 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-30
Transect 150 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-31
Transect 146 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-32
Transect 134 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-33
Transect 119 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-34
Transect 106 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-35
Transect 99 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-36
Transect 91 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-37
Transect 49 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-38
Transect 33 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-39
Transect 15 - Total and longest consecutive number of days of
of inundation to median elevation of upper floodplain RH-40

Transect 181 - Total and longest consecutive number of days of
of inundation to median elevation of cypress swamp RH-41

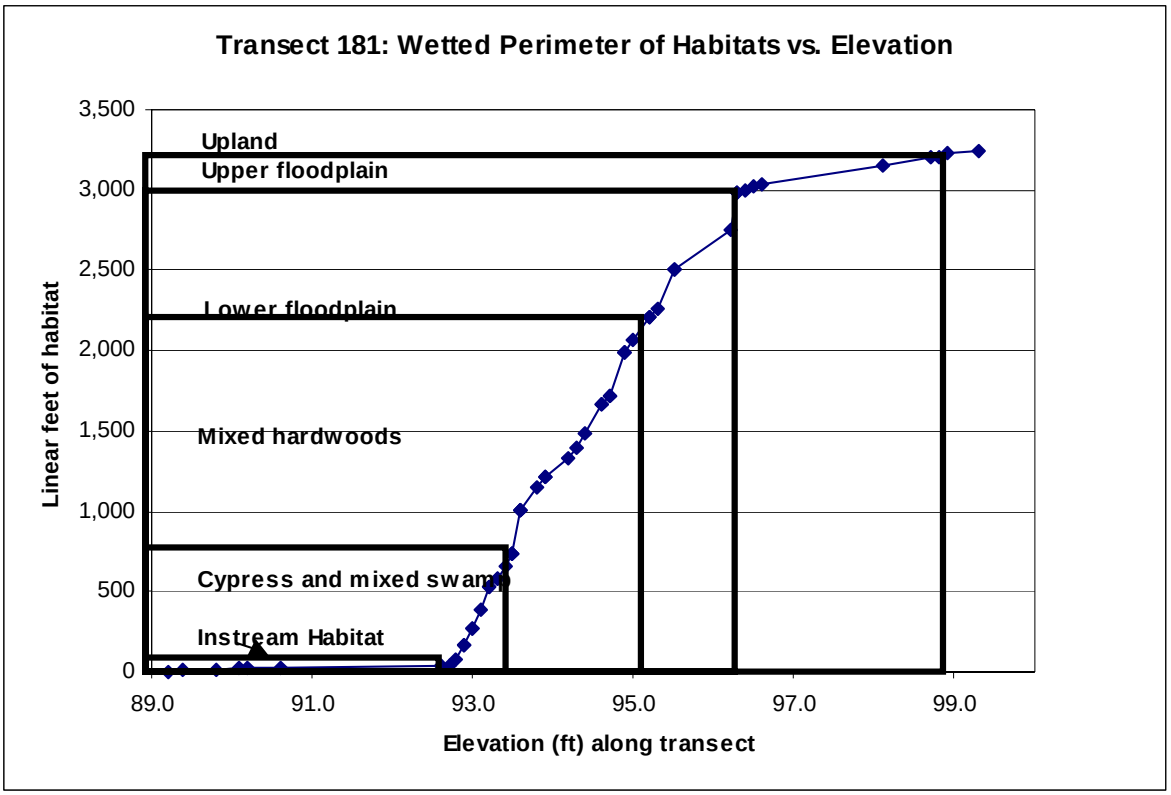
Transect 178 - Total and longest consecutive number of days of
of inundation to median elevation of cypress swamp RH-42
Transect 181 - Total and longest consecutive number of days of
of inundation to median elevation of mixed swamp RH-43
Transect 150 - Total and longest consecutive number of days of
of inundation to median elevation of mixed swamp RH-44
Transect 143 - Total and longest consecutive number of days of
of inundation to median elevation of mixed swamp RH-45
Transect 119 - Total and longest consecutive number of days of
of inundation to median elevation of mixed swamp RH-46

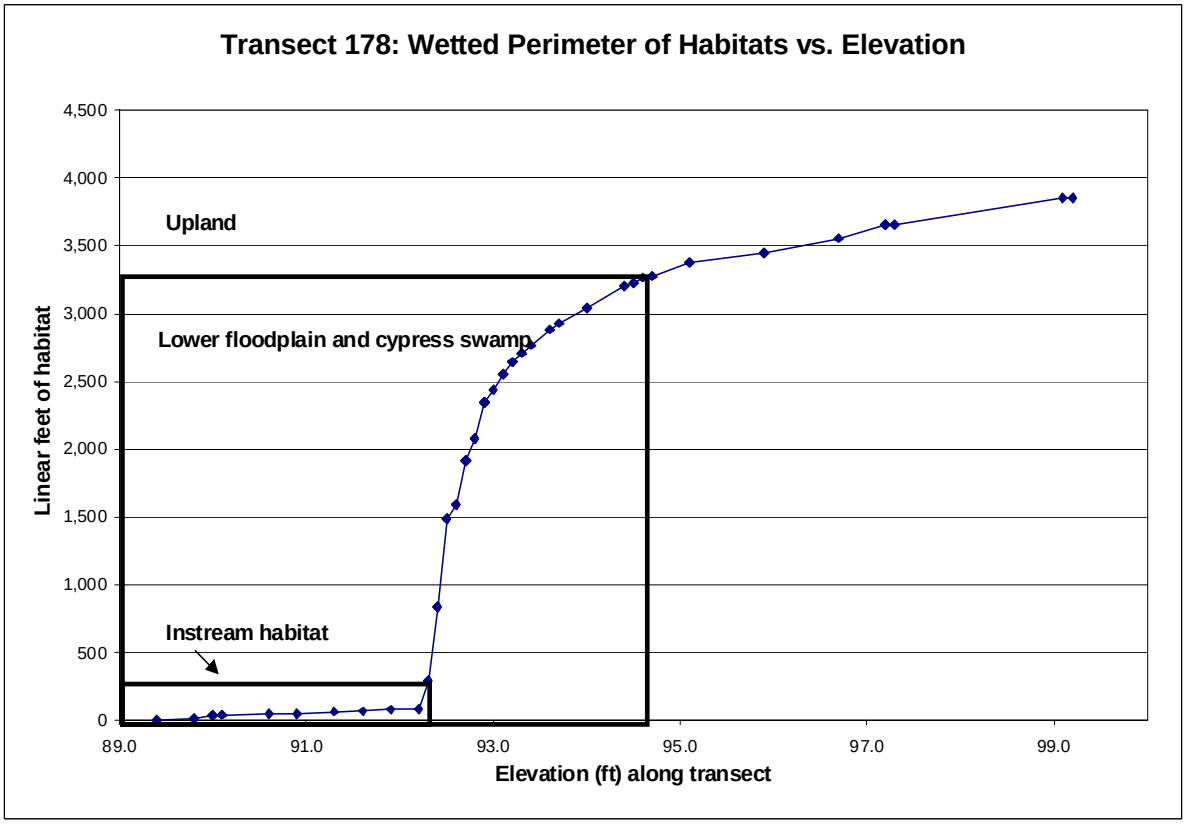
Transect 181 - Total and longest consecutive number of days of
of inundation to minimum elevation of cypress swamp RH-47
Transect 178 - Total and longest consecutive number of days of
of inundation to minimum elevation of cypress swamp RH-48
Transect 178 - Total and longest consecutive number of days of
of inundation to minimum elevation of mixed swamp RH-49
Transect 150 - Total and longest consecutive number of days of
of inundation to minimum elevation of mixed swamp RH-50
Transect 143 - Total and longest consecutive number of days of
of inundation to minimum elevation of mixed swamp RH-51
Transect 119 - Total and longest consecutive number of days of
of inundation to minimum elevation of mixed swamp RH-52

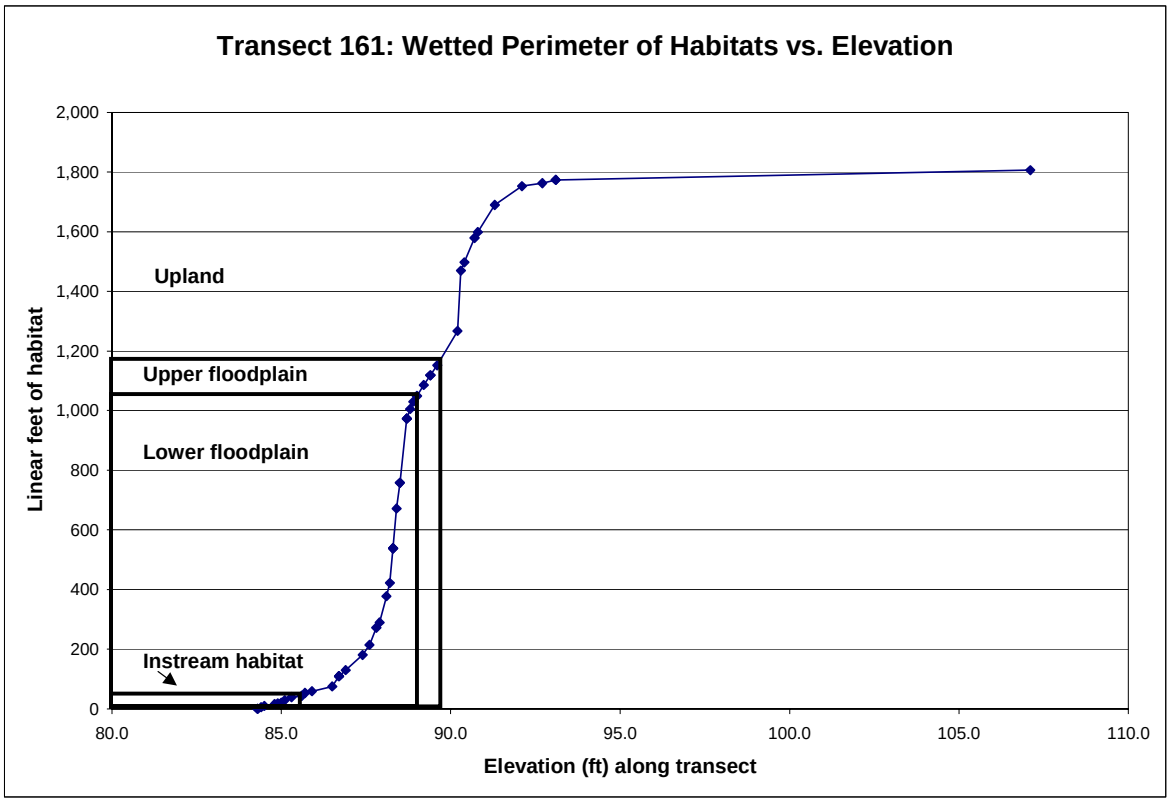
Transect 181 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-53
Transect 178 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-54
Transect 161 - Total number of days of minimum elevation of
of lower floodplain RH-55
Transect 150 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-56
Transect 146 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-57
Transect 143 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-58
Transect 134 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-59
Transect 119 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-60
Transect 106 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-61
Transect 99 - Total and longest consecutive number of days of
of inundation to minimum elevation of lower floodplain RH-62

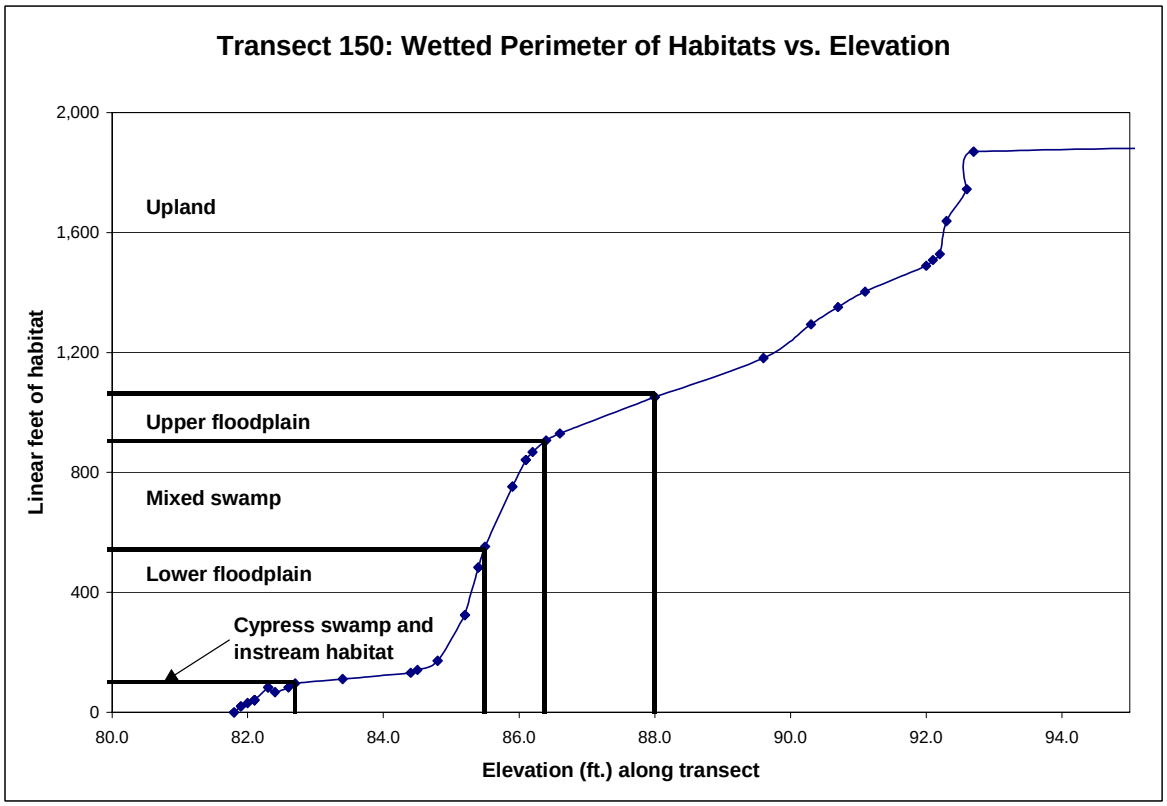
Transect 91 - Total number of days of minimum elevation of of lower floodplain RH-63
Transect 79 - Total and longest consecutive number of days of of inundation to minimum elevation of lower floodplain RH-64
Transect 49 - Total and longest consecutive number of days of of inundation to minimum elevation of lower floodplain RH-65
Transect 48 - Total and longest consecutive number of days of of inundation to minimum elevation of lower floodplain RH-66
Transect 15 - Total and longest consecutive number of days of of inundation to minimum elevation of lower floodplain RH-67

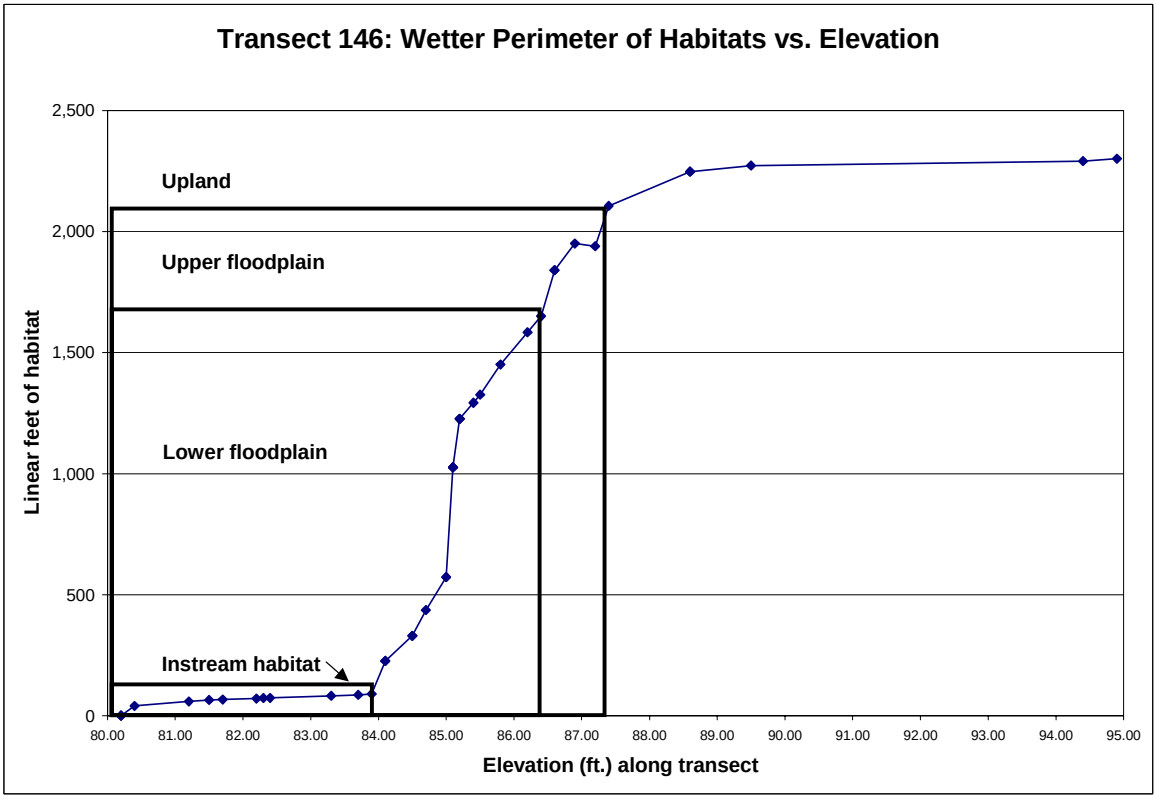
Transect 181 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-68
Transect 178 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-69
Transect 150 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-70
Transect 146 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-71
Transect 143 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-72
Transect 134 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-73
Transect 119 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-74
Transect 106 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-75
Transect 99 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-76
Transect 91 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-77
Transect 79 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-78
Transect 49 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-78
Transect 48 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-79
Transect 33 - Total and longest consecutive number of days of of inundation to minimum elevation of the upland zone RH-80

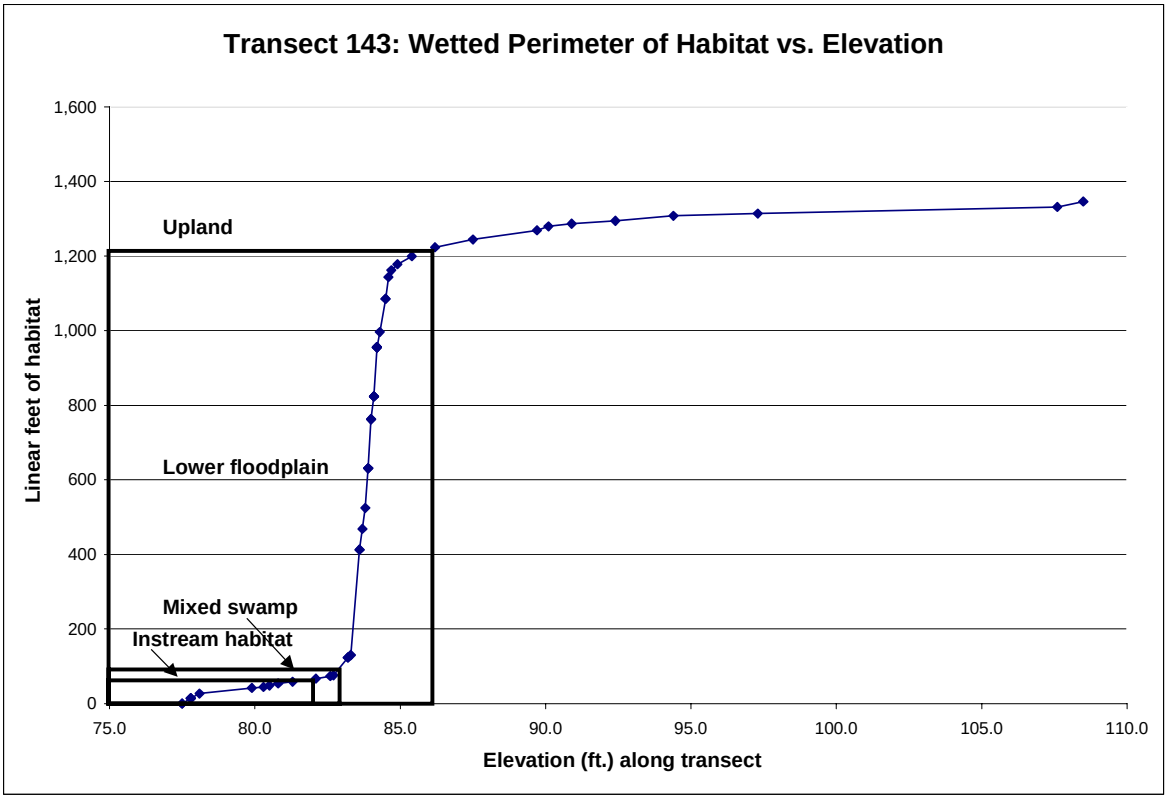

Transect 181: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Upland
Upper floodplain
Lower floodplain
Mixed hardwoods
Cypress and mixed swamp
Instream Habitat
89.0
91.0
93.0
95.0
97.0
99.0
Elevation (ft) along transect

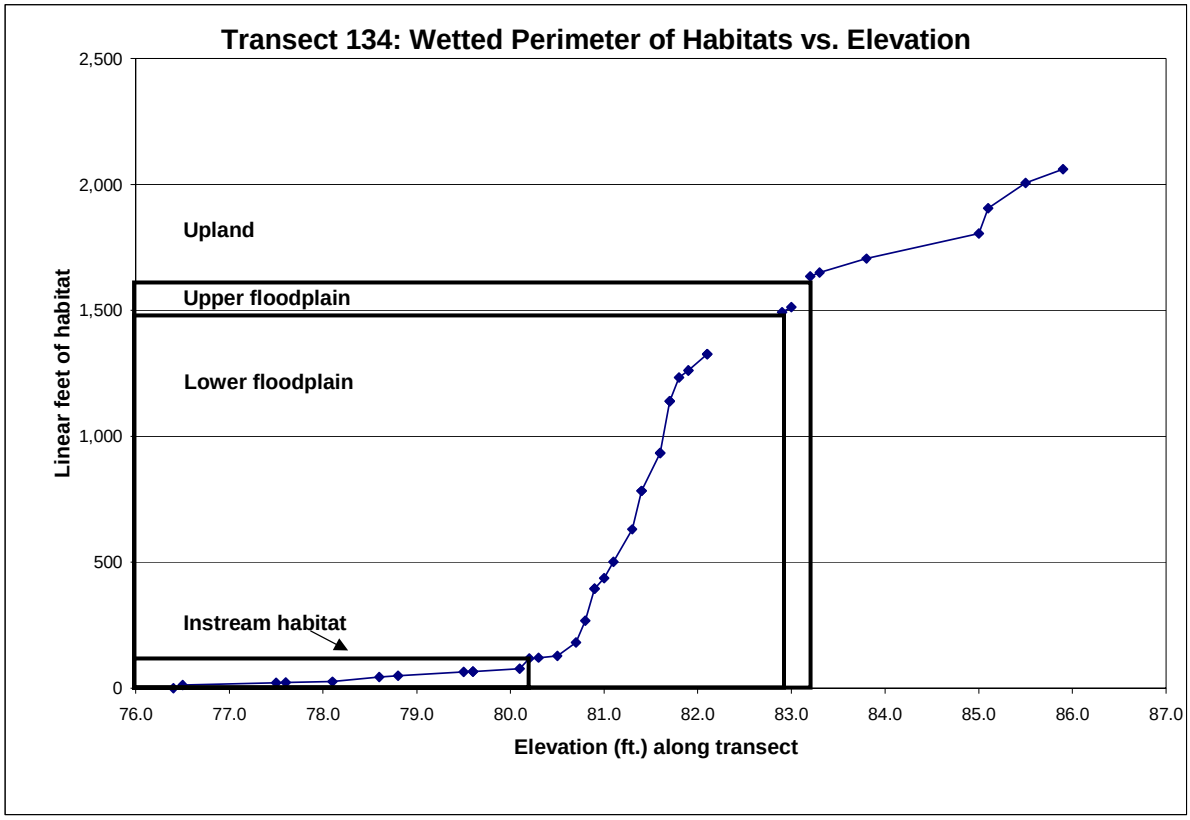

Transect 178: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
4,500
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Upland
Lower floodplain and cypress swamp
Instream habitat
89.0
91.0
93.0
95.0
97.0
99.0
Elevation (ft) along transect

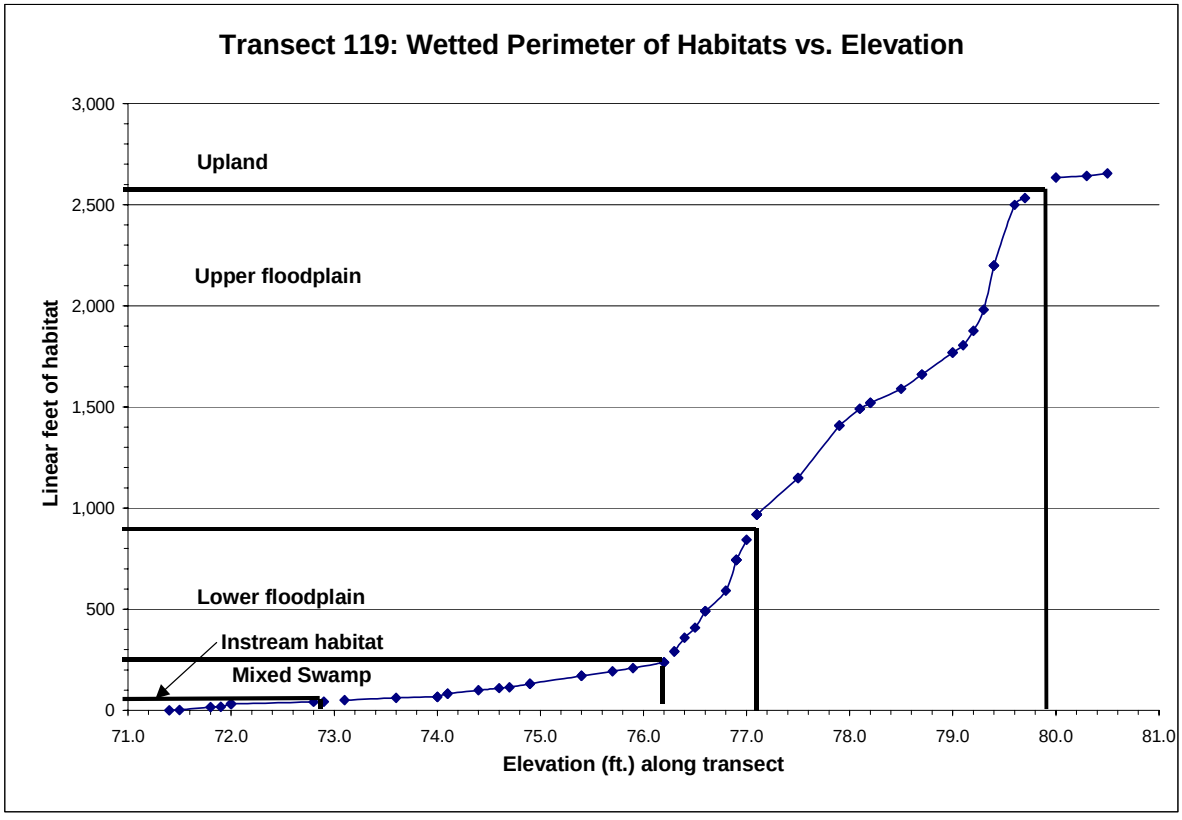

Transect 161: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
2,000
1,800
1,600
1,400
1,200
1,000
800
600
400
200
0
Upland
Upper floodplain
Lower floodplain
Instream habitat
80.0
85.0
90.0
95.0
100.0
105.0
110.0
Elevation (ft) along transect

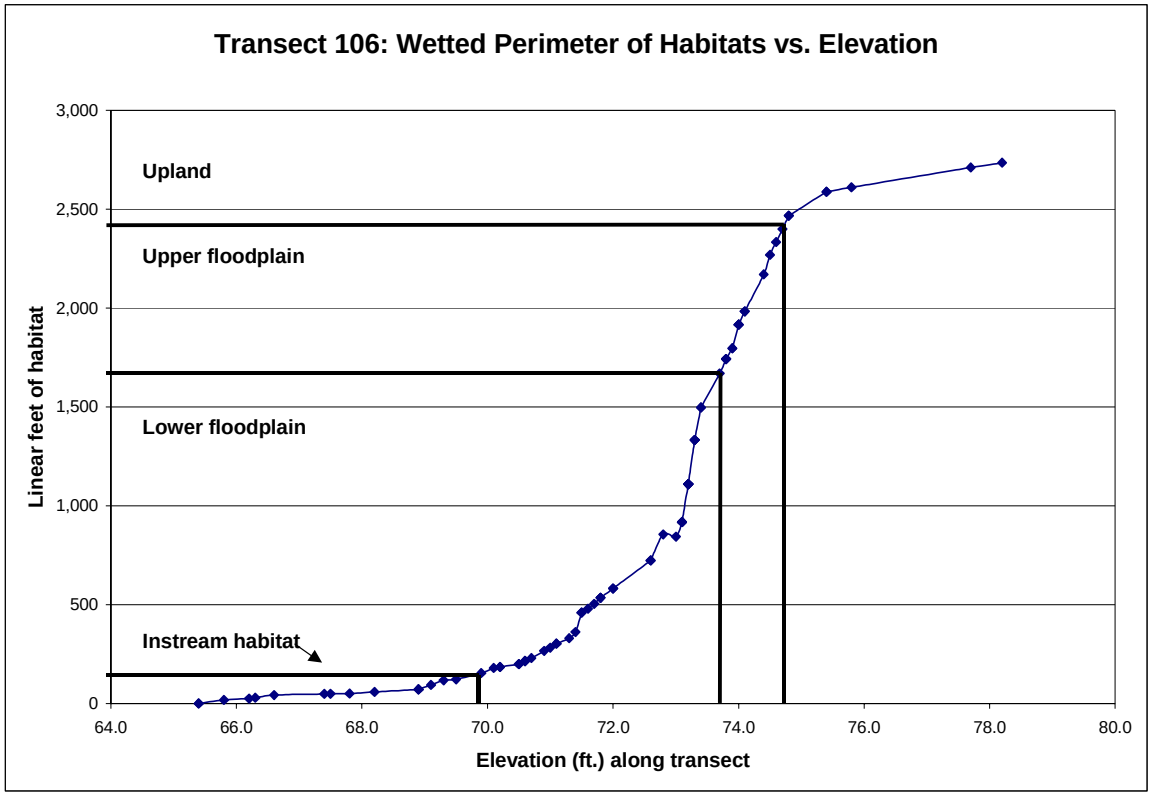

Transect 150: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
2,000
1,600
1,200
800
400
0
Upland
Upper floodplain
Mixed swamp
Lower floodplain
Cypress swamp and
instream habitat
80.0
82.0
84.0
86.0
88.0
90.0
92.0
94.0
Elevation (ft.) along transect

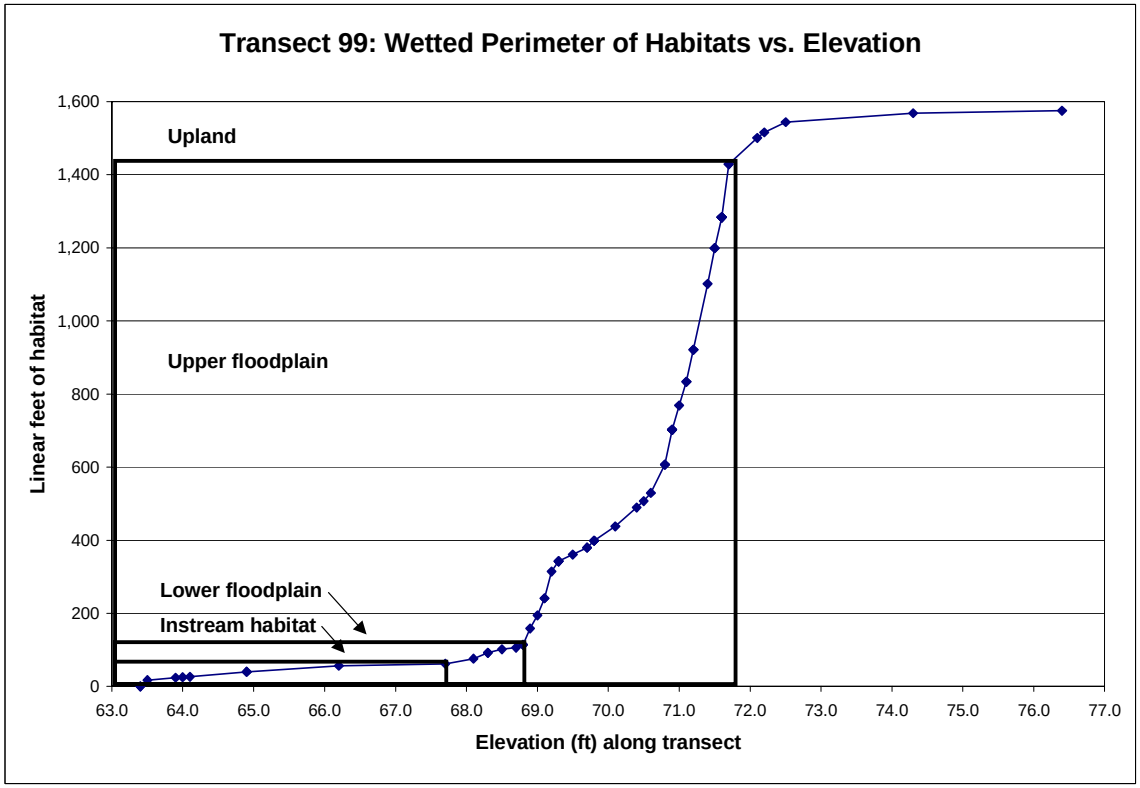

Transect 146: Wetter Perimeter of Habitats vs. Elevation
Linear feet of habitat
2,500
2,000
1,500
1,000
500
0
Upland
Upper floodplain
Lower floodplain
Instream habitat
80.00
81.00
82.00
83.00
84.00
85.00
86.00
87.00
88.00
89.00
90.00
91.00
92.00
93.00
94.00
95.00
Elevation (ft.) along transect

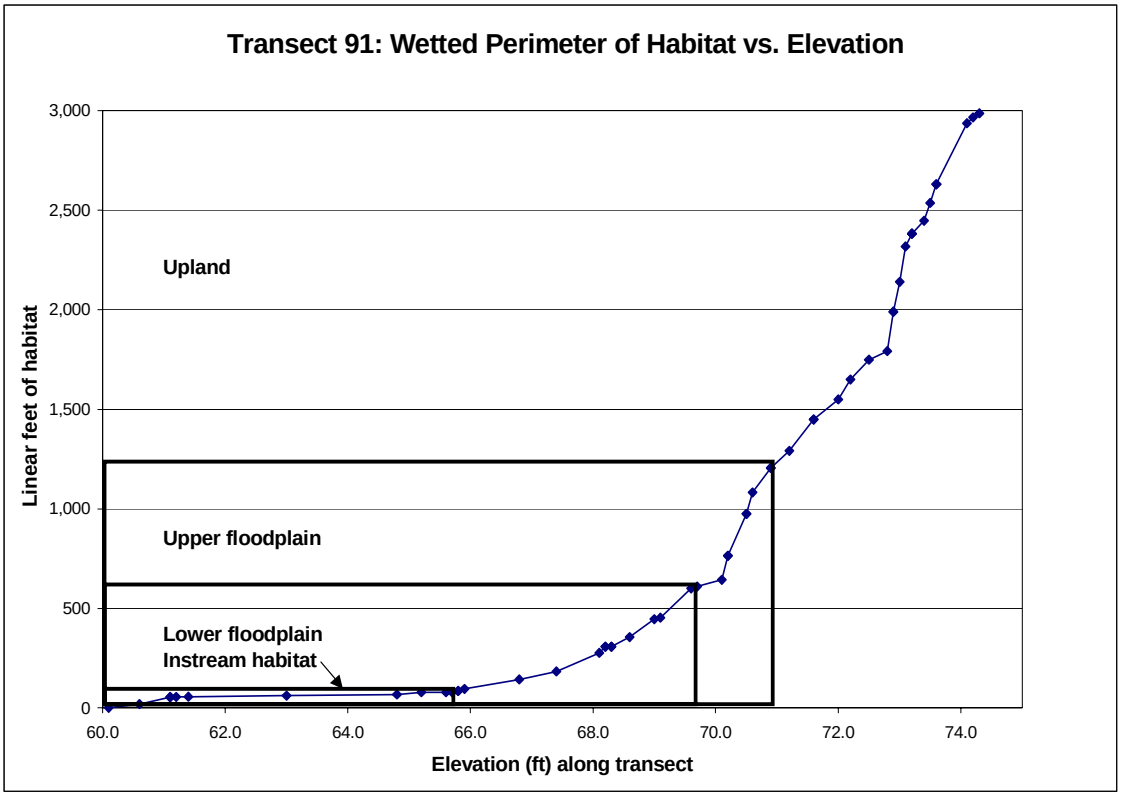

Transect 143: Wetted Perimeter of Habitat vs. Elevation
Linear feet of habitat
1,600
1,400
1,200
1,000
800
600
400
200
0
Upland
Lower floodplain
Mixed swamp
Instream habitat
75.0
80.0
85.0
90.0
95.0
100.0
105.0
110.0
Elevation (ft.) along transect

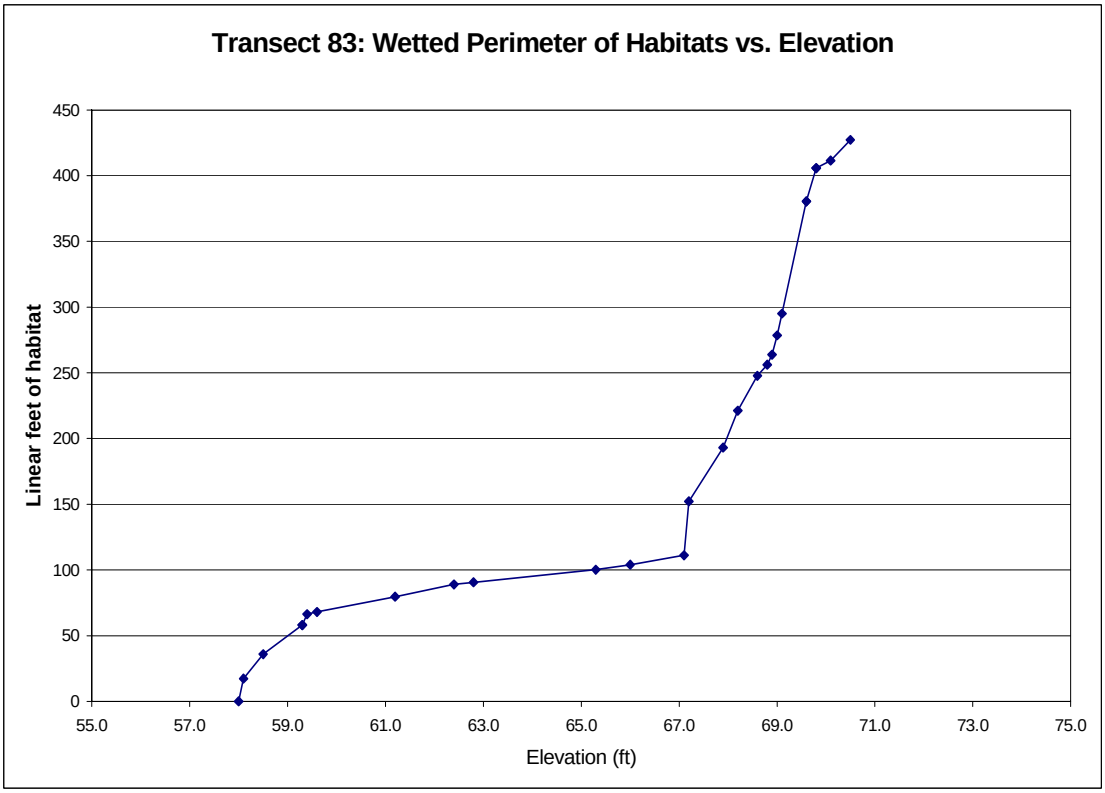

Transect 134: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
2,500
2,000
1,500
1,000
500
0
Upland
Upper floodplain
Lower floodplain
Instream habitat
76.0
77.0
78.0
79.0
80.0
81.0
82.0
83.0
84.0
85.0
86.0
87.0
Elevation (ft.) along transect


Transect 119: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
3,000
2,500
2,000
1,500
1,000
500
0
Upland
Upper floodplain
Lower floodplain
Instream habitat
Mixed Swamp
71.0
72.0
73.0
74.0
75.0
76.0
77.0
78.0
79.0
80.0
81.0
Elevation (ft.) along transect

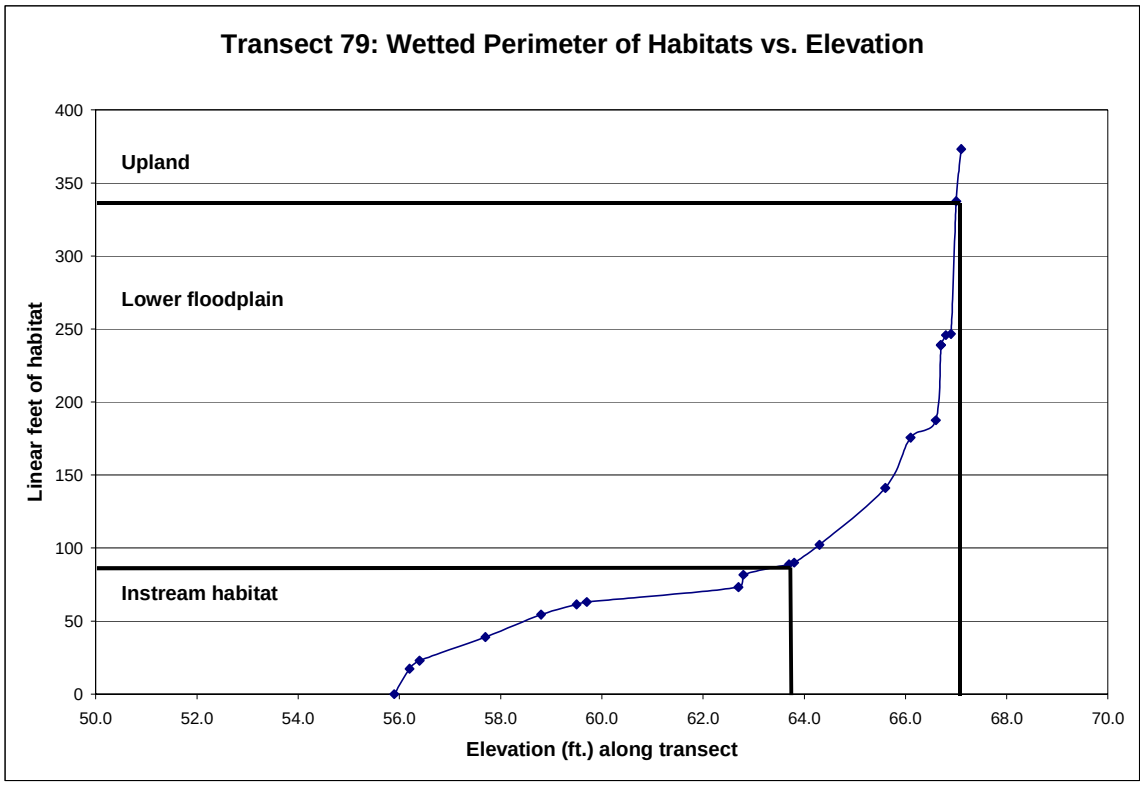

Transect 106: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
3,000
2,500
2,000
1,500
1,000
500
0
Upland
Upper floodplain
Lower floodplain
Instream habitat
64.0
66.0
68.0
70.0
72.0
74.0
76.0
78.0
80.0
Elevation (ft.) along transect

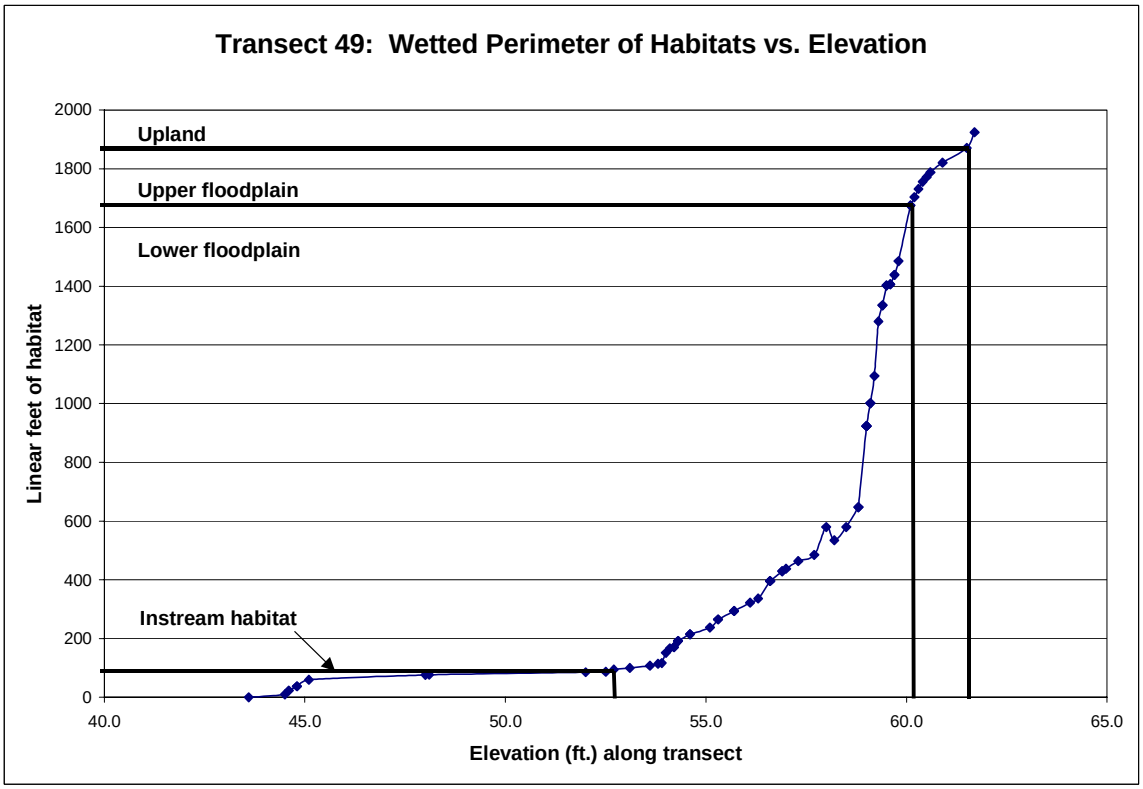

Transect 99: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
1,600
1,400
1,200
1,000
800
600
400
200
0
Upland
Upper floodplain
Lower floodplain
Instream habitat
63.0
64.0
65.0
66.0
67.0
68.0
69.0
70.0
71.0
72.0
73.0
74.0
75.0
76.0
77.0
Elevation (ft) along transect

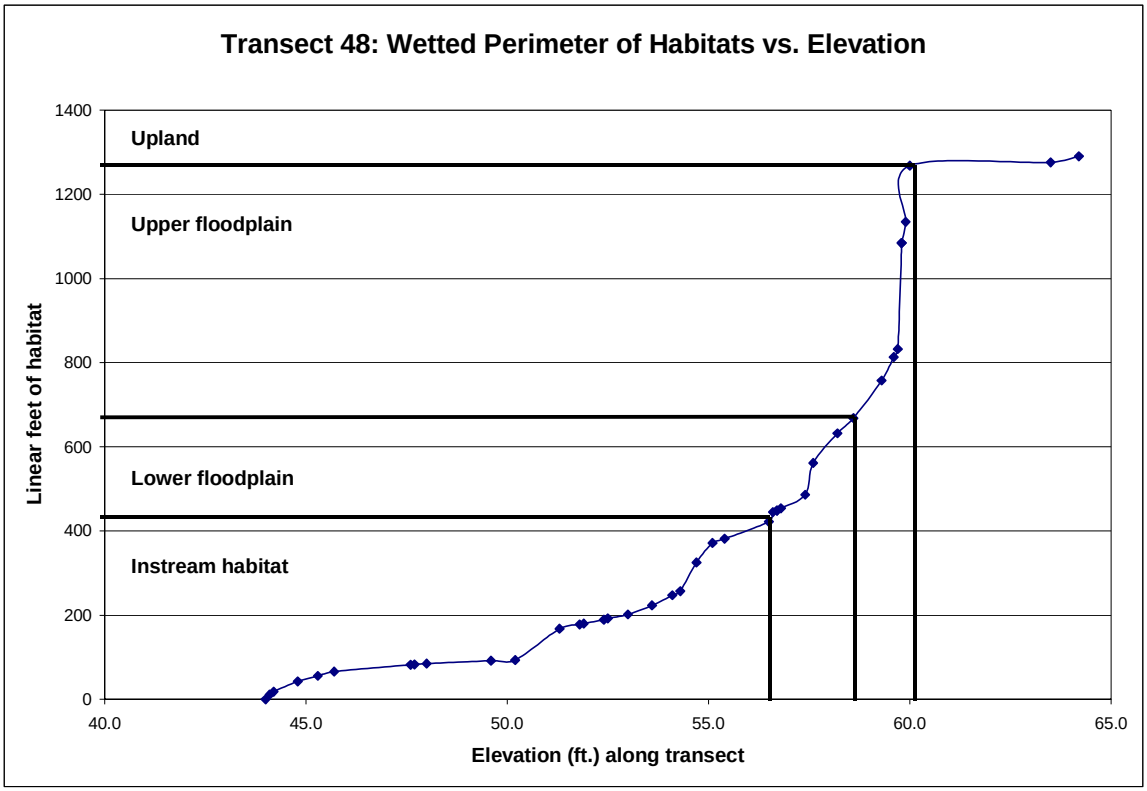


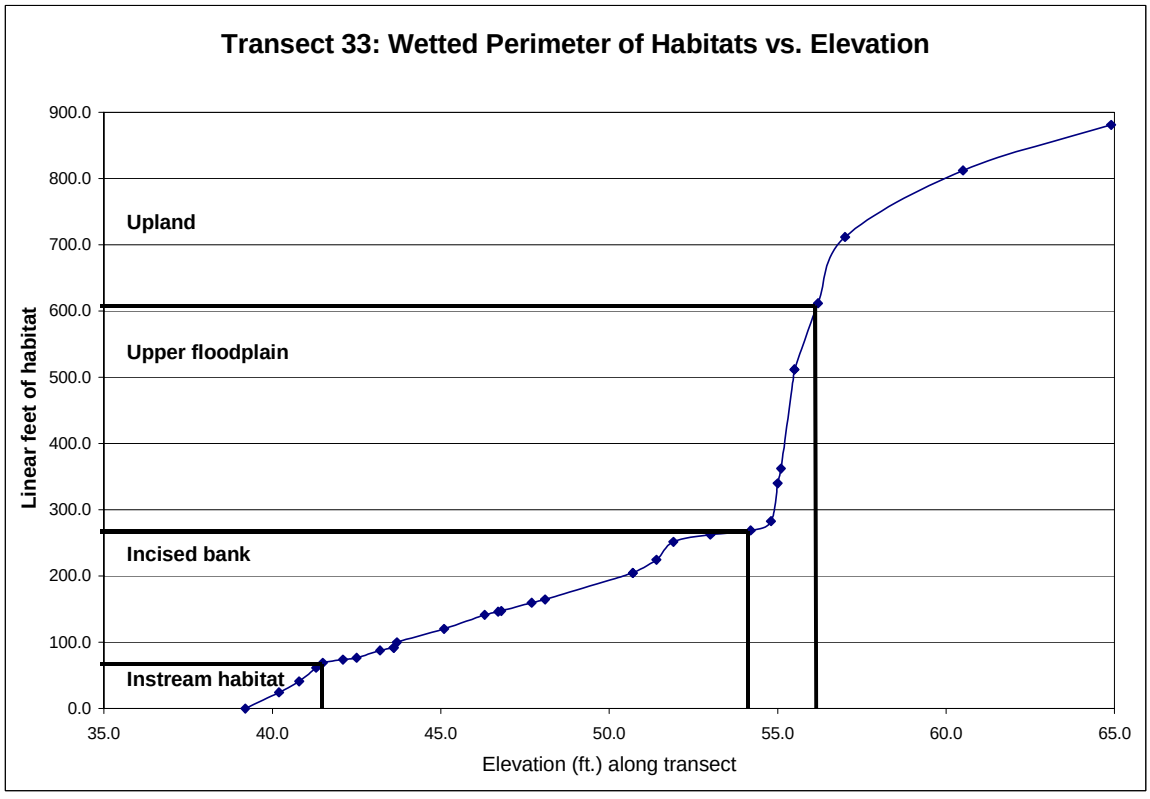


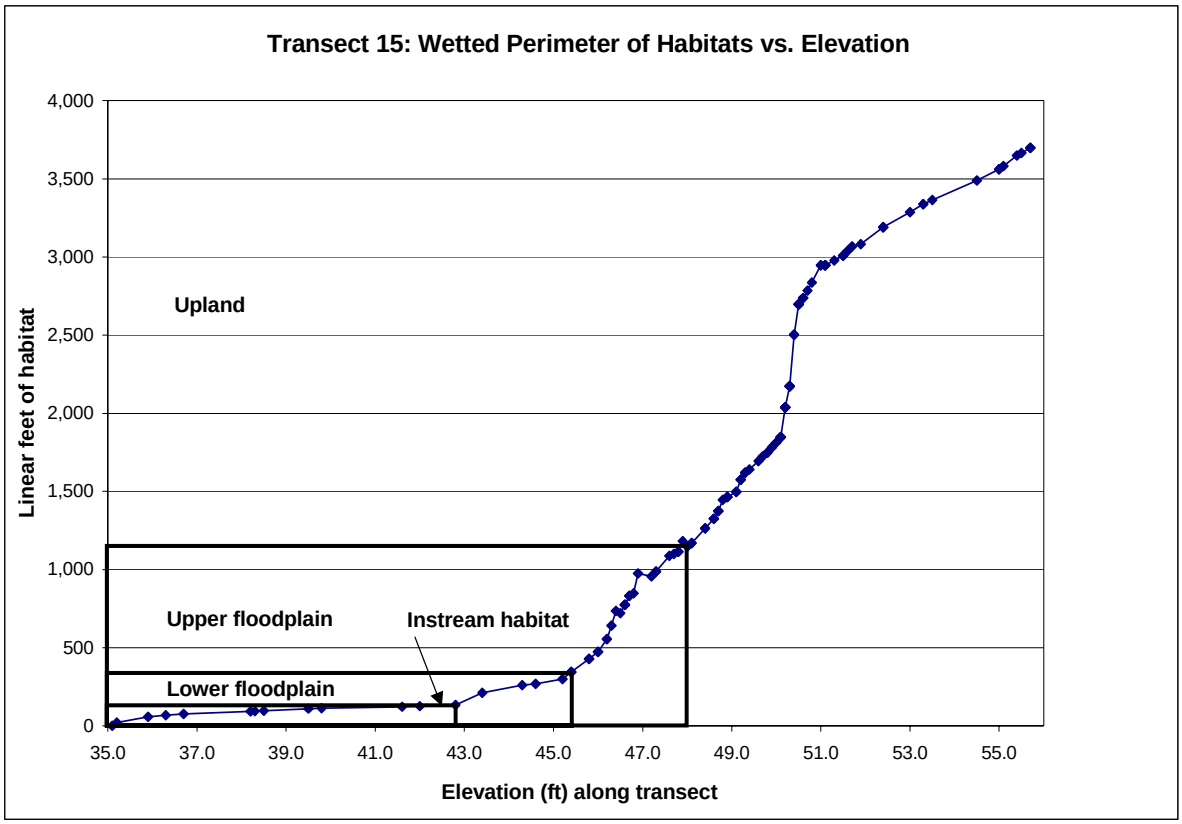
* please note that transect 83 was only used for instream habitat analysis - it was designated as a backup riparian habitat site but was not used

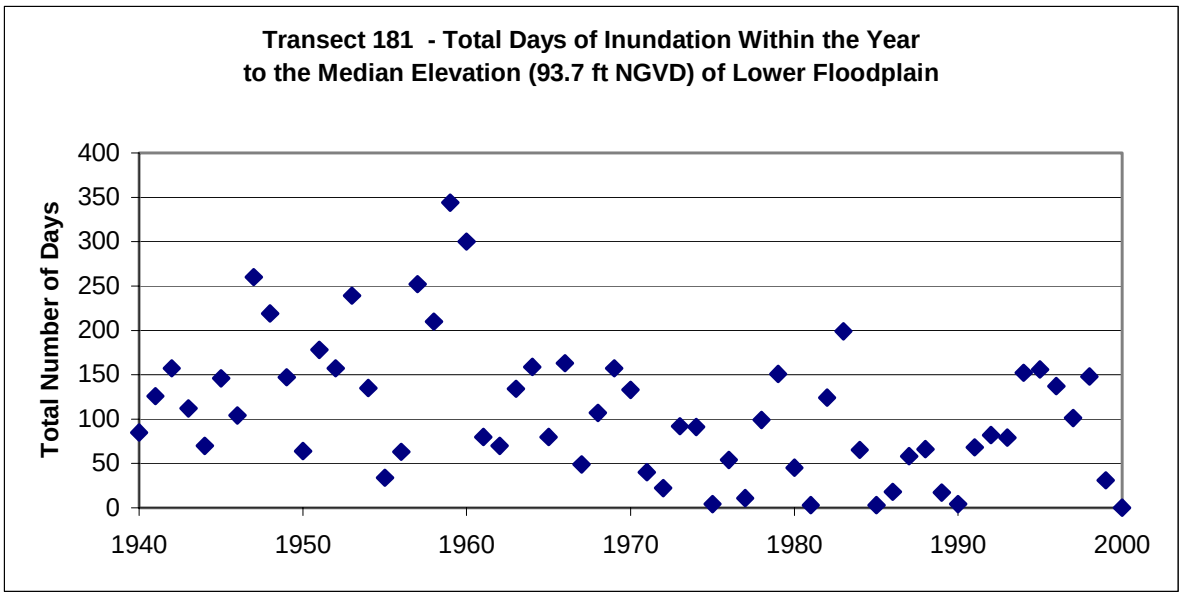

Transect 79: Wetted Perimeter of Habitats vs. Elevation
Upland
Lower floodplain
Instream habitat
Linear feet of habitat
Elevation (ft.) along transect
0
50
100
150
200
250
300
350
400
50.0
52.0
54.0
56.0
58.0
60.0
62.0
64.0
66.0
68.0
70.0

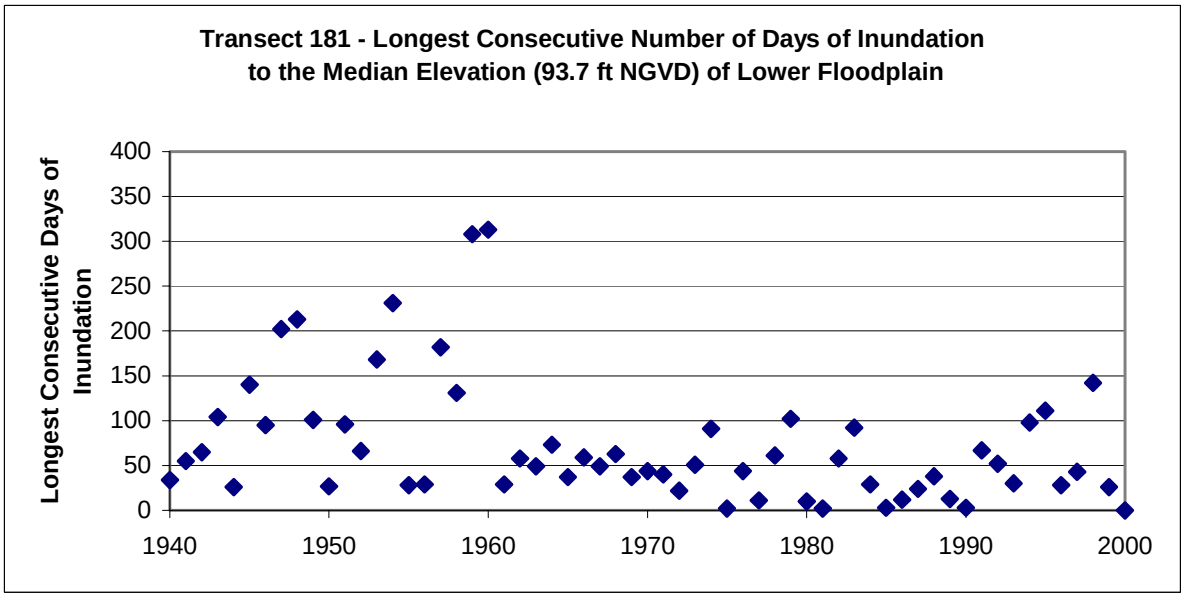

Transect 49: Wetted Perimeter of Habitats vs. Elevation
Upland
Upper floodplain
Lower floodplain
Instream habitat
Linear feet of habitat
Elevation (ft.) along transect
0
200
400
600
800
1000
1200
1400
1600
1800
2000
40.0
45.0
50.0
55.0
60.0
65.0

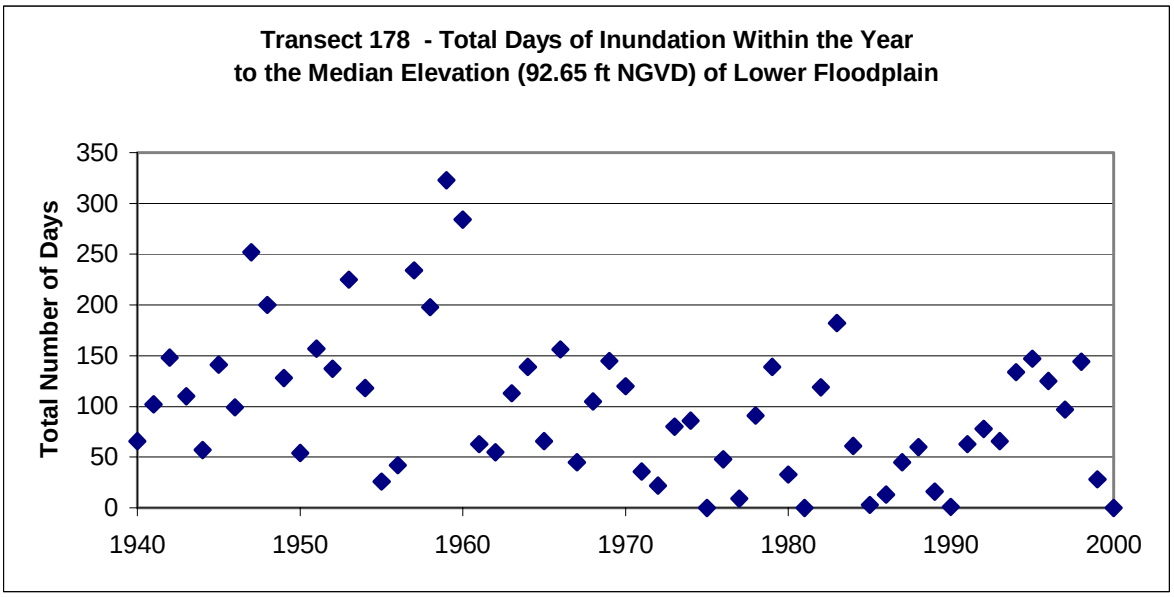

Transect 48: Wetted Perimeter of Habitats vs. Elevation
Upland
Upper floodplain
Lower floodplain
Instream habitat
Linear feet of habitat
Elevation (ft.) along transect
0
200
400
600
800
1000
1200
1400
40.0
45.0
50.0
55.0
60.0
65.0

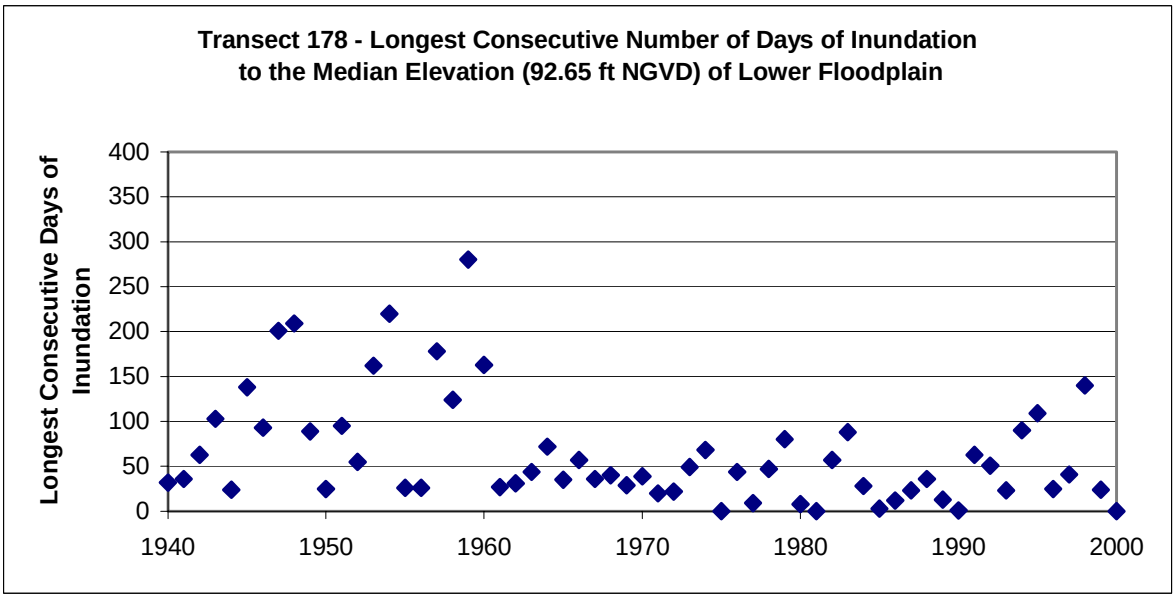

Transect 33: Wetted Perimeter of Habitats vs. Elevation
Upland
Upper floodplain
Incised bank
Instream habitat
Linear feet of habitat
Elevation (ft.) along transect
0.0
100.0
200.0
300.0
400.0
500.0
600.0
700.0
800.0
900.0
35.0
40.0
45.0
50.0
55.0
60.0
65.0

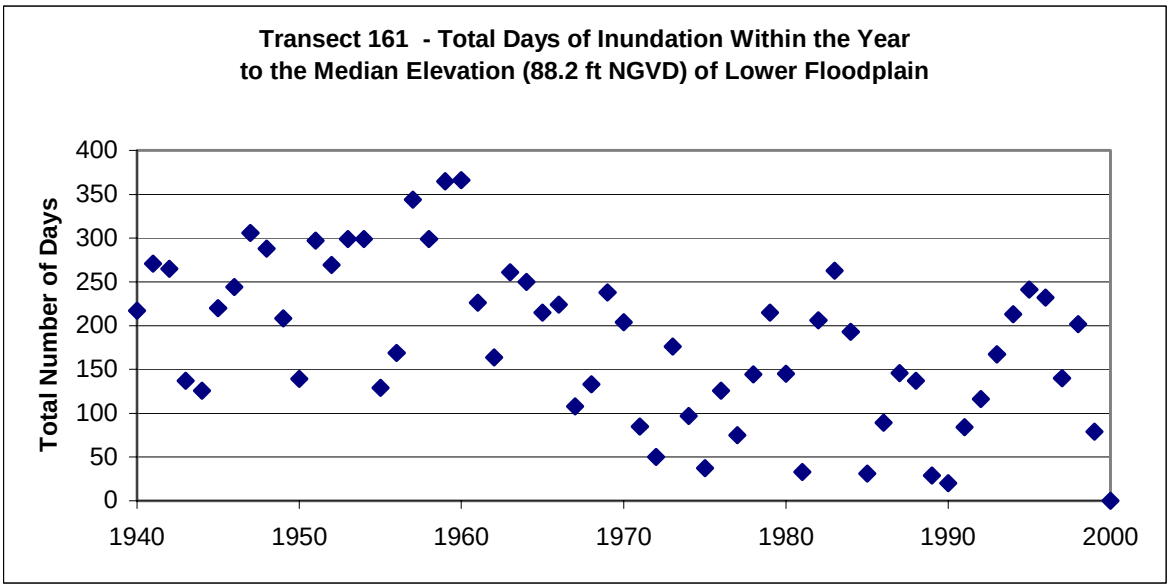

Transect 15: Wetted Perimeter of Habitats vs. Elevation
Linear feet of habitat
4,000
3,500
3,000
2,500
2,000
1,500
1,000
500
0
Upland
Upper floodplain
Instream habitat
Lower floodplain
35.0
37.0
39.0
41.0
43.0
45.0
47.0
49.0
51.0
53.0
55.0
Elevation (ft) along transect

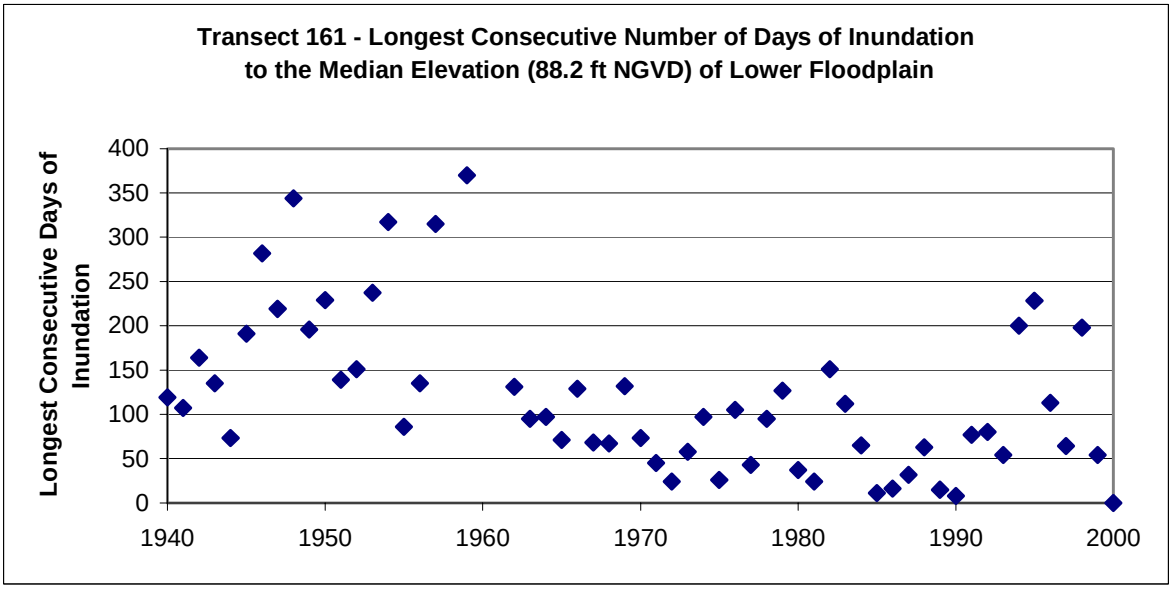

Transect 181 - Total Days of Inundation Within the Year
to the Median Elevation (93.7 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

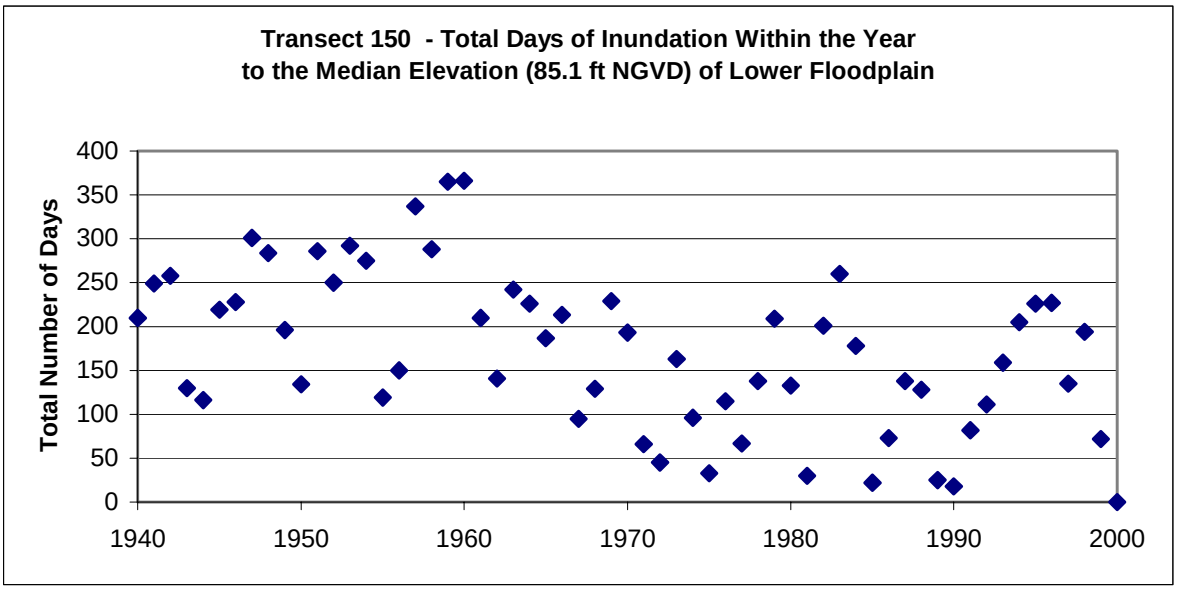

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (93.7 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

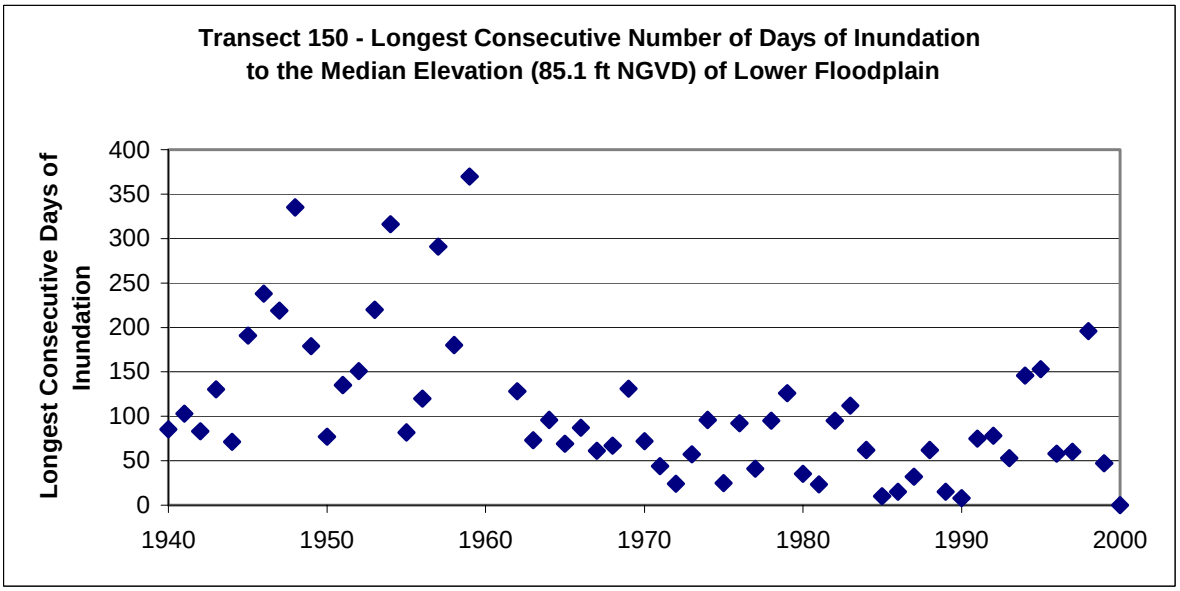

Transect 178 - Total Days of Inundation Within the Year
to the Median Elevation (92.65 ft NGVD) of Lower Floodplain
Total Number of Days
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

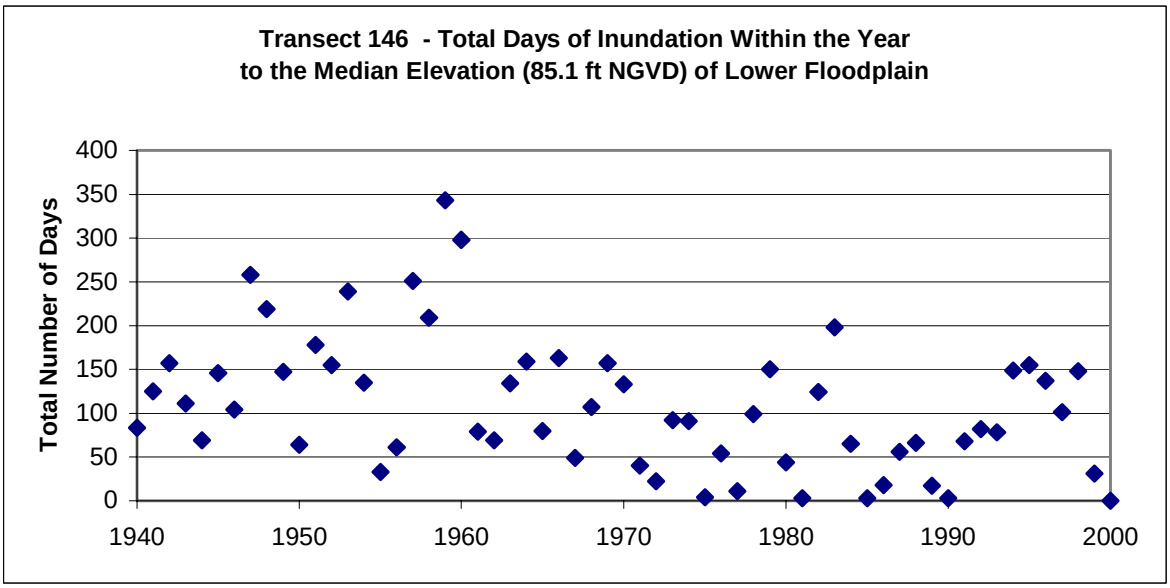

Transect 178 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (92.65 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

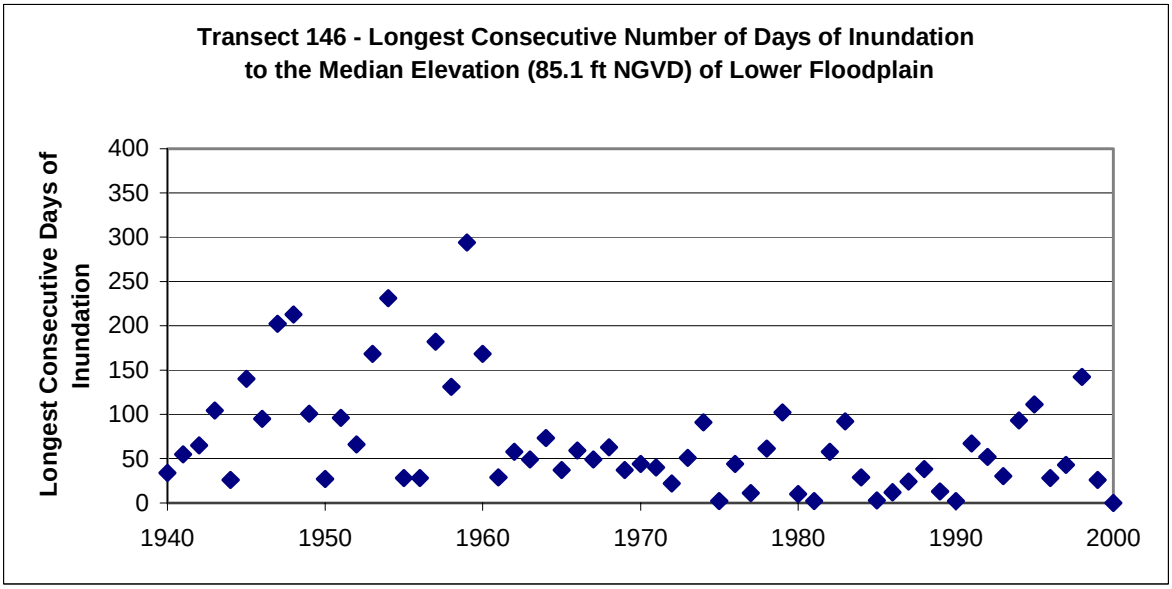

Transect 161 - Total Days of Inundation Within the Year
to the Median Elevation (88.2 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

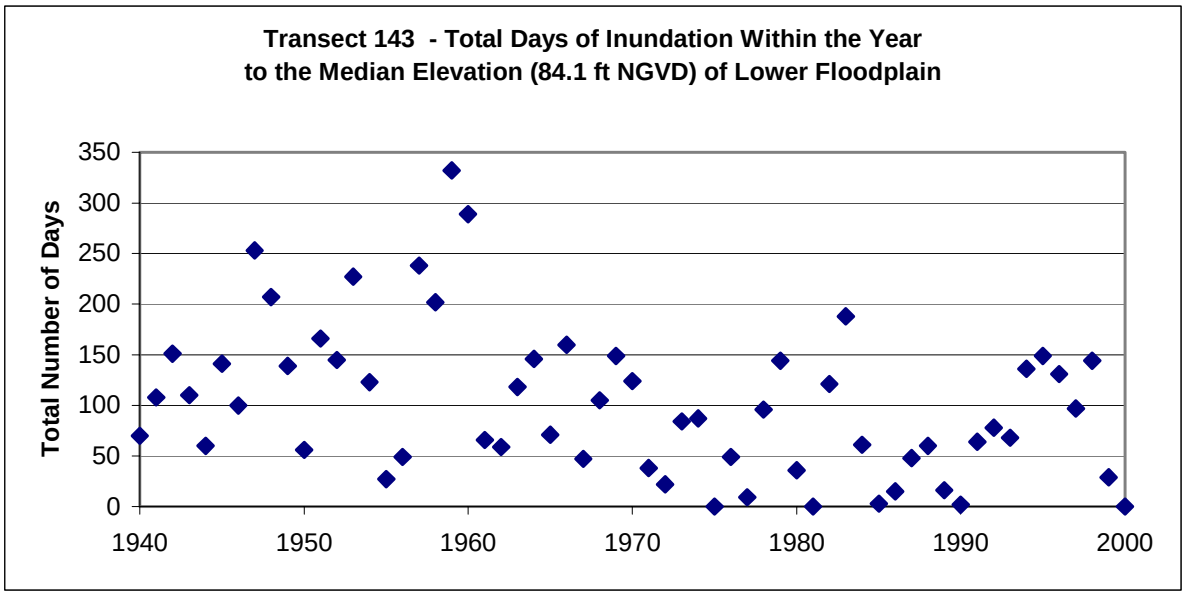

Transect 161 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (88.2 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

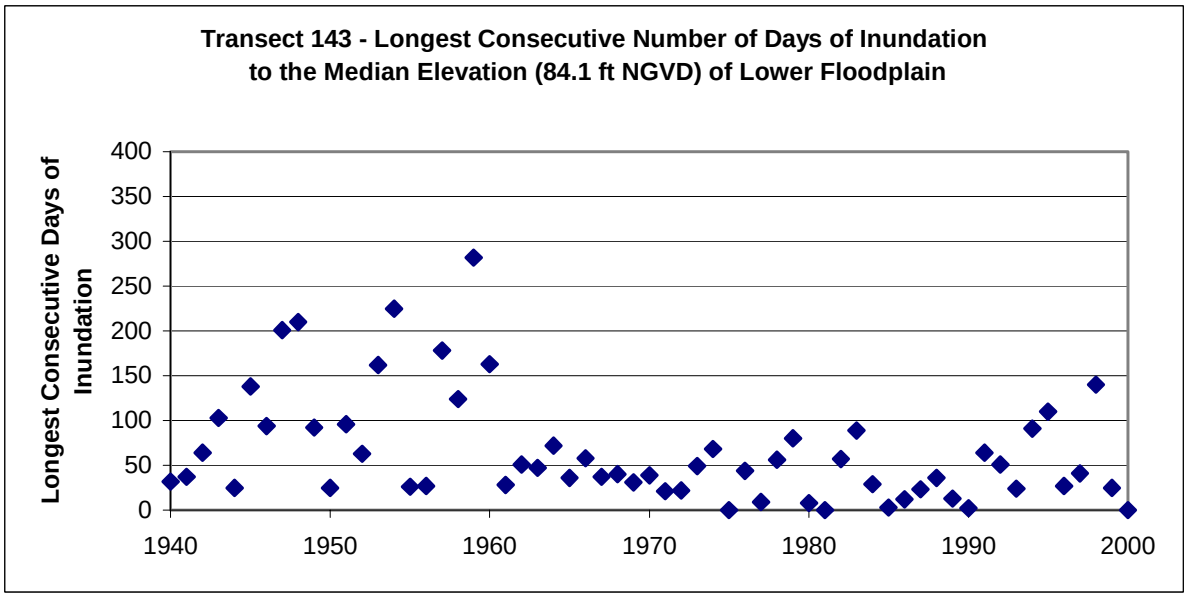

Transect 150 - Total Days of Inundation Within the Year
to the Median Elevation (85.1 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

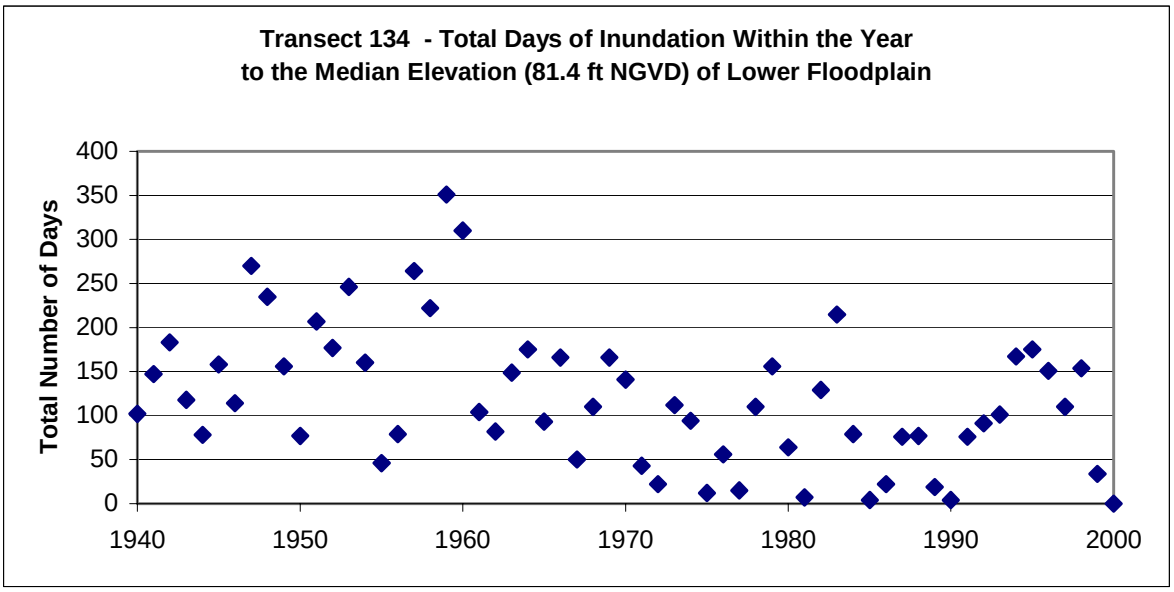

Transect 150 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (85.1 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

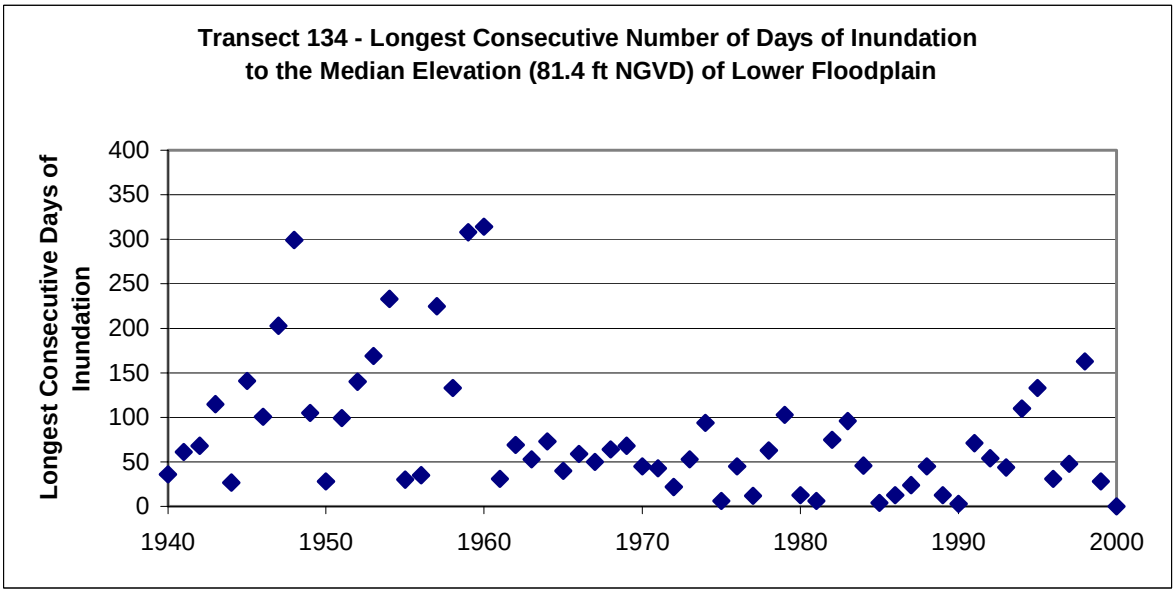

Transect 146 - Total Days of Inundation Within the Year
to the Median Elevation (85.1 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

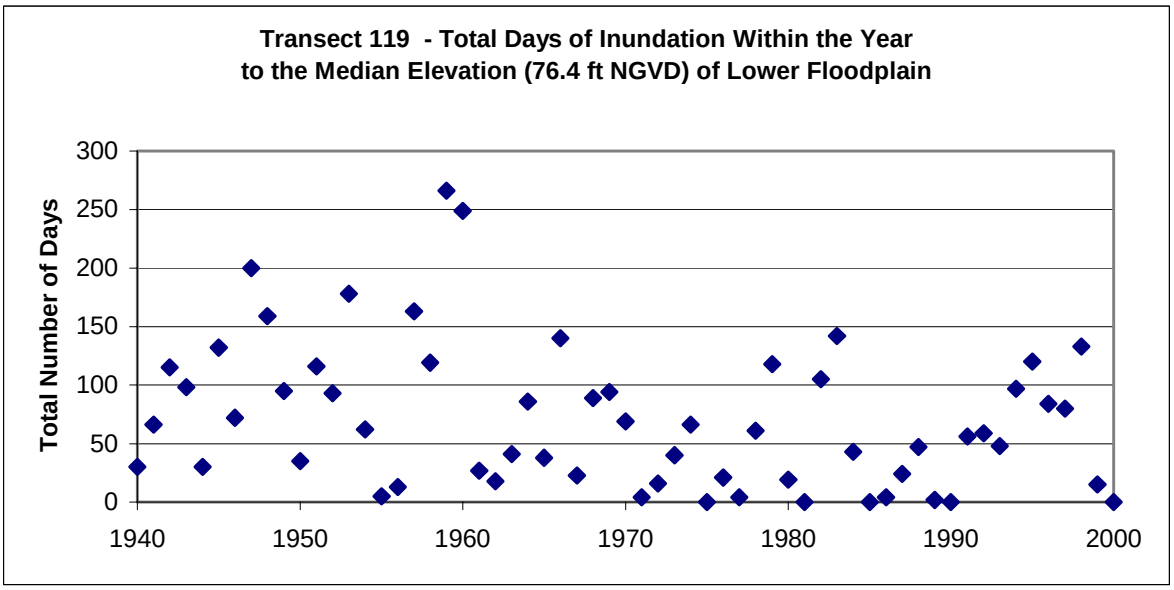

Transect 146 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (85.1 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

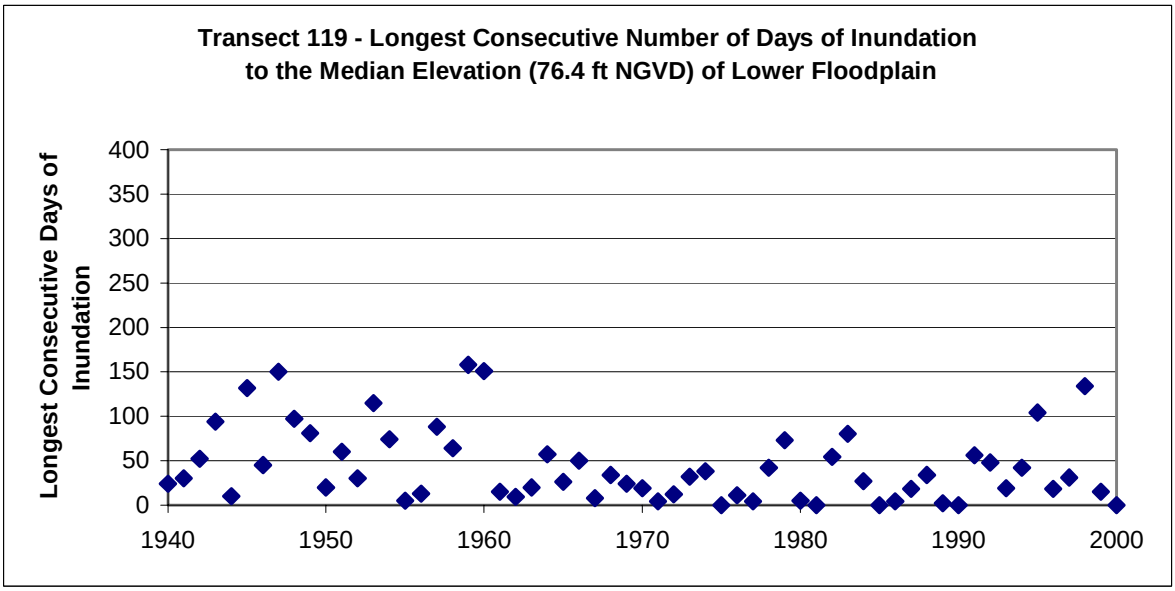

Transect 143 - Total Days of Inundation Within the Year
to the Median Elevation (84.1 ft NGVD) of Lower Floodplain
Total Number of Days
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

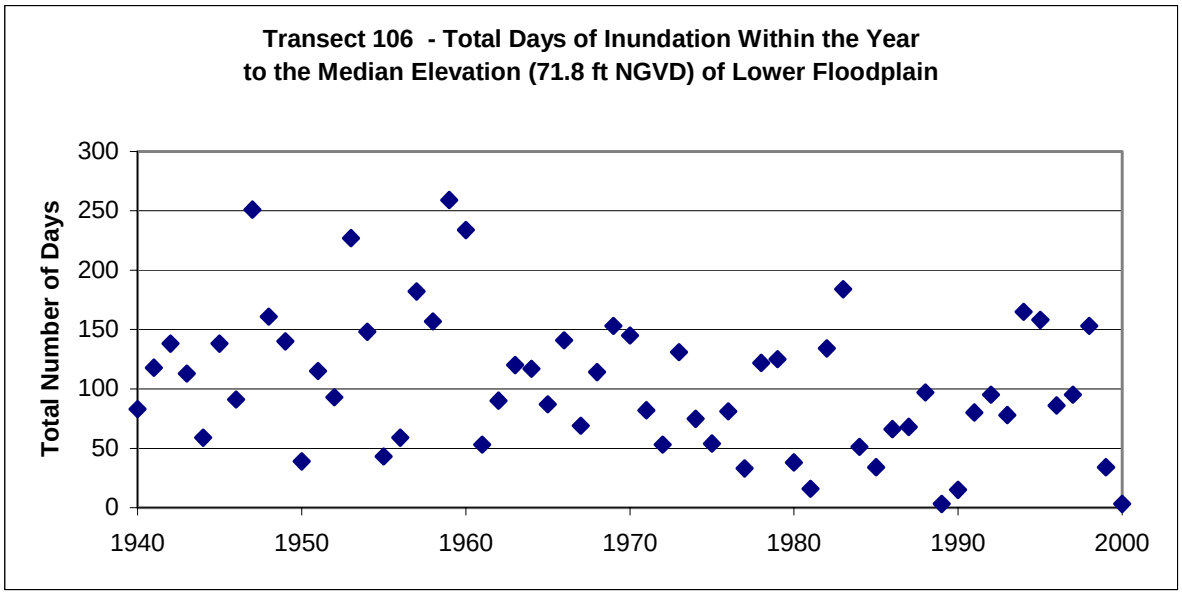

Transect 143 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (84.1 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

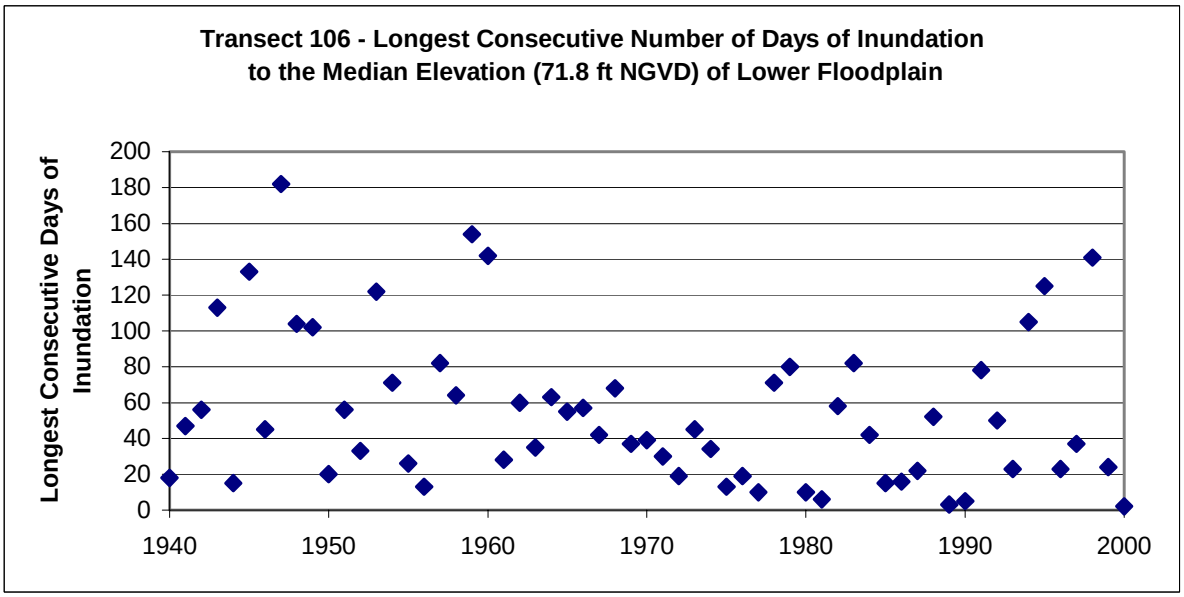

Transect 134 - Total Days of Inundation Within the Year
to the Median Elevation (81.4 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

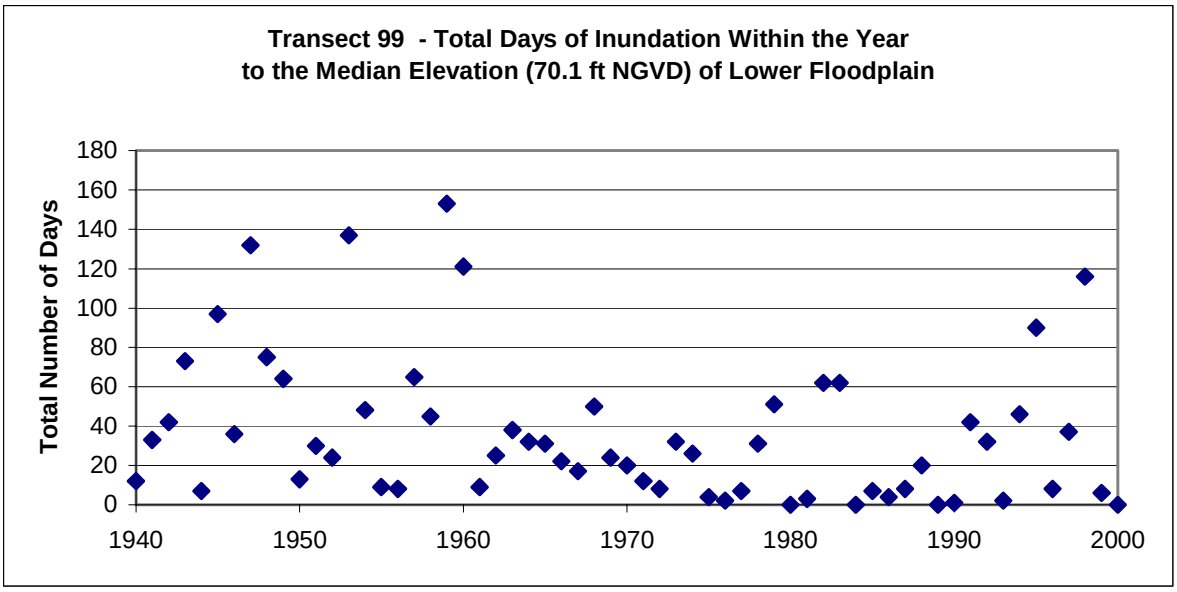

Transect 134 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (81.4 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

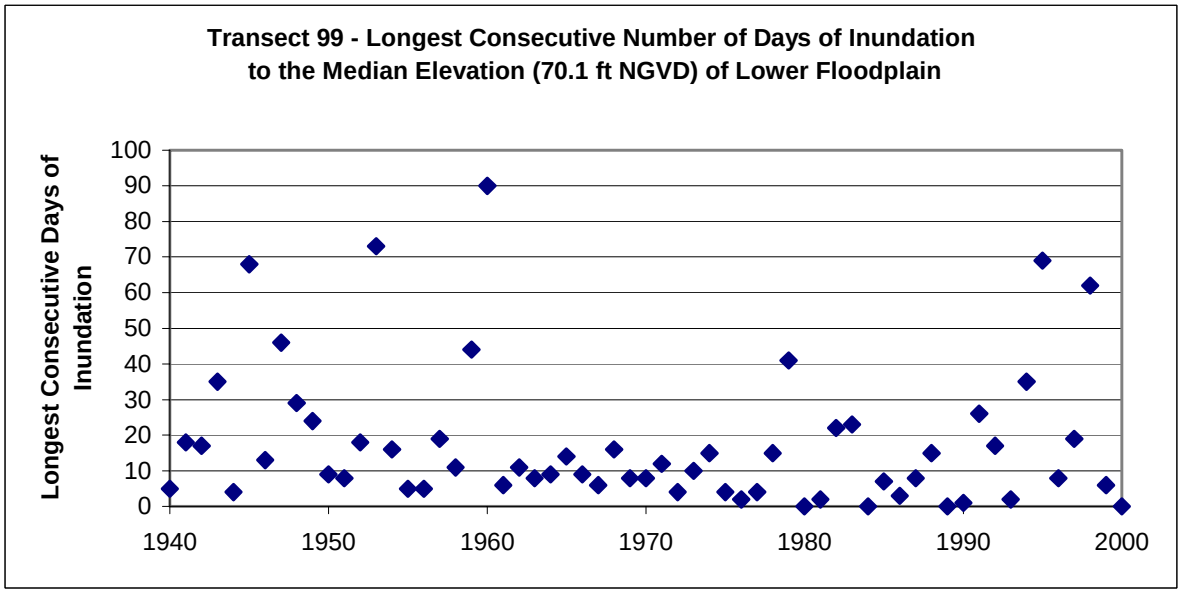

Transect 119 - Total Days of Inundation Within the Year
to the Median Elevation (76.4 ft NGVD) of Lower Floodplain
Total Number of Days
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

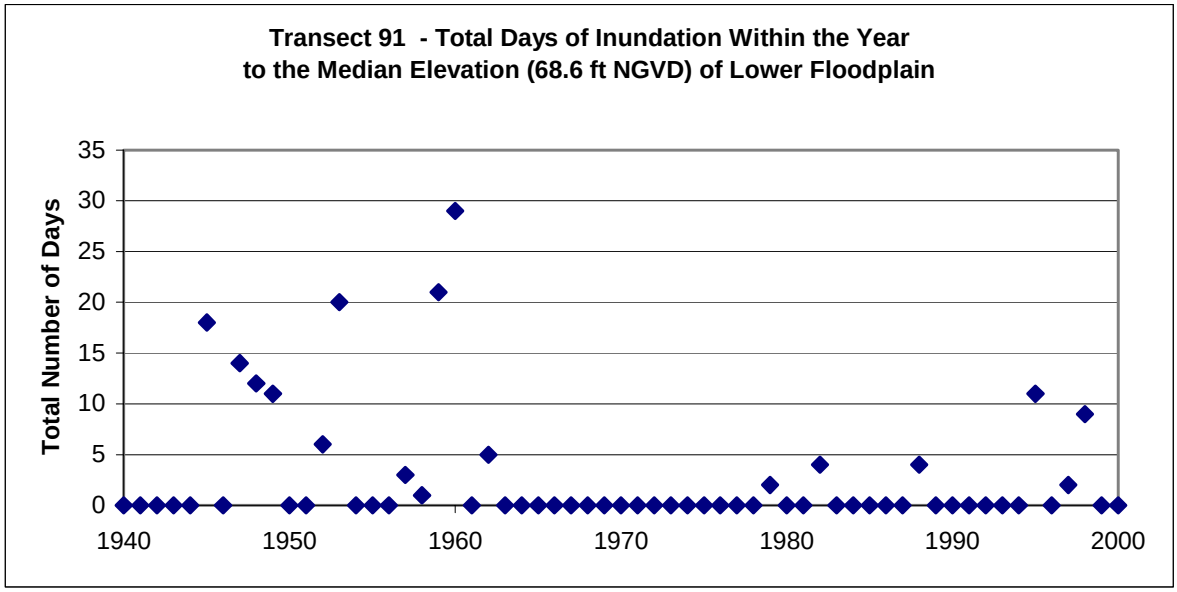

Transect 119 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (76.4 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

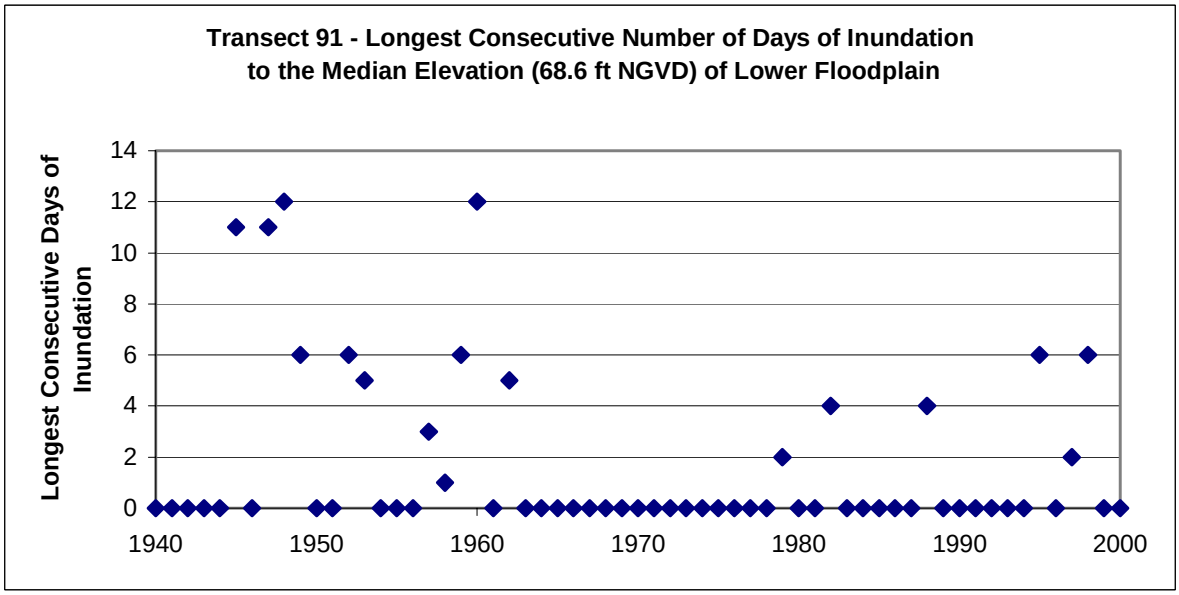

Transect 106 - Total Days of Inundation Within the Year
to the Median Elevation (71.8 ft NGVD) of Lower Floodplain
Total Number of Days
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

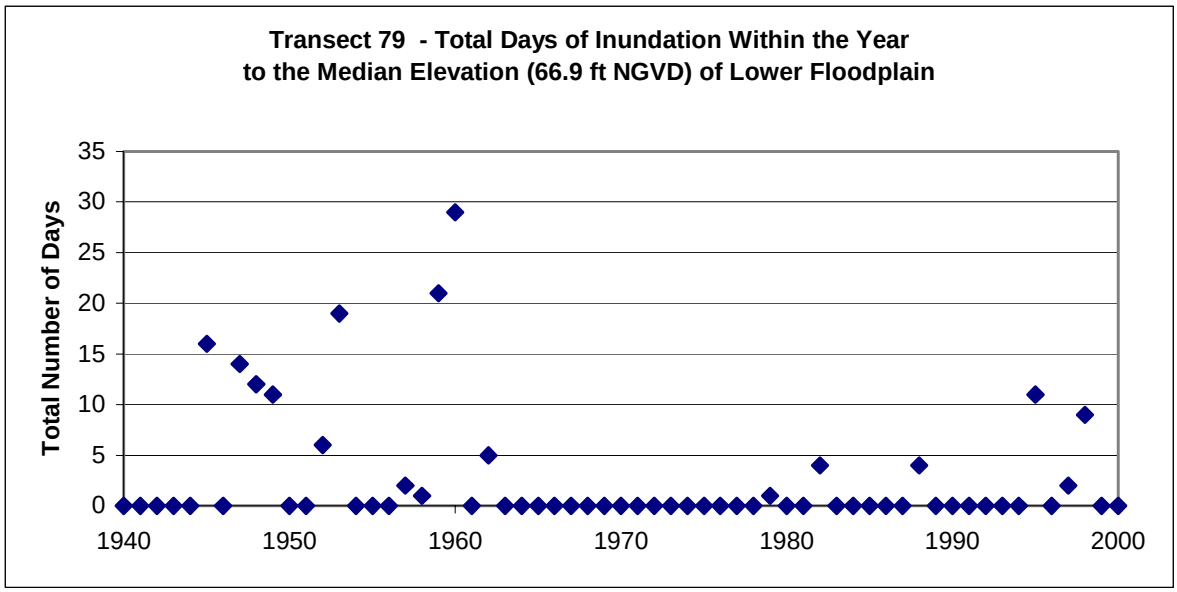

Transect 106 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (71.8 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
200
180
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

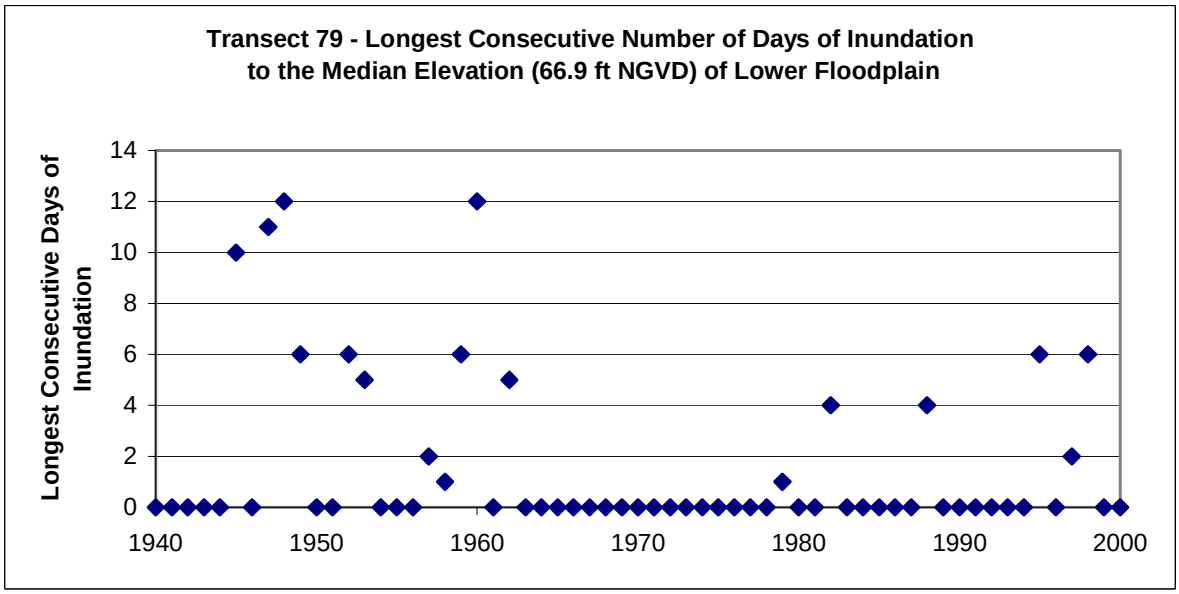

Transect 99 - Total Days of Inundation Within the Year
to the Median Elevation (70.1 ft NGVD) of Lower Floodplain
Total Number of Days
180
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

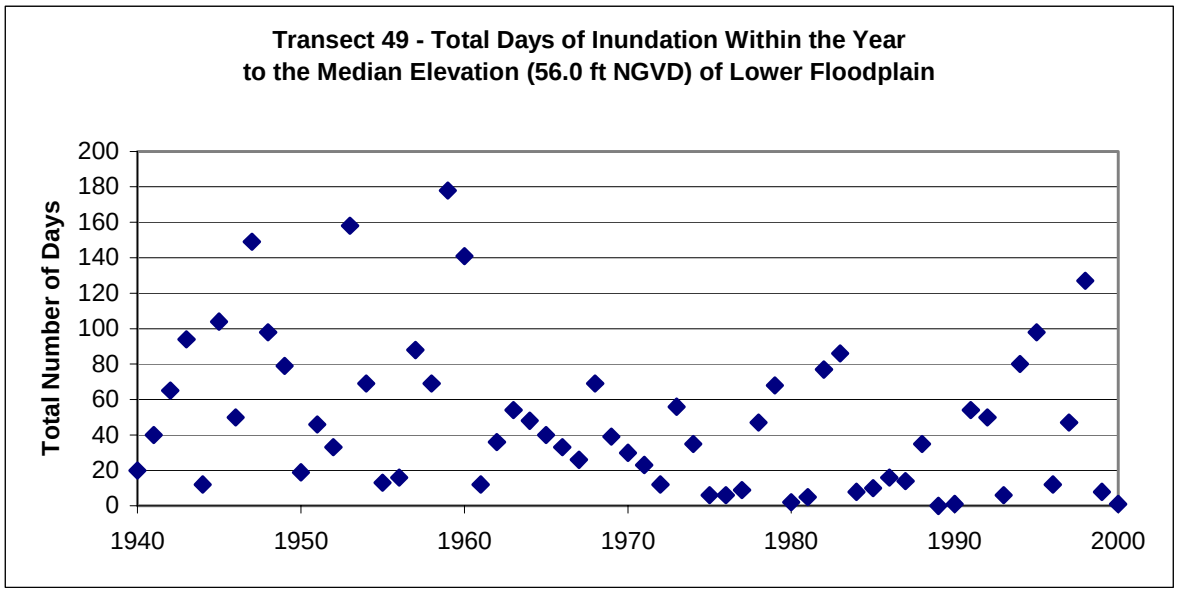

Transect 99 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (70.1 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
100
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

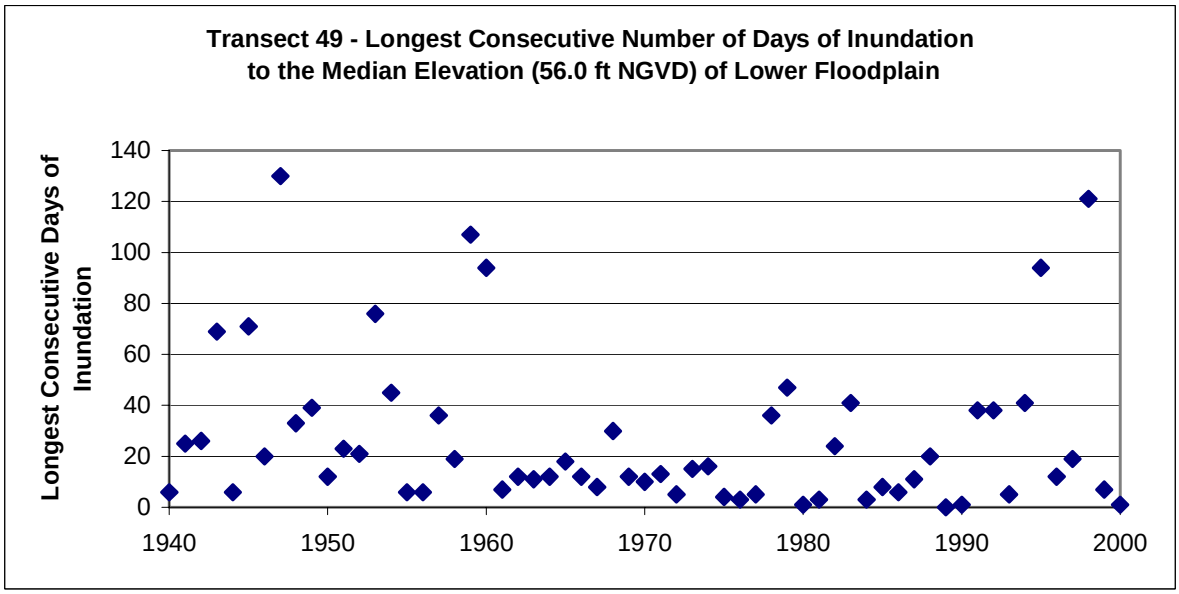

Transect 91 - Total Days of Inundation Within the Year
to the Median Elevation (68.6 ft NGVD) of Lower Floodplain
Total Number of Days
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

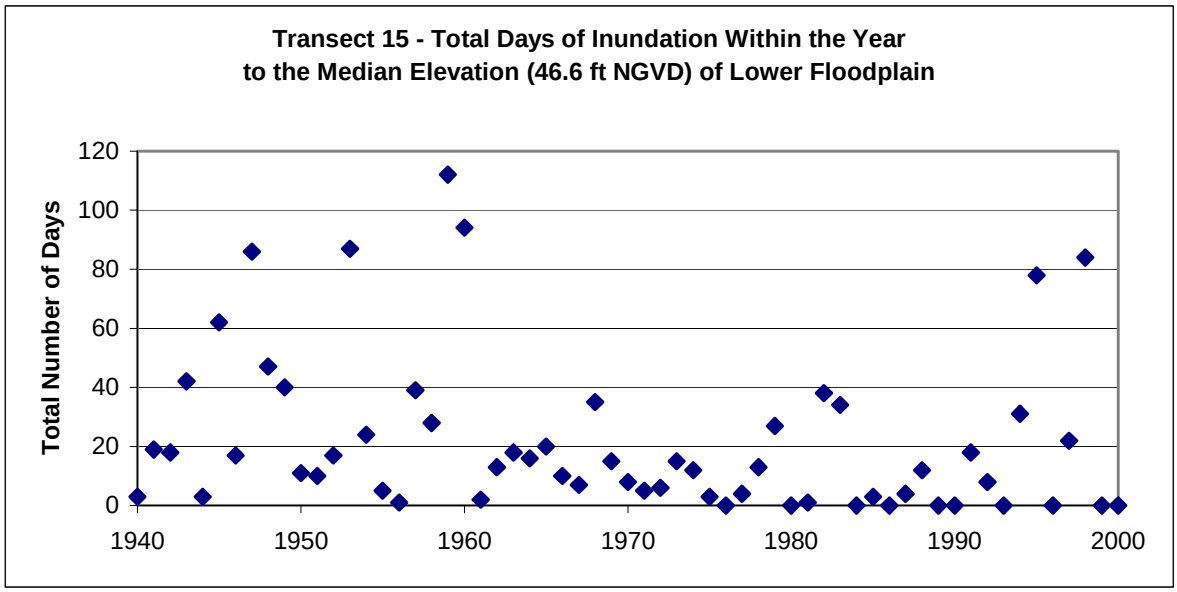

Transect 91 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (68.6 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
14
12
10
8
6
4
2
0
1940
1950
1960
1970
1980
1990
2000

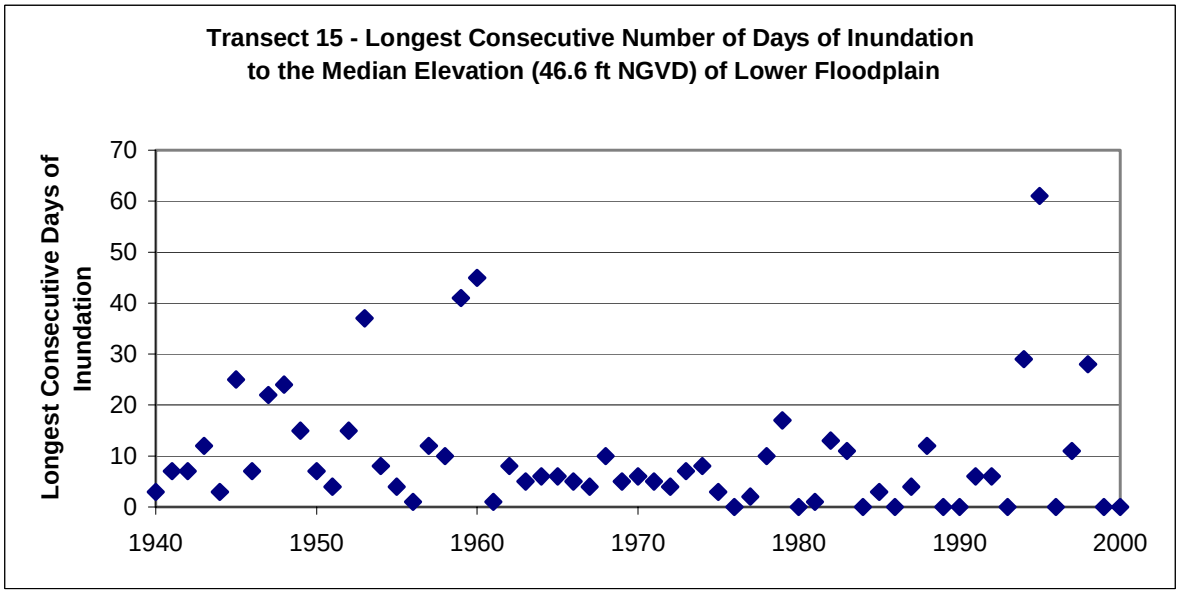

Transect 79 - Total Days of Inundation Within the Year
to the Median Elevation (66.9 ft NGVD) of Lower Floodplain
Total Number of Days
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

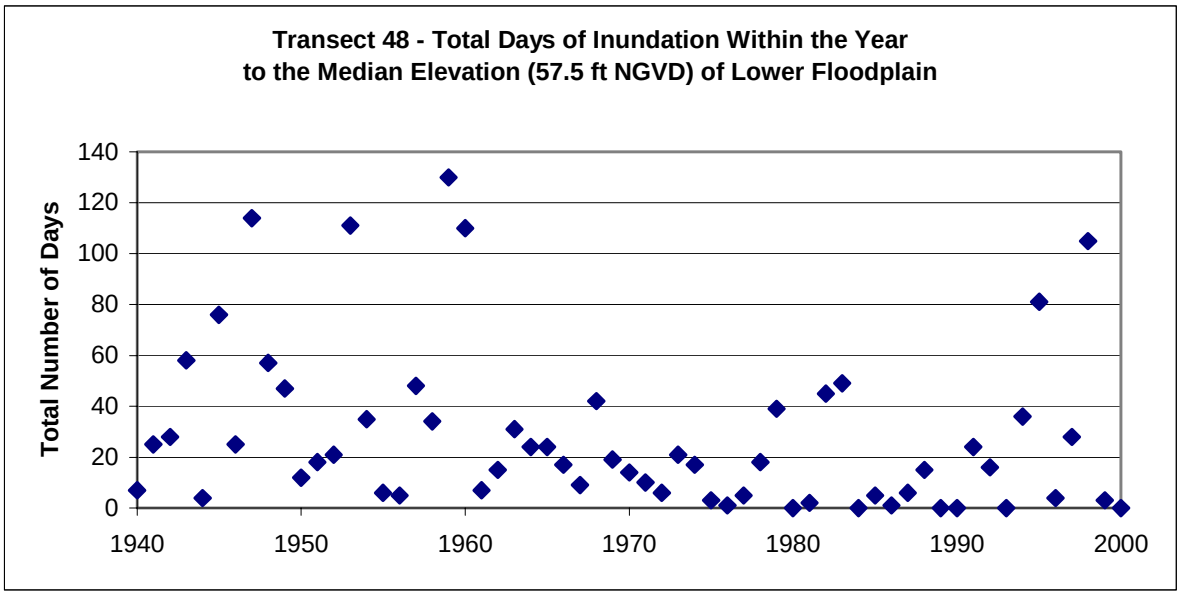

Transect 79 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (66.9 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
14
12
10
8
6
4
2
0
1940
1950
1960
1970
1980
1990
2000

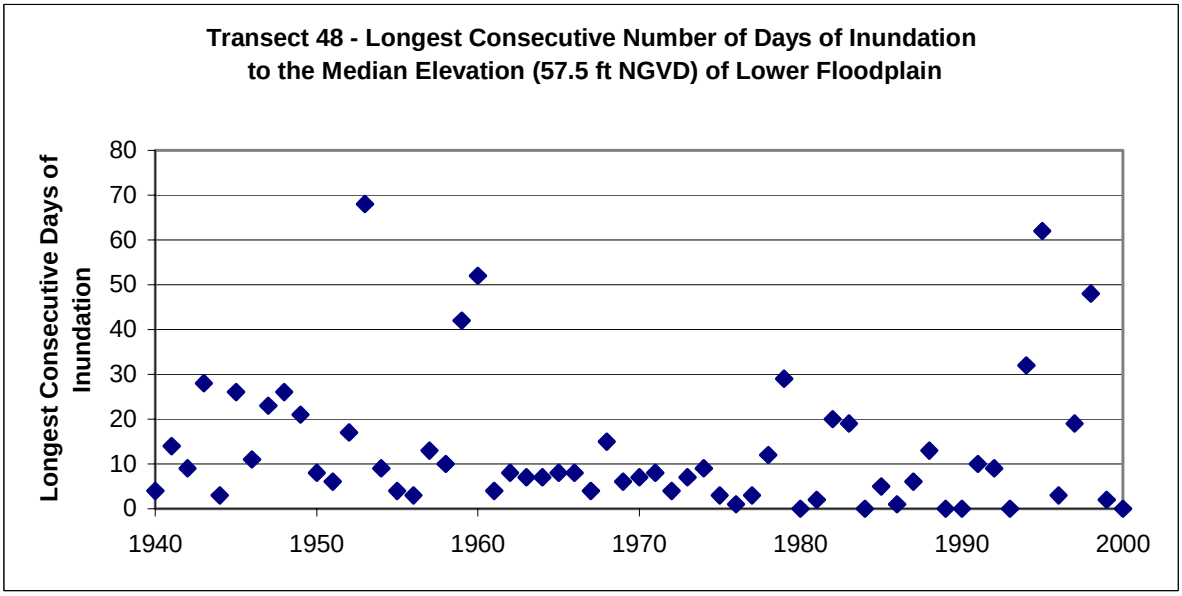

Transect 49 - Total Days of Inundation Within the Year
to the Median Elevation (56.0 ft NGVD) of Lower Floodplain
Total Number of Days
200
180
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

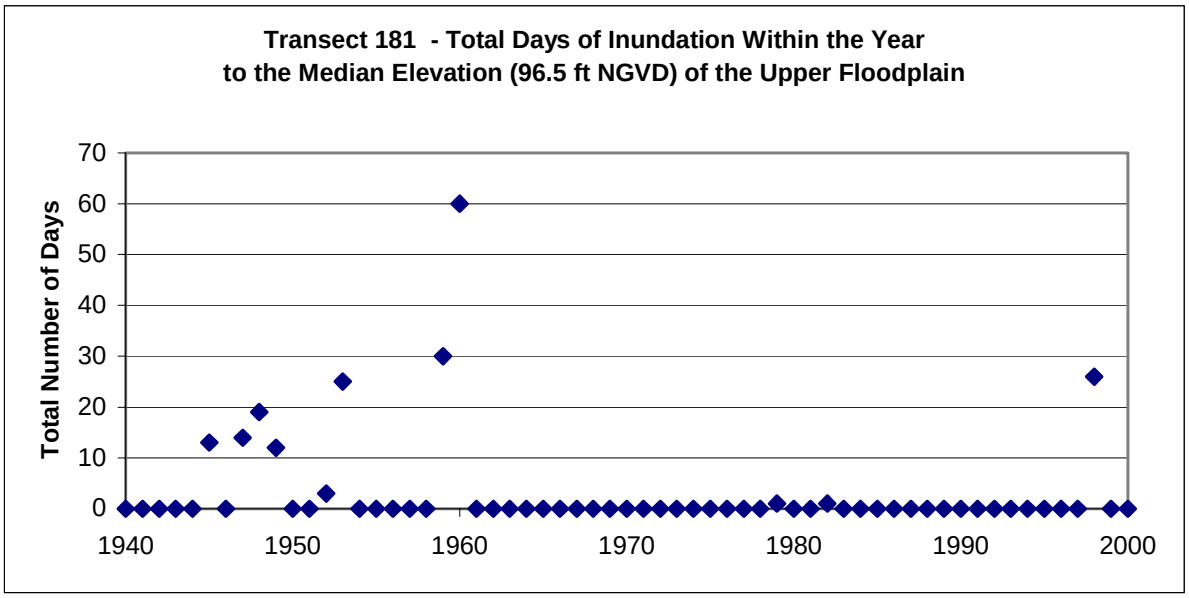

Transect 49 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (56.0 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

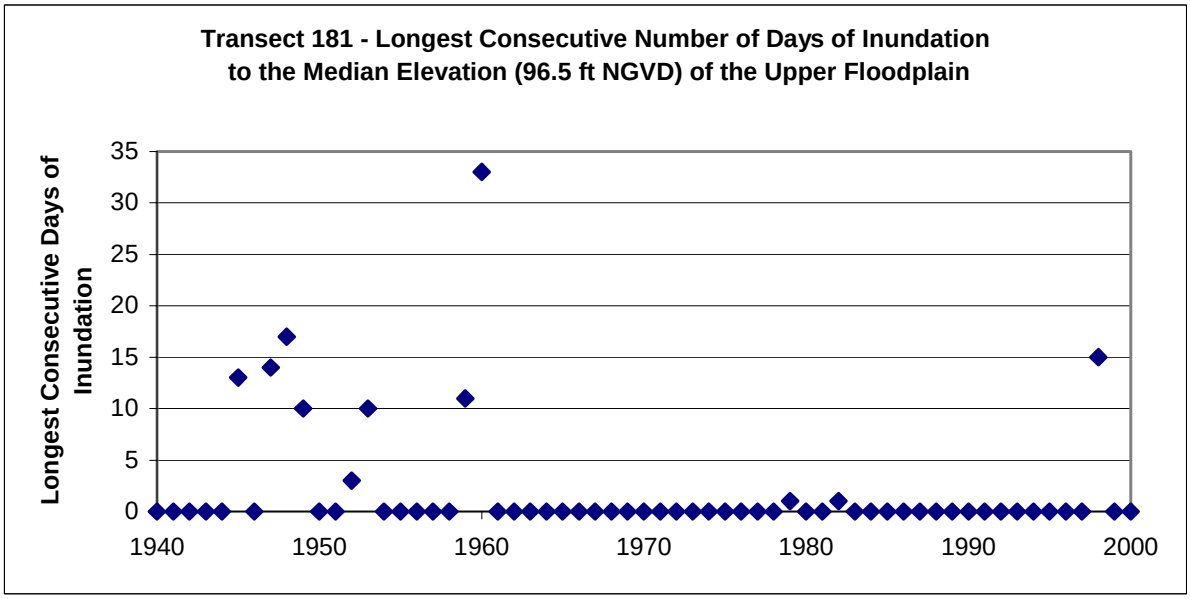

Transect 15 - Total Days of Inundation Within the Year
to the Median Elevation (46.6 ft NGVD) of Lower Floodplain
Total Number of Days
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

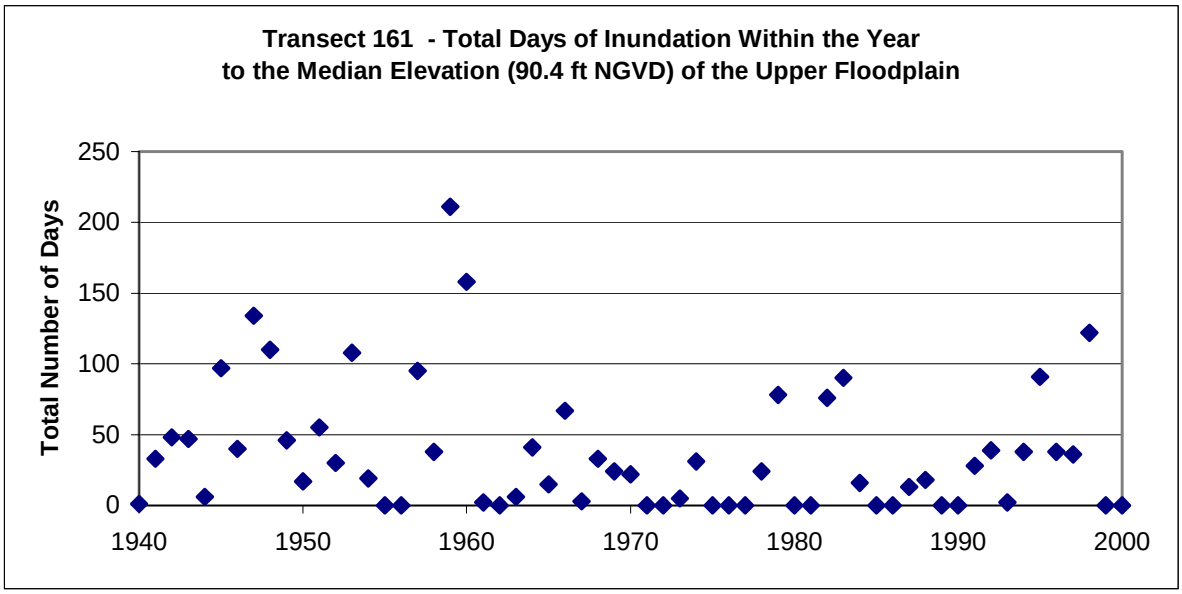

Transect 15 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (46.6 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

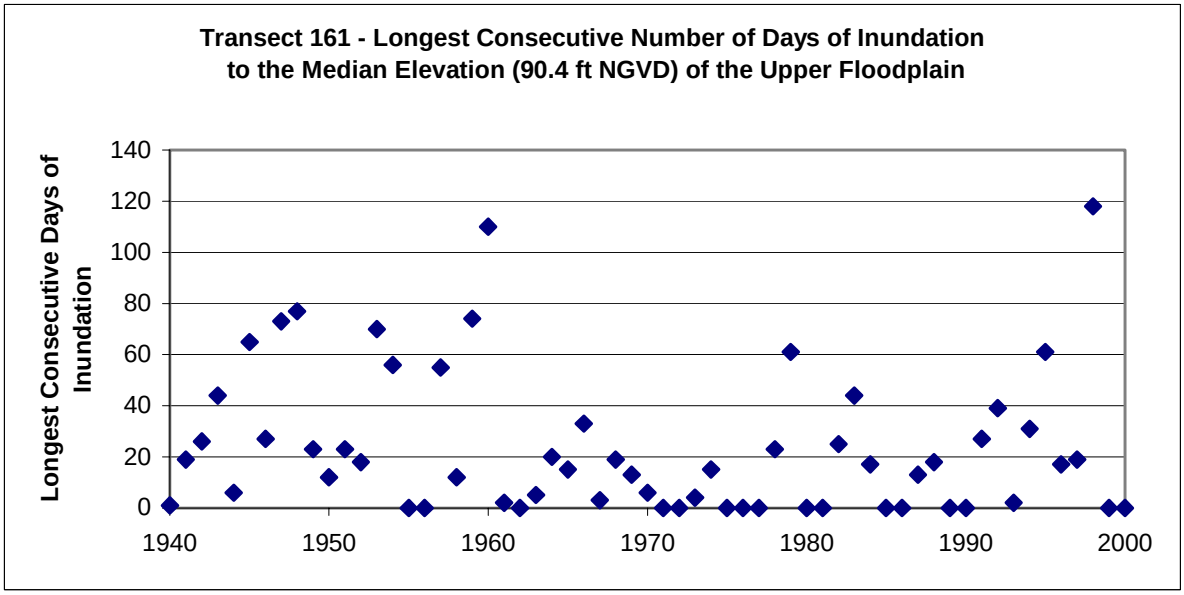

Transect 48 - Total Days of Inundation Within the Year
to the Median Elevation (57.5 ft NGVD) of Lower Floodplain
Total Number of Days
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

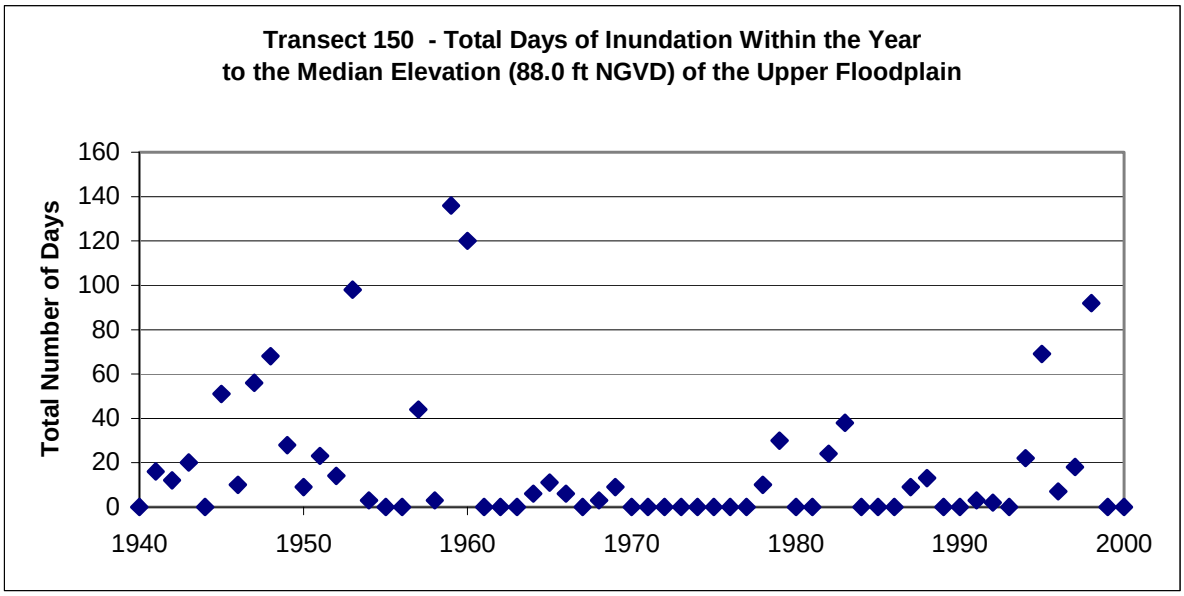

Transect 48 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (57.5 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

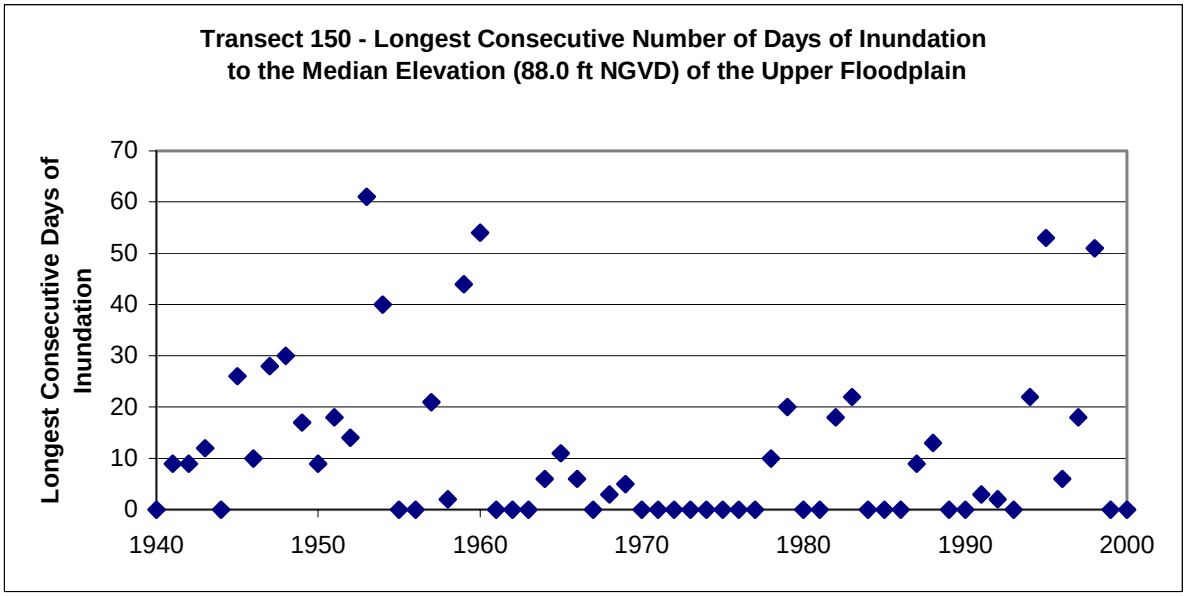

Transect 181 - Total Days of Inundation Within the Year
to the Median Elevation (96.5 ft NGVD) of the Upper Floodplain
Total Number of Days
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

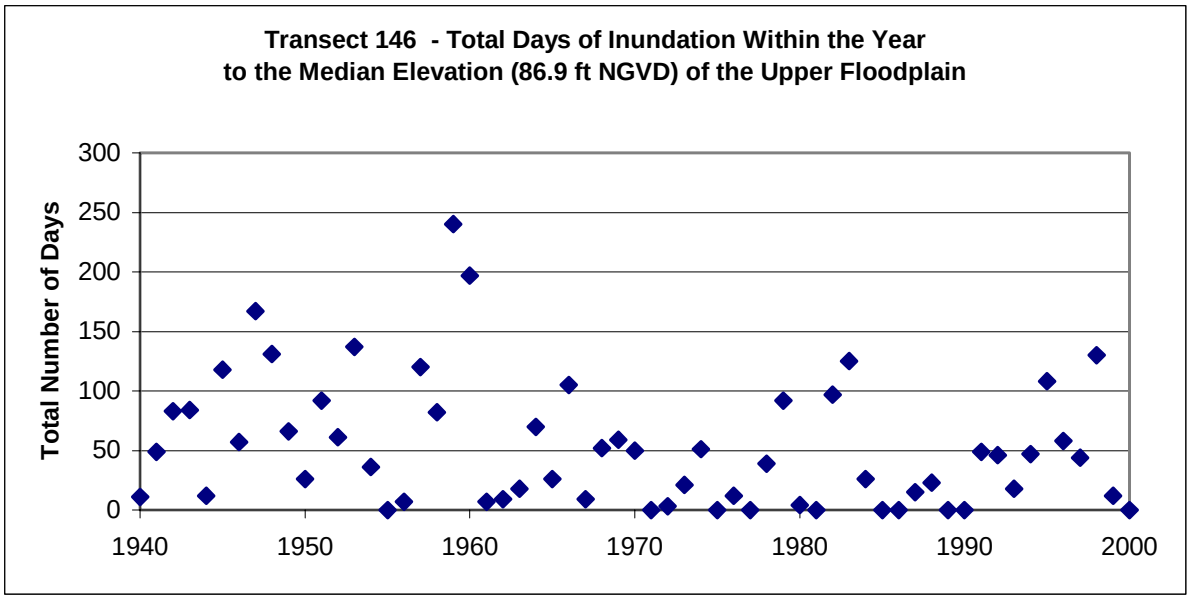

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (96.5 ft NGVD) of the Upper Floodplain
Longest Consecutive Days of Inundation
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

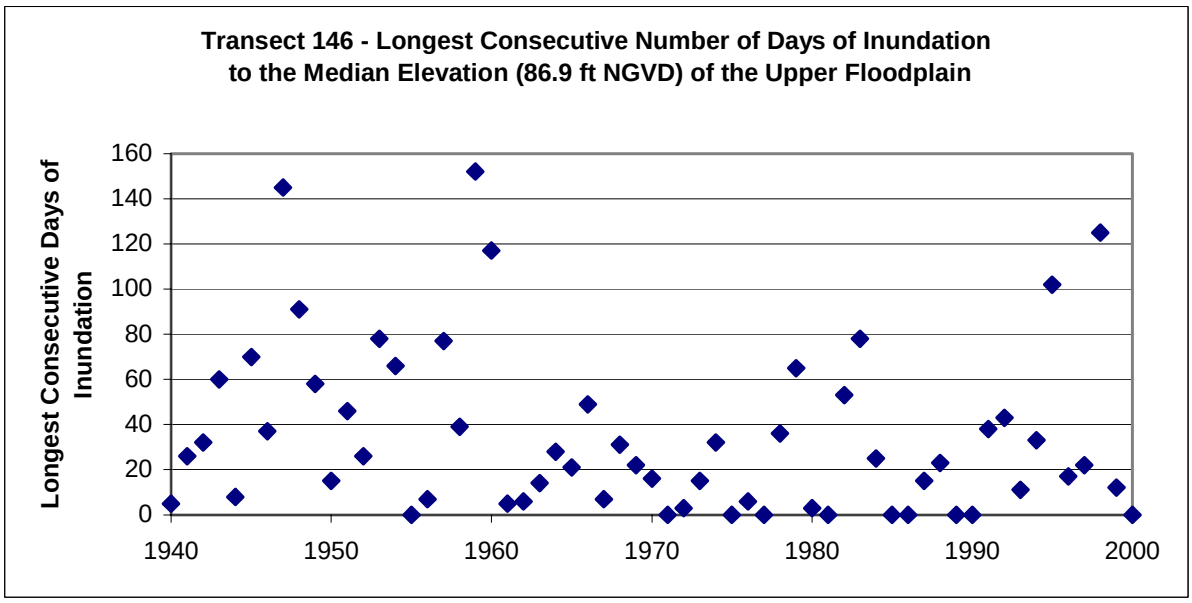

Transect 161 - Total Days of Inundation Within the Year
to the Median Elevation (90.4 ft NGVD) of the Upper Floodplain
Total Number of Days
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

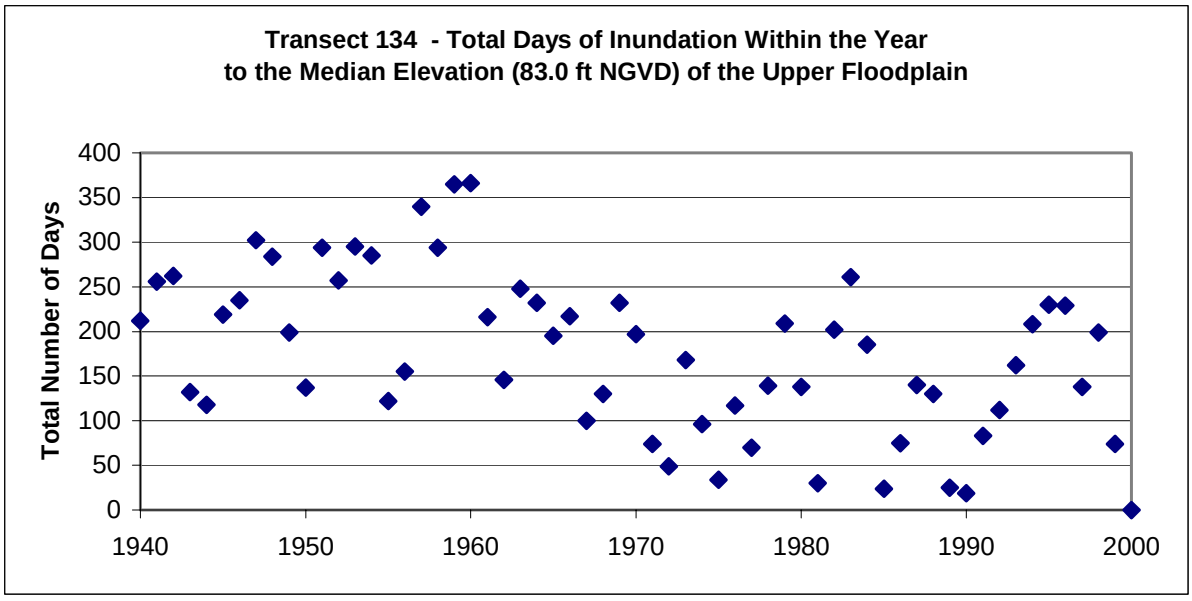

Transect 161 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (90.4 ft NGVD) of the Upper Floodplain
Longest Consecutive Days of Inundation
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

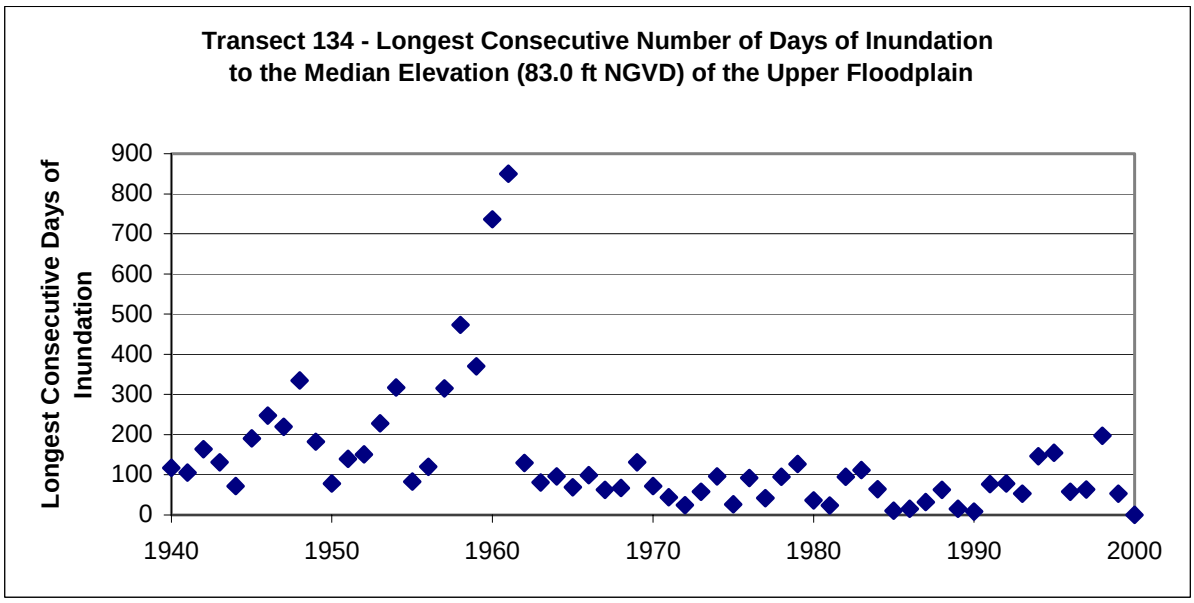

Transect 150 - Total Days of Inundation Within the Year
to the Median Elevation (88.0 ft NGVD) of the Upper Floodplain
Total Number of Days
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

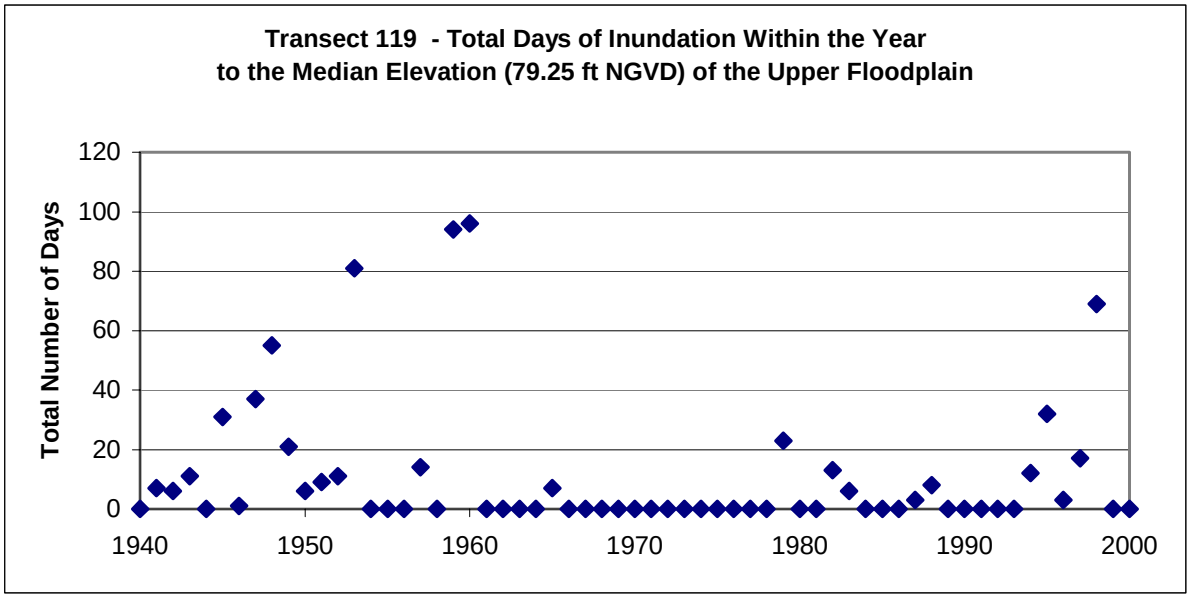

Transect 150 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (88.0 ft NGVD) of the Upper Floodplain
Longest Consecutive Days of Inundation
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

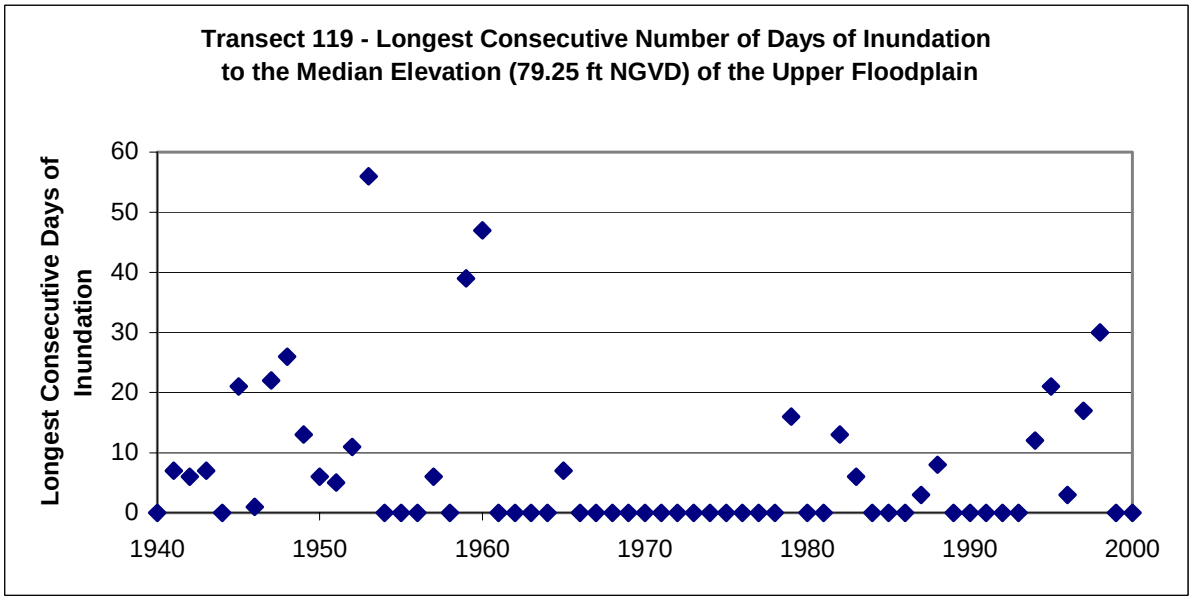

Transect 146 - Total Days of Inundation Within the Year
to the Median Elevation (86.9 ft NGVD) of the Upper Floodplain
Total Number of Days
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

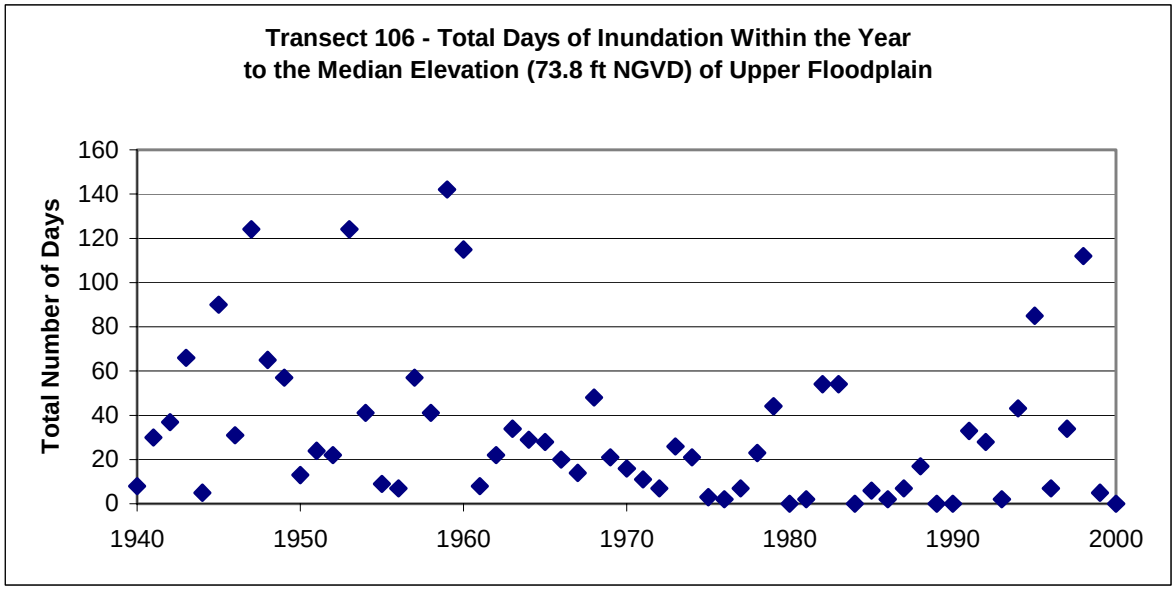

Transect 146 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (86.9 ft NGVD) of the Upper Floodplain
Longest Consecutive Days of Inundation
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

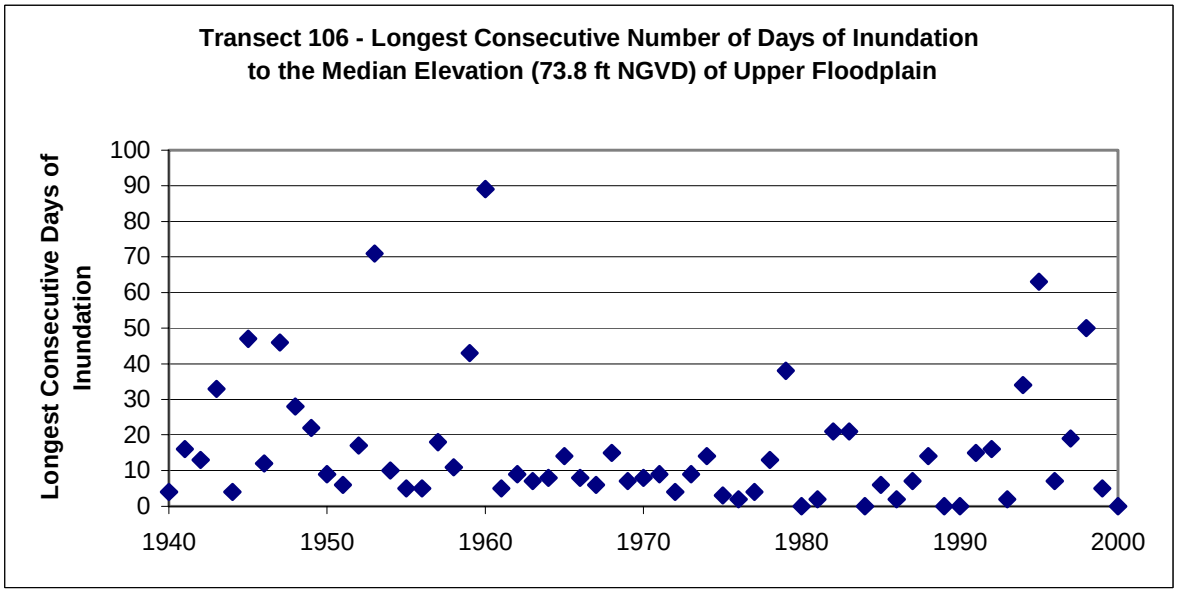

Transect 134 - Total Days of Inundation Within the Year
to the Median Elevation (83.0 ft NGVD) of the Upper Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

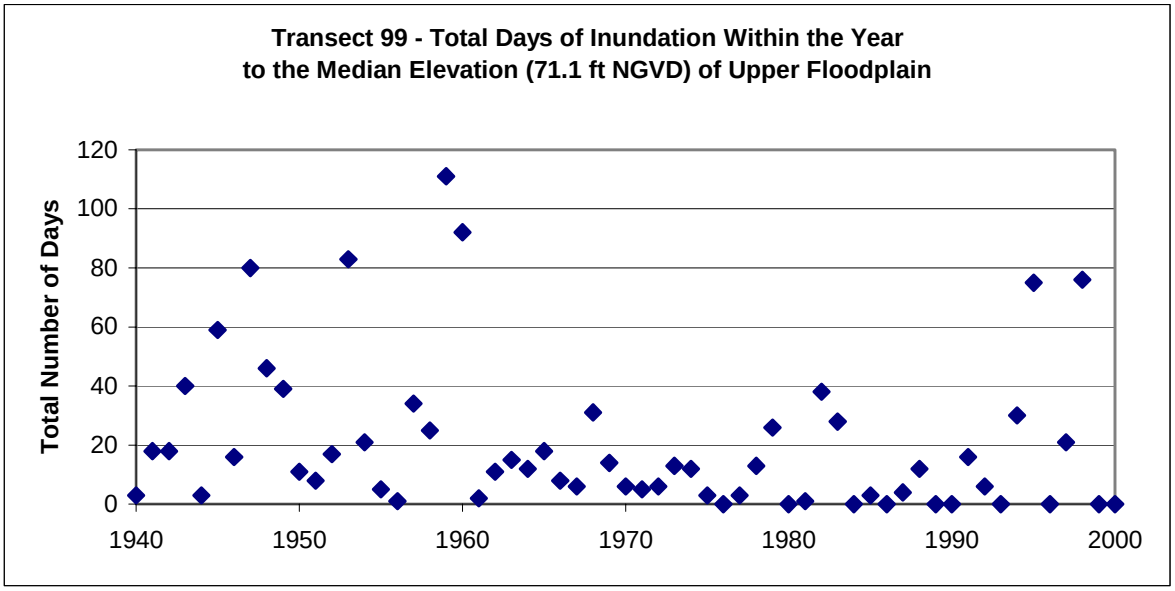

Transect 134 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (83.0 ft NGVD) of the Upper Floodplain
Longest Consecutive Days of Inundation
900
800
700
600
500
400
300
200
100
0
1940
1950
1960
1970
1980
1990
2000

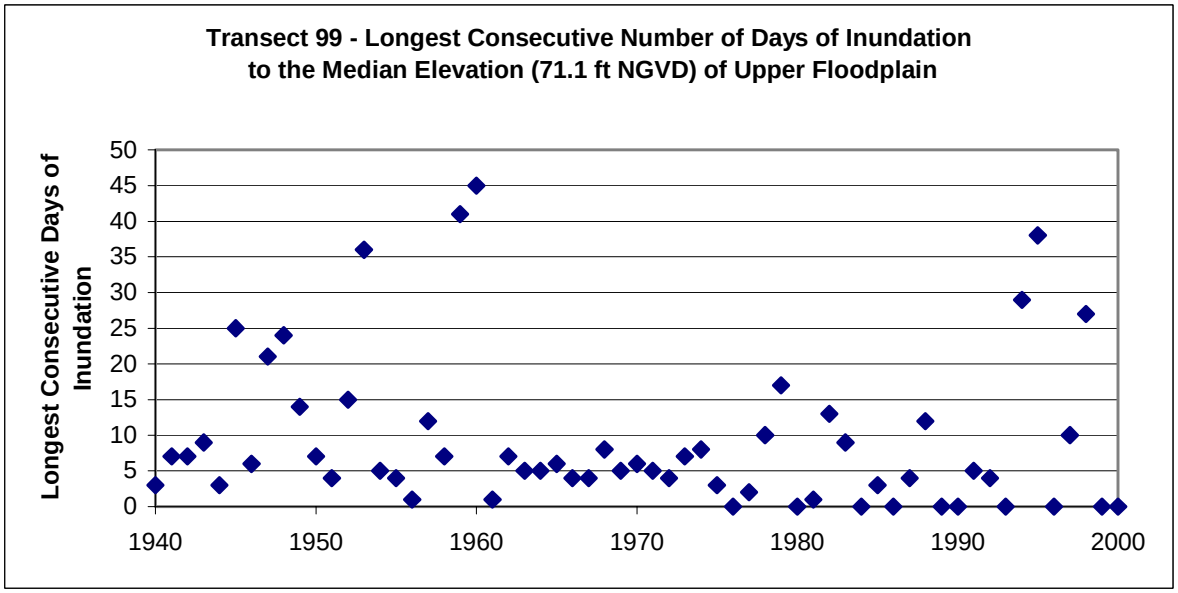

Transect 119 - Total Days of Inundation Within the Year
to the Median Elevation (79.25 ft NGVD) of the Upper Floodplain
Total Number of Days
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

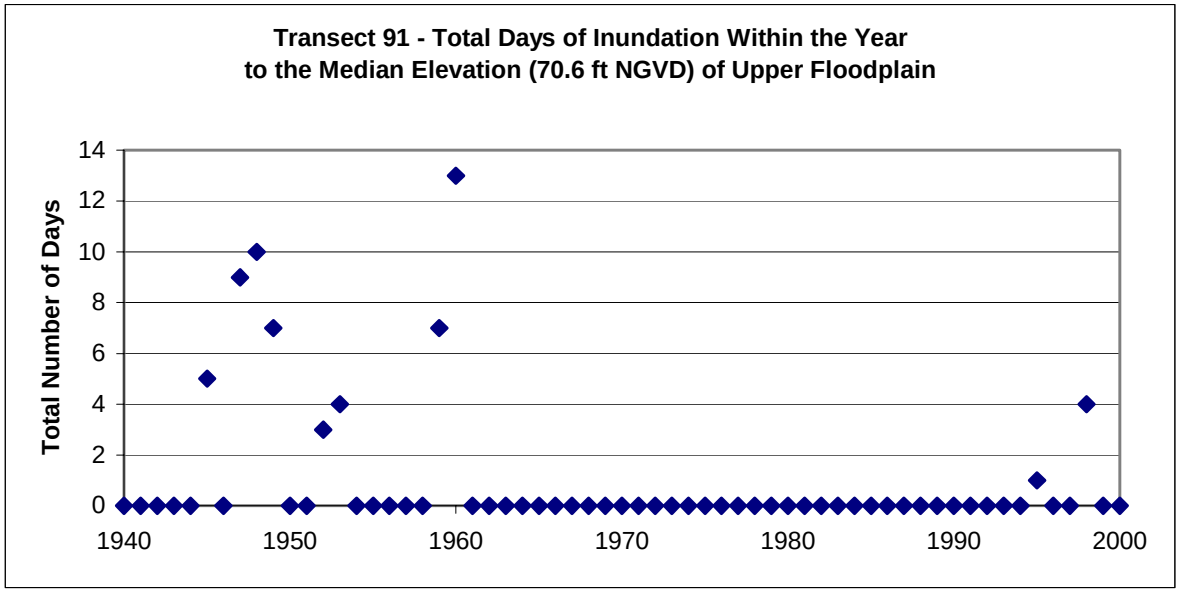

Transect 119 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (79.25 ft NGVD) of the Upper Floodplain
Longest Consecutive Days of Inundation
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

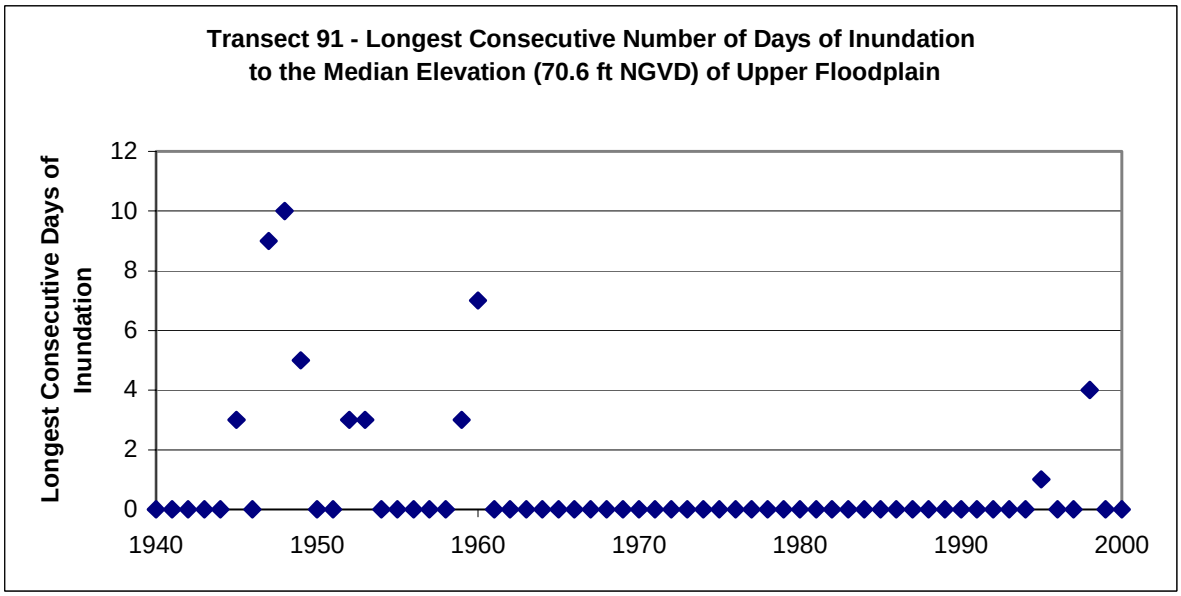

Transect 106 - Total Days of Inundation Within the Year
to the Median Elevation (73.8 ft NGVD) of Upper Floodplain
Total Number of Days
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

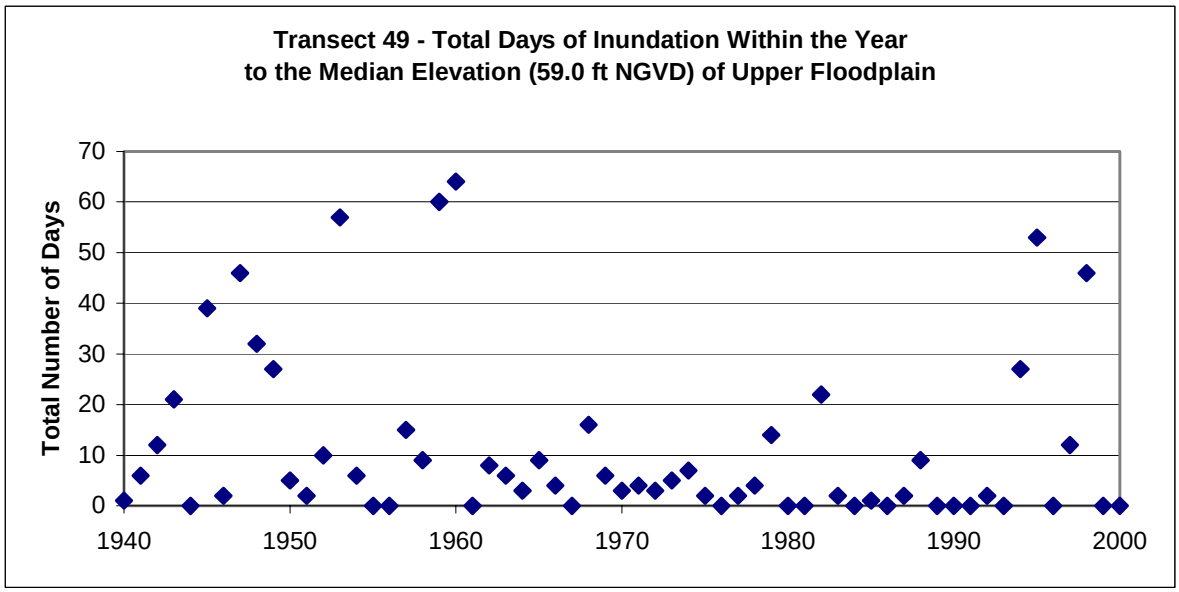

Transect 106 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (73.8 ft NGVD) of Upper Floodplain
Longest Consecutive Days of Inundation
100
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

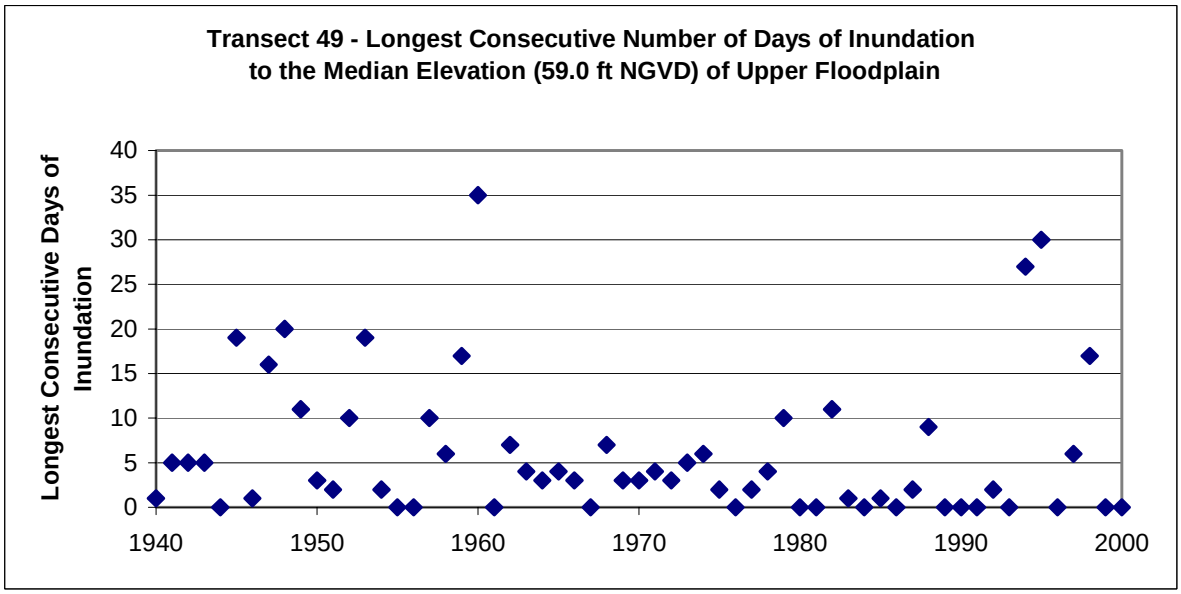

Transect 99 - Total Days of Inundation Within the Year
to the Median Elevation (71.1 ft NGVD) of Upper Floodplain
Total Number of Days
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

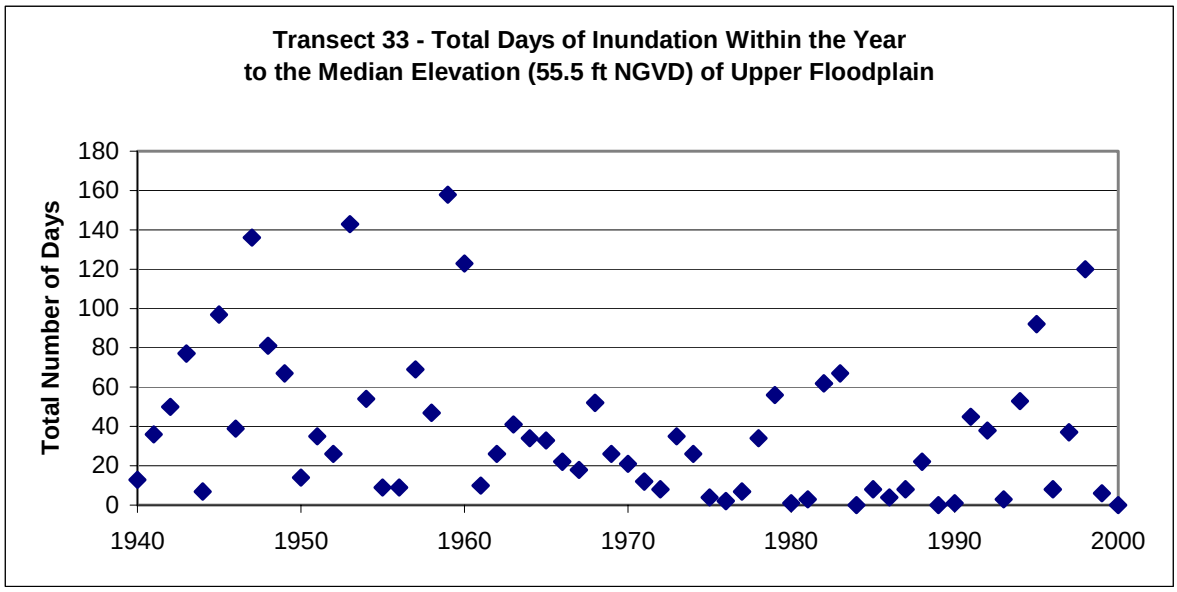

Transect 99 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (71.1 ft NGVD) of Upper Floodplain
Longest Consecutive Days of Inundation
50
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

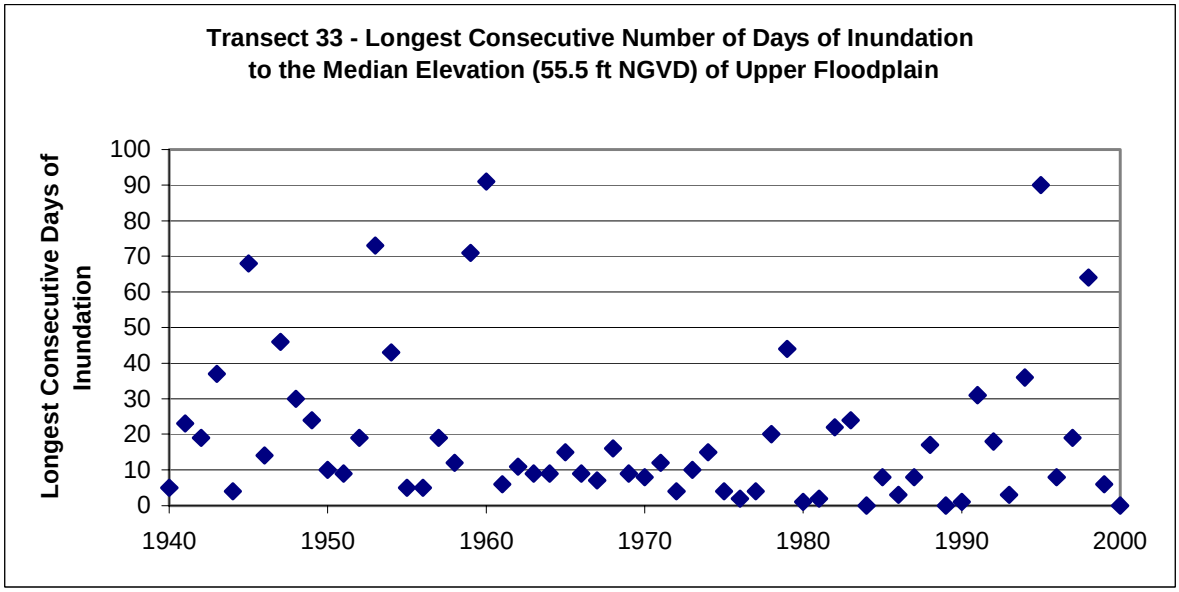

Transect 91 - Total Days of Inundation Within the Year
to the Median Elevation (70.6 ft NGVD) of Upper Floodplain
Total Number of Days
14
12
10
8
6
4
2
0
1940
1950
1960
1970
1980
1990
2000

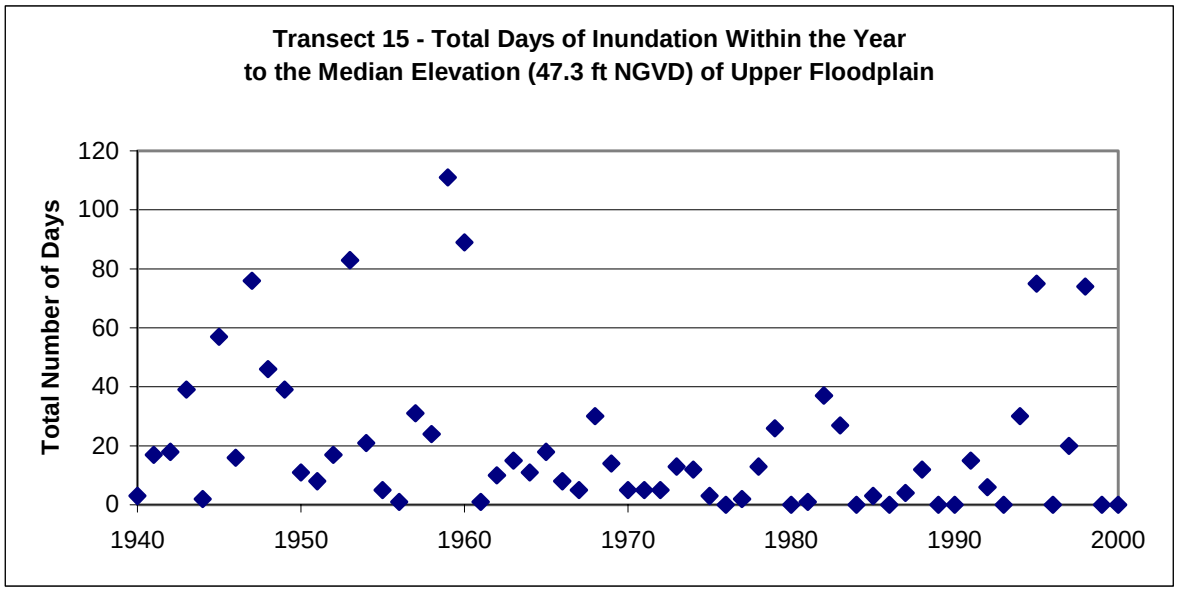

Transect 91 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (70.6 ft NGVD) of Upper Floodplain
Longest Consecutive Days of Inundation
12
10
8
6
4
2
0
1940
1950
1960
1970
1980
1990
2000

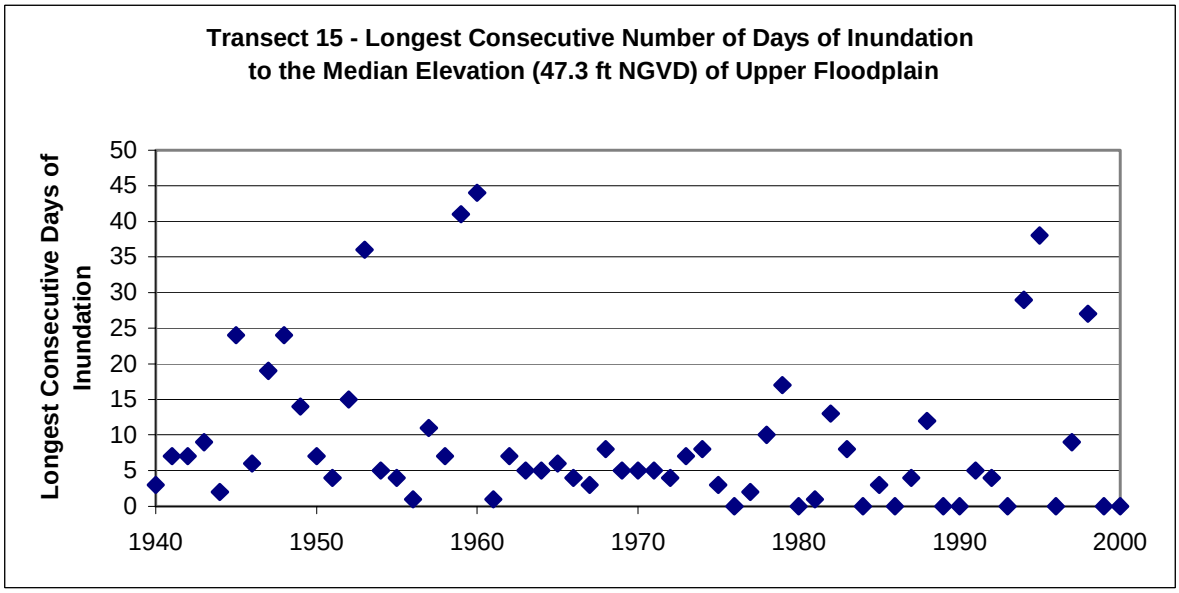

Transect 49 - Total Days of Inundation Within the Year
to the Median Elevation (59.0 ft NGVD) of Upper Floodplain
Total Number of Days
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

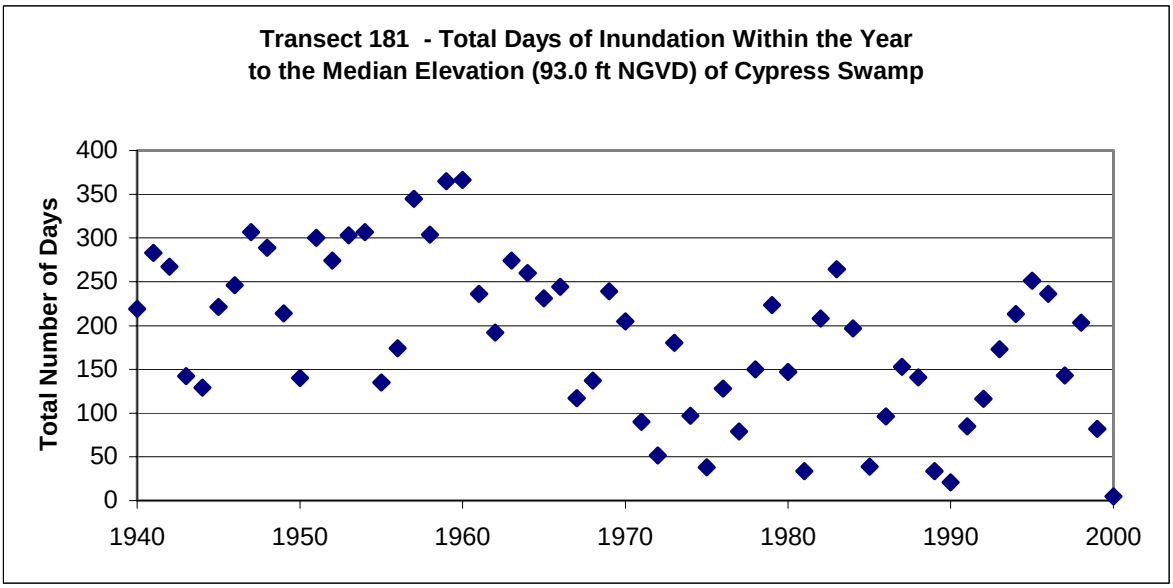

Transect 49 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (59.0 ft NGVD) of Upper Floodplain
Longest Consecutive Days of Inundation
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

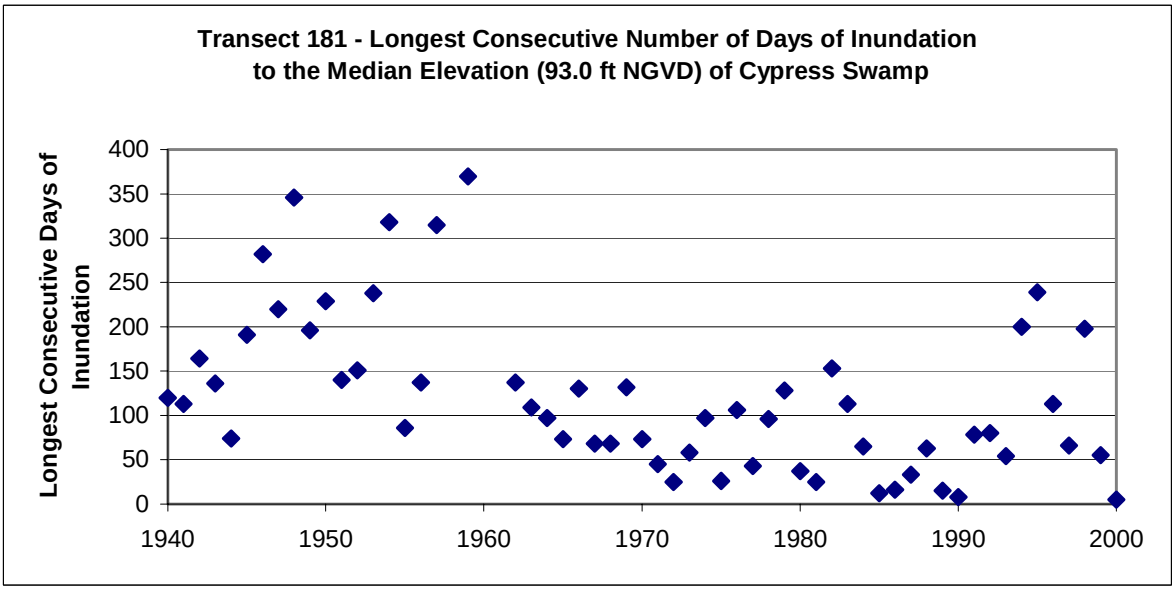

Transect 33 - Total Days of Inundation Within the Year
to the Median Elevation (55.5 ft NGVD) of Upper Floodplain
Total Number of Days
180
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

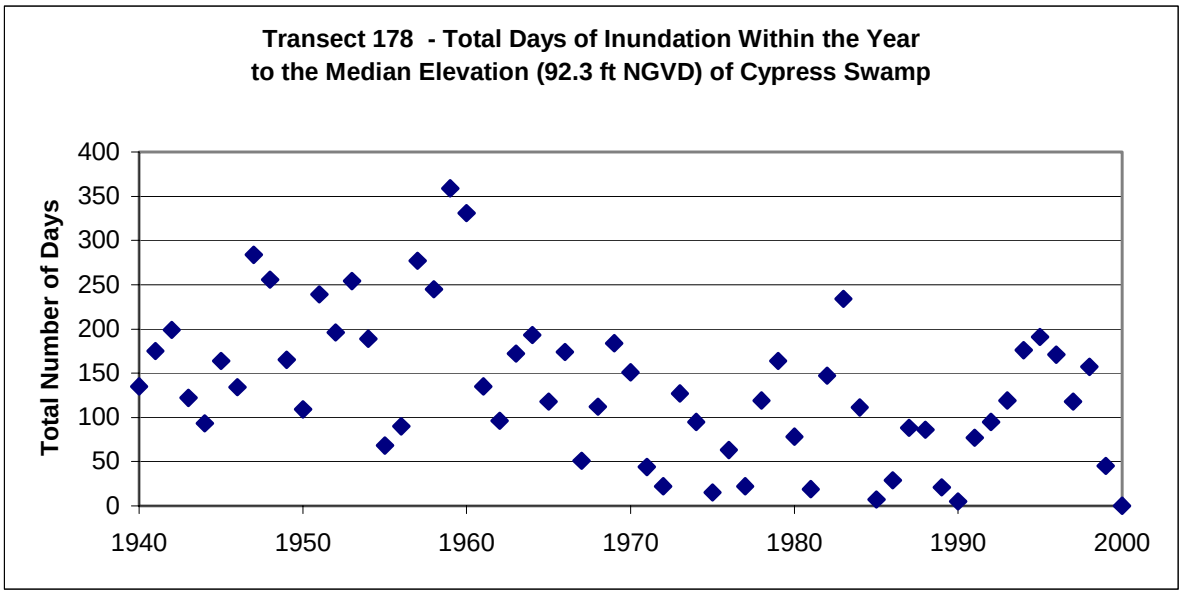

Transect 33 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (55.5 ft NGVD) of Upper Floodplain
Longest Consecutive Days of Inundation
100
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

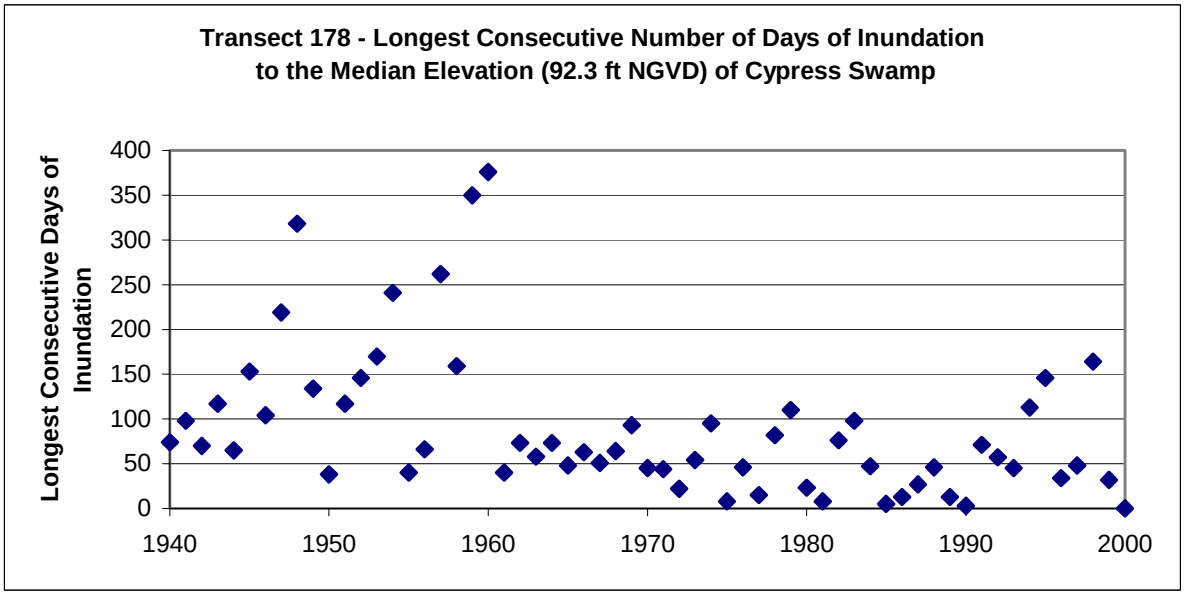

Transect 15 - Total Days of Inundation Within the Year
to the Median Elevation (47.3 ft NGVD) of Upper Floodplain
Total Number of Days
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

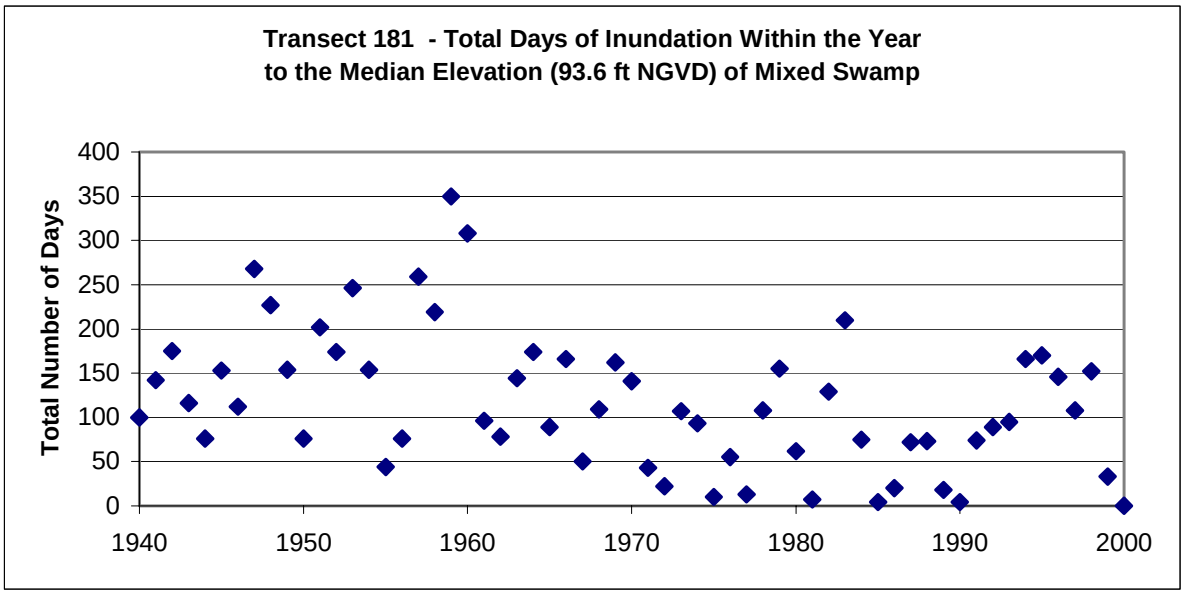

Transect 15 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (47.3 ft NGVD) of Upper Floodplain
Longest Consecutive Days of Inundation
50
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

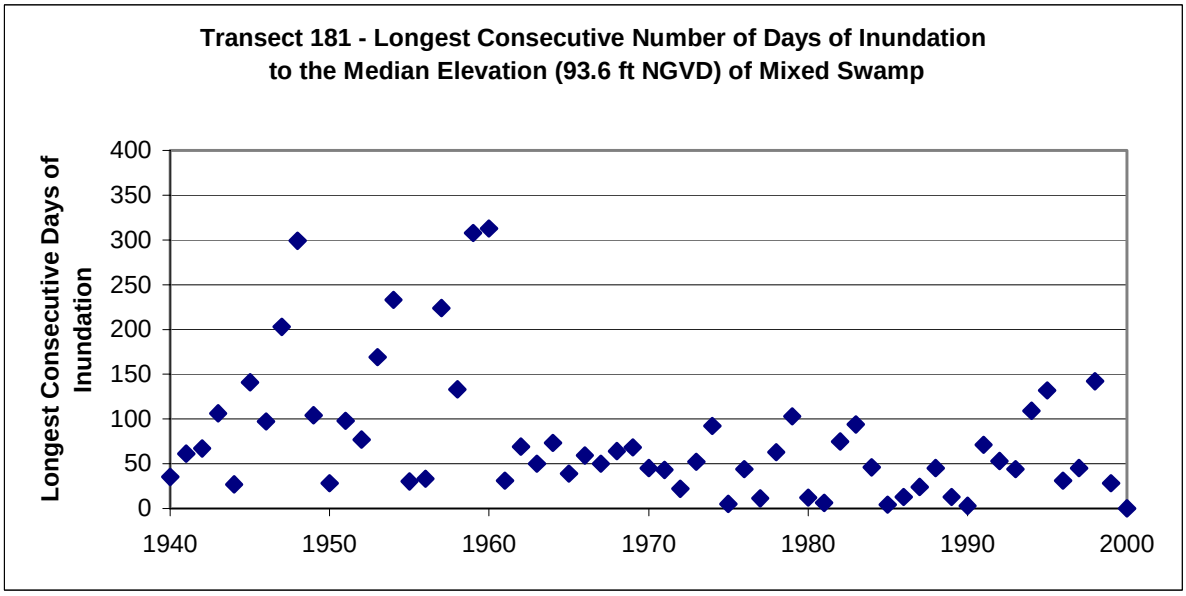

Transect 181 - Total Days of Inundation Within the Year
to the Median Elevation (93.0 ft NGVD) of Cypress Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

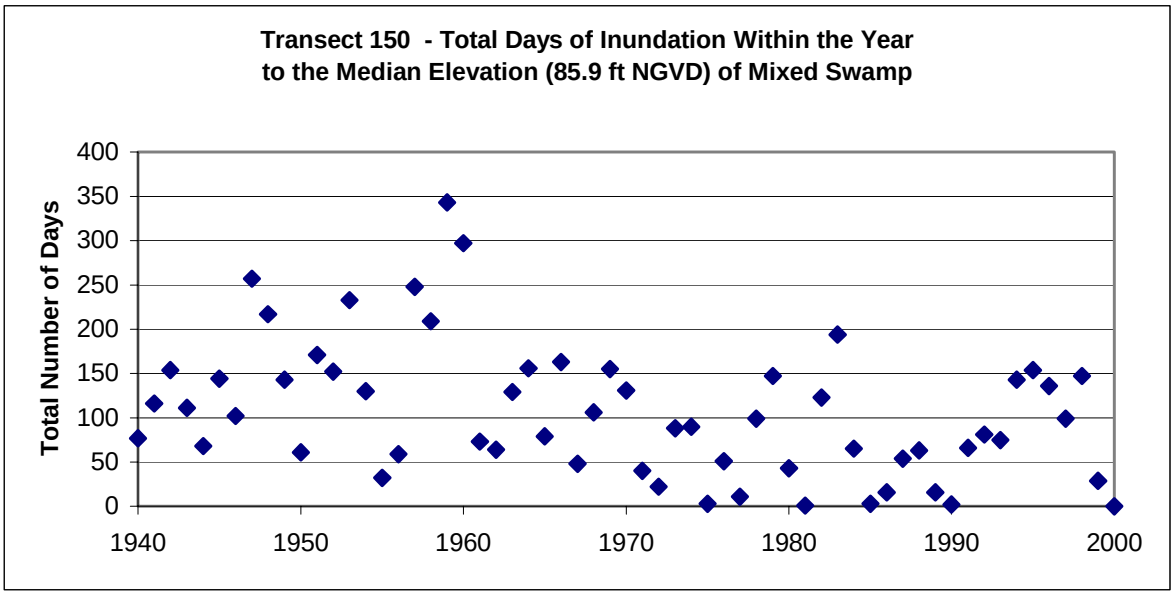

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (93.0 ft NGVD) of Cypress Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

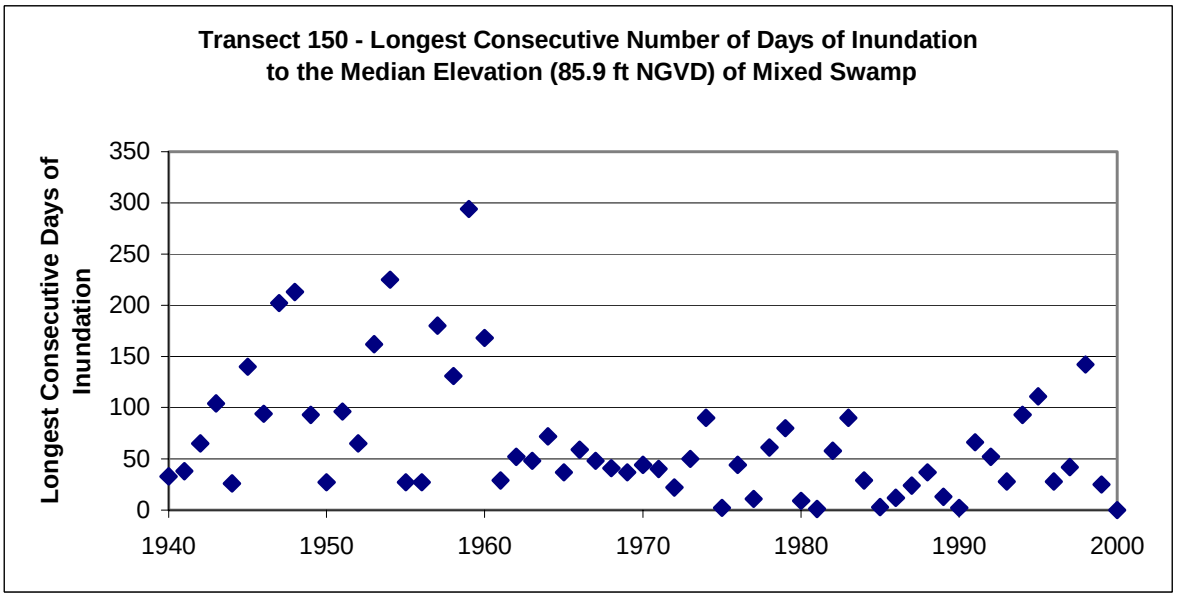

Transect 178 - Total Days of Inundation Within the Year
to the Median Elevation (92.3 ft NGVD) of Cypress Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

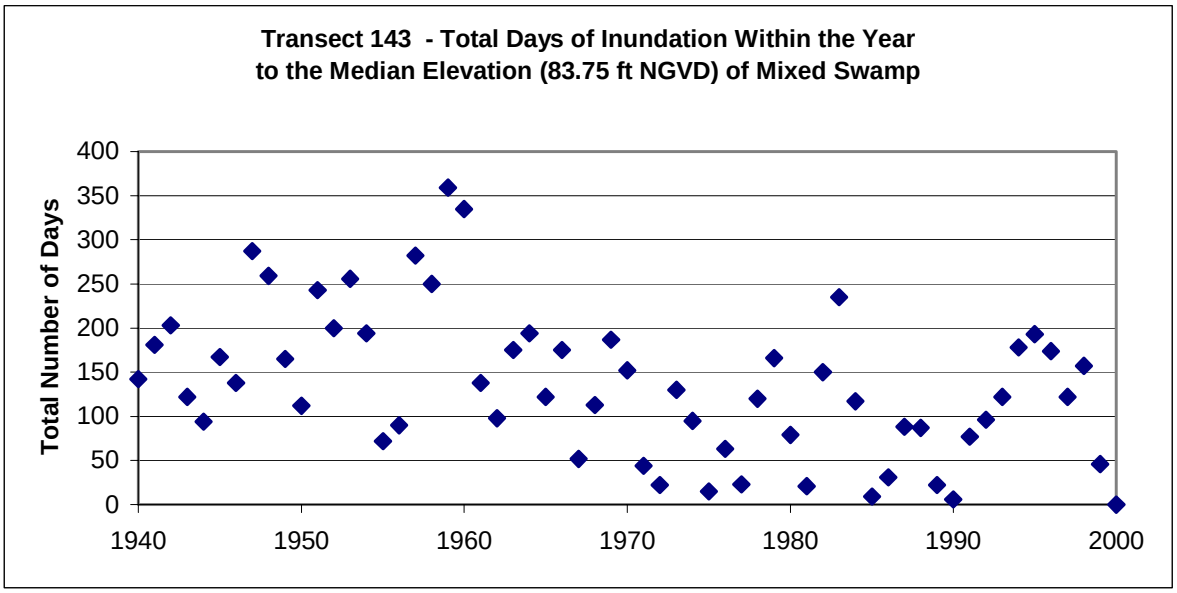

Transect 178 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (92.3 ft NGVD) of Cypress Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

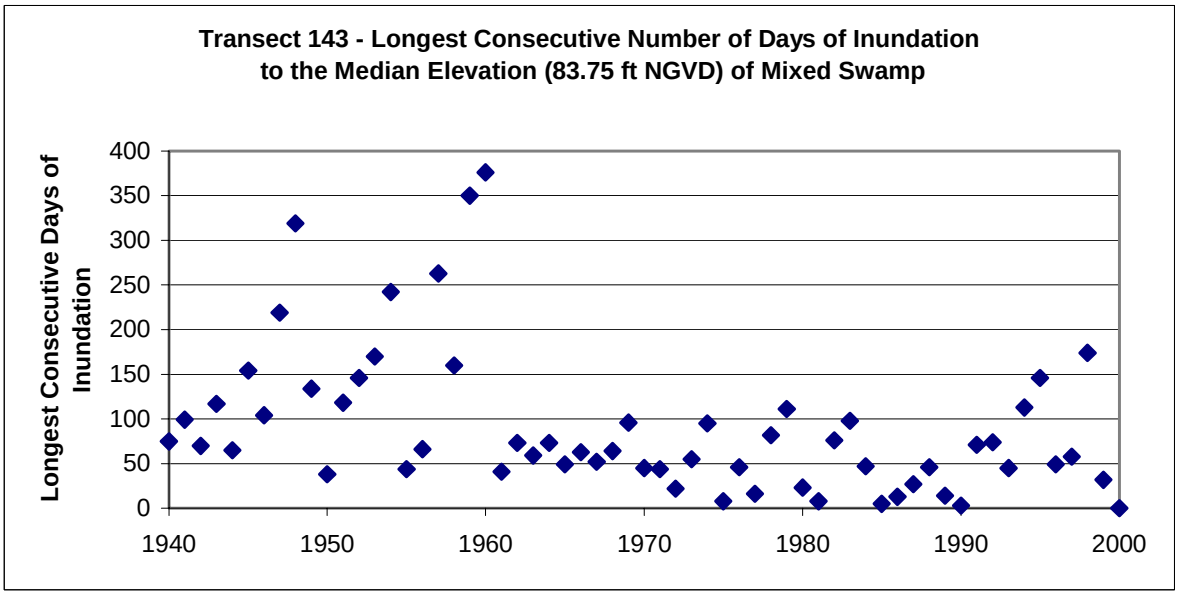

Transect 181 - Total Days of Inundation Within the Year
to the Median Elevation (93.6 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

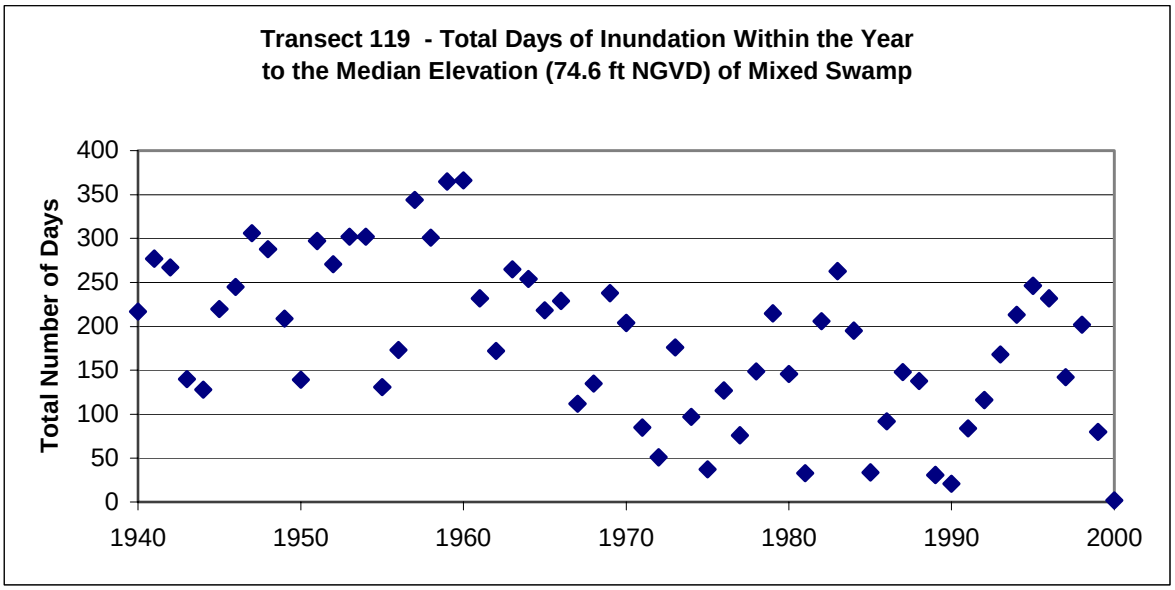

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (93.6 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

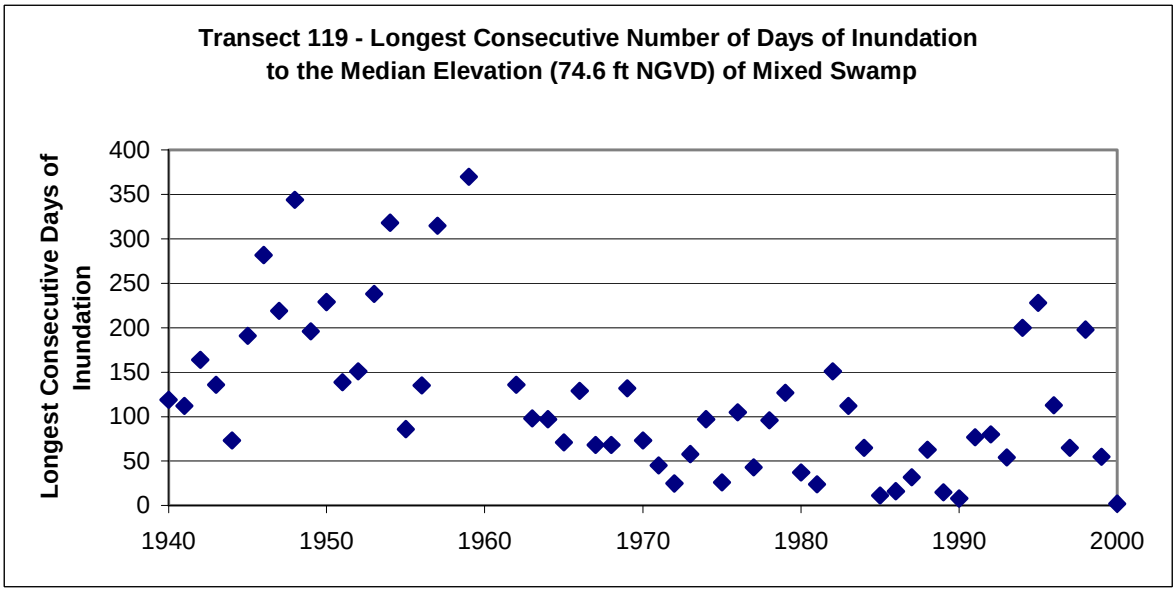

Transect 150 - Total Days of Inundation Within the Year
to the Median Elevation (85.9 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

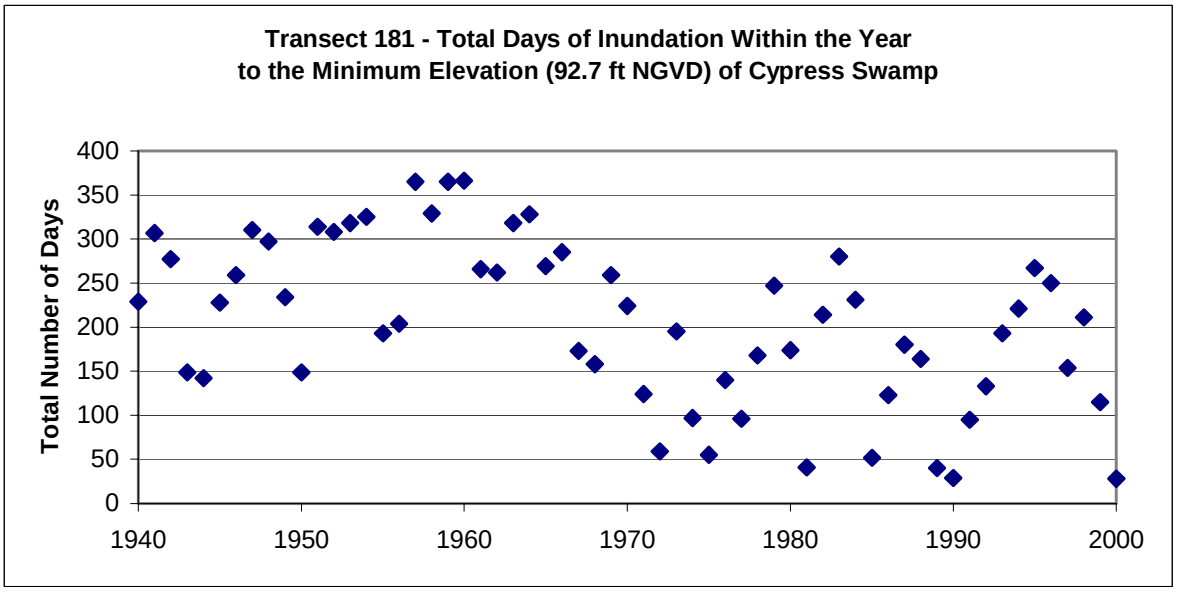

Transect 150 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (85.9 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

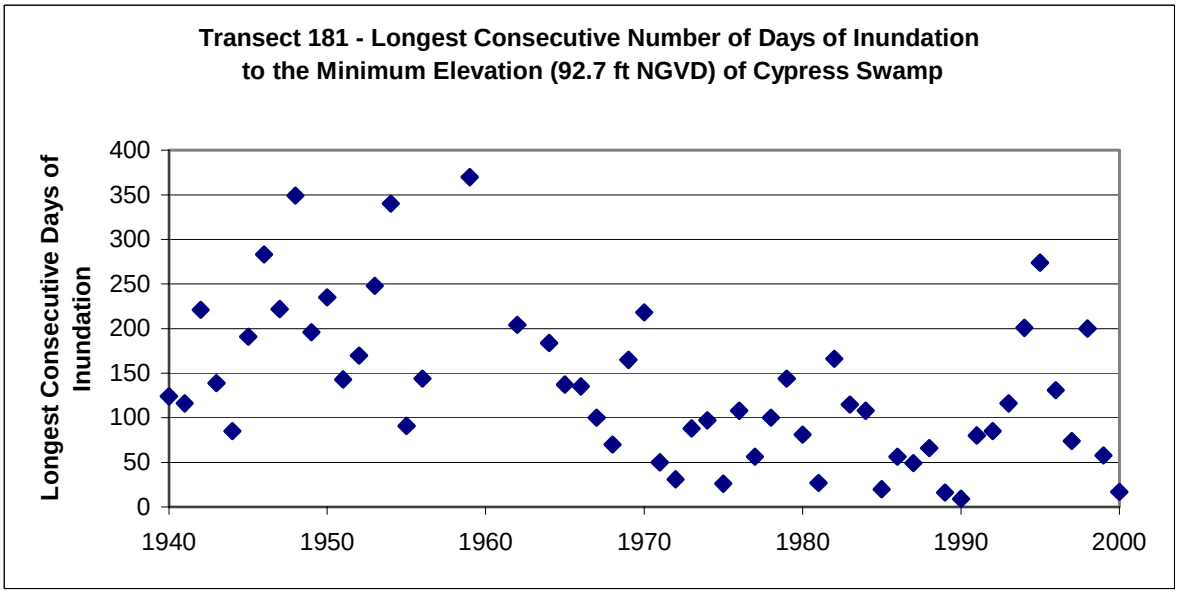

Transect 143 - Total Days of Inundation Within the Year
to the Median Elevation (83.75 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

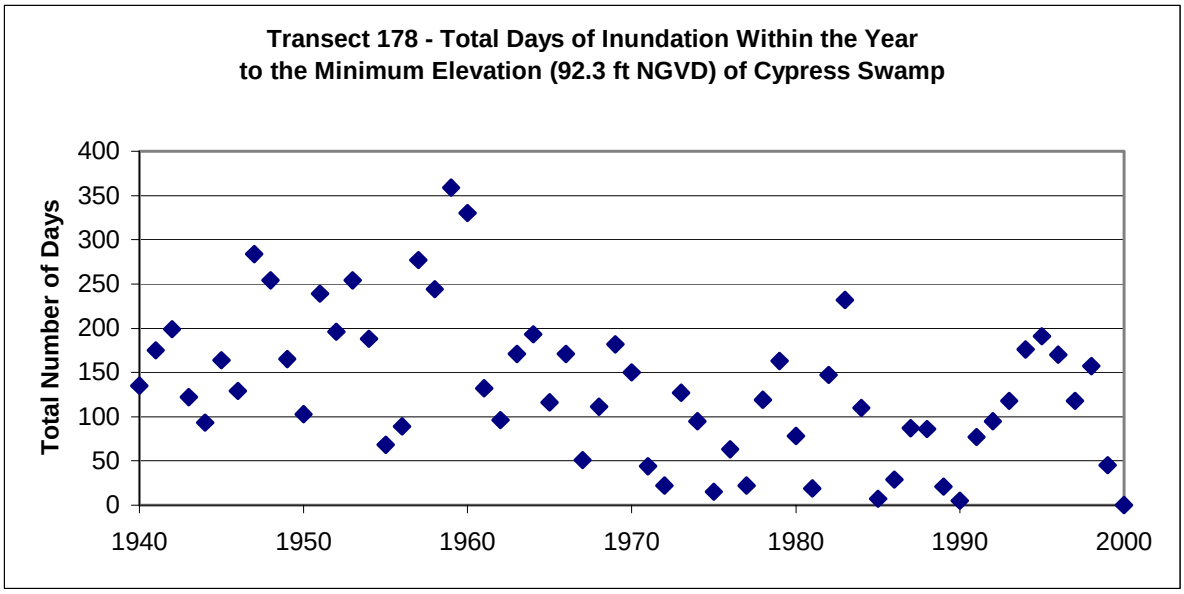

Transect 143 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (83.75 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

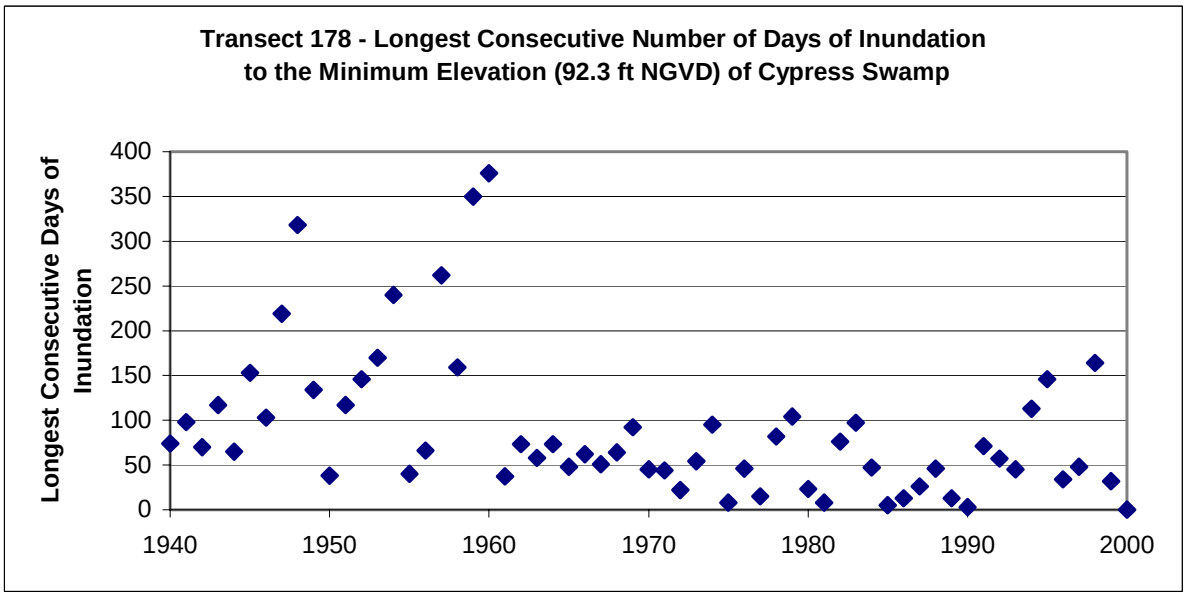

Transect 119 - Total Days of Inundation Within the Year
to the Median Elevation (74.6 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

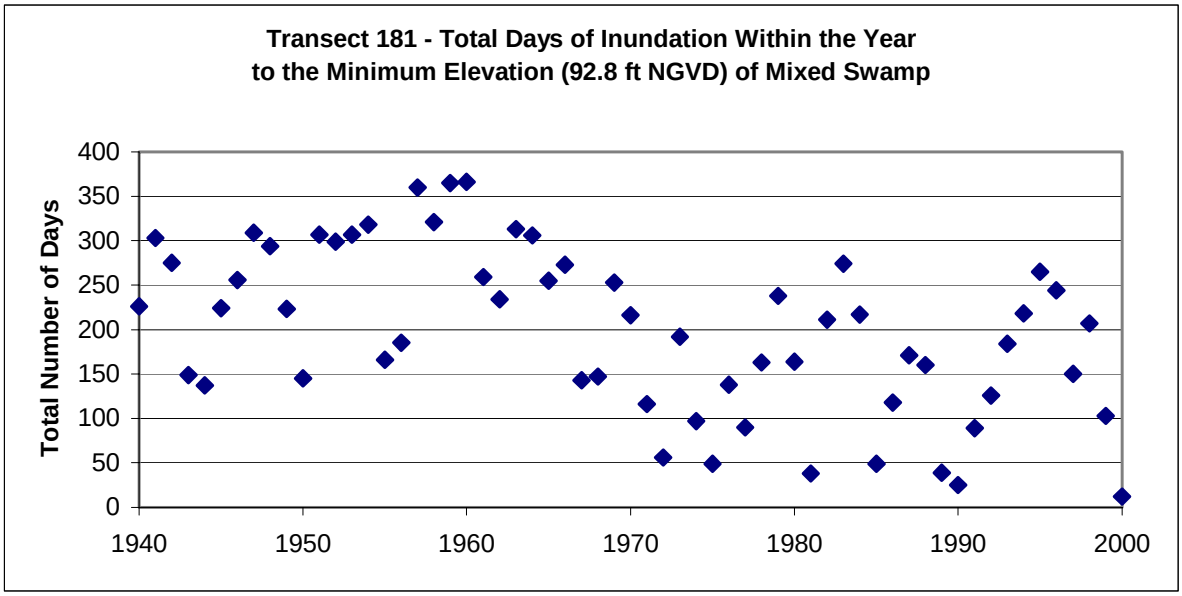

Transect 119 - Longest Consecutive Number of Days of Inundation
to the Median Elevation (74.6 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

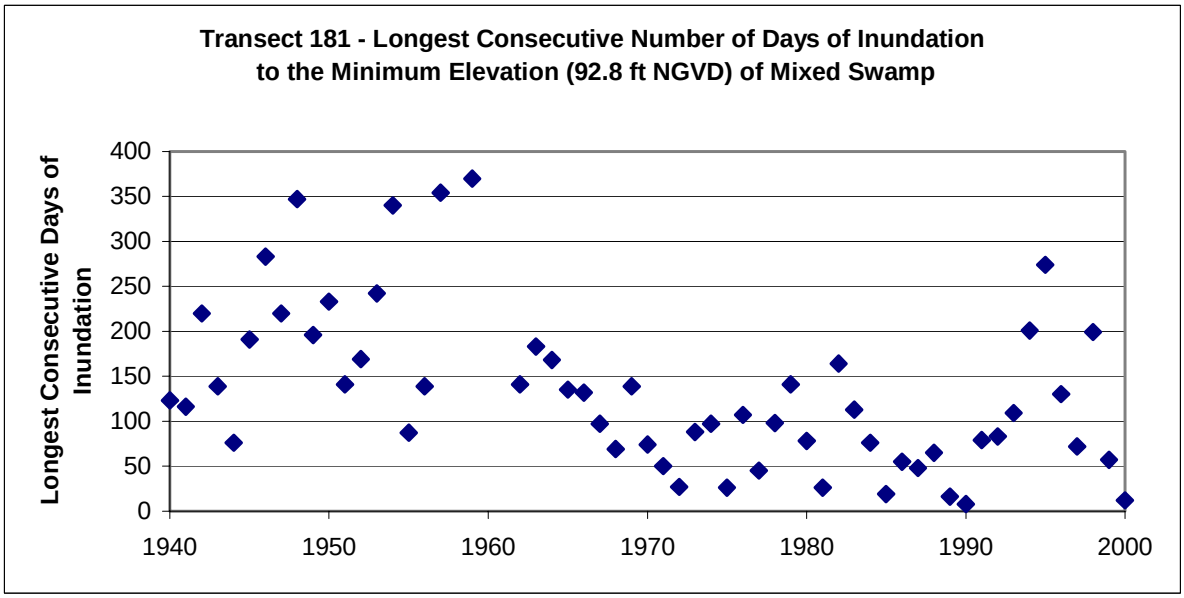

Transect 181 - Total Days of Inundation Within the Year
to the Minimum Elevation (92.7 ft NGVD) of Cypress Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

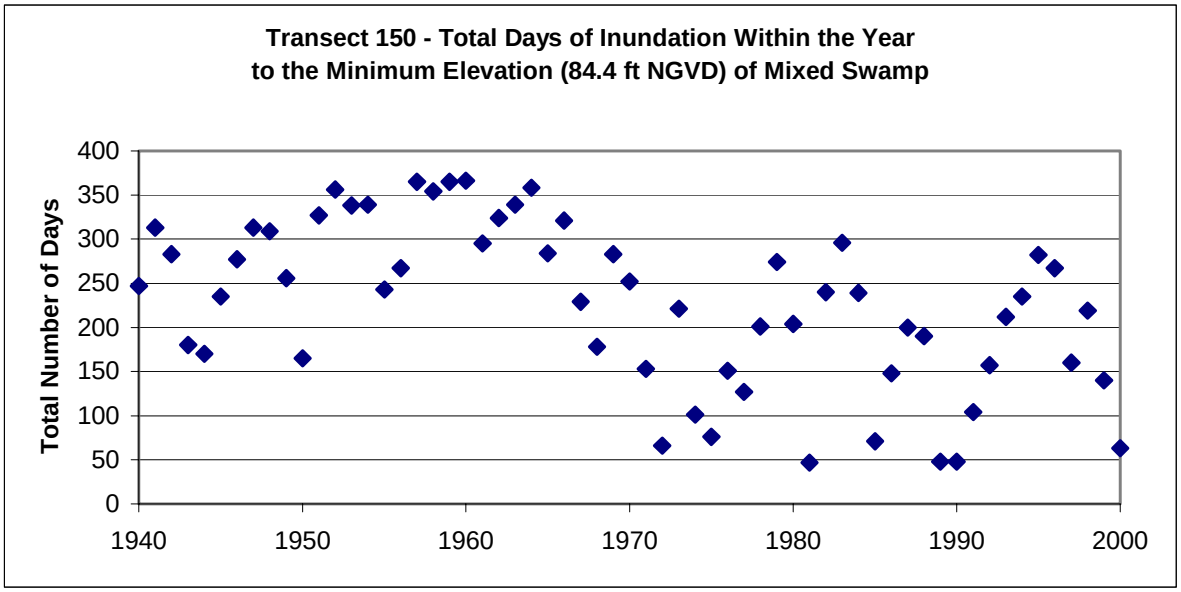

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (92.7 ft NGVD) of Cypress Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

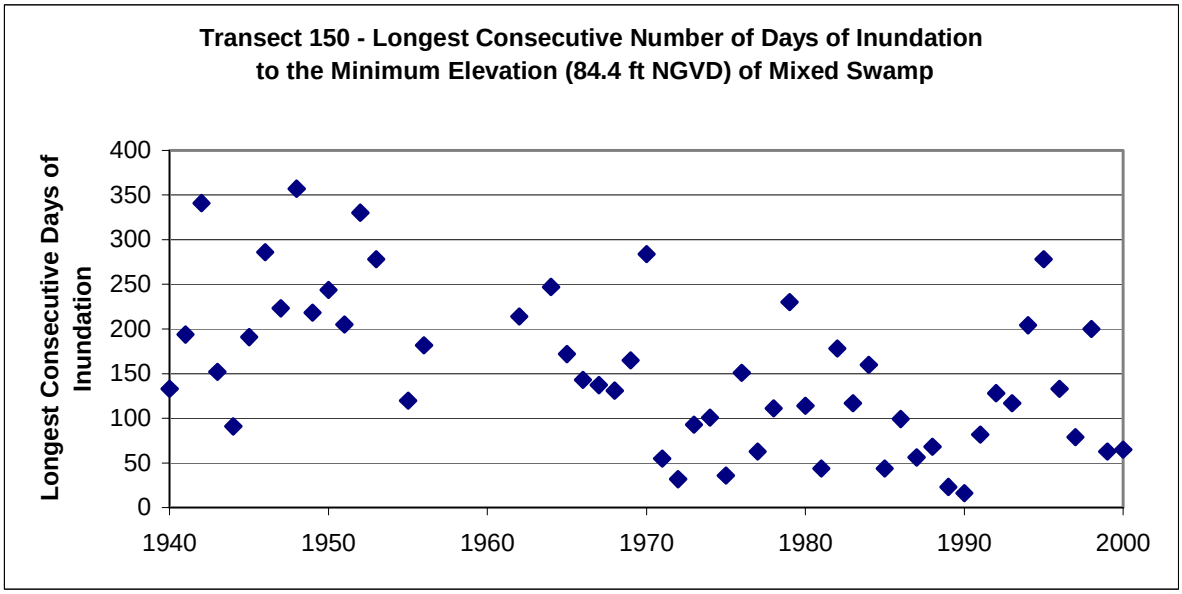

Transect 178 - Total Days of Inundation Within the Year
to the Minimum Elevation (92.3 ft NGVD) of Cypress Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

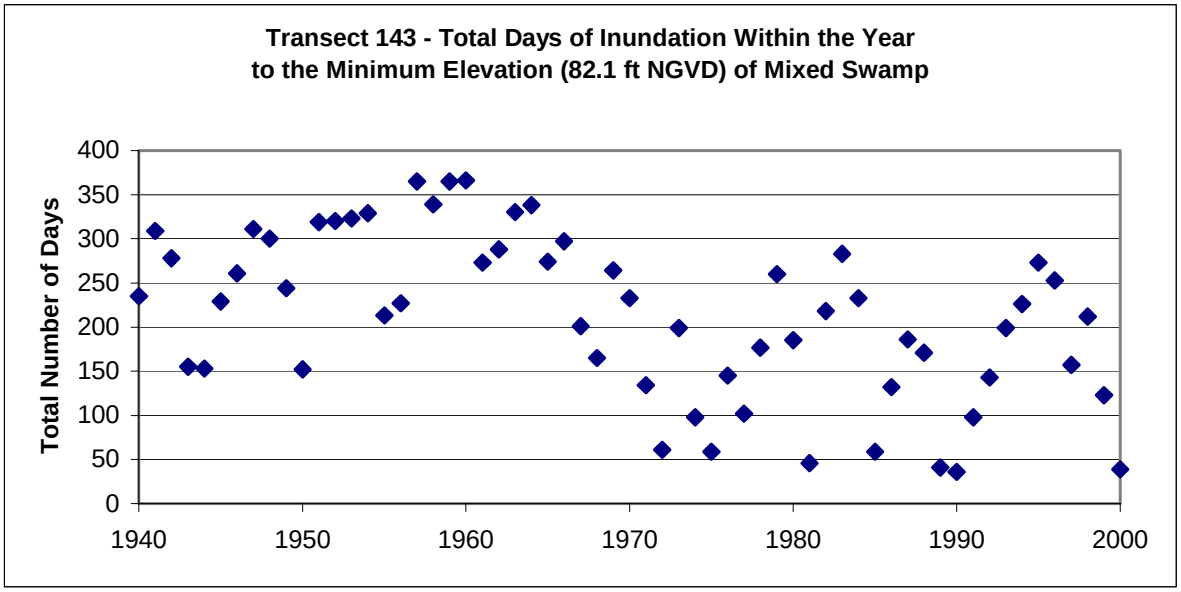

Transect 178 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (92.3 ft NGVD) of Cypress Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

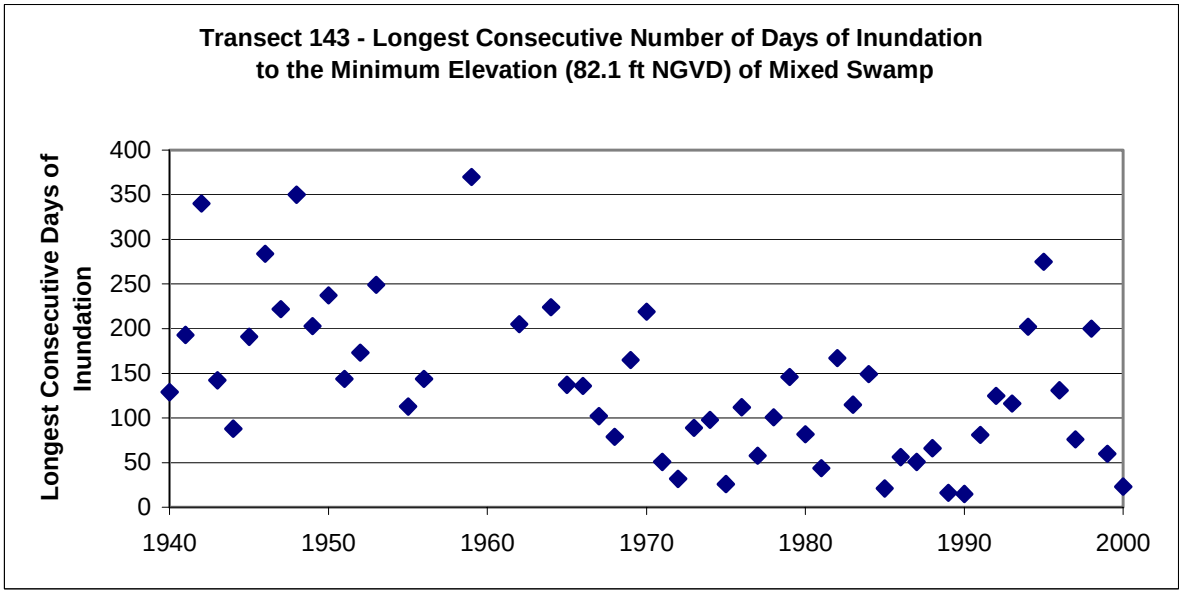

Transect 181 - Total Days of Inundation Within the Year
to the Minimum Elevation (92.8 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

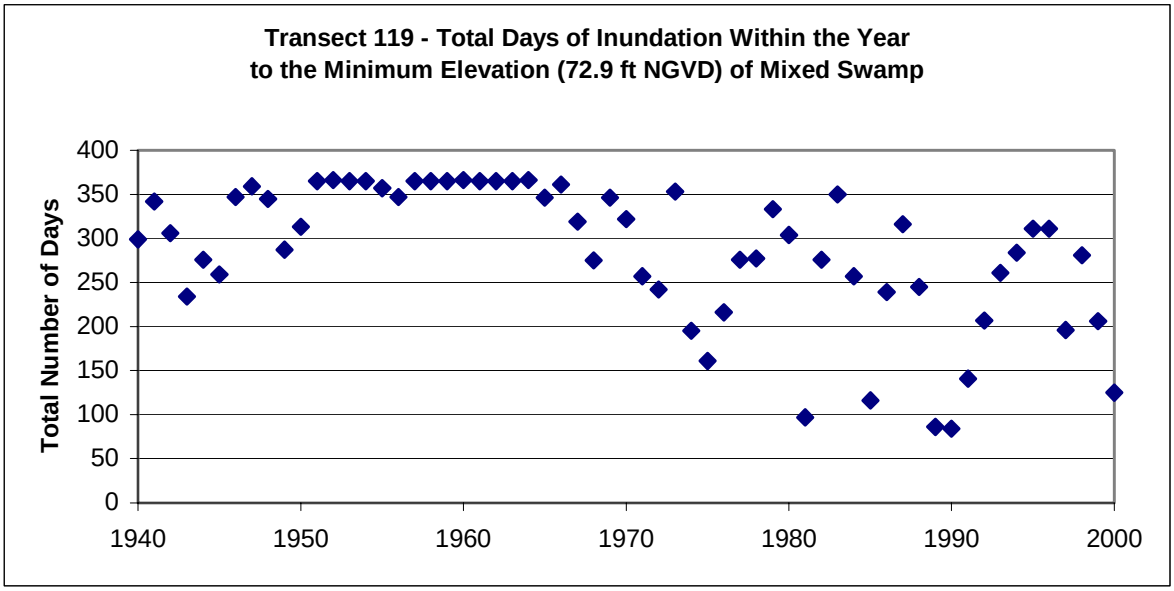

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (92.8 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

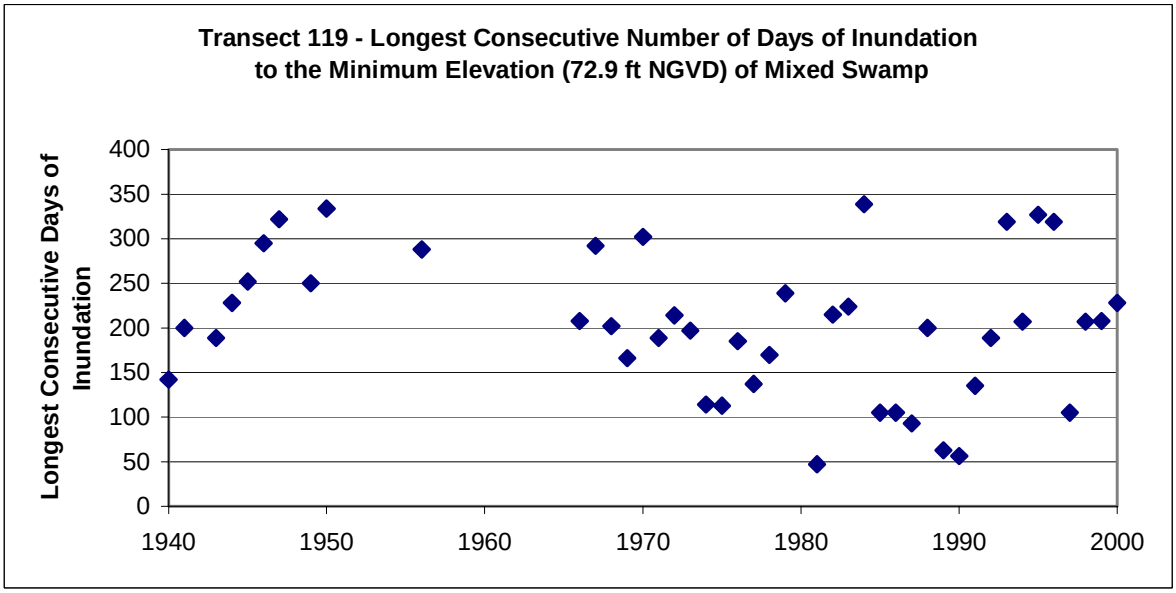

Transect 150 - Total Days of Inundation Within the Year
to the Minimum Elevation (84.4 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

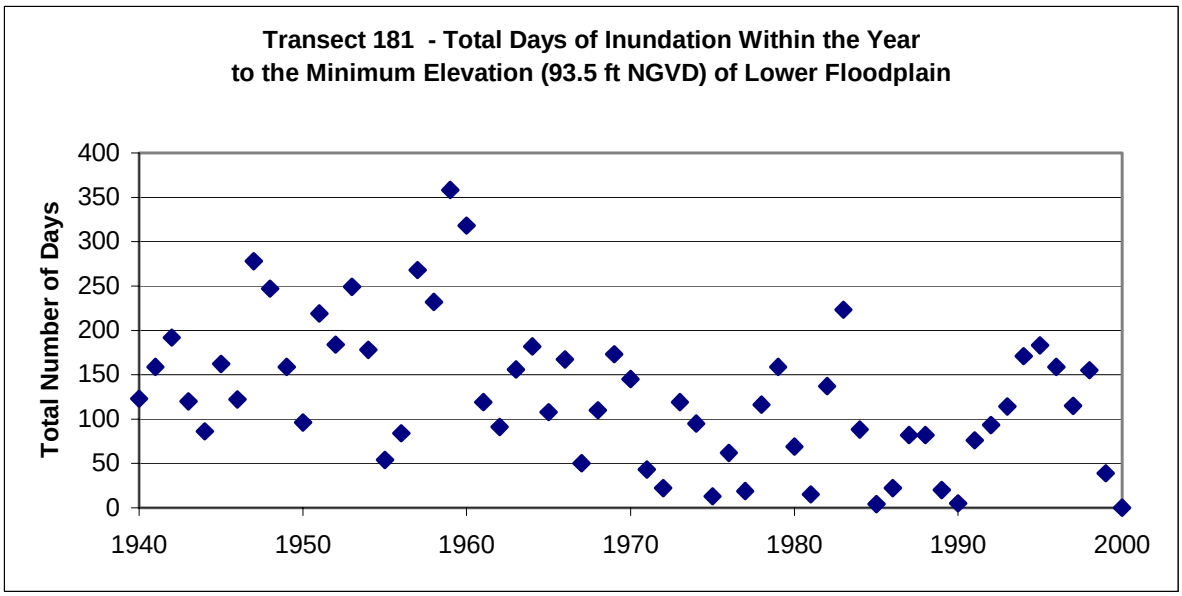

Transect 150 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (84.4 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

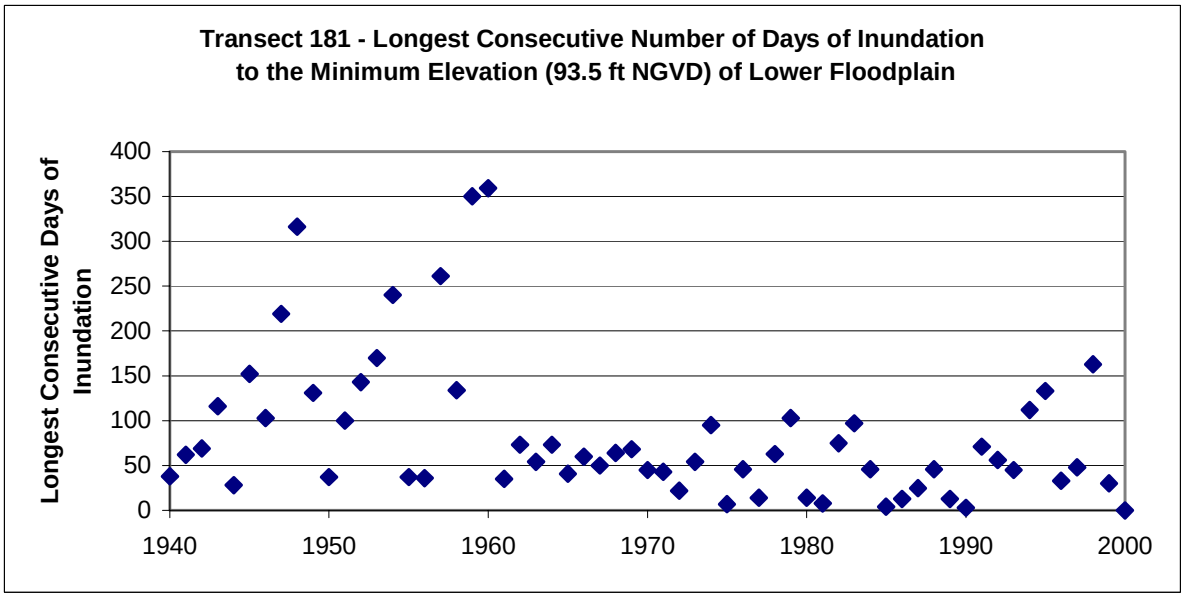

Transect 143 - Total Days of Inundation Within the Year
to the Minimum Elevation (82.1 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

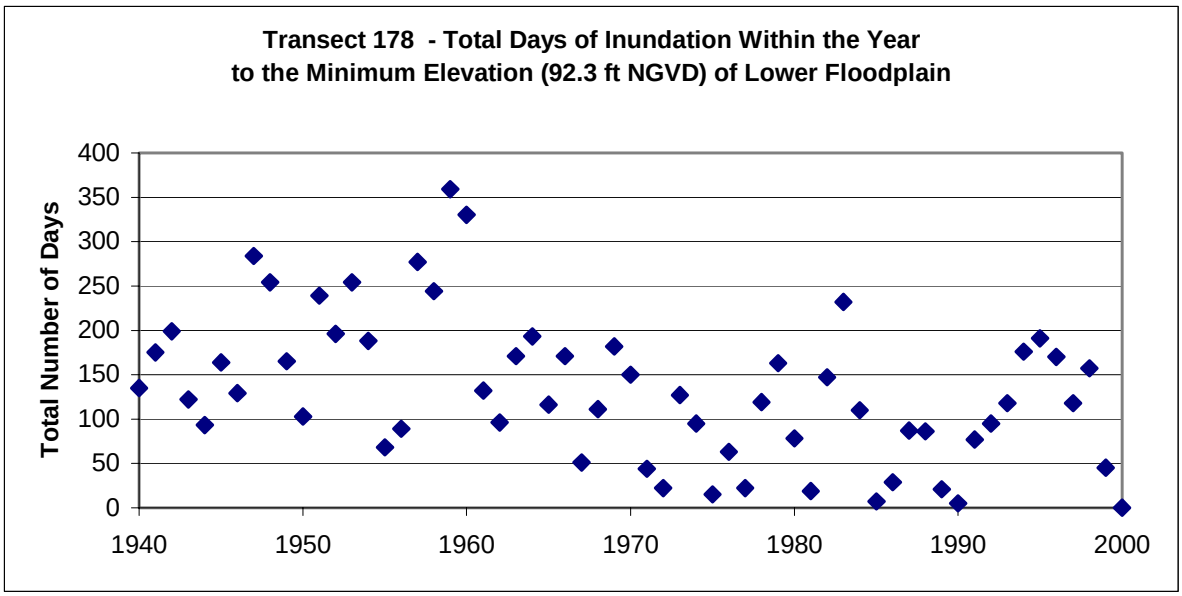

Transect 143 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (82.1 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

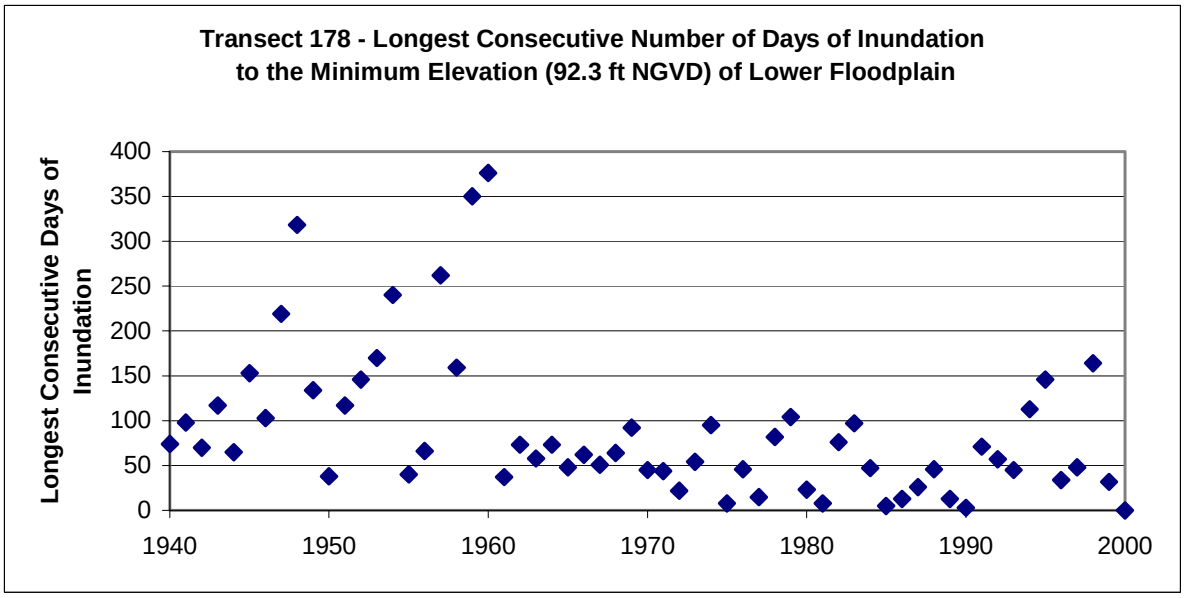

Transect 119 - Total Days of Inundation Within the Year
to the Minimum Elevation (72.9 ft NGVD) of Mixed Swamp
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

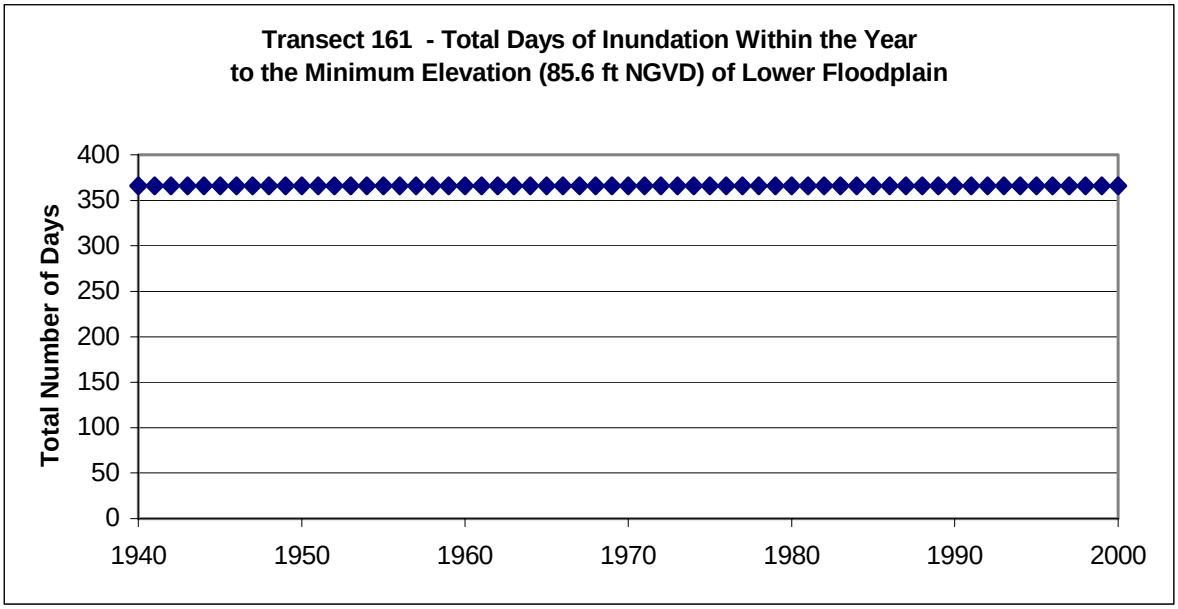

Transect 119 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (72.9 ft NGVD) of Mixed Swamp
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

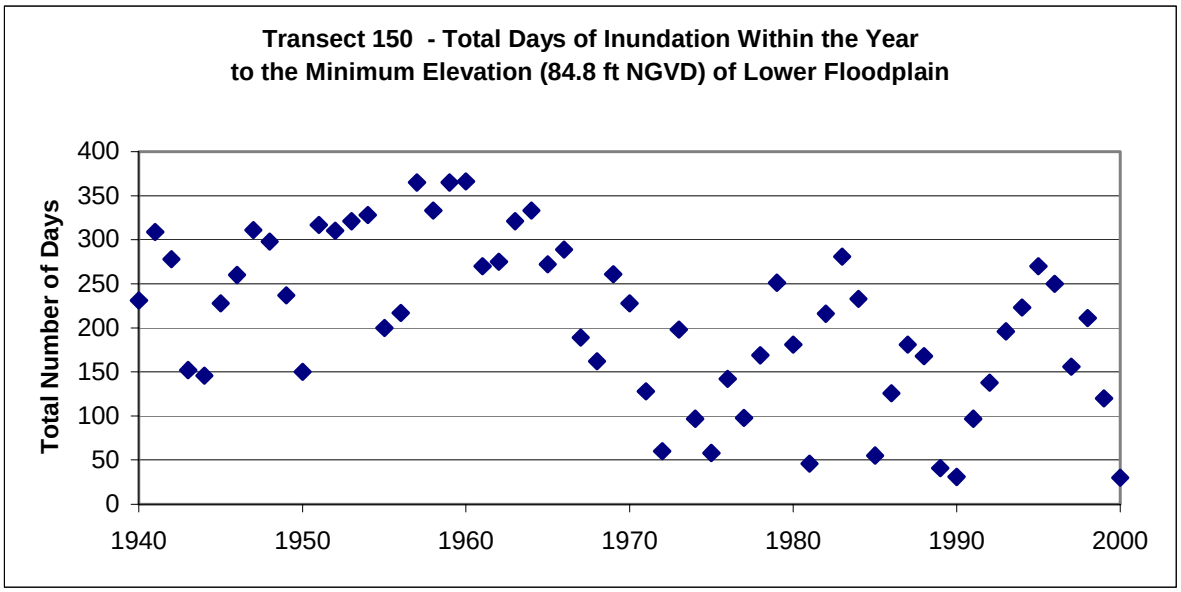

Transect 181 - Total Days of Inundation Within the Year
to the Minimum Elevation (93.5 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

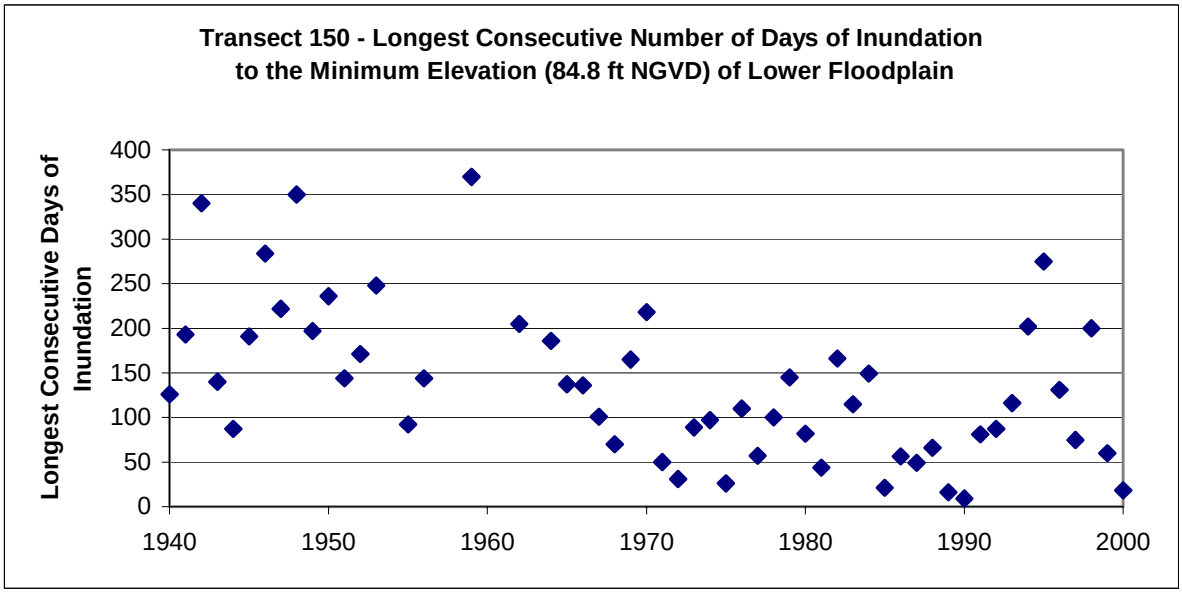

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (93.5 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

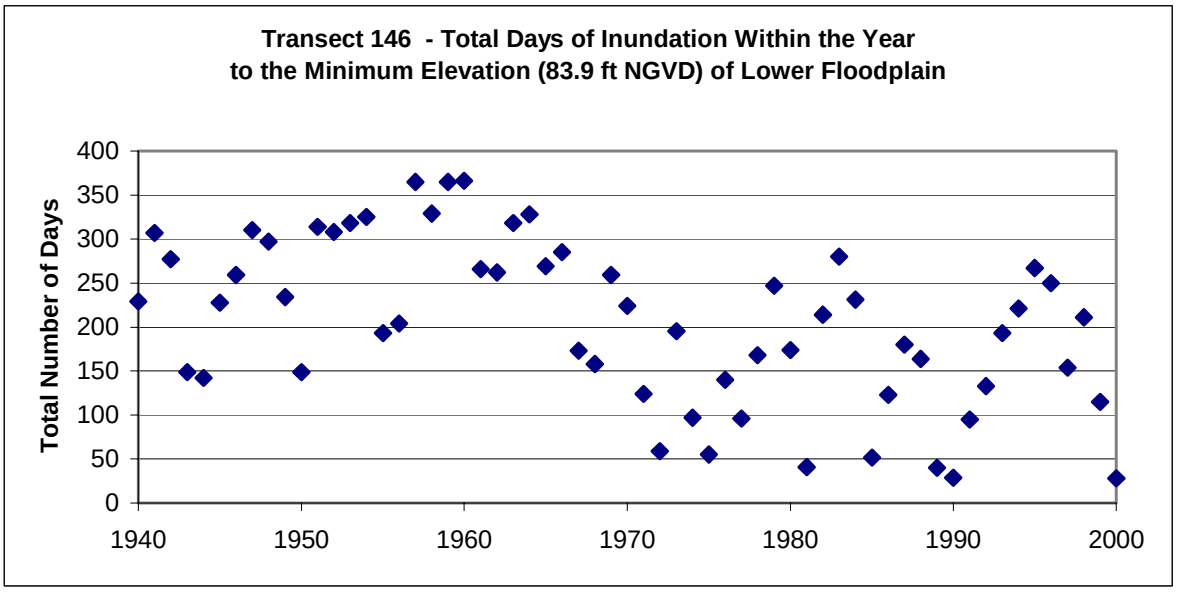

Transect 178 - Total Days of Inundation Within the Year
to the Minimum Elevation (92.3 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

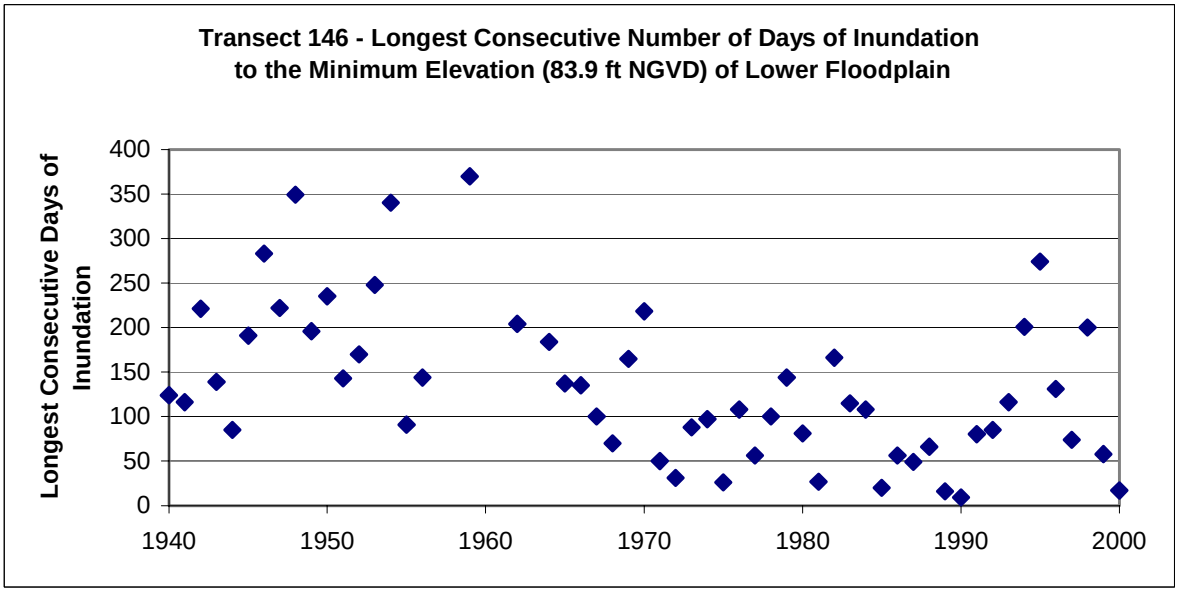

Transect 178 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (92.3 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

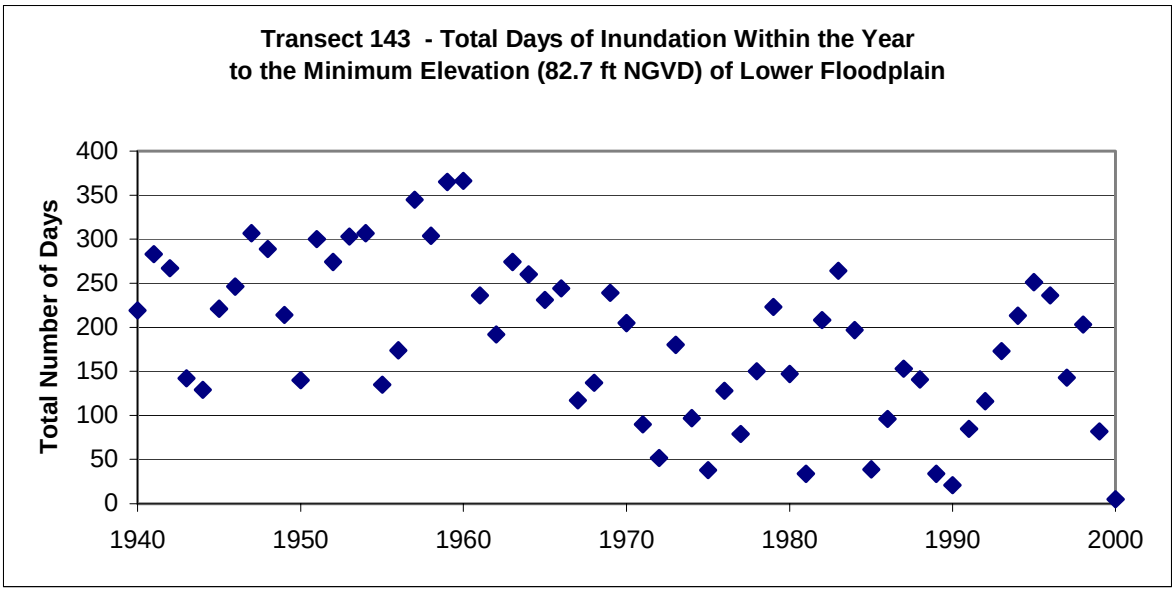

Transect 161 - Total Days of Inundation Within the Year
to the Minimum Elevation (85.6 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

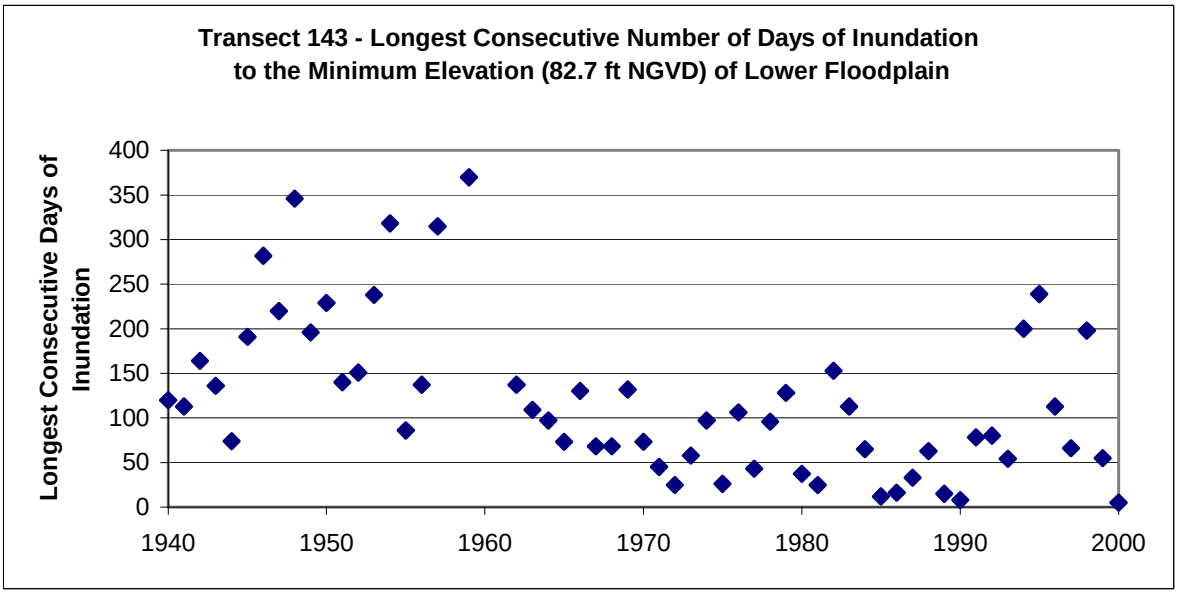

Transect 150 - Total Days of Inundation Within the Year
to the Minimum Elevation (84.8 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

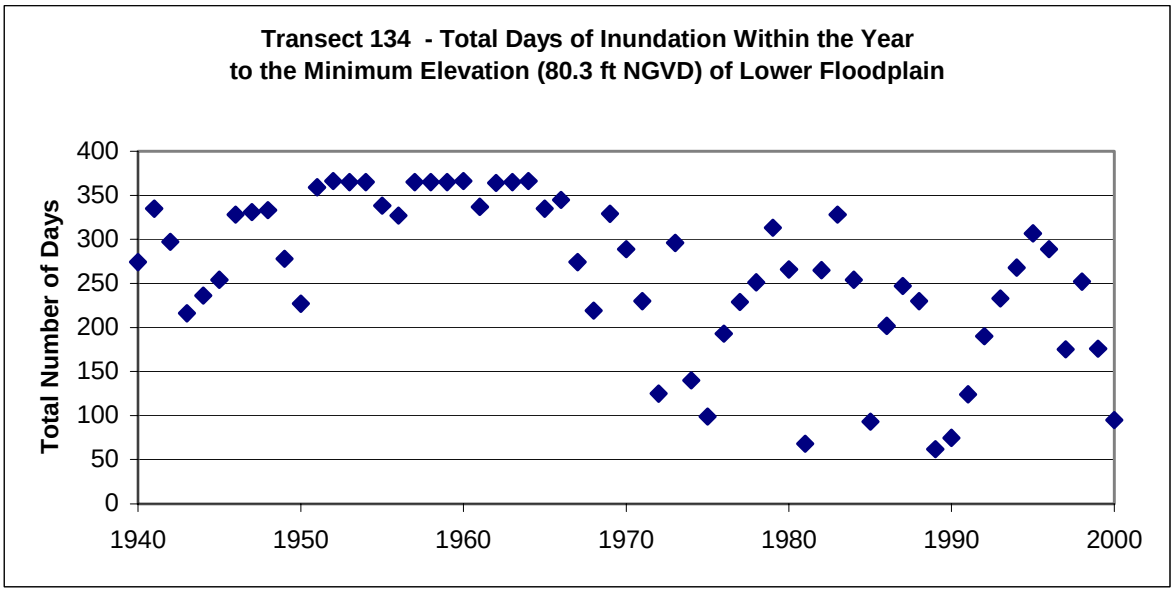

Transect 150 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (84.8 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

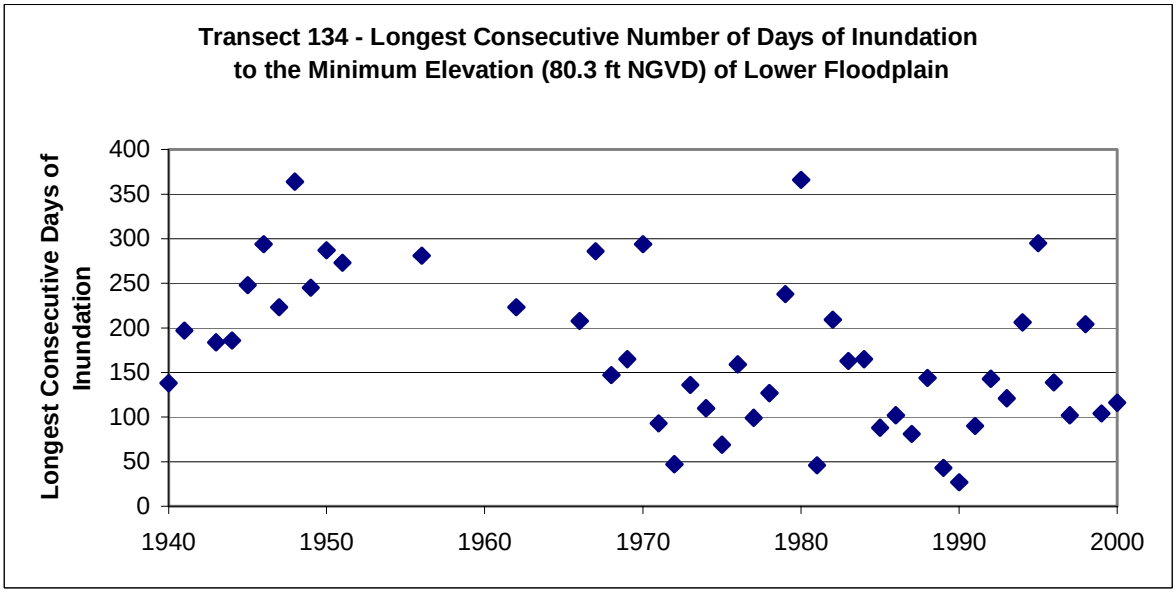

Transect 146 - Total Days of Inundation Within the Year
to the Minimum Elevation (83.9 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

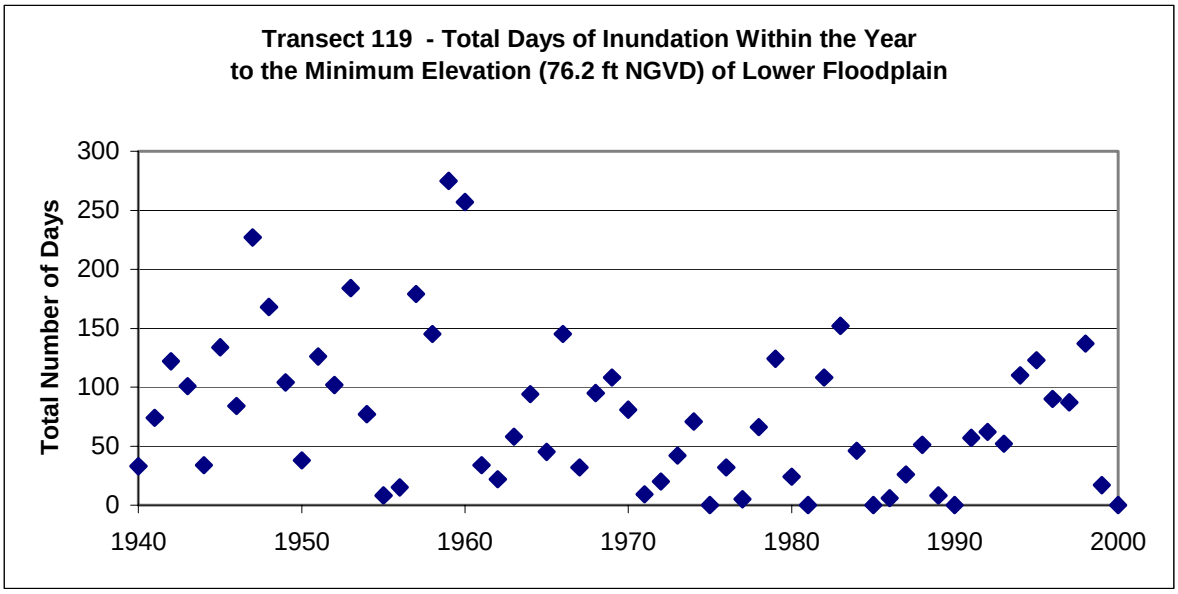

Transect 146 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (83.9 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

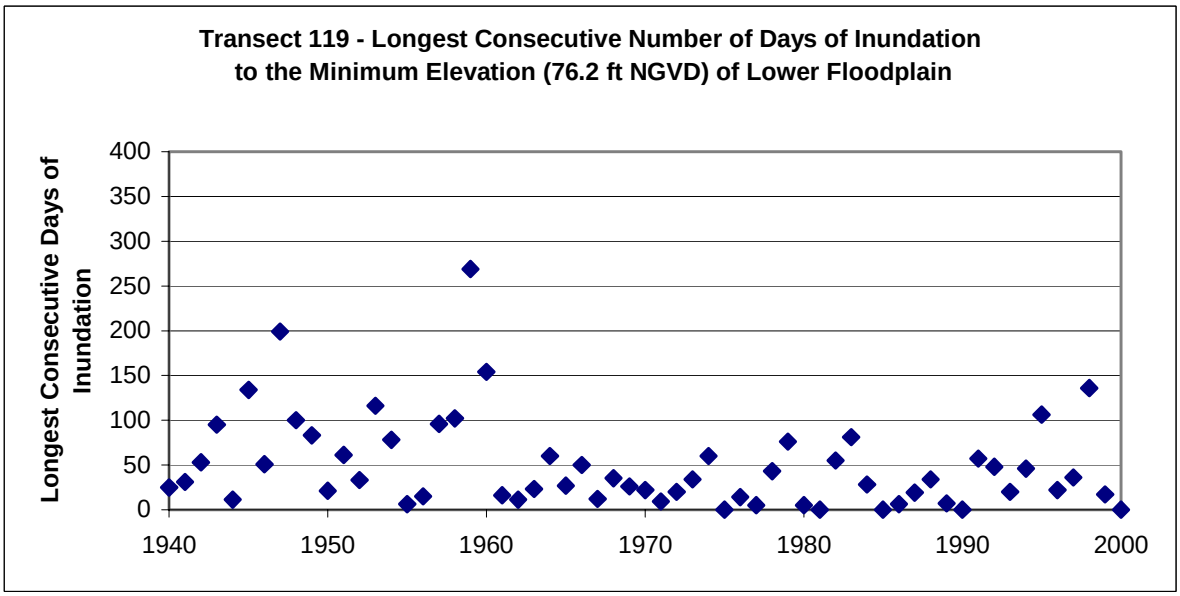

Transect 143 - Total Days of Inundation Within the Year
to the Minimum Elevation (82.7 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

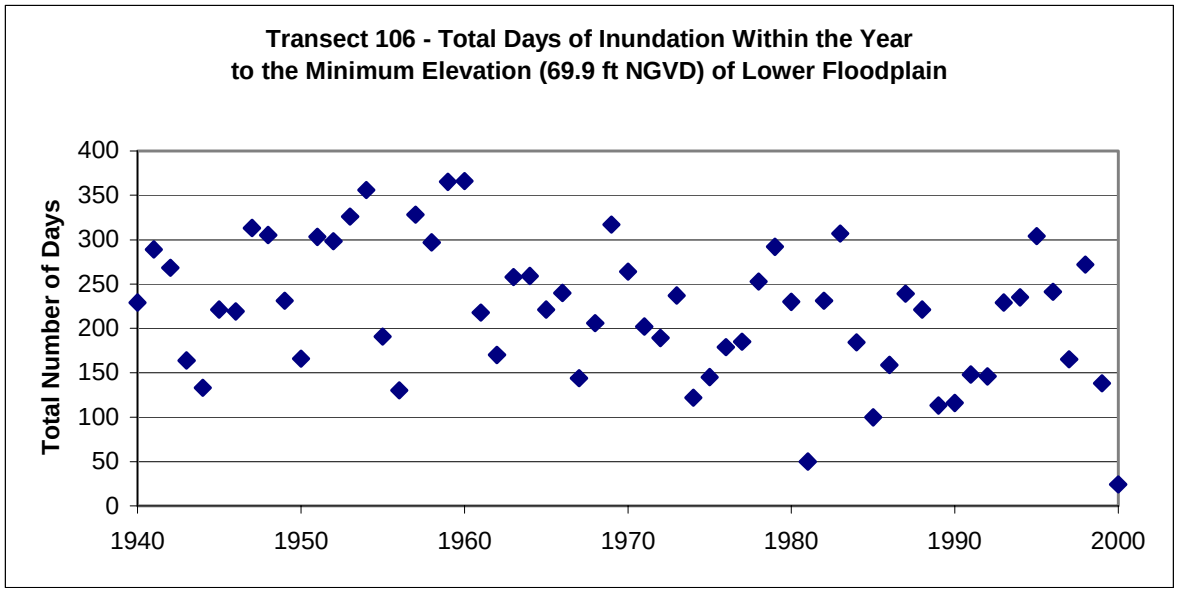

Transect 143 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (82.7 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

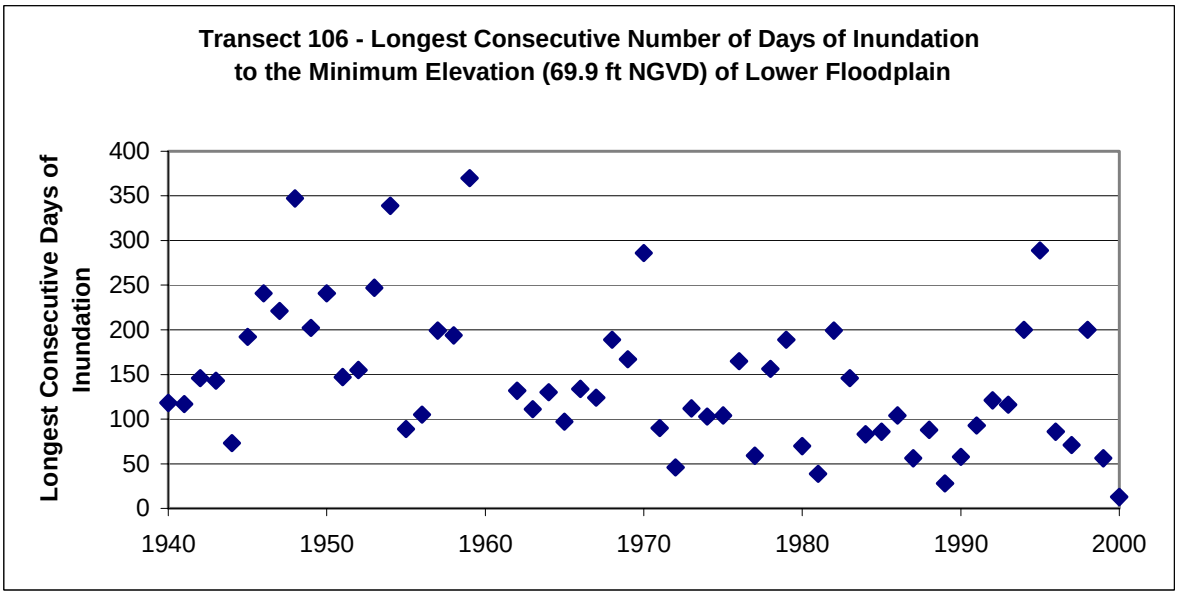

Transect 134 - Total Days of Inundation Within the Year
to the Minimum Elevation (80.3 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

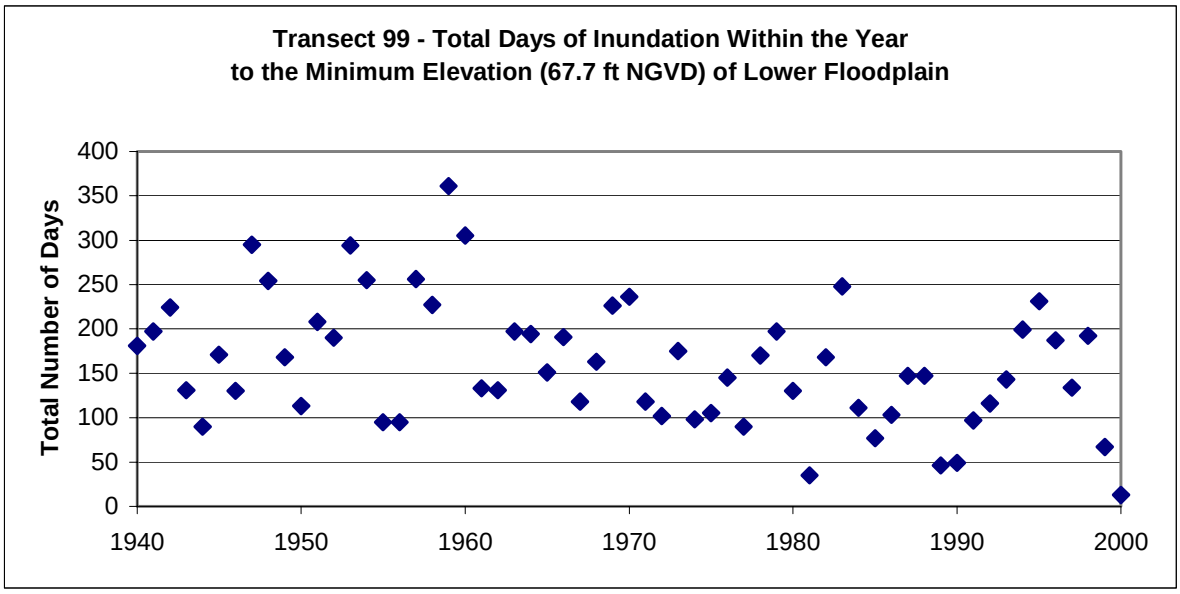

Transect 134 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (80.3 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

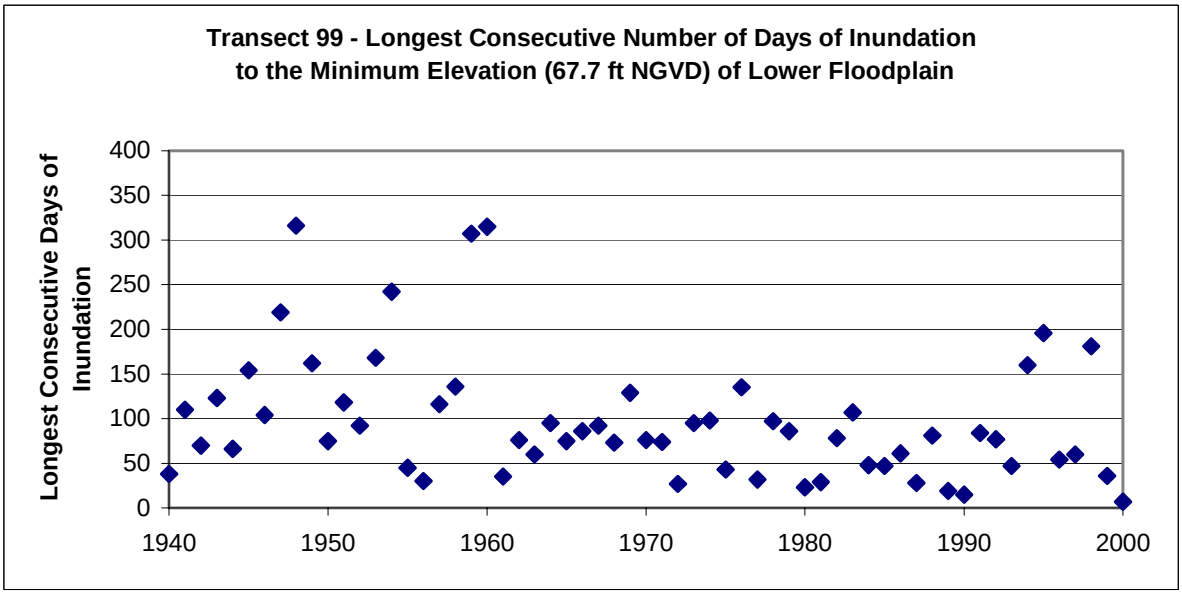

Transect 119 - Total Days of Inundation Within the Year
to the Minimum Elevation (76.2 ft NGVD) of Lower Floodplain
Total Number of Days
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

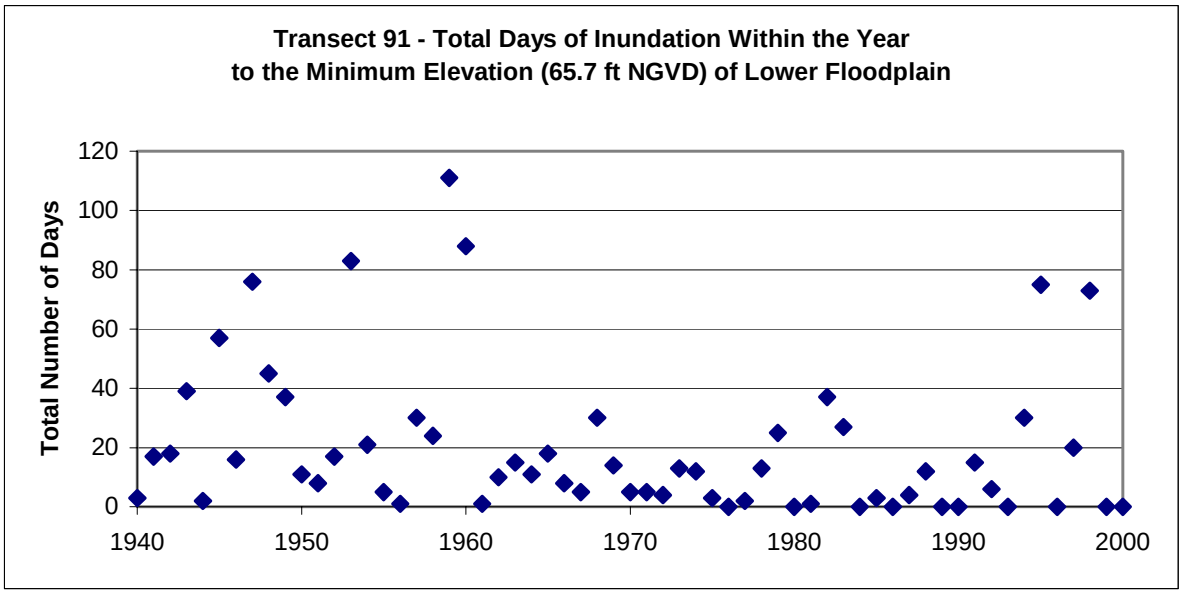

Transect 119 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (76.2 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

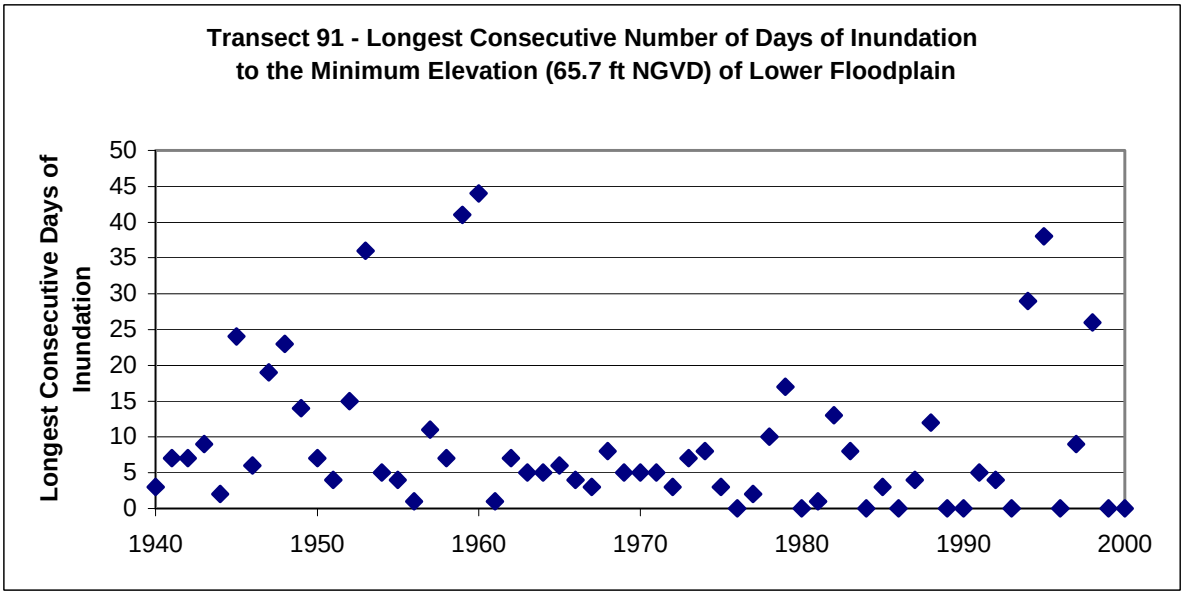

Transect 106 - Total Days of Inundation Within the Year
to the Minimum Elevation (69.9 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

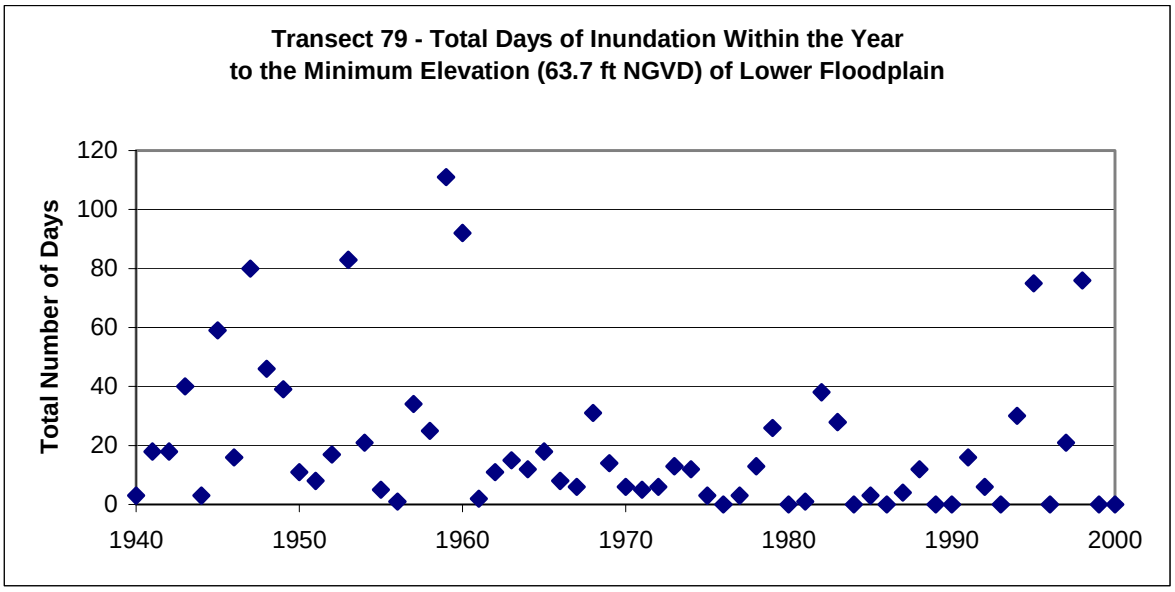

Transect 106 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (69.9 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

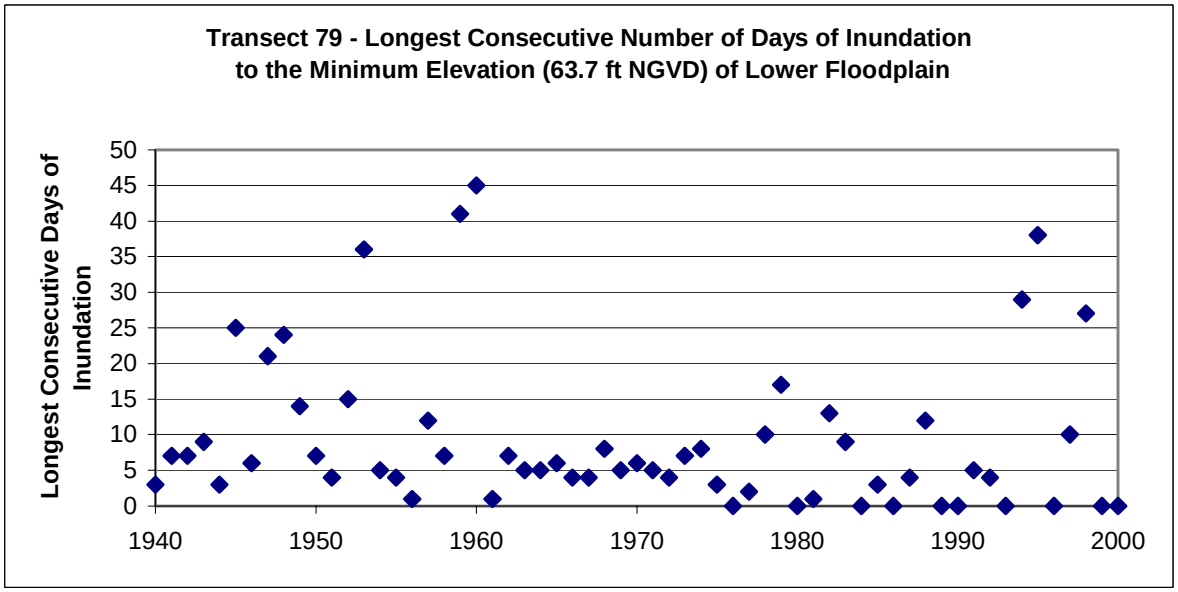

Transect 99 - Total Days of Inundation Within the Year
to the Minimum Elevation (67.7 ft NGVD) of Lower Floodplain
Total Number of Days
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

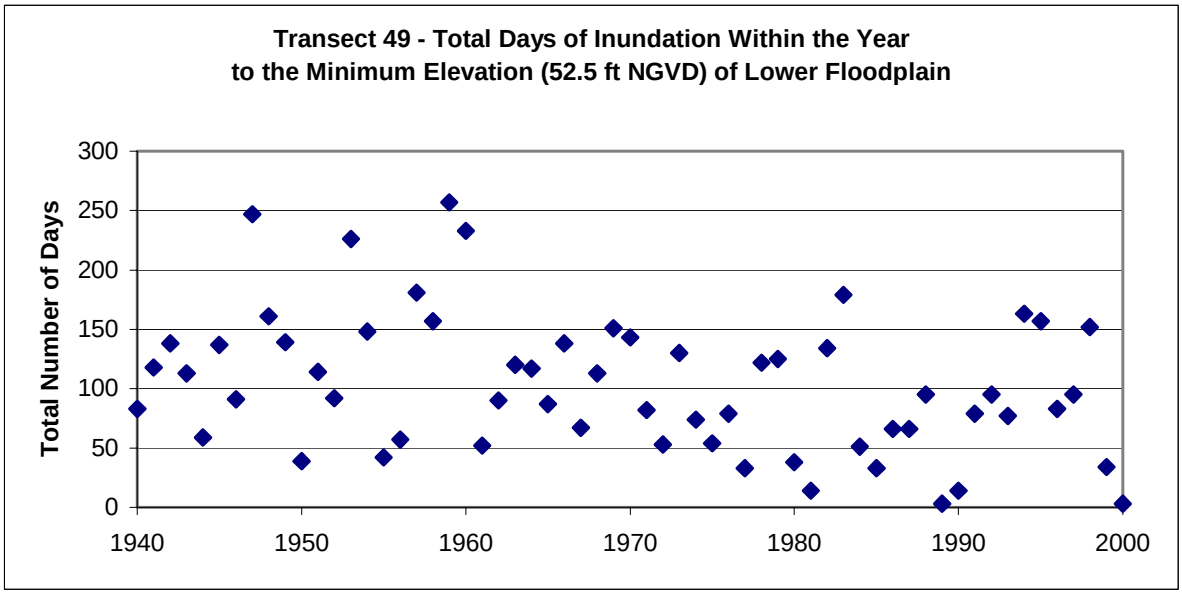

Transect 99 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (67.7 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
400
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

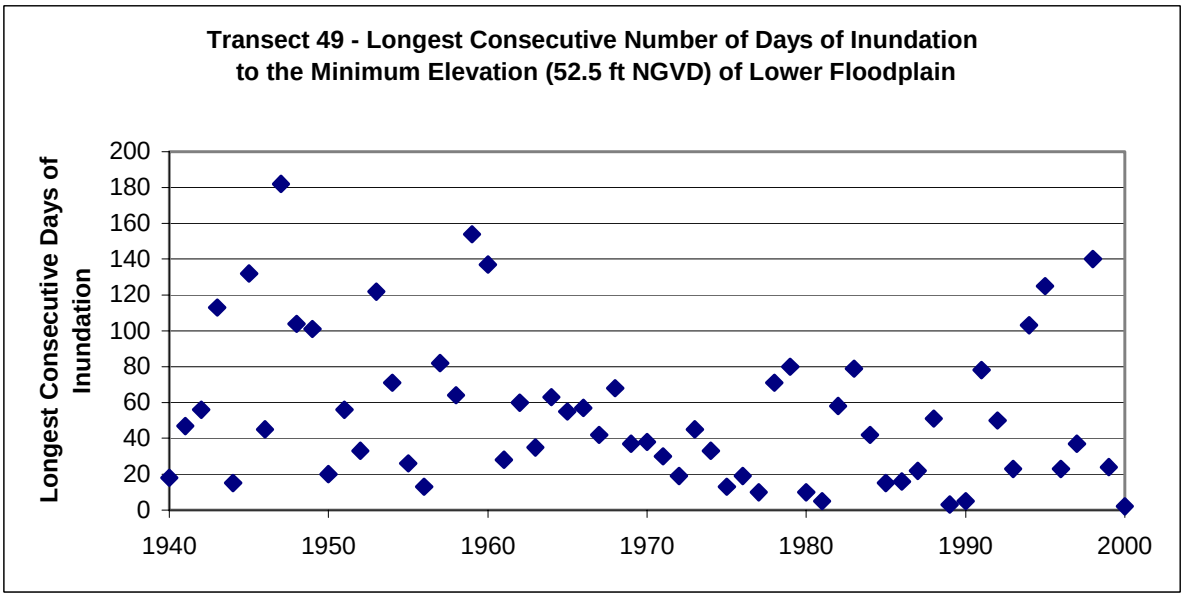

Transect 91 - Total Days of Inundation Within the Year
to the Minimum Elevation (65.7 ft NGVD) of Lower Floodplain
Total Number of Days
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

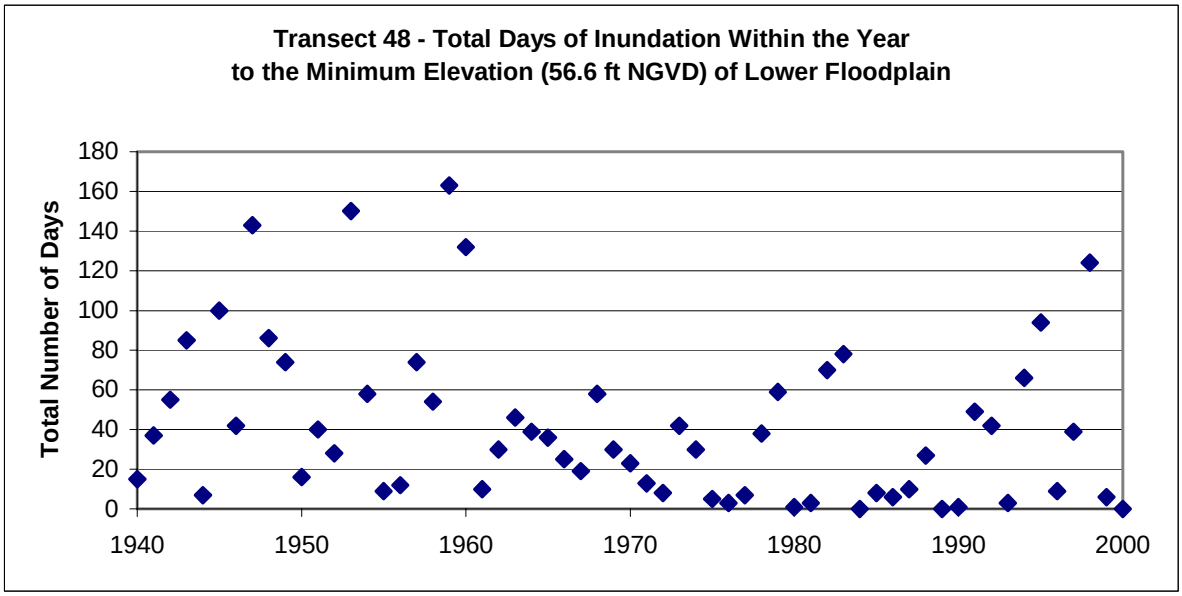

Transect 91 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (65.7 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
50
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

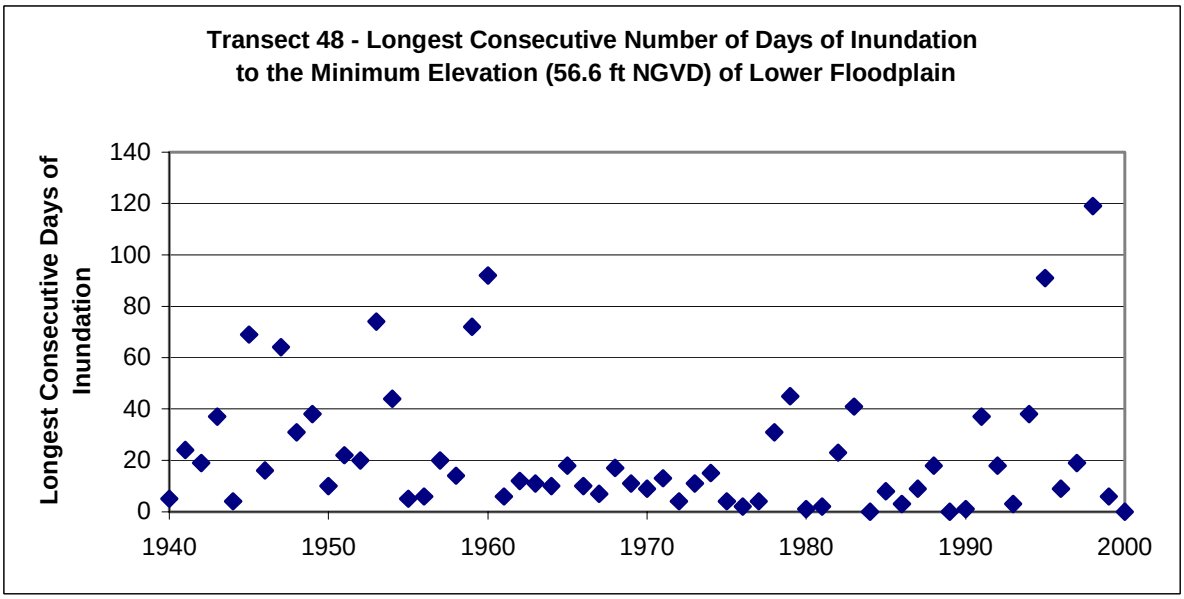

Transect 79 - Total Days of Inundation Within the Year
to the Minimum Elevation (63.7 ft NGVD) of Lower Floodplain
Total Number of Days
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

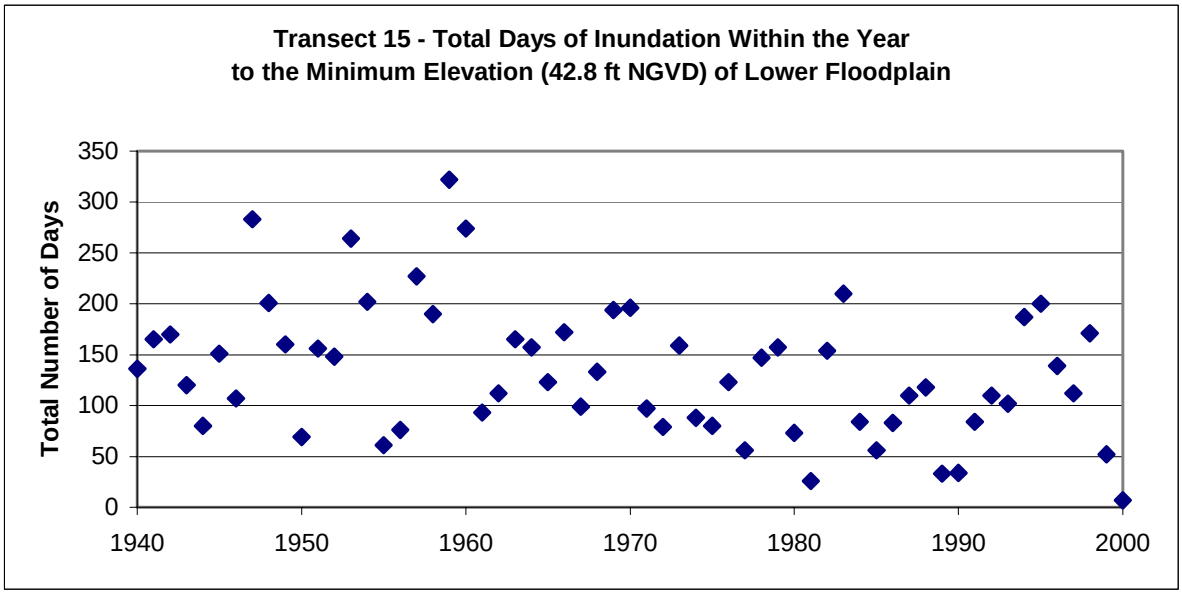

Transect 79 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (63.7 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
50
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

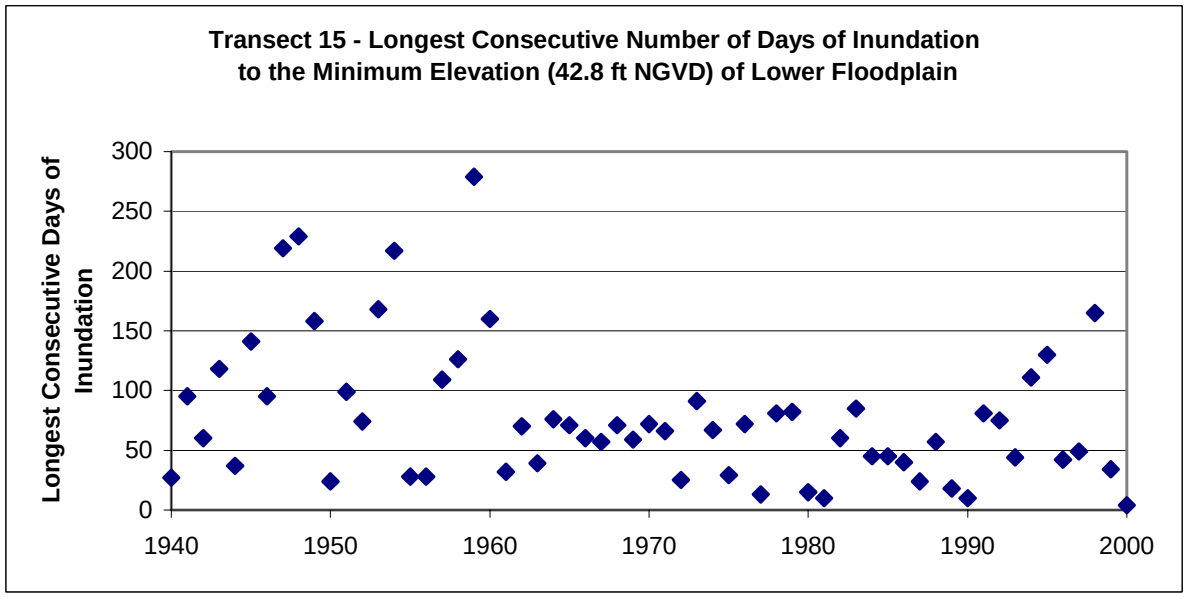

Transect 49 - Total Days of Inundation Within the Year
to the Minimum Elevation (52.5 ft NGVD) of Lower Floodplain
Total Number of Days
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

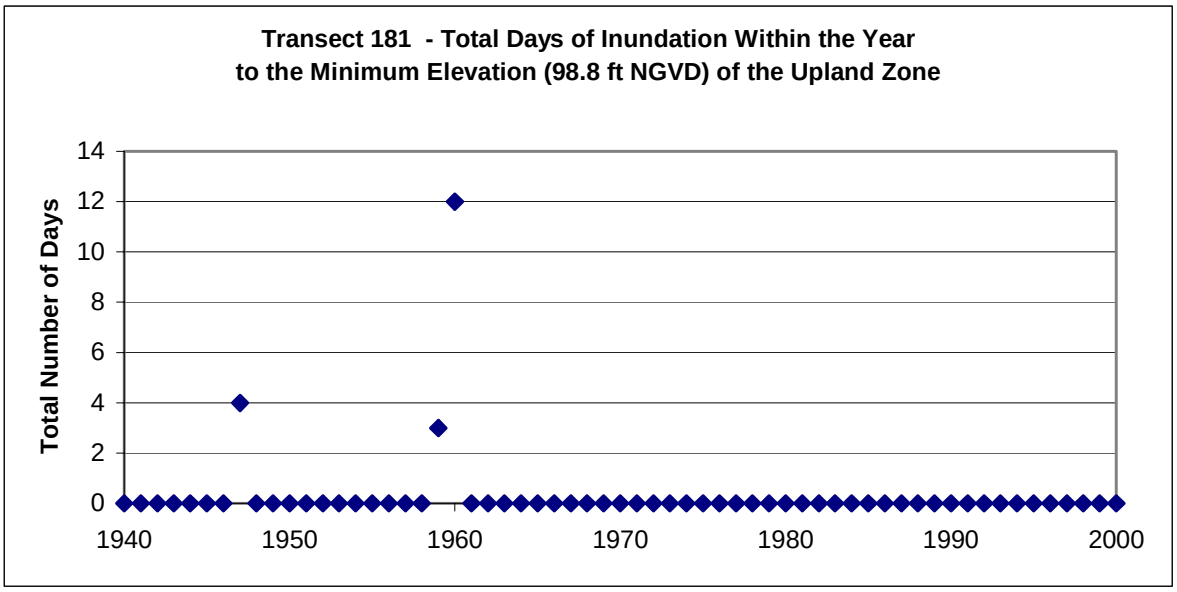

Transect 49 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (52.5 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
200
180
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

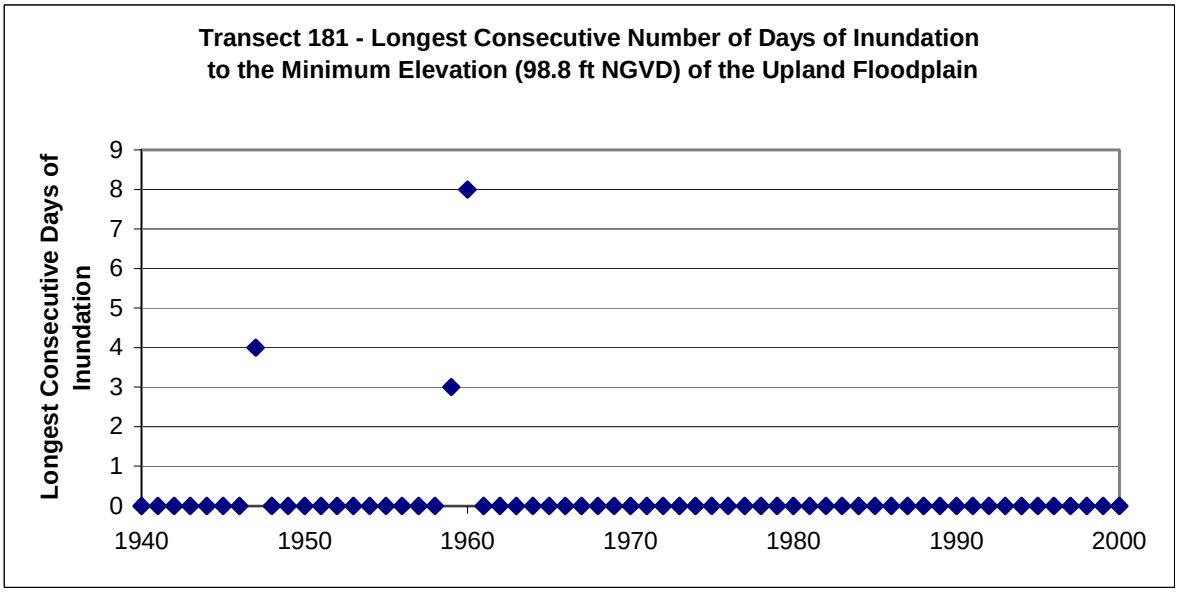

Transect 48 - Total Days of Inundation Within the Year
to the Minimum Elevation (56.6 ft NGVD) of Lower Floodplain
Total Number of Days
180
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

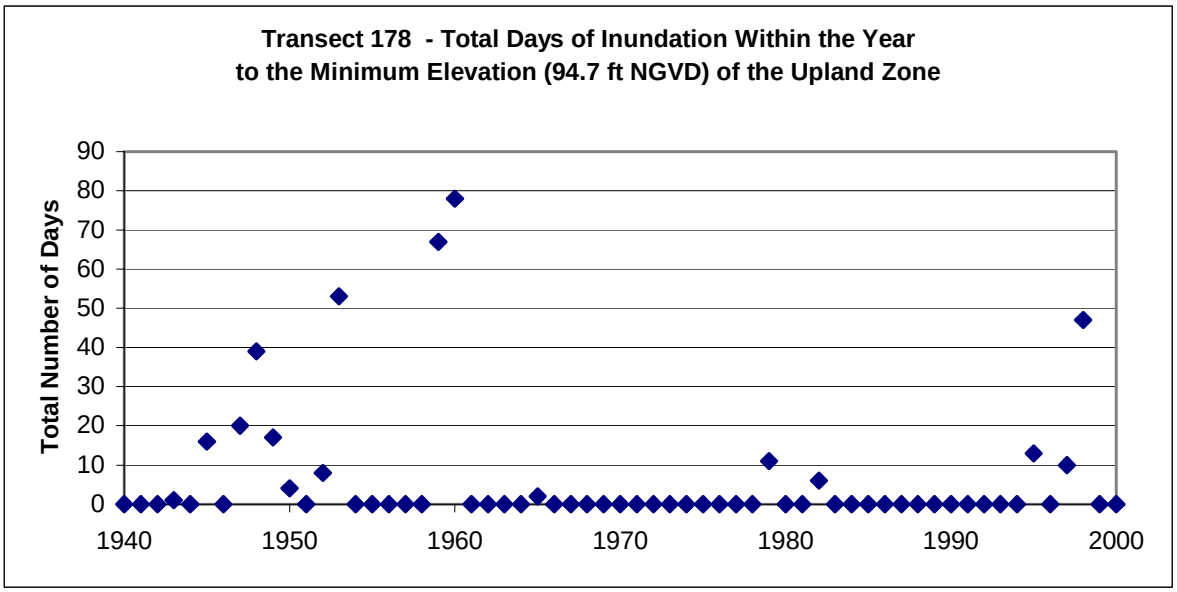

Transect 48 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (56.6 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

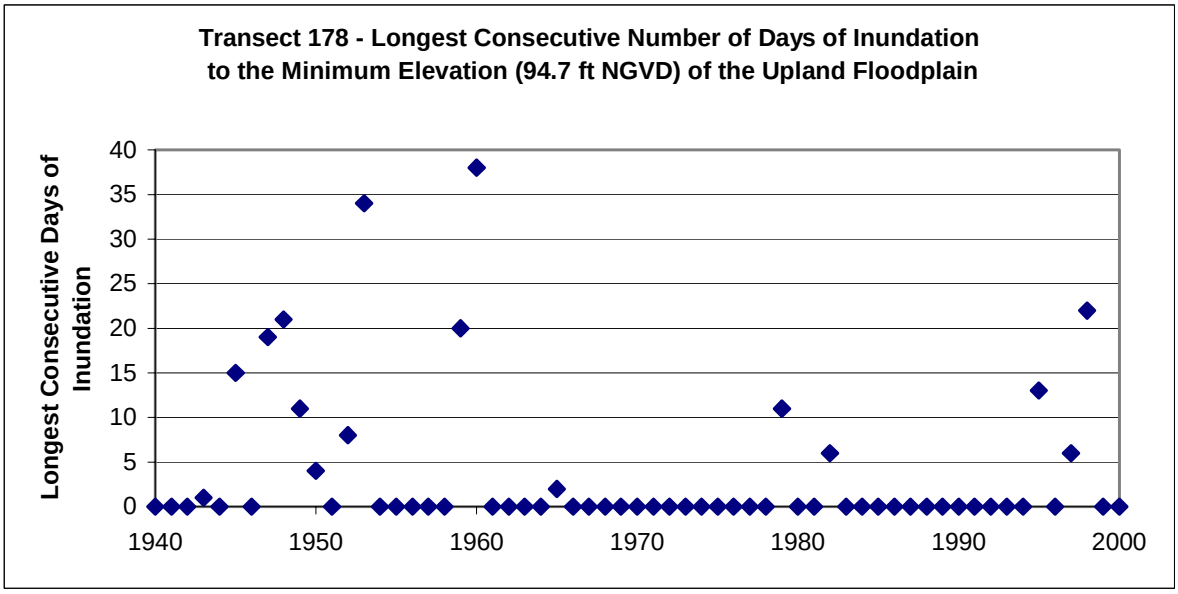

Transect 15 - Total Days of Inundation Within the Year
to the Minimum Elevation (42.8 ft NGVD) of Lower Floodplain
Total Number of Days
350
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

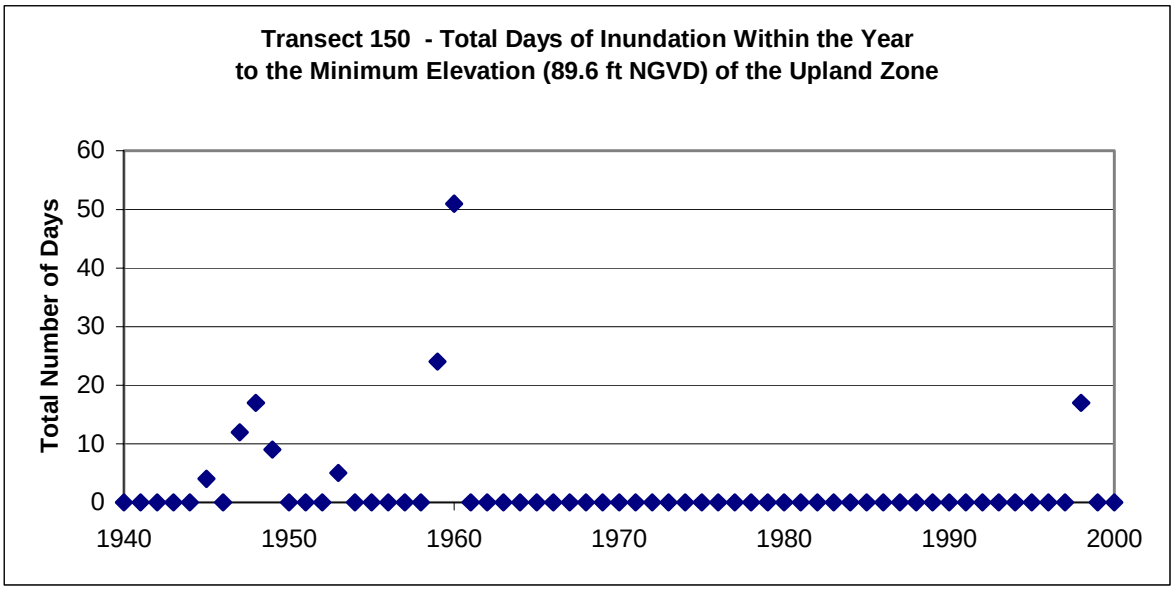

Transect 15 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (42.8 ft NGVD) of Lower Floodplain
Longest Consecutive Days of Inundation
300
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

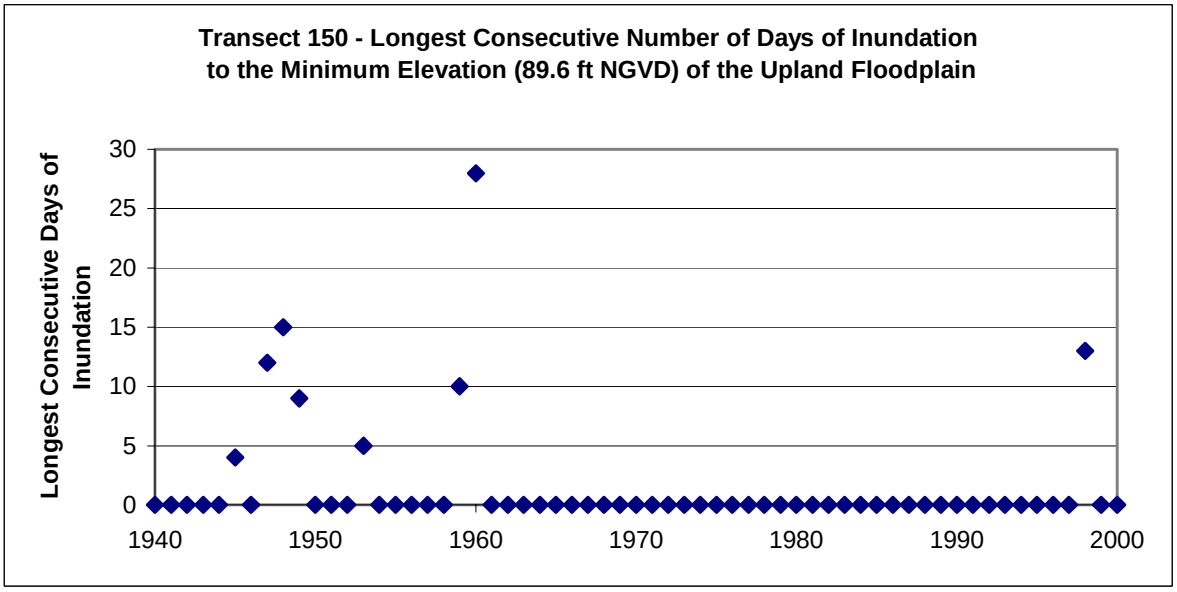

Transect 181 - Total Days of Inundation Within the Year
to the Minimum Elevation (98.8 ft NGVD) of the Upland Zone
Total Number of Days
14
12
10
8
6
4
2
0
1940
1950
1960
1970
1980
1990
2000

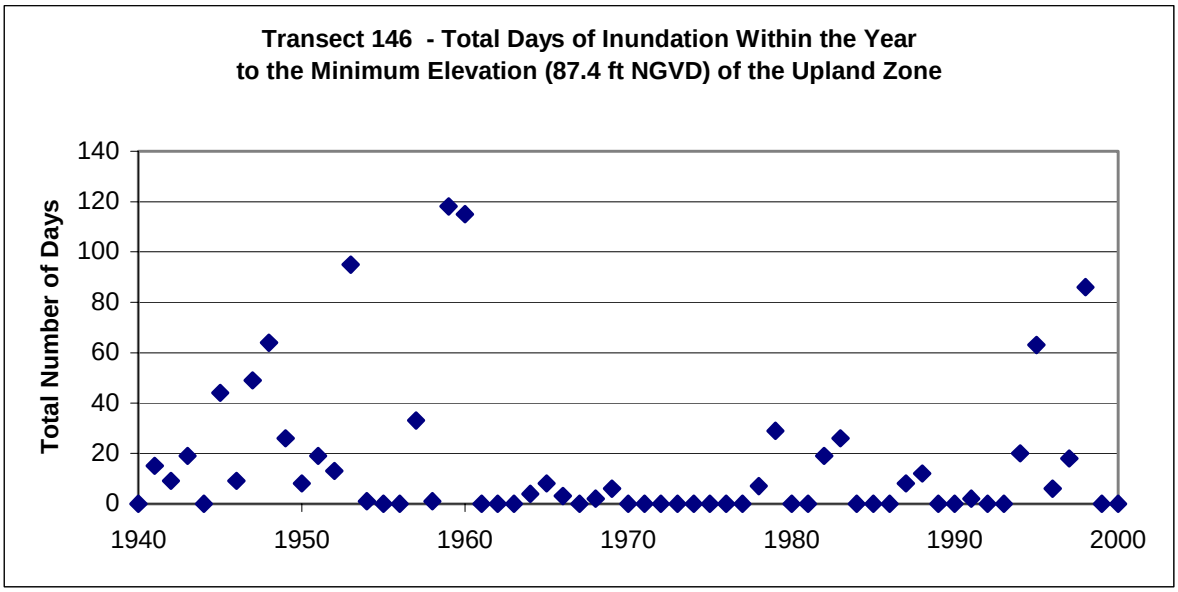

Transect 181 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (98.8 ft NGVD) of the Upland Floodplain
Longest Consecutive Days of Inundation
9
8
7
6
5
4
3
2
1
0
1940
1950
1960
1970
1980
1990
2000

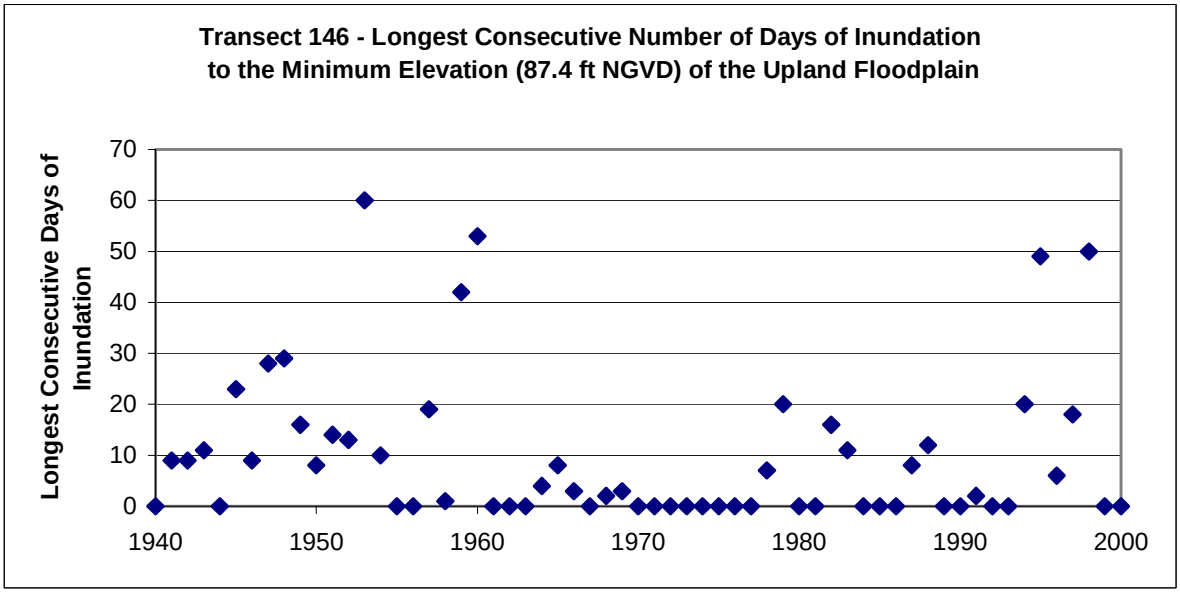

Transect 178 - Total Days of Inundation Within the Year
to the Minimum Elevation (94.7 ft NGVD) of the Upland Zone
Total Number of Days
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

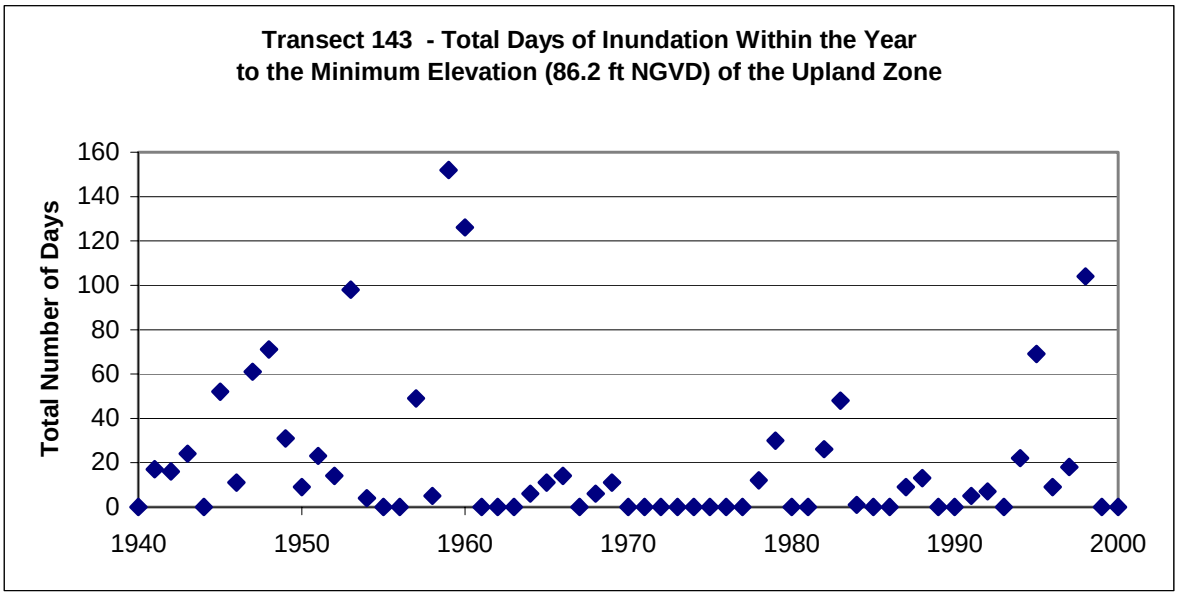

Transect 178 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (94.7 ft NGVD) of the Upland Floodplain
Longest Consecutive Days of Inundation
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

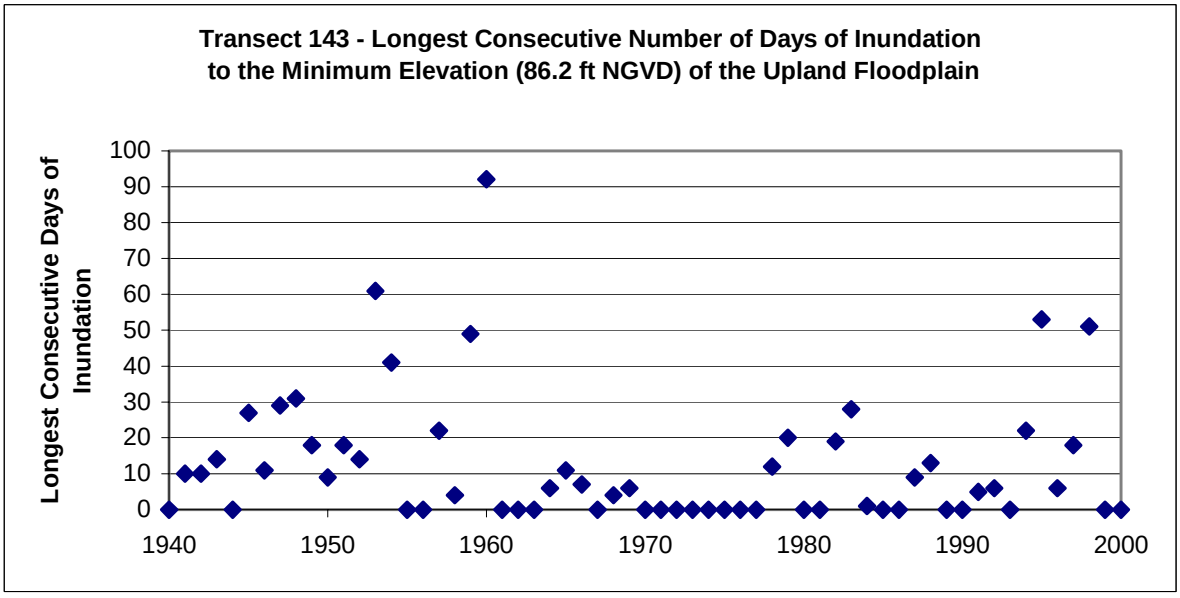

Transect 150 - Total Days of Inundation Within the Year
to the Minimum Elevation (89.6 ft NGVD) of the Upland Zone
Total Number of Days
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

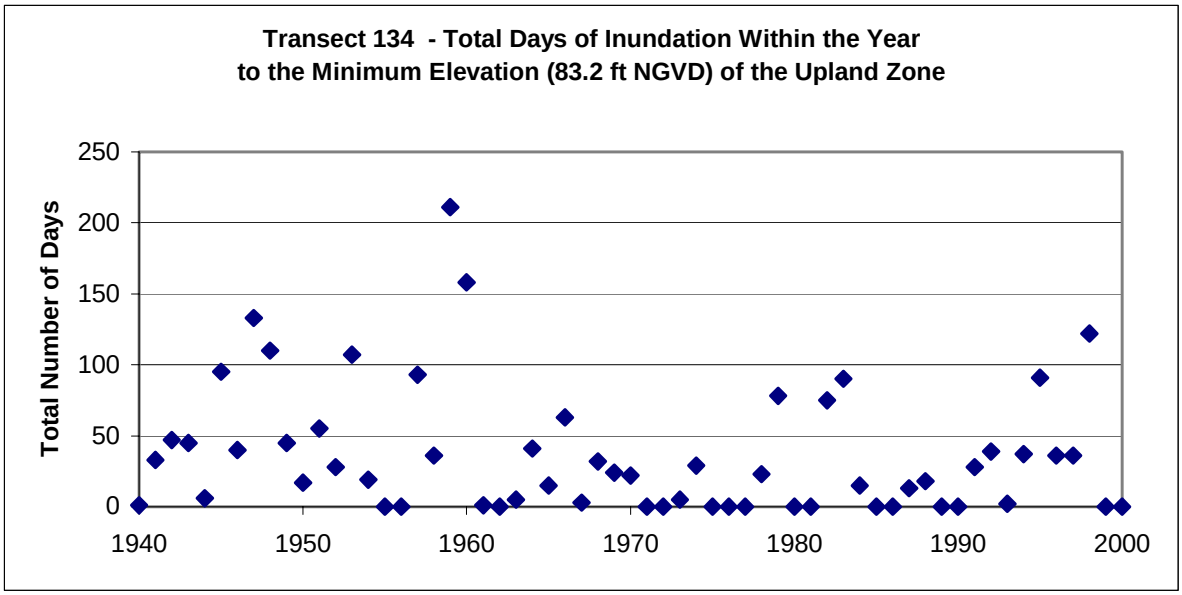

Transect 150 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (89.6 ft NGVD) of the Upland Floodplain
Longest Consecutive Days of Inundation
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

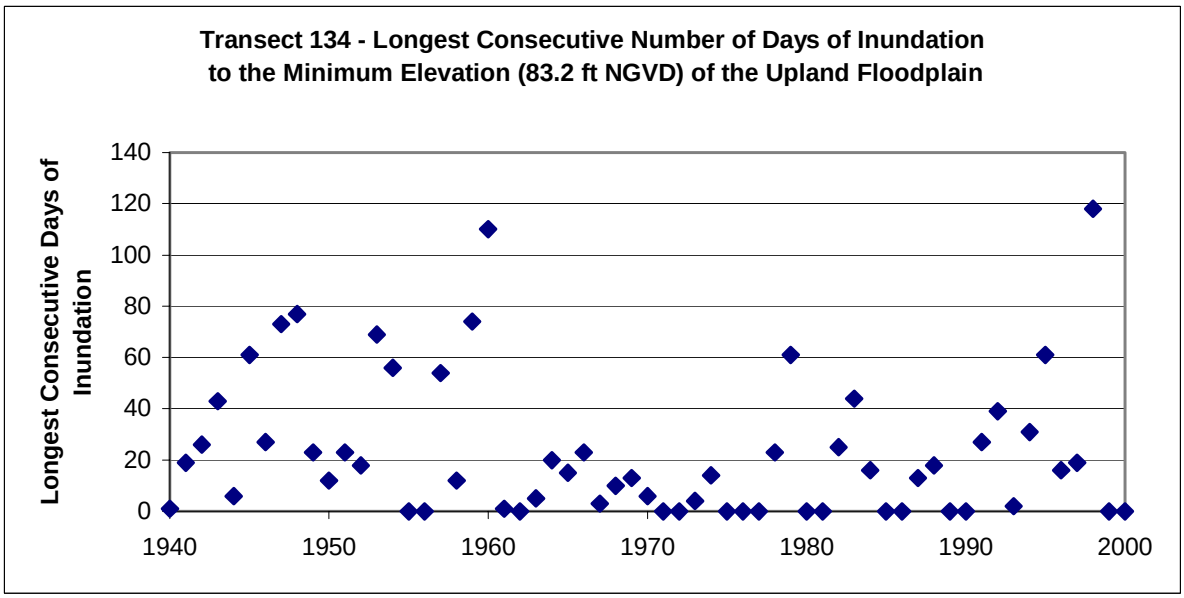

Transect 146 - Total Days of Inundation Within the Year
to the Minimum Elevation (87.4 ft NGVD) of the Upland Zone
Total Number of Days
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

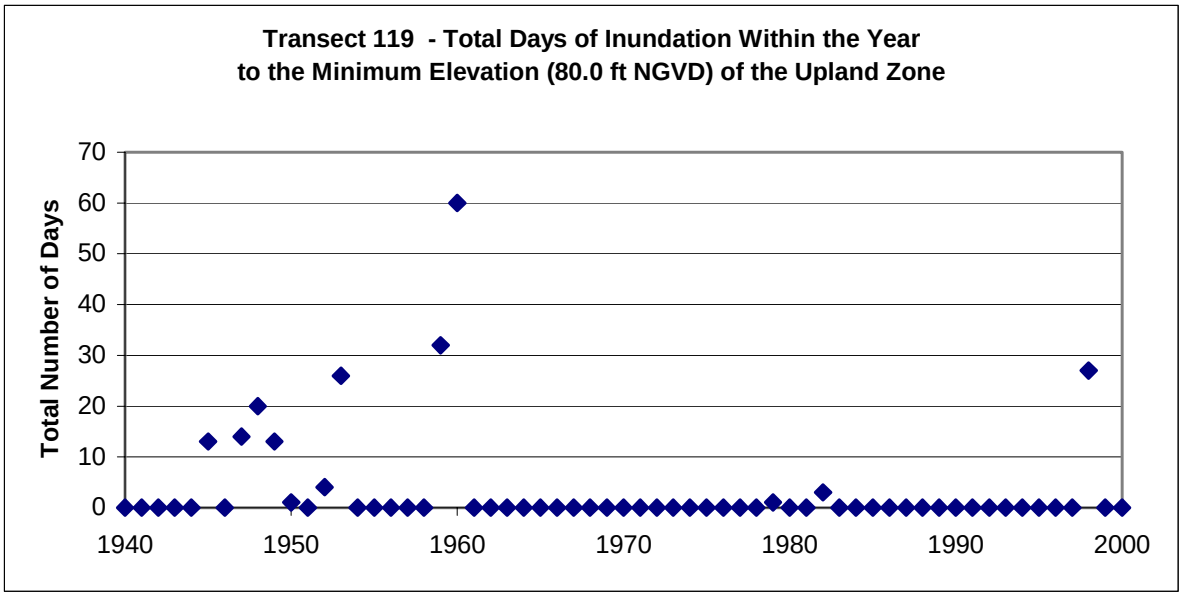

Transect 146 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (87.4 ft NGVD) of the Upland Floodplain
Longest Consecutive Days of Inundation
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

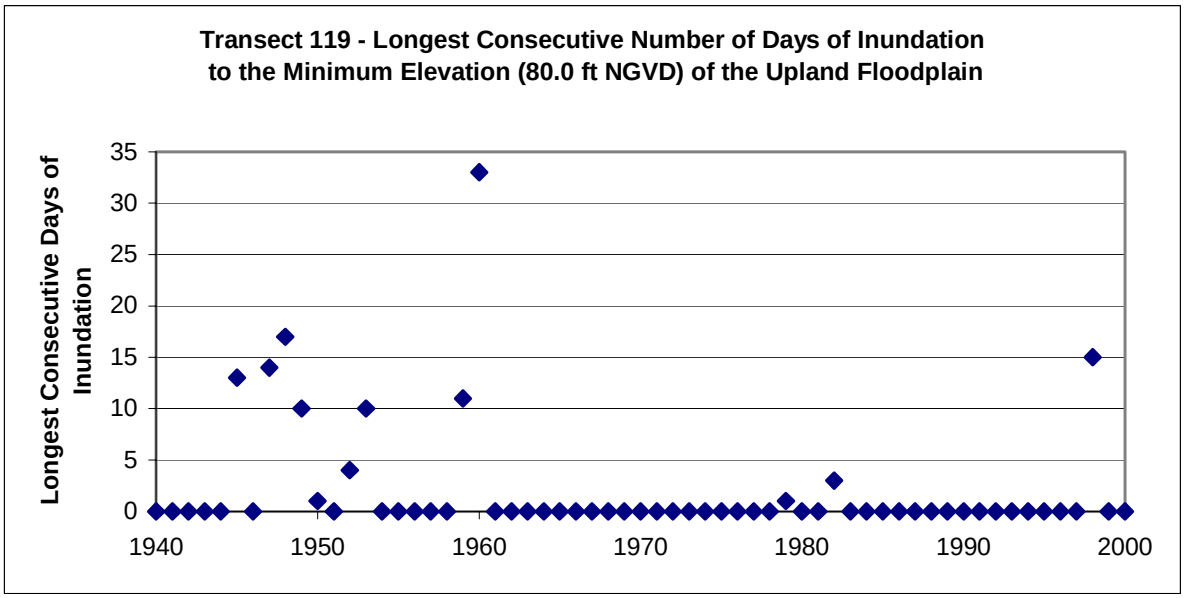

Transect 143 - Total Days of Inundation Within the Year
to the Minimum Elevation (86.2 ft NGVD) of the Upland Zone
Total Number of Days
160
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

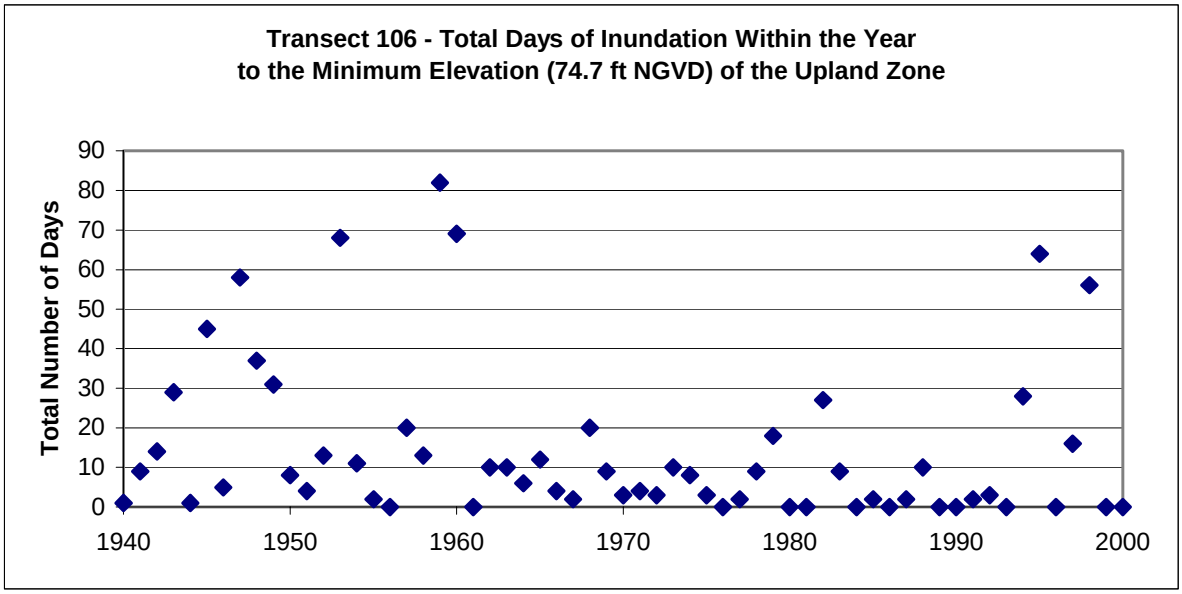

Transect 143 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (86.2 ft NGVD) of the Upland Floodplain
Longest Consecutive Days of Inundation
100
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

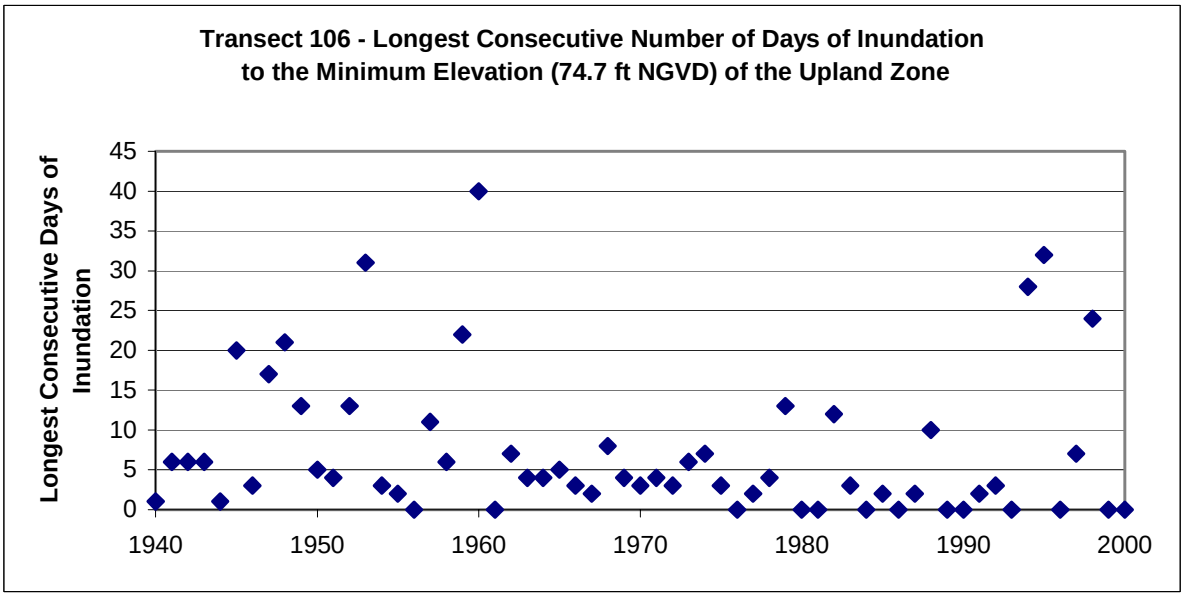

Transect 134 - Total Days of Inundation Within the Year
to the Minimum Elevation (83.2 ft NGVD) of the Upland Zone
Total Number of Days
250
200
150
100
50
0
1940
1950
1960
1970
1980
1990
2000

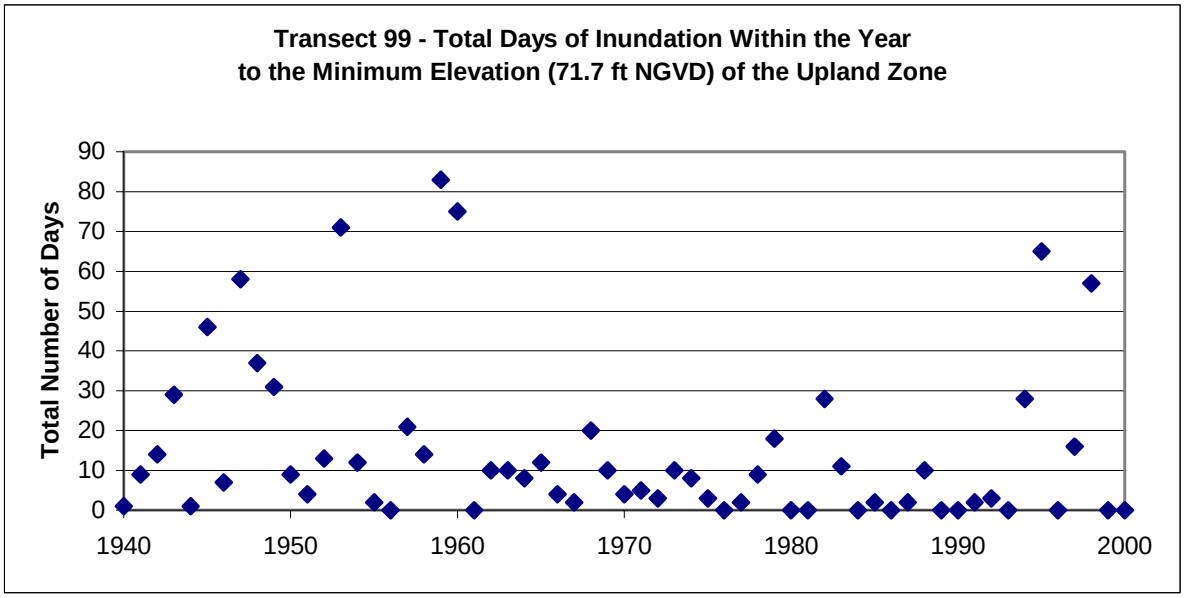

Transect 134 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (83.2 ft NGVD) of the Upland Floodplain
Longest Consecutive Days of Inundation
140
120
100
80
60
40
20
0
1940
1950
1960
1970
1980
1990
2000

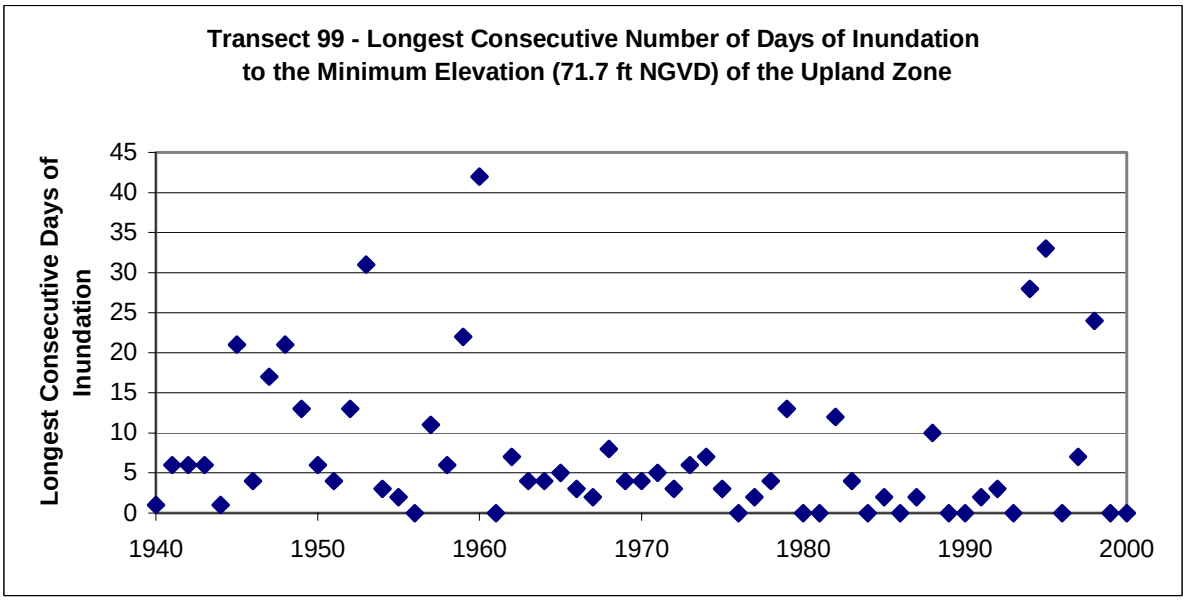

Transect 119 - Total Days of Inundation Within the Year
to the Minimum Elevation (80.0 ft NGVD) of the Upland Zone
Total Number of Days
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

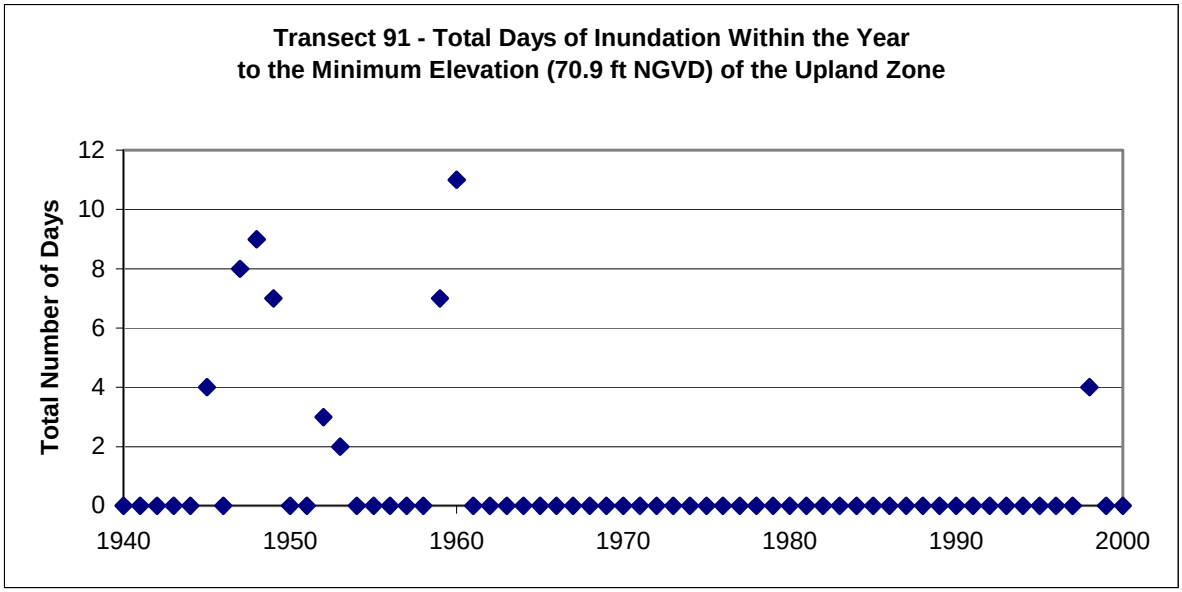

Transect 119 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (80.0 ft NGVD) of the Upland Floodplain
Longest Consecutive Days of Inundation
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

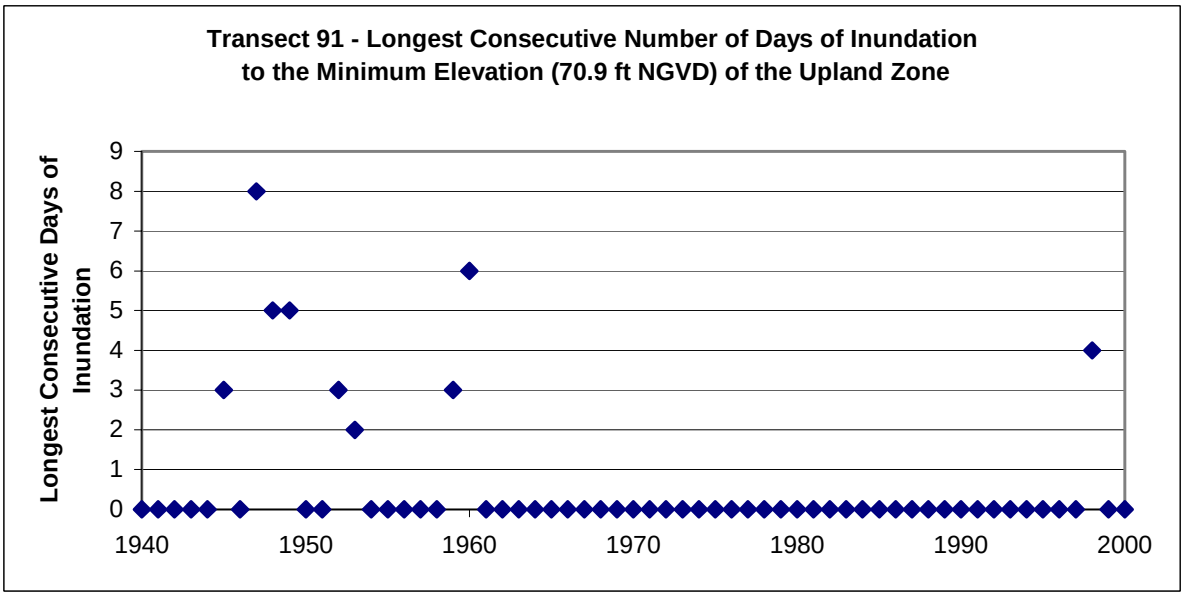

Transect 106 - Total Days of Inundation Within the Year
to the Minimum Elevation (74.7 ft NGVD) of the Upland Zone
Total Number of Days
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

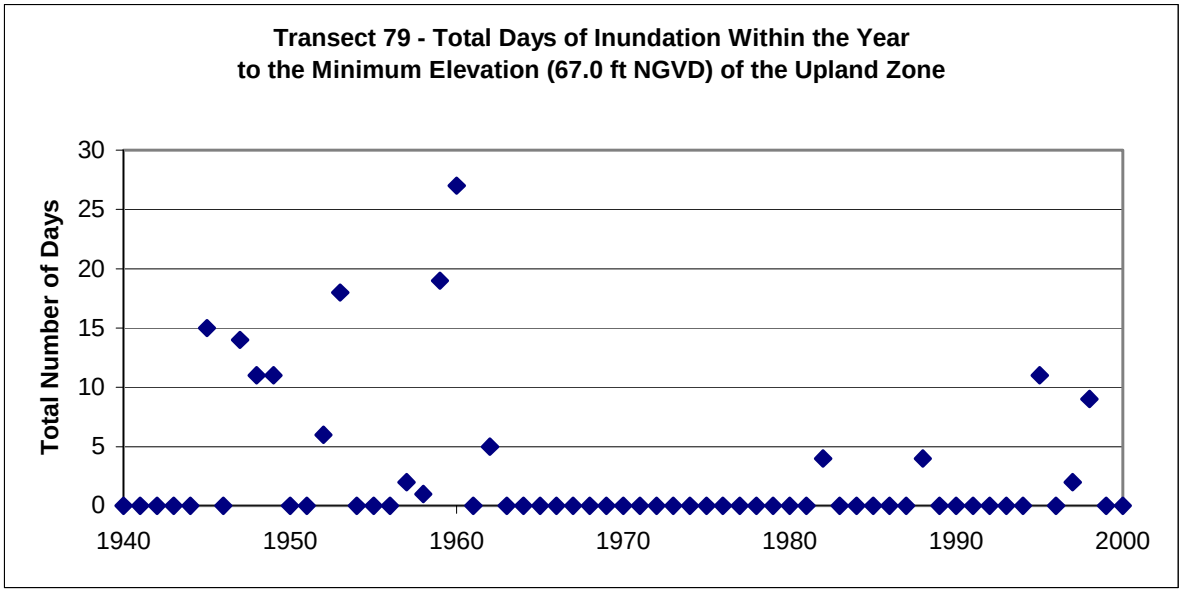

Transect 106 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (74.7 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

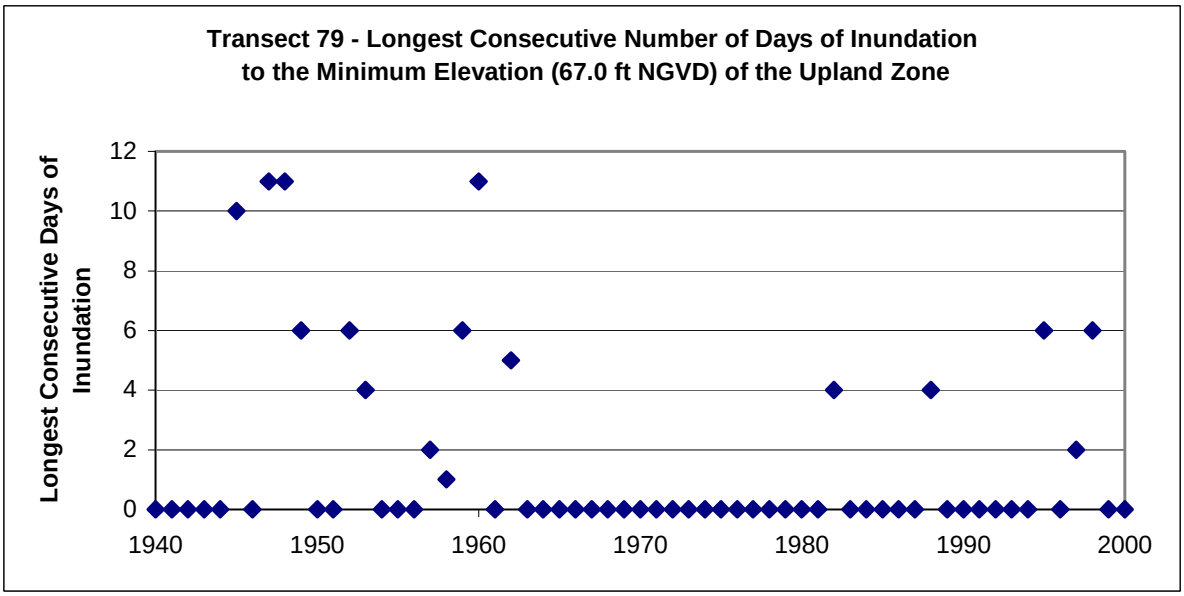

Transect 99 - Total Days of Inundation Within the Year
to the Minimum Elevation (71.7 ft NGVD) of the Upland Zone
Total Number of Days
90
80
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

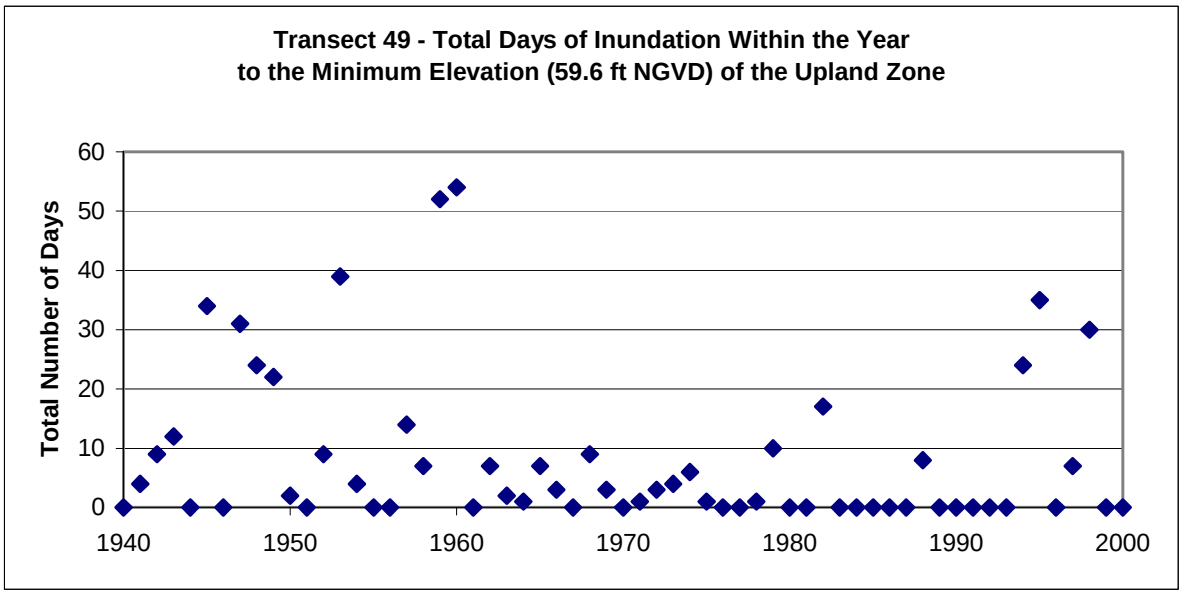

Transect 99 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (71.7 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

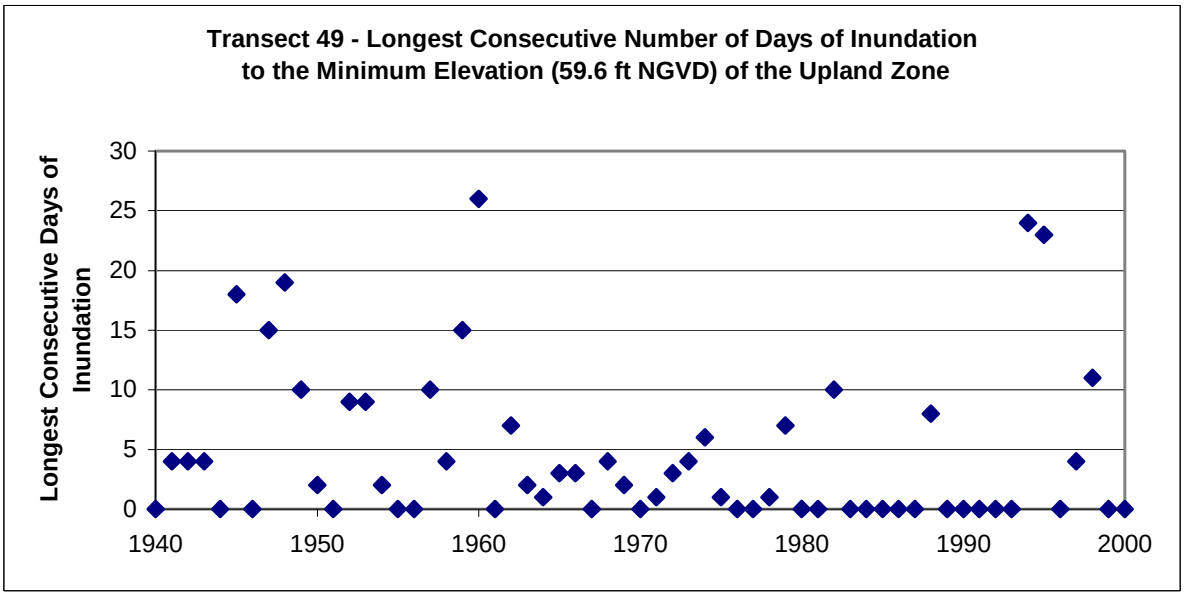

Transect 91 - Total Days of Inundation Within the Year
to the Minimum Elevation (70.9 ft NGVD) of the Upland Zone
Total Number of Days
0
2
4
6
8
10
12
1940
1950
1960
1970
1980
1990
2000

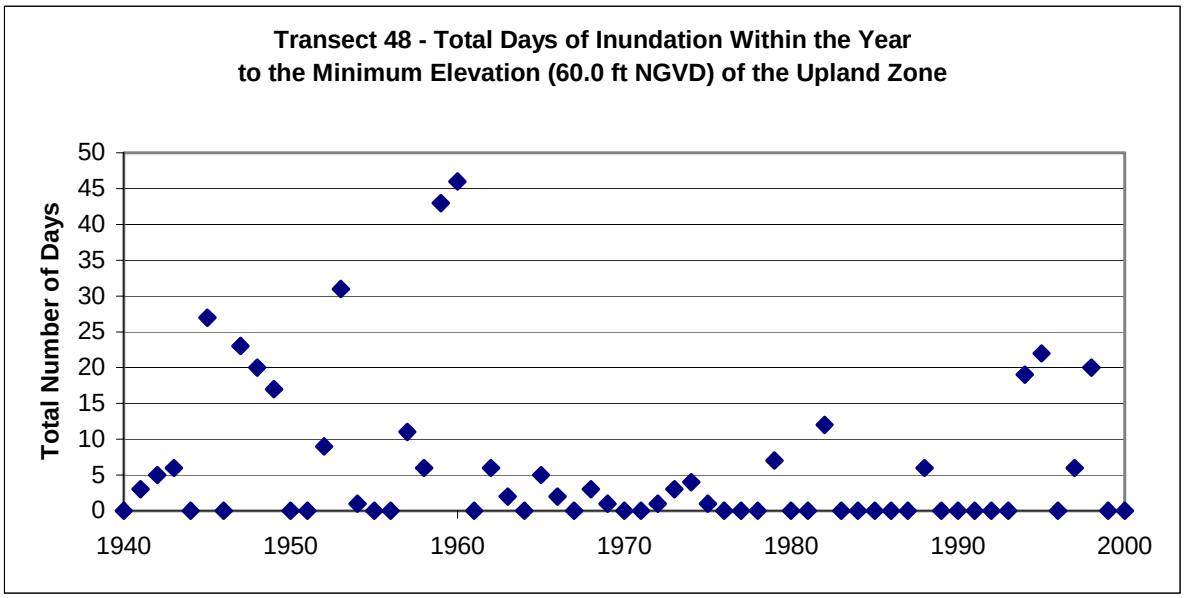

Transect 91 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (70.9 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
0
1
2
3
4
5
6
7
8
9
1940
1950
1960
1970
1980
1990
2000

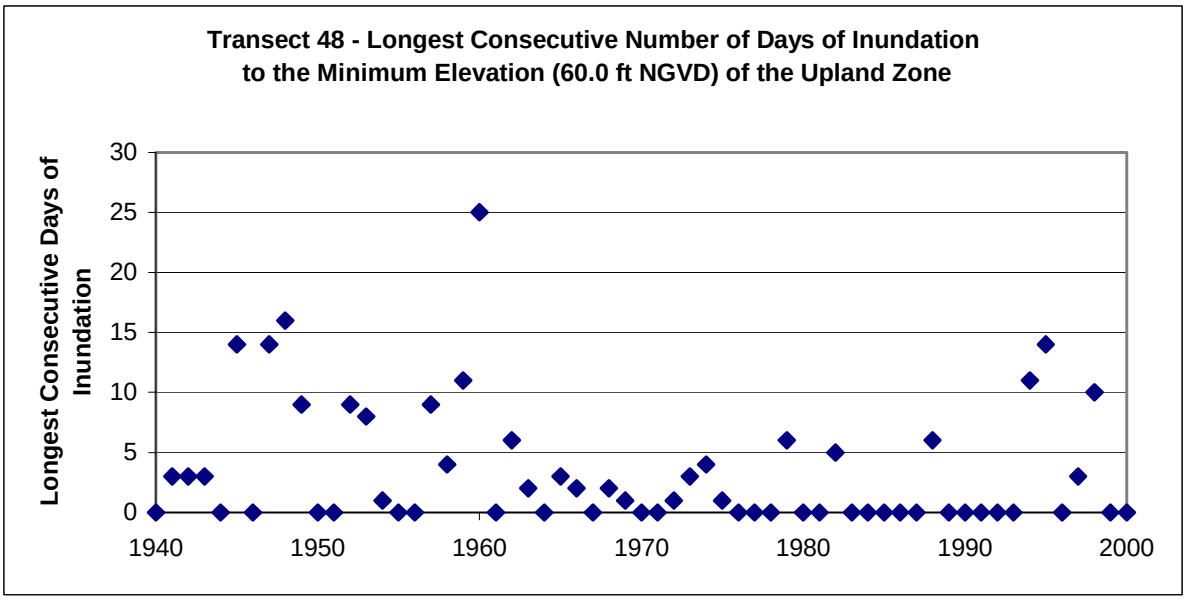

Transect 79 - Total Days of Inundation Within the Year
to the Minimum Elevation (67.0 ft NGVD) of the Upland Zone
Total Number of Days
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

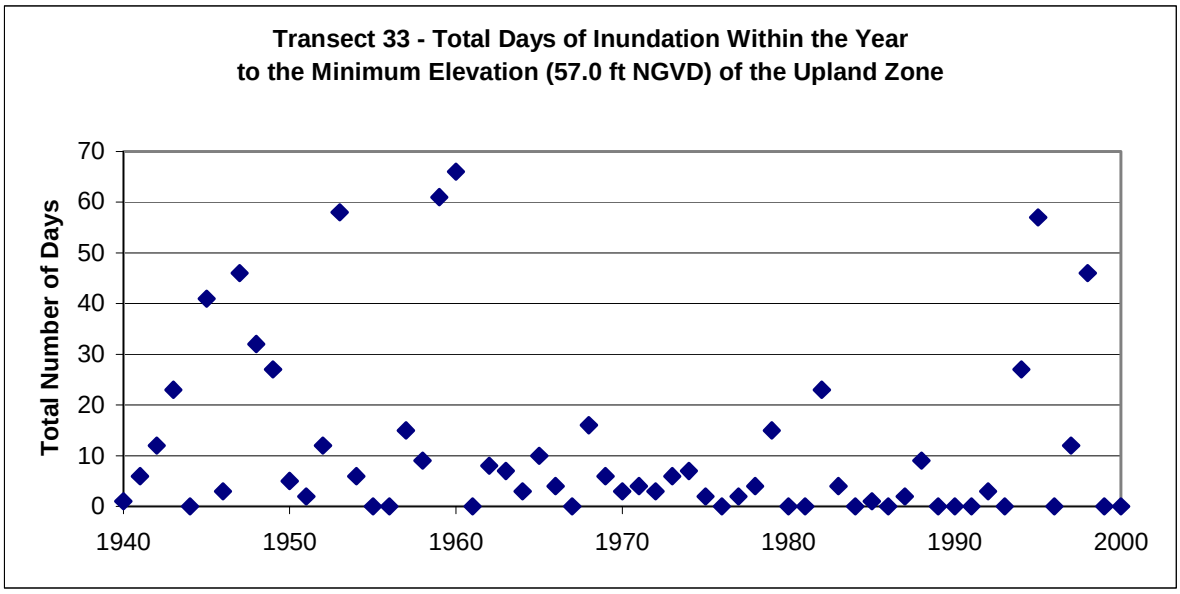

Transect 79 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (67.0 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
12
10
8
6
4
2
0
1940
1950
1960
1970
1980
1990
2000

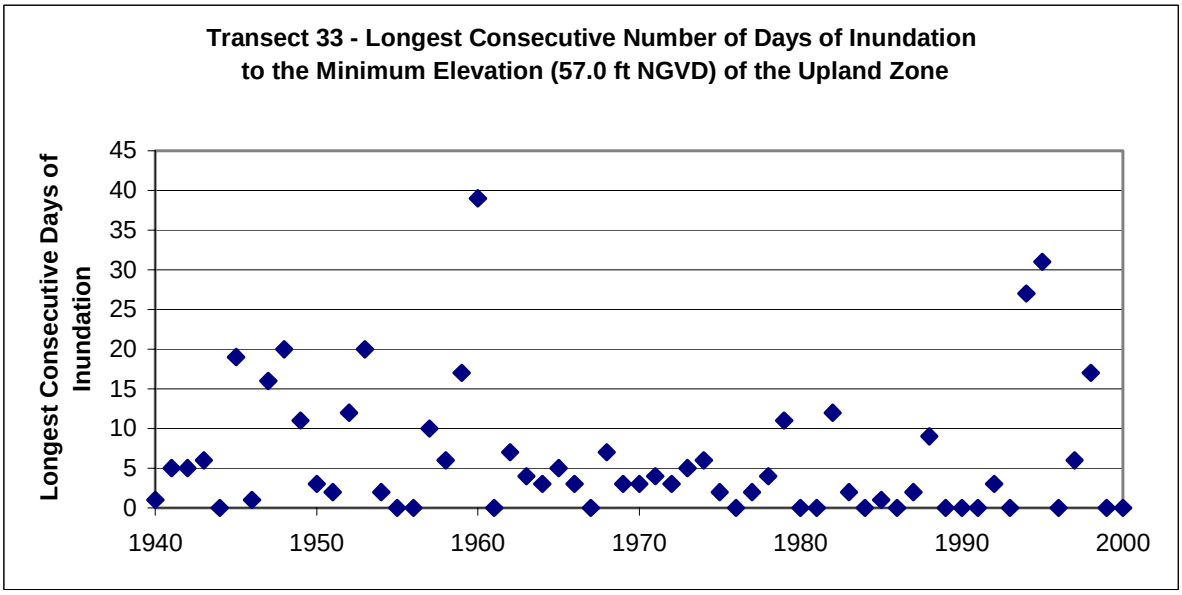

Transect 49 - Total Days of Inundation Within the Year
to the Minimum Elevation (59.6 ft NGVD) of the Upland Zone
Total Number of Days
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000

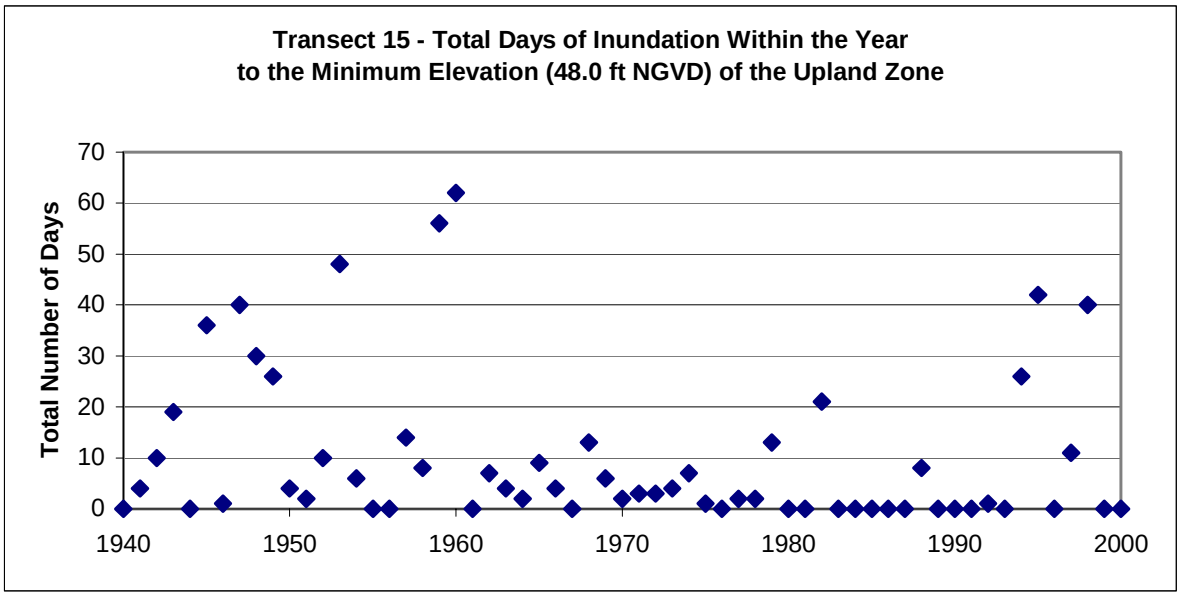

Transect 49 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (59.6 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

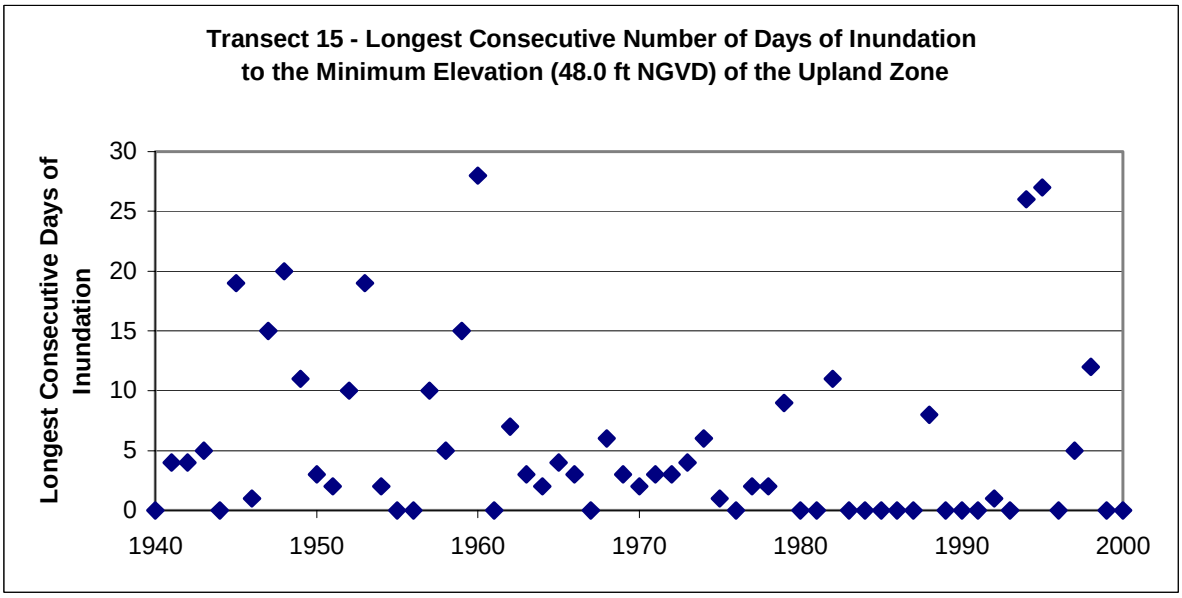

Transect 48 - Total Days of Inundation Within the Year
to the Minimum Elevation (60.0 ft NGVD) of the Upland Zone
Total Number of Days
50
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000


Transect 48 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (60.0 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000


Transect 33 - Total Days of Inundation Within the Year
to the Minimum Elevation (57.0 ft NGVD) of the Upland Zone
Total Number of Days
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000


Transect 33 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (57.0 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
45
40
35
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000


Transect 15 - Total Days of Inundation Within the Year
to the Minimum Elevation (48.0 ft NGVD) of the Upland Zone
Total Number of Days
70
60
50
40
30
20
10
0
1940
1950
1960
1970
1980
1990
2000


Transect 15 - Longest Consecutive Number of Days of Inundation
to the Minimum Elevation (48.0 ft NGVD) of the Upland Zone
Longest Consecutive Days of Inundation
30
25
20
15
10
5
0
1940
1950
1960
1970
1980
1990
2000

APPENDIX WP

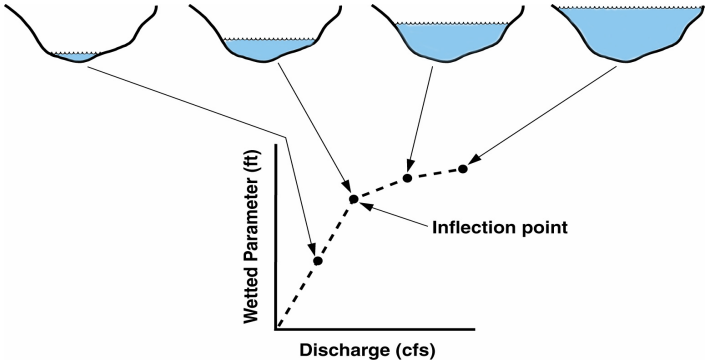
Wetted Perimeter – WP

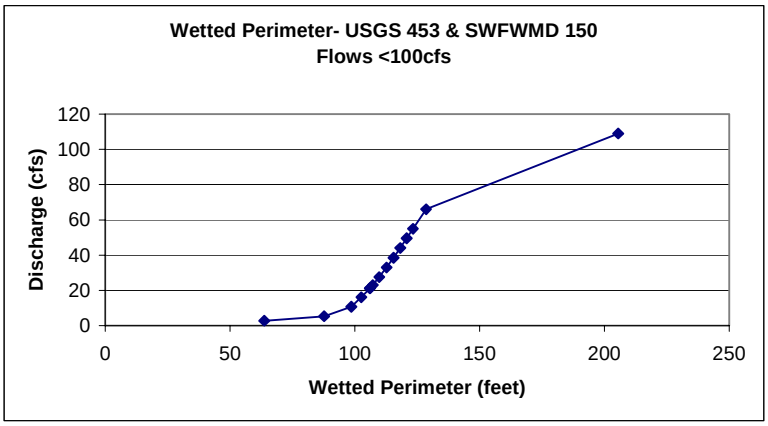
This appendix contains all wetted perimeter plots where a flow value greater than the lowest modeled flow was selected. The wetted perimeter plot for every (18) SWFWMD vegetative transect is included regardless. Each page of the appendix contains the wetted perimeter plot and three columns of information for the particular site presented. The first column, labeled "W.P. Total" is the wetted perimeter total length in feet. The second column, labeled "Q Total", is the flow in cubic feet per second (discharge) that yields the corresponding wetted perimeter. The third column, labeled "DeltaWP/DeltaQ", is the unit change in wetted perimeter per unit change in flow and is obtained by dividing the increase in wetted perimeter from the preceding value by the increase in flow from the preceding value. These values were subjectively used when visually evaluating the "inflection point" flow.

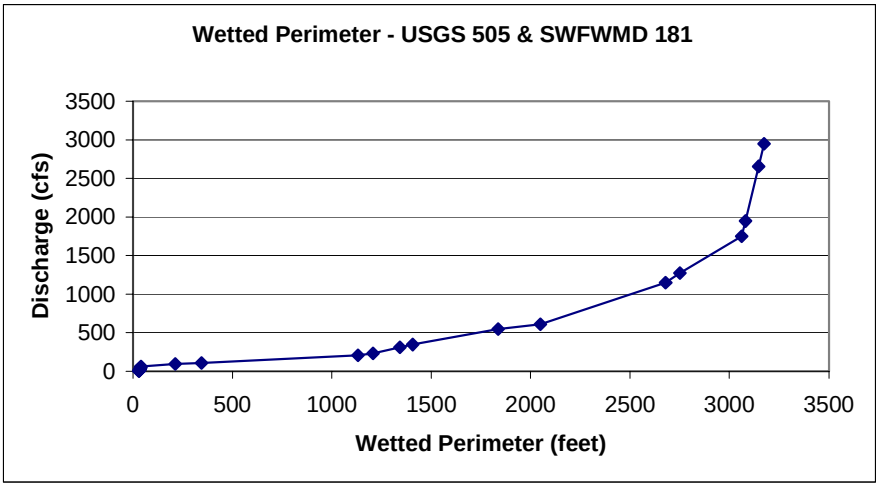
Chart and Table	Page
Wetted perimeter plots for USGS 505 & SWFWMD 181	WP-3
Wetted perimeter plots for USGS 493 & SWFWMD 178	WP-4
Wetted perimeter plots for USGS 486	WP-5
Wetted perimeter plots for USGS 474	WP-6
Wetted perimeter plots for USGS 466.5 & SWFWMD 161	WP-7
Wetted perimeter plots for USGS 466	WP-8
Wetted perimeter plots for USGS 458	WP-9
Wetted perimeter plots for USGS 453 & SWFWMD 150	WP-10
Wetted perimeter plots for USGS 449 & SWFWMD 146	WP-11
Wetted perimeter plots for USGS 445	WP-12
Wetted perimeter plots for USGS 444	WP-13
Wetted perimeter plots for USGS 442	WP-14
Wetted perimeter plots for USGS 441 & SWFWMD 143	WP-15
Wetted perimeter plots for USGS 431 & SWFWMD 134	WP-16
Wetted perimeter plots for USGS 417	WP-17
Wetted perimeter plots for USGS 409 & SWFWMD 119	WP-18
Wetted perimeter plots for USGS 407	WP-19
Wetted perimeter plots for USGS 399 & SWFWMD 106	WP-20
Wetted perimeter plots for USGS 390.5 & SWFWMD 99	WP-21
Wetted perimeter plots for USGS 381 & SWFWMD 91	WP-22
Wetted perimeter plots for USGS 375 & SWFWMD 83	WP-23
Wetted perimeter plots for USGS 371 & SWFWMD 79	WP-24
Wetted perimeter plots for USGS 337.5 & SWFWMD 49	WP-25
Wetted perimeter plots for USGS 336.5 & SWFWMD 48	WP-26
Wetted perimeter plots for USGS 330	WP-27
Wetted perimeter plots for USGS 326	WP-28

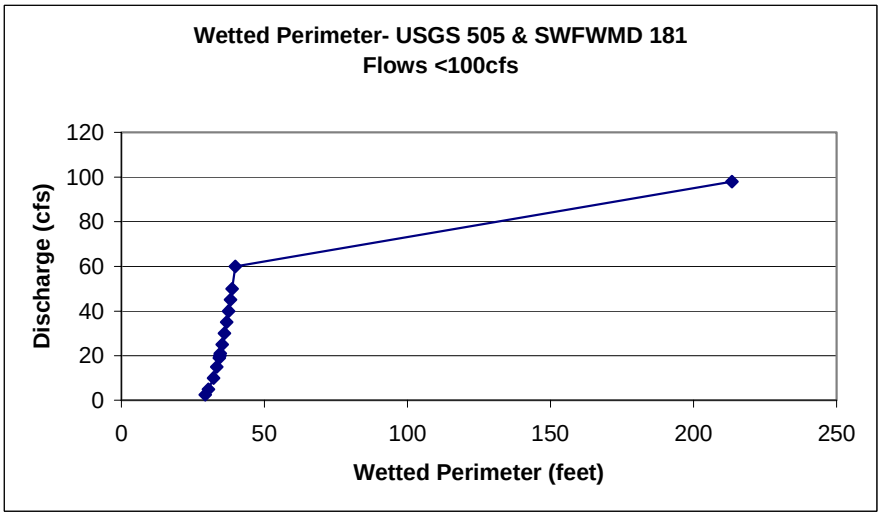
Chart/Table	Page
Wetted perimeter plots for USGS 325 & SWFWMD 33	WP-29
Wetted perimeter plots for USGS 316	WP-30
Wetted perimeter plots for USGS 302	WP-31
Wetted perimeter plots for USGS 301 & SWFWMD 15	WP-32
Wetted perimeter plots for USGS 298	WP-33
Wetted perimeter plots for USGS Zolfo Springs Gage	WP-34
Plot of LWPIP by site	WP-35

Conceptualization of the "wetted perimeter" determination, with plot of modeled data from one transect for illustrative purposes.

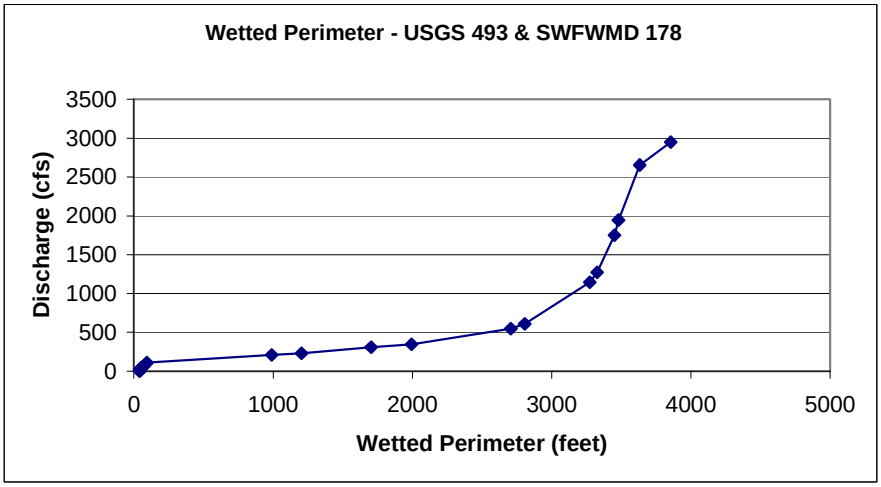


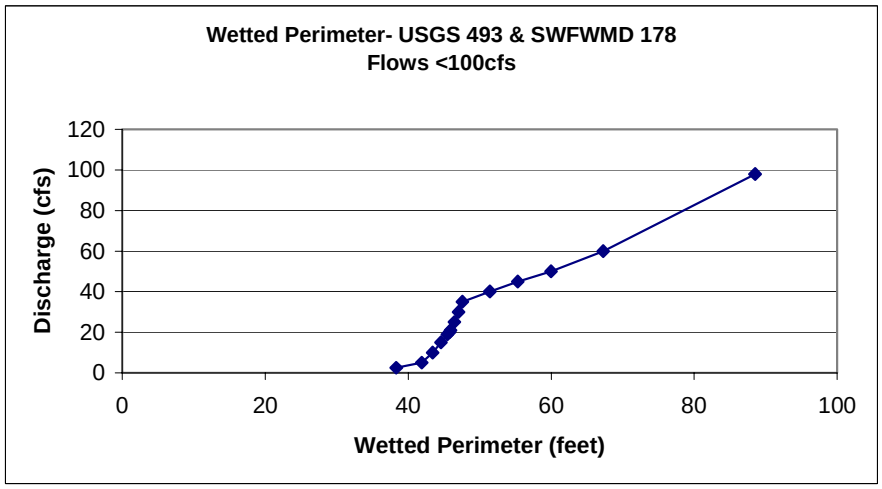




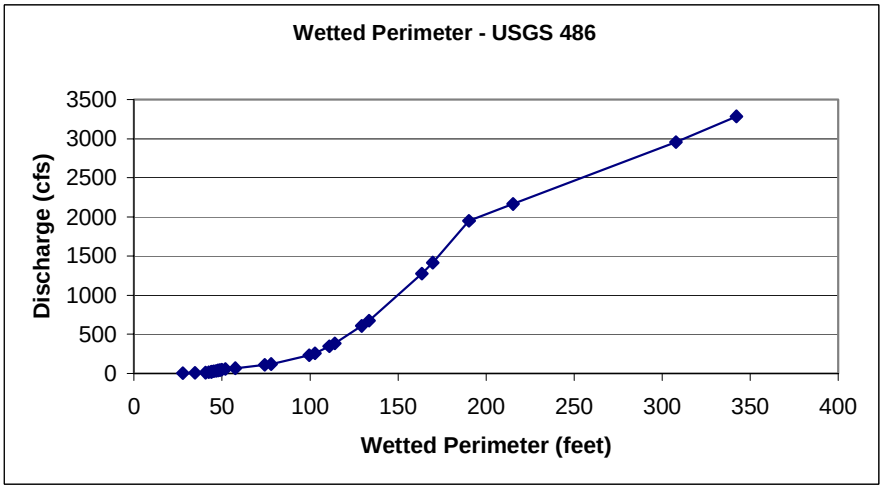


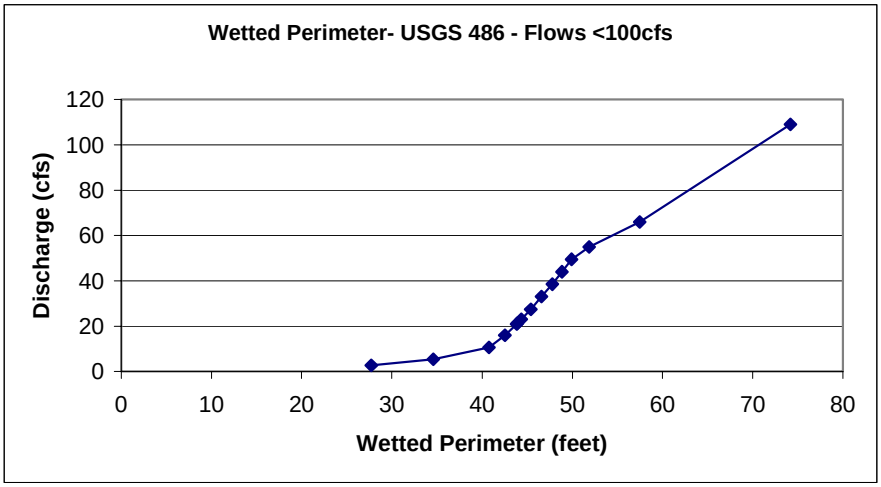
W.P. Total	Q Total	DeltaWP/DeltaQ
29.34	2.5	11.736
30.5	5	6.1
32.15	10	3.215
33.38	15	2.225333
34.21	19	1.800526
34.41	20	1.7205
34.59	21	1.647143
35.3	25	1.412
36.09	30	1.203
36.82	35	1.052
37.49	40	0.93725
38.13	45	0.847333
38.73	50	0.7746
39.82	60	0.663667
213.4	98	2.177551
345.74	109	3.171927
1131.53	209	5.414019
1207.32	232	5.203966
1342.22	311	4.31582
1408.12	346	4.069711
1837.59	547	3.359397
2049.41	608	3.37074
2679.44	1147	2.336042
2751.51	1274	2.159741
3061.18	1751	1.748247
3080.68	1946	1.583083
3146.86	2655	1.185258
3173.54	2950	1.075776



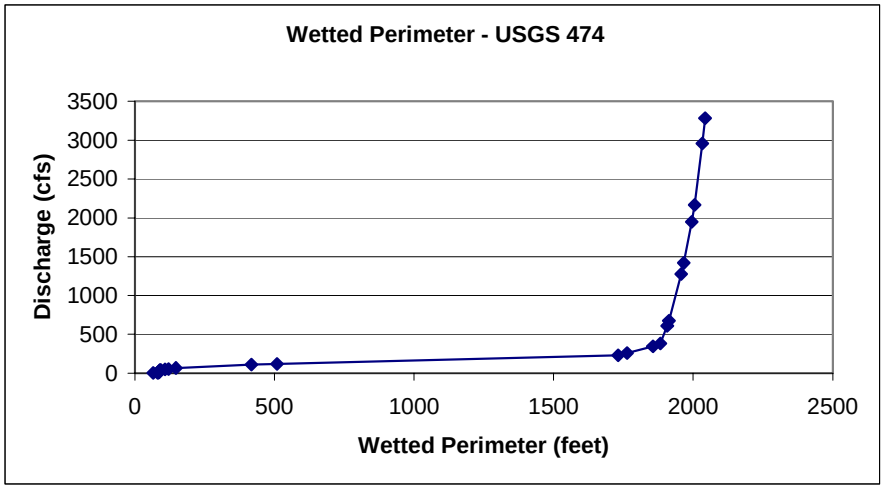


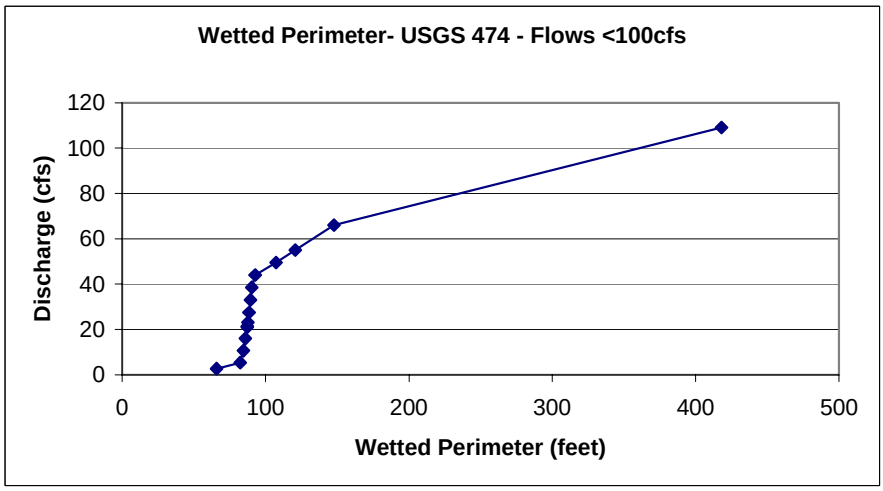
W.P. Total	Q Total	DeltaWP/DeltaQ
38.32	2.5	15.328
41.9	5	8.38
43.41	10	4.341
44.6	15	2.973333
45.48	19	2.393684
45.76	20	2.288
45.93	21	2.187143
46.49	25	1.8596
47.04	30	1.568
47.59	35	1.359714
51.39	40	1.28475
55.31	45	1.229111
59.95	50	1.199
67.26	60	1.121
88.5	98	0.903061
92.26	109	0.846422
990.57	209	4.739569
1204.17	232	5.190388
1703.64	311	5.477942
1993.09	346	5.760376
2706.83	547	4.948501
2806.38	608	4.615757
3273.7	1147	2.854141
3326.8	1274	2.611303
3449.28	1751	1.969891
3478.7	1946	1.787616
3630.96	2655	1.367593
3855.75	2950	1.307034



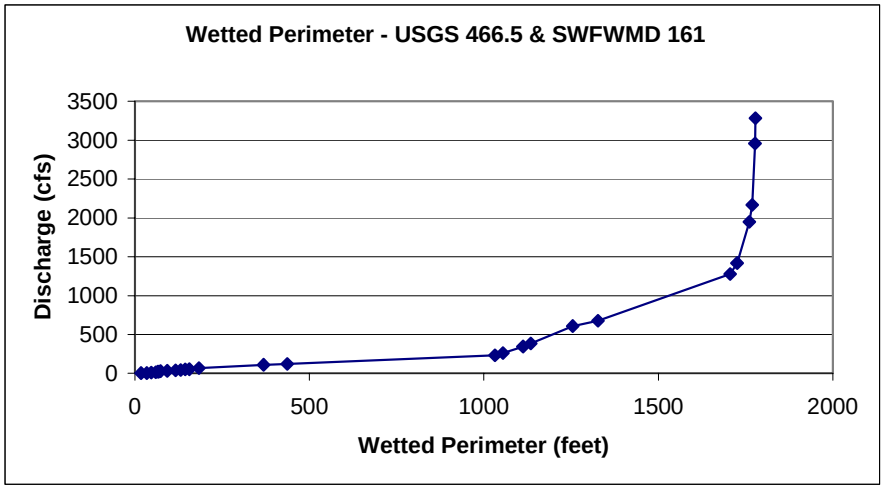


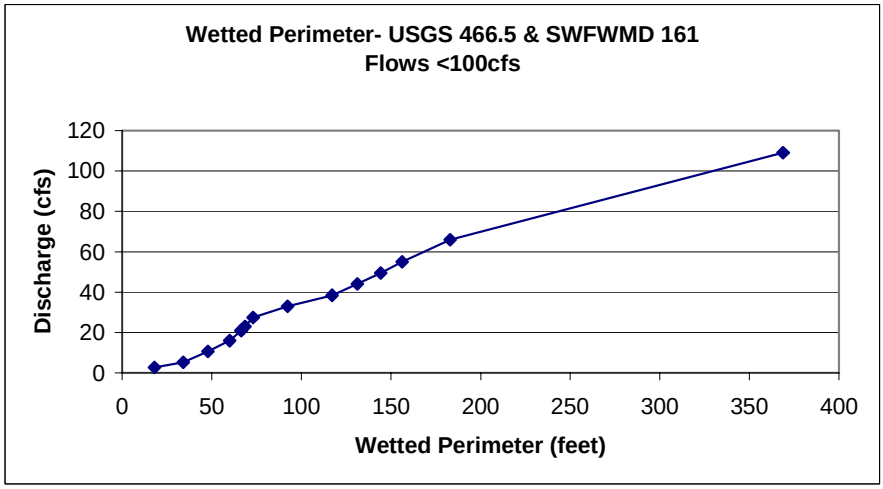
W.P. Total	Q Total	DeltaWP/DeltaQ
27.72	2.67	10.38202
34.61	5.33	6.493433
40.77	10.67	3.820993
42.52	16	2.6575
43.83	21	2.087143
43.92	21.33	2.059072
44.36	23	1.928696
45.39	27.5	1.650545
46.6	33	1.412121
47.79	38.5	1.241299
48.86	44	1.110455
49.92	49.5	1.008485
51.89	55	0.943455
57.48	66	0.870909
74.2	109	0.680734
77.86	121	0.643471
99.5	232	0.428879
102.81	258	0.398488
110.92	346	0.320578
114.01	385	0.29613
129.37	609	0.21243
133.4	676	0.197337
163.52	1276	0.12815
169.6	1418	0.119605
190.24	1949	0.097609
215.35	2166	0.099423
307.74	2955	0.104142
342.21	3283	0.104237



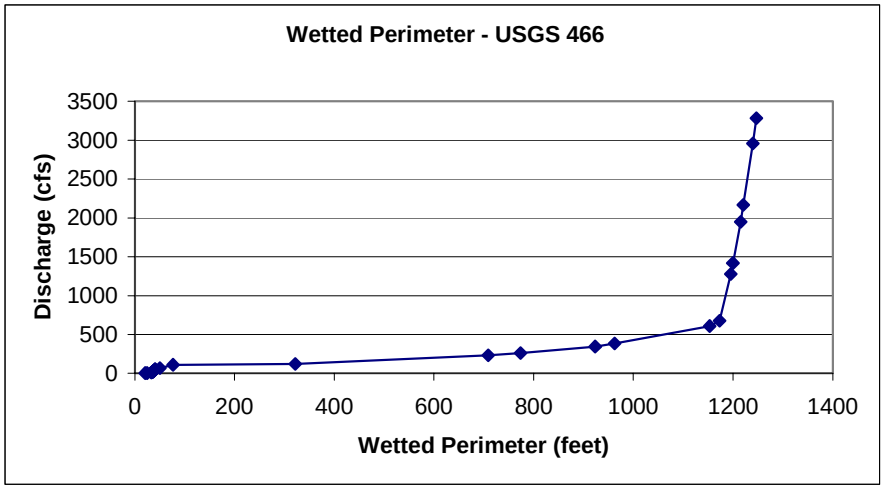


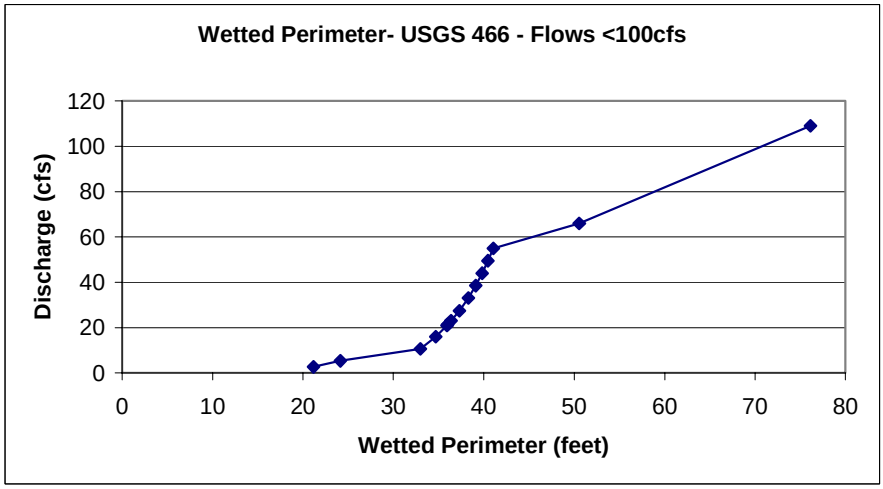
W.P. Total	Q Total	DeltaWP/DeltaQ
65.81	2.67	24.64794
82.33	5.33	6.210526
84.56	10.67	0.417603
86.09	16	0.287054
87.26	21	0.234
87.34	21.33	0.242424
87.68	23	0.203593
88.56	27.5	0.195556
89.53	33	0.176364
90.37	38.5	0.152727
92.8	44	0.441818
107.42	49.5	2.658182
120.81	55	2.434545
147.71	66	2.445455
417.98	109	6.285349
508.4	121	7.535
1731.59	232	11.01973
1763.1	258	1.211923
1855.84	346	1.053864
1882.61	385	0.68641
1906.96	609	0.108705
1913.2	676	0.093134
1957.5	1276	0.073833
1966.15	1418	0.060915
1995.18	1949	0.05467
2005.15	2166	0.045945
2032.98	2955	0.035272
2042.87	3283	0.030152



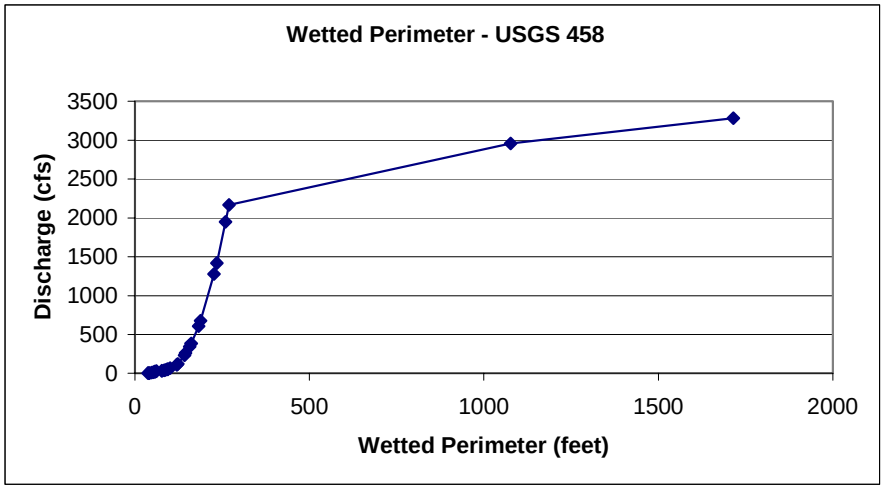


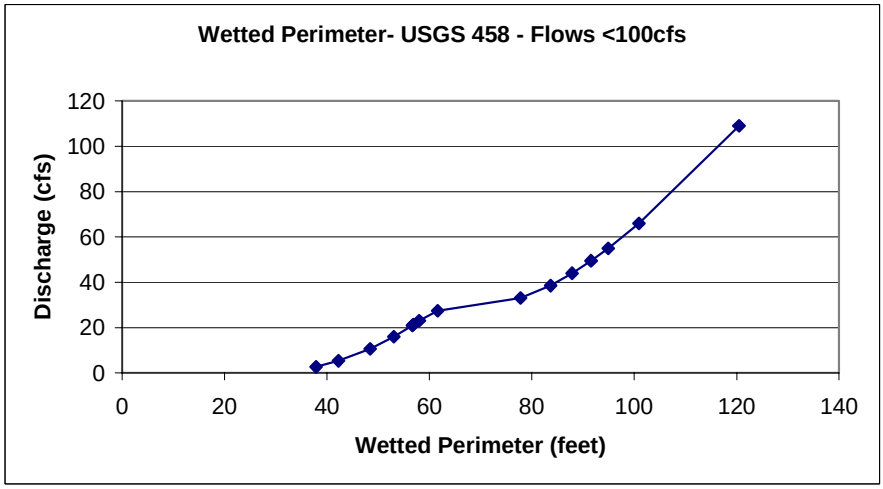
W.P. Total	Q Total	DeltaWP/DeltaQ
17.96	2.67	6.726592
34.13	5.33	6.078947
47.8	10.67	2.559925
59.99	16	2.287054
66.26	21	1.254
66.64	21.33	1.151515
68.5	23	1.113772
73.17	27.5	1.037778
92.32	33	3.481818
117.07	38.5	4.5
131.24	44	2.576364
144.27	49.5	2.369091
156.28	55	2.183636
183.03	66	2.431818
368.82	109	4.320698
437.12	121	5.691667
1032.8	232	5.366486
1054.44	258	0.832308
1112.35	346	0.658068
1134.17	385	0.559487
1254.86	609	0.538795
1327.07	676	1.077761
1706.31	1276	0.632067
1725.6	1418	0.135845
1760.96	1949	0.066591
1768.81	2166	0.036175
1777.39	2955	0.010875
1778.7	3283	0.003994



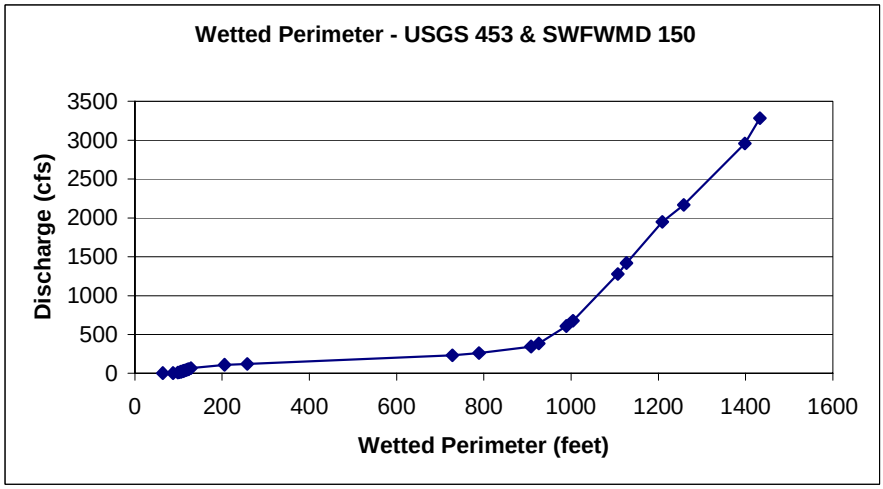


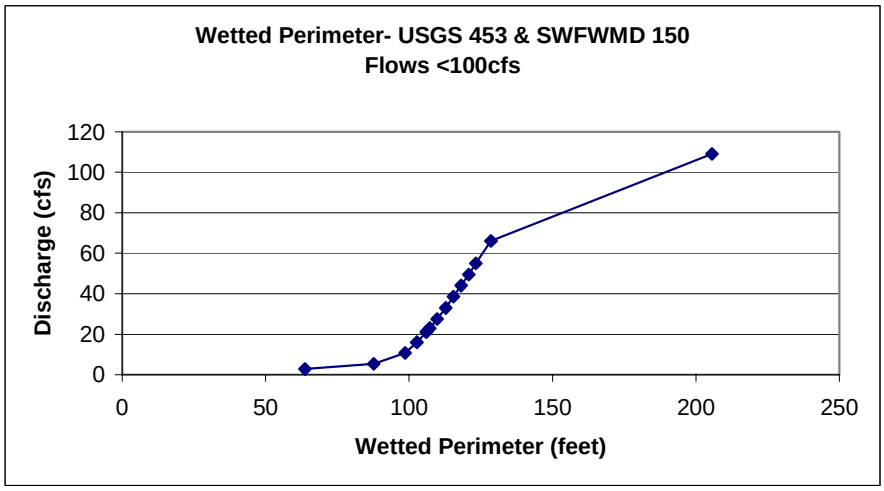
W.P. Total	Q Total	DeltaWP/DeltaQ
21.18	2.67	7.932584
24.13	5.33	1.109023
32.98	10.67	1.657303
34.68	16	0.318949
35.94	21	0.252
36.01	21.33	0.212121
36.38	23	0.221557
37.3	27.5	0.204444
38.29	33	0.18
39.11	38.5	0.149091
39.82	44	0.129091
40.47	49.5	0.118182
41.07	55	0.109091
50.57	66	0.863636
76.11	109	0.593953
321.96	121	20.4875
708.65	232	3.483694
773.38	258	2.489615
923.55	346	1.706477
962.41	385	0.99641
1153.26	609	0.852009
1173.16	676	0.297015
1195.42	1276	0.0371
1199.9	1418	0.031549
1215.21	1949	0.028832
1220.92	2166	0.026313
1239.42	2955	0.023447
1246.63	3283	0.021982



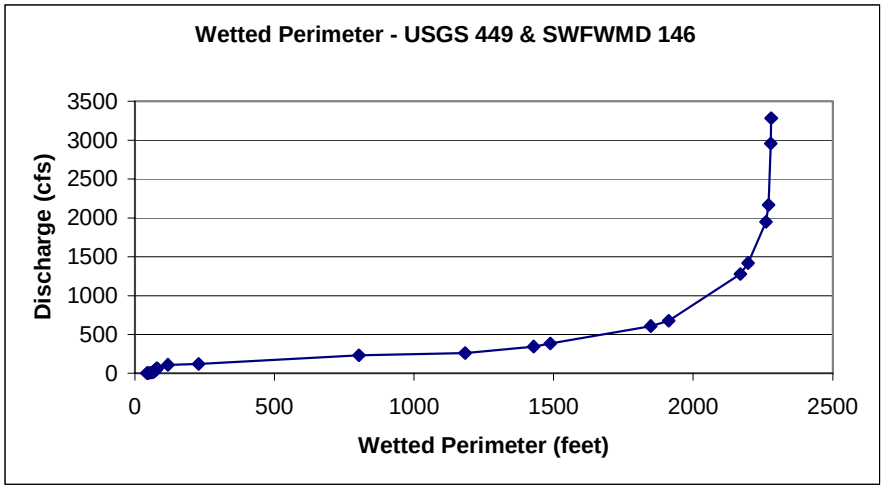


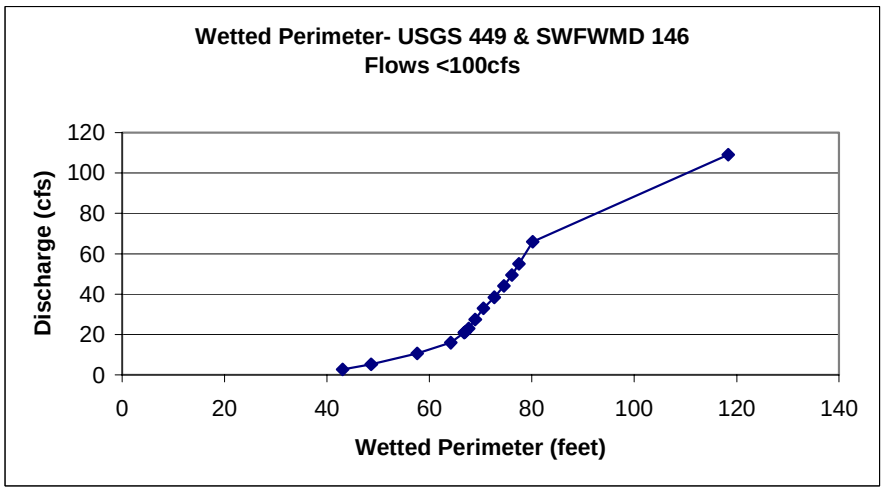
W.P. Total	Q Total	DeltaWP/DeltaQ
37.89	2.67	14.19101
42.24	5.33	1.635338
48.43	10.67	1.159176
53.06	16	0.868668
56.68	21	0.724
56.9	21.33	0.666667
58	23	0.658683
61.6	27.5	0.8
77.76	33	2.938182
83.66	38.5	1.072727
87.83	44	0.758182
91.56	49.5	0.678182
94.92	55	0.610909
100.91	66	0.544545
120.45	109	0.454419
122.94	121	0.2075
142.01	232	0.171802
145.79	258	0.145385
156.97	346	0.127045
161.45	385	0.114872
182.99	609	0.096161
188.49	676	0.08209
227.12	1276	0.064383
234.67	1418	0.053169
260.19	1949	0.04806
269.46	2166	0.042719
1076.4	2955	1.022738
1715.43	3283	1.948262



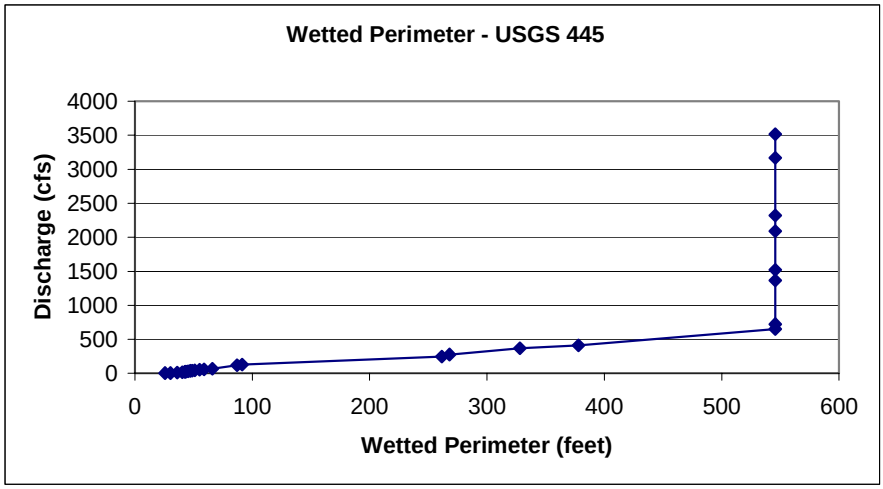


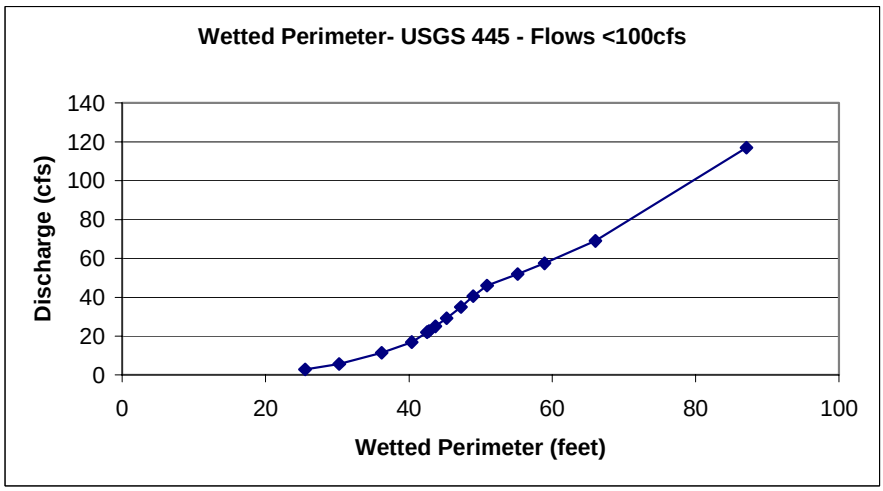
W.P. Total	Q Total	DeltaWP/DeltaQ
63.69	2.67	23.85393
87.72	5.33	9.033835
98.64	10.67	2.044944
102.65	16	0.752345
105.97	21	0.664
106.17	21.33	0.606061
107.2	23	0.616766
109.81	27.5	0.58
112.78	33	0.54
115.51	38.5	0.496364
118.2	44	0.489091
120.78	49.5	0.469091
123.25	55	0.449091
128.51	66	0.478182
205.57	109	1.792093
258.1	121	4.3775
727.88	232	4.232252
789.43	258	2.367308
908.39	346	1.351818
925.8	385	0.44641
988.84	609	0.281429
1004.52	676	0.23403
1107.15	1276	0.17105
1127.17	1418	0.140986
1209.47	1949	0.154991
1258.35	2166	0.225253
1398.51	2955	0.177643
1433.18	3283	0.105701



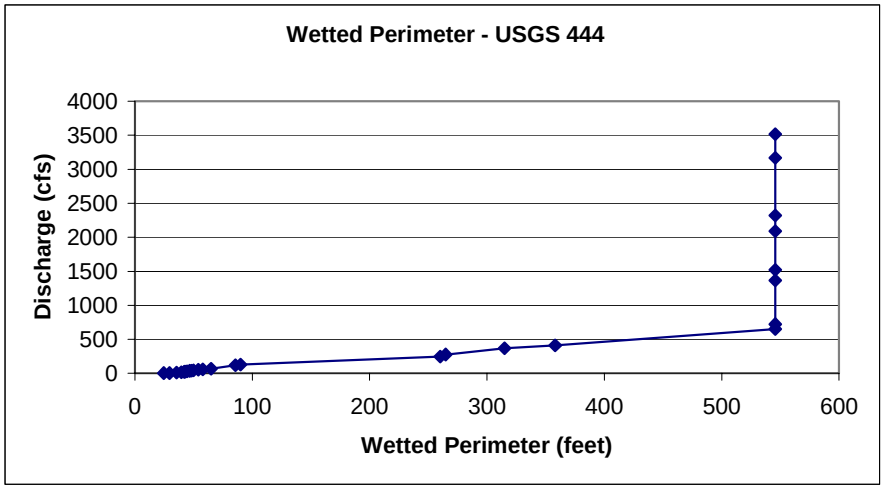


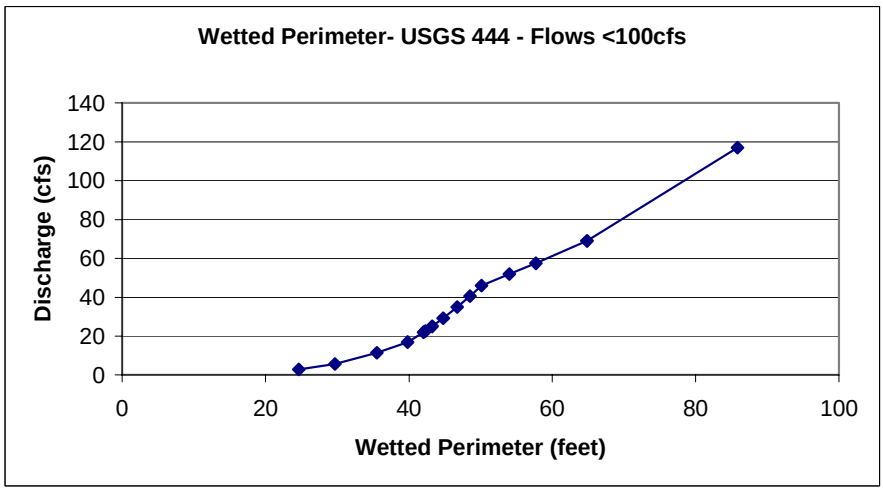
W.P. Total	Q Total	DeltaWP/DeltaQ
43.04	2.67	16.11985
48.62	5.33	2.097744
57.63	10.67	1.687266
64.16	16	1.225141
66.79	21	0.526
66.98	21.33	0.575758
67.68	23	0.419162
68.97	27.5	0.286667
70.56	33	0.289091
72.68	38.5	0.385455
74.57	44	0.343636
76.09	49.5	0.276364
77.45	55	0.247273
80.13	66	0.243636
118.34	109	0.888605
227.84	121	9.125
802.61	232	5.178108
1182.75	258	14.62077
1429.24	346	2.801023
1488.4	385	1.516923
1847.55	609	1.603348
1912.53	676	0.969851
2168.93	1276	0.427333
2196.37	1418	0.193239
2260.86	1949	0.12145
2269.56	2166	0.040092
2277.75	2955	0.01038
2279.51	3283	0.005366



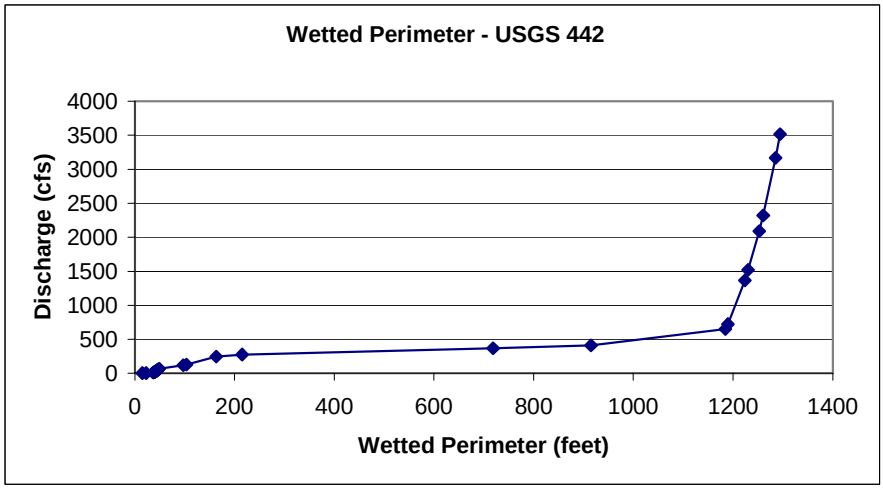


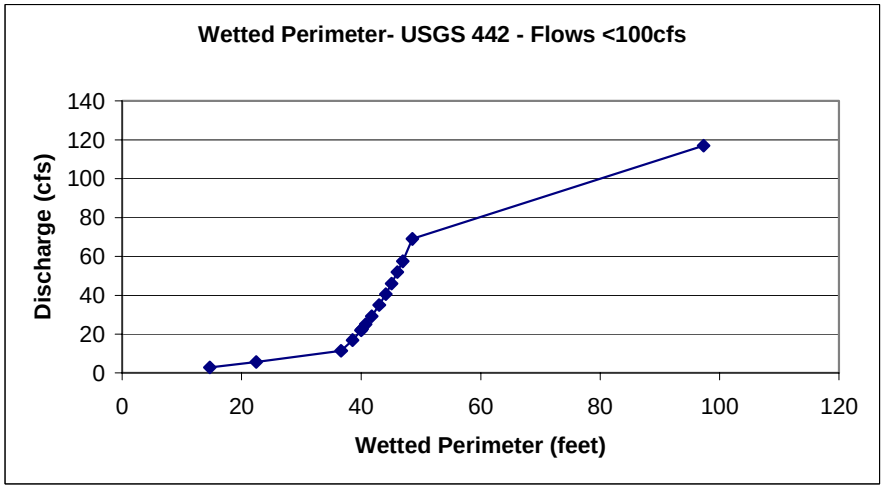
W.P. Total	Q Total	DeltaWP/DeltaQ
25.52	2.83	9.017668
30.28	5.67	1.676056
36.2	11.33	1.045936
40.41	17	0.742504
42.5	22	0.418
42.77	22.67	0.402985
43.71	25	0.403433
45.25	29.17	0.369305
47.23	35	0.339623
48.98	40.5	0.318182
50.91	46	0.350909
55.19	52	0.713333
58.91	57.5	0.676364
66.04	69	0.62
87.08	117	0.438333
91.41	130	0.333077
261.51	249	1.429412
268.16	277	0.2375
328.16	371	0.638298
377.92	412	1.213659
545.8	652	0.6995
545.8	725	0
545.8	1367	0
545.8	1519	0
545.8	2088	0
545.8	2320	0
545.8	3165	0
545.8	3517	0



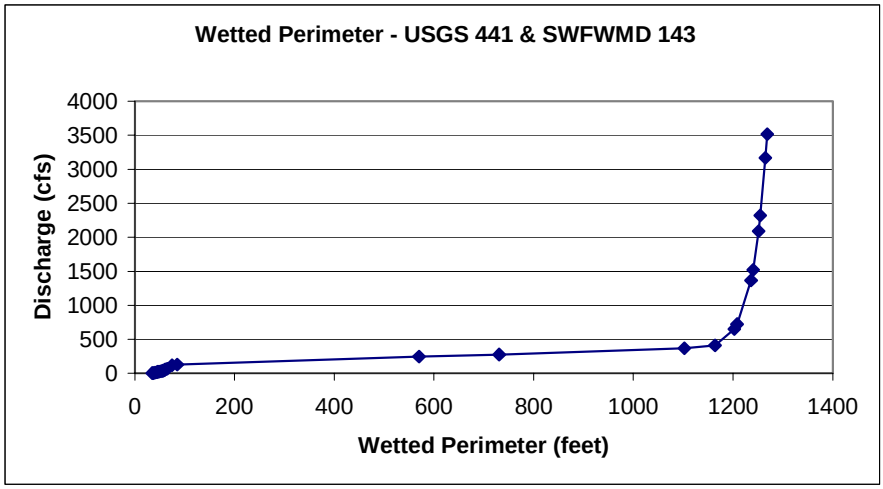


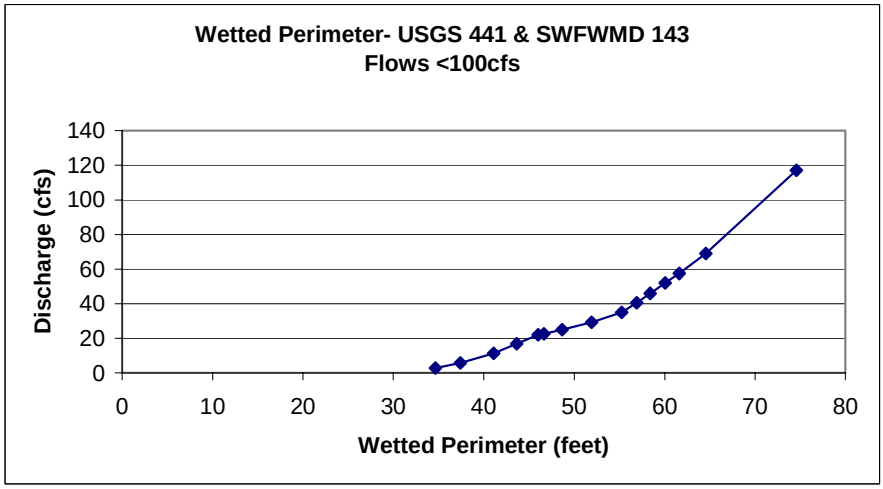
W.P. Total	Q Total	DeltaWP/DeltaQ
24.63	2.83	8.70318
29.66	5.67	1.771127
35.53	11.33	1.037102
39.81	17	0.75485
42.04	22	0.446
42.31	22.67	0.402985
43.24	25	0.399142
44.77	29.17	0.366906
46.75	35	0.339623
48.5	40.5	0.318182
50.15	46	0.3
54.01	52	0.643333
57.71	57.5	0.672727
64.83	69	0.61913
85.83	117	0.4375
90.12	130	0.33
260.08	249	1.428235
264.85	277	0.170357
315.01	371	0.533617
358.28	412	1.055366
545.8	652	0.781333
545.8	725	0
545.8	1367	0
545.8	1519	0
545.8	2088	0
545.8	2320	0
545.8	3165	0
545.8	3517	0



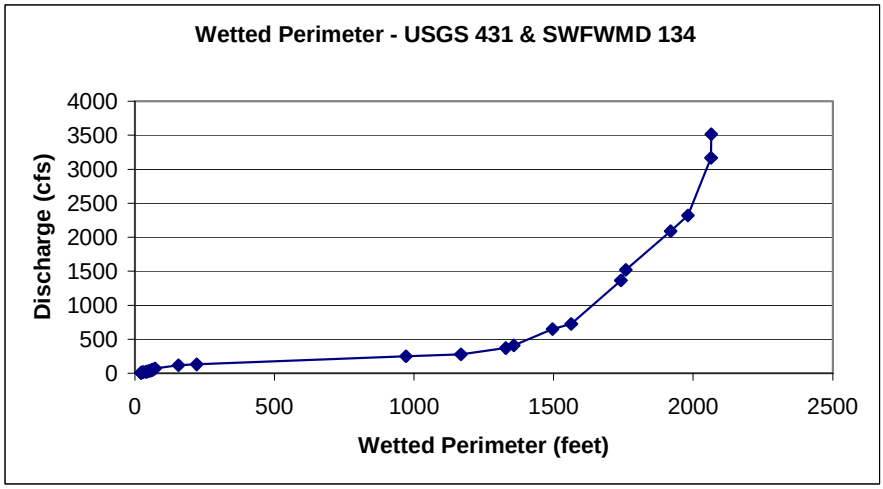


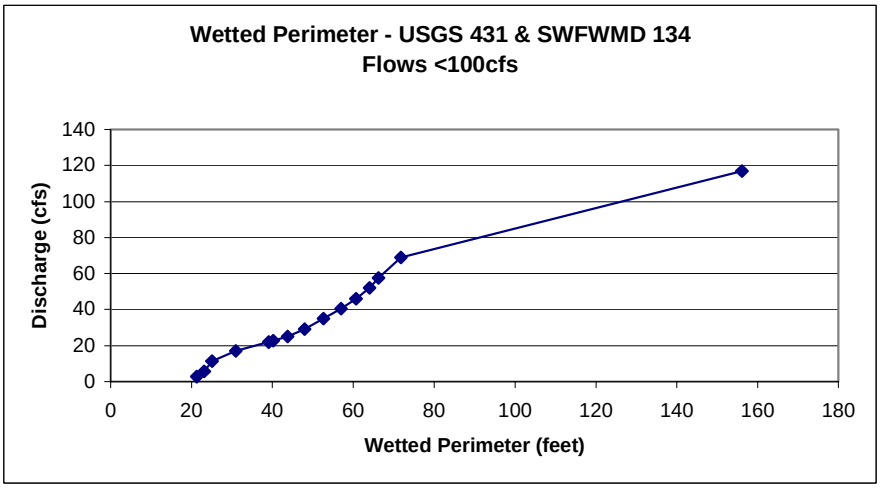
W.P. Total	Q Total	DeltaWP/DeltaQ
14.67	2.83	5.183746
22.46	5.67	2.742958
36.66	11.33	2.508834
38.57	17	0.336861
39.99	22	0.284
40.17	22.67	0.268657
40.77	25	0.257511
41.78	29.17	0.242206
43.05	35	0.217839
44.12	40.5	0.194545
45.11	46	0.18
46.1	52	0.165
46.94	57.5	0.152727
48.57	69	0.141739
97.35	117	1.01625
103.72	130	0.49
163.07	249	0.498739
215.49	277	1.872143
718.57	371	5.351915
915.36	412	4.799756
1184.71	652	1.122292
1189.65	725	0.067671
1223.58	1367	0.05285
1230.36	1519	0.044605
1252.95	2088	0.039701
1260.78	2320	0.03375
1285.47	3165	0.029219
1294.37	3517	0.025284



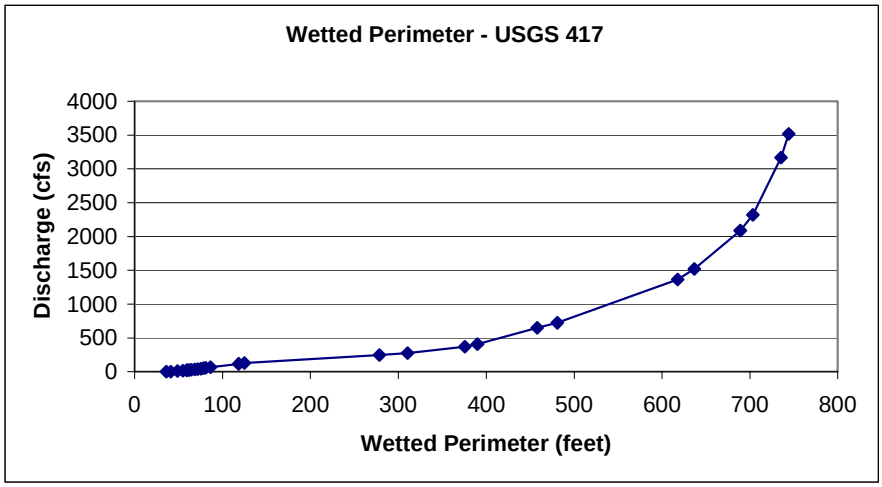


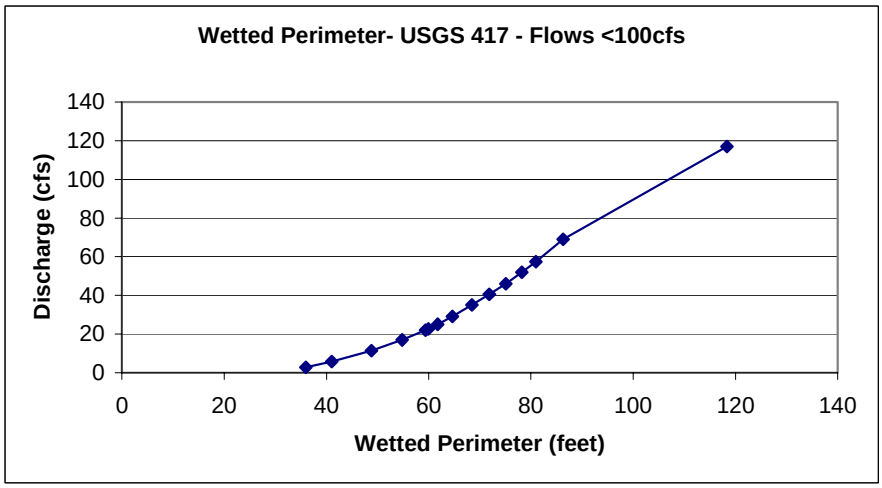
W.P. Total	Q Total	DeltaWP/DeltaQ
34.67	2.83	12.25088
37.4	5.67	0.961268
41.1	11.33	0.65371
43.62	17	0.444444
46.02	22	0.48
46.64	22.67	0.925373
48.67	25	0.871245
51.94	29.17	0.784173
55.26	35	0.569468
56.89	40.5	0.296364
58.4	46	0.274545
60.09	52	0.281667
61.62	57.5	0.278182
64.57	69	0.256522
74.58	117	0.208542
85.19	130	0.816154
570.05	249	4.074454
731.08	277	5.751071
1102.07	371	3.946702
1163.82	412	1.506098
1202.23	652	0.160042
1207.88	725	0.077397
1236.15	1367	0.044034
1240.43	1519	0.028158
1251.3	2088	0.019104
1254.58	2320	0.014138
1264.92	3165	0.012237
1268.64	3517	0.010568



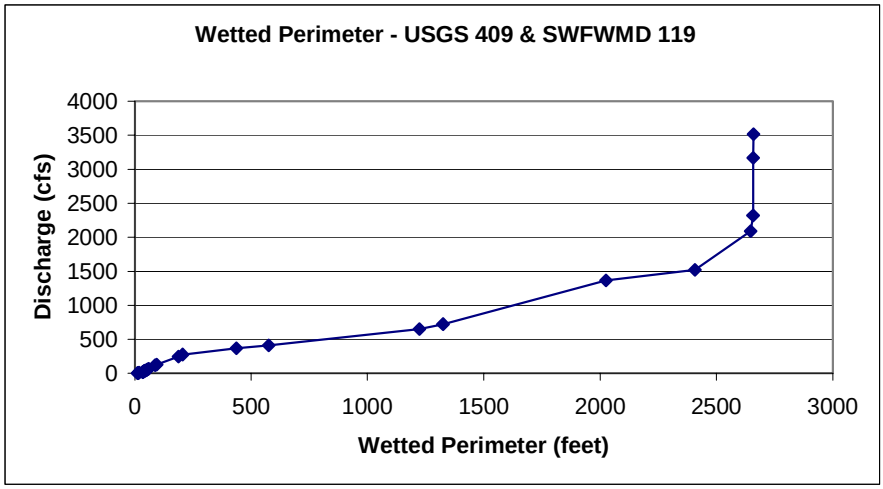


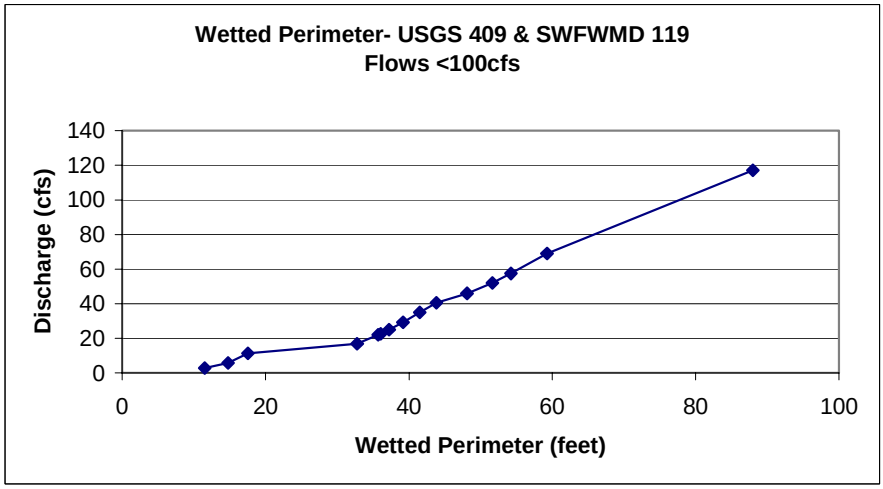
W.P. Total	Q Total	DeltaWP/DeltaQ
21.3	2.83	7.526502
23.12	5.67	0.640845
25.06	11.33	0.342756
30.9	17	1.029982
39.11	22	1.642
40.16	22.67	1.567164
43.76	25	1.545064
47.95	29.17	1.004796
52.61	35	0.799314
56.95	40.5	0.789091
60.69	46	0.68
63.97	52	0.546667
66.24	57.5	0.412727
71.76	69	0.48
156.09	117	1.756875
221.27	130	5.013846
971.51	249	6.304538
1168.26	277	7.026786
1329.2	371	1.712128
1358.08	412	0.70439
1496.07	652	0.574958
1562.82	725	0.914384
1741.01	1367	0.277555
1759	1519	0.118355
1919.11	2088	0.281388
1981.71	2320	0.269828
2064.17	3165	0.097586
2064.79	3517	0.001761



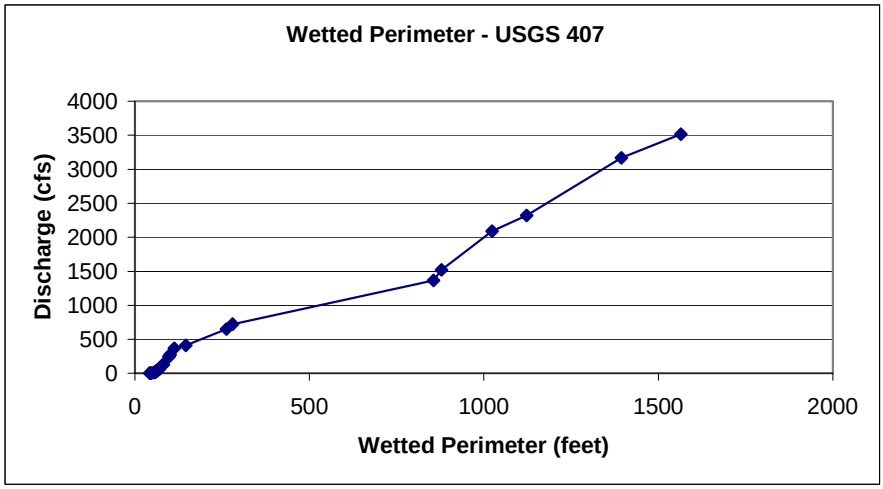


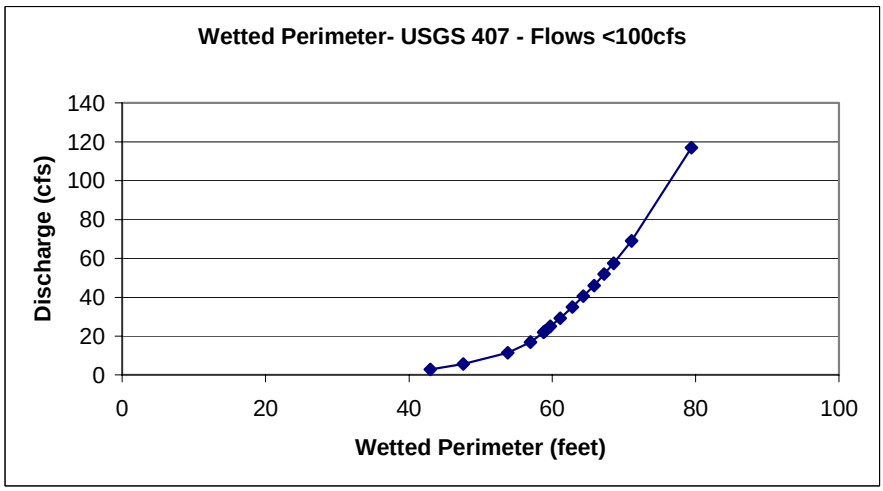
W.P. Total	Q Total	DeltaWP/DeltaQ
35.97	2.83	12.71025
41.06	5.67	1.792254
48.83	11.33	1.372792
54.78	17	1.049383
59.38	22	0.92
59.97	22.67	0.880597
61.71	25	0.746781
64.63	29.17	0.70024
68.49	35	0.662093
71.87	40.5	0.614545
75.09	46	0.585455
78.21	52	0.52
80.96	57.5	0.5
86.29	69	0.463478
118.35	117	0.667917
124.9	130	0.503846
278.47	249	1.290504
310.38	277	1.139643
375.57	371	0.693511
390.23	412	0.357561
458.26	652	0.283458
480.91	725	0.310274
617.95	1367	0.213458
636.81	1519	0.124079
689.03	2088	0.091775
703.34	2320	0.061681
735.56	3165	0.03813
744.26	3517	0.024716



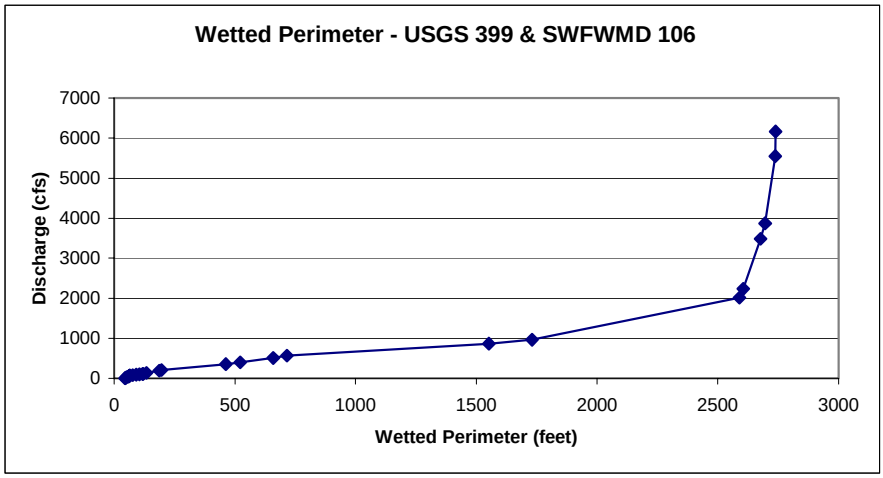


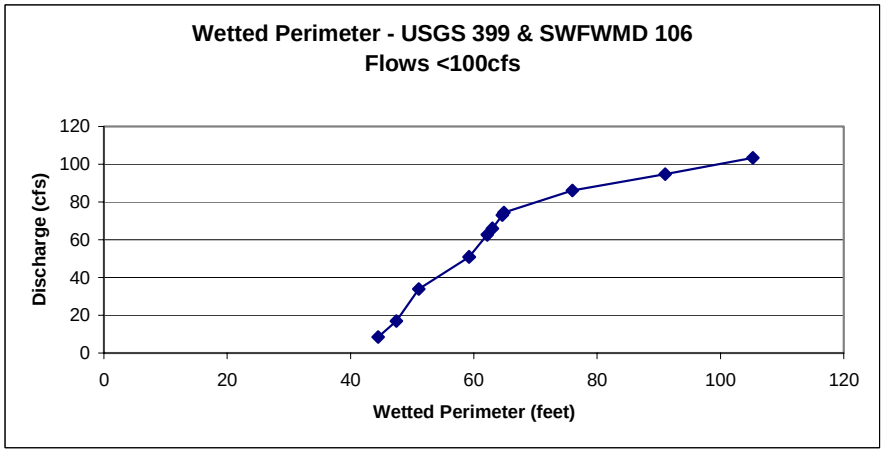
W.P. Total	Q Total	DeltaWP/DeltaQ
11.5	2.83	4.063604
14.76	5.67	1.147887
17.56	11.33	0.4947
32.77	17	2.68254
35.72	22	0.59
36.07	22.67	0.522388
37.24	25	0.502146
39.16	29.17	0.460432
41.5	35	0.401372
43.83	40.5	0.423636
48.1	46	0.776364
51.62	52	0.586667
54.23	57.5	0.474545
59.27	69	0.438261
87.94	117	0.597292
94.22	130	0.483077
186.89	249	0.778739
205.52	277	0.665357
436.54	371	2.45766
575.18	412	3.381463
1224.21	652	2.704292
1324.78	725	1.377671
2025.43	1367	1.091355
2407.54	1519	2.513882
2646.95	2088	0.420756
2657.09	2320	0.043707
2658.83	3165	0.002059
2659.85	3517	0.002898



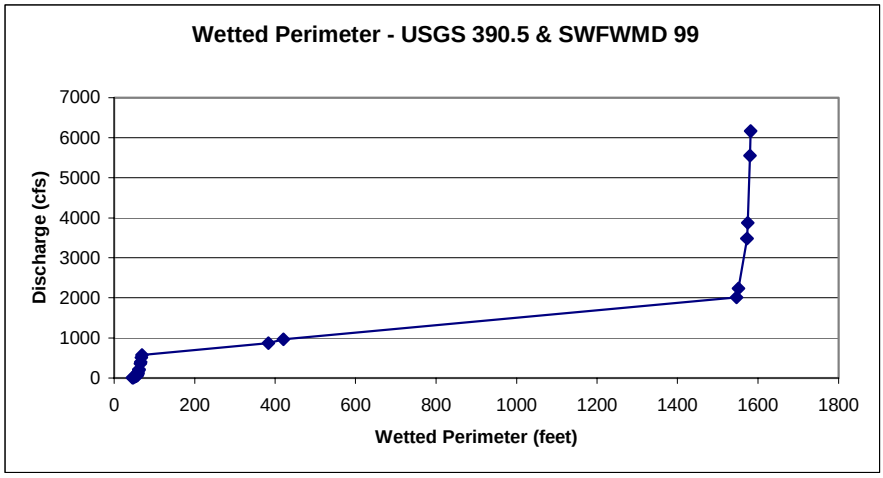


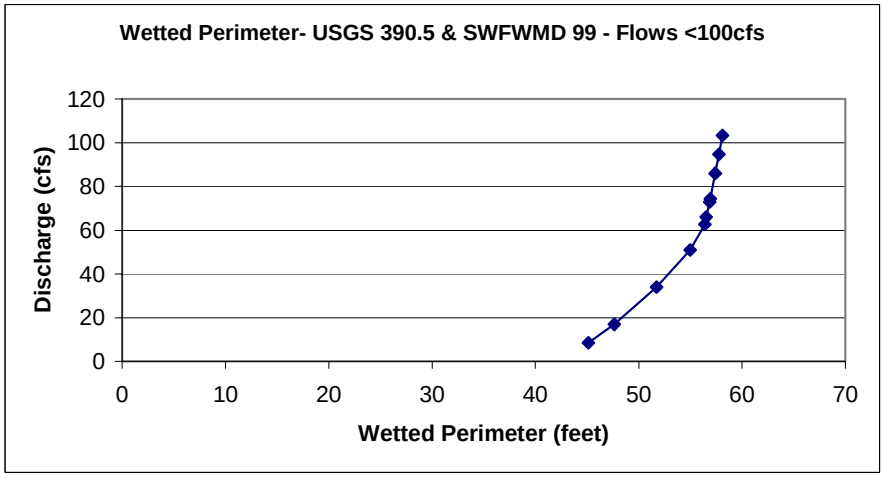
W.P. Total	Q Total	DeltaWP/DeltaQ
42.97	2.83	15.18375
47.59	5.67	1.626761
53.8	11.33	1.097173
56.94	17	0.553792
58.81	22	0.374
59	22.67	0.283582
59.73	25	0.313305
61.1	29.17	0.328537
62.78	35	0.288165
64.33	40.5	0.281818
65.82	46	0.270909
67.23	52	0.235
68.57	57.5	0.243636
71.06	69	0.216522
79.4	117	0.17375
81.47	130	0.159231
97.83	249	0.137479
101.19	277	0.12
112.71	371	0.122553
145.88	412	0.809024
262.77	652	0.487042
280.2	725	0.238767
856.48	1367	0.897632
879.34	1519	0.150395
1023.55	2088	0.253445
1122.9	2320	0.428233
1394.39	3165	0.32129
1564.3	3517	0.482699



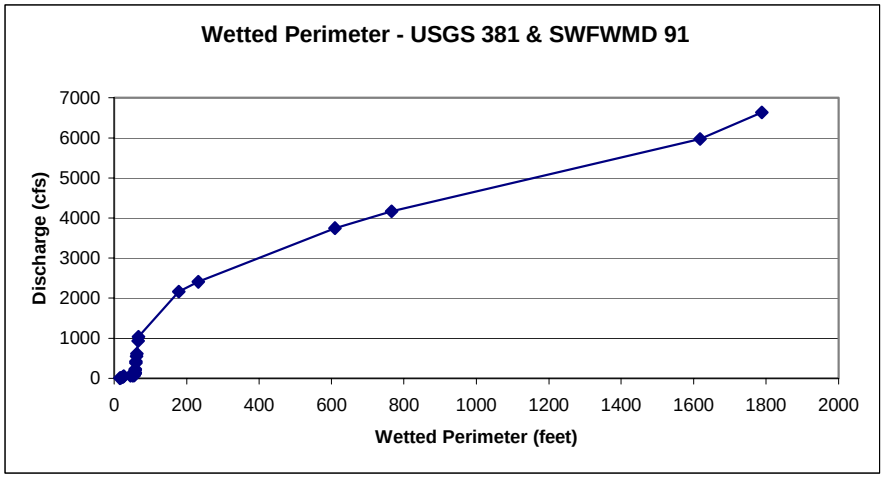


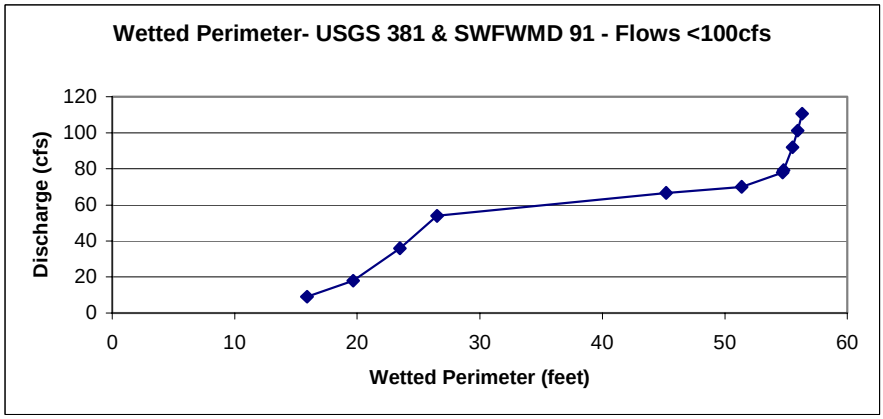
W.P. Total	Q Total	DeltaWP/DeltaQ
44.47	8.5	5.231765
47.42	17	0.347059
51.05	34	0.213529
59.22	51	0.480588
62.21	62.67	0.256213
63	66	0.237237
64.59	73	0.227143
64.88	74.33	0.218045
75.98	86	0.951157
91.05	94.67	1.738178
105.24	103.33	1.638568
117.23	112	1.38293
120.38	120.67	0.363322
133.11	138	0.734564
186.82	195	0.942281
196.54	217	0.441818
463.17	357	1.9045
521.57	397	1.46
659.7	514	1.180598
715.06	571	0.971228
1551.13	870	2.796221
1731.31	966	1.876875
2590.05	2016	0.817848
2605.57	2240	0.069286
2677.03	3488	0.05726
2696.29	3875	0.049767
2738.82	5550	0.025391
2739.74	6167	0.001491



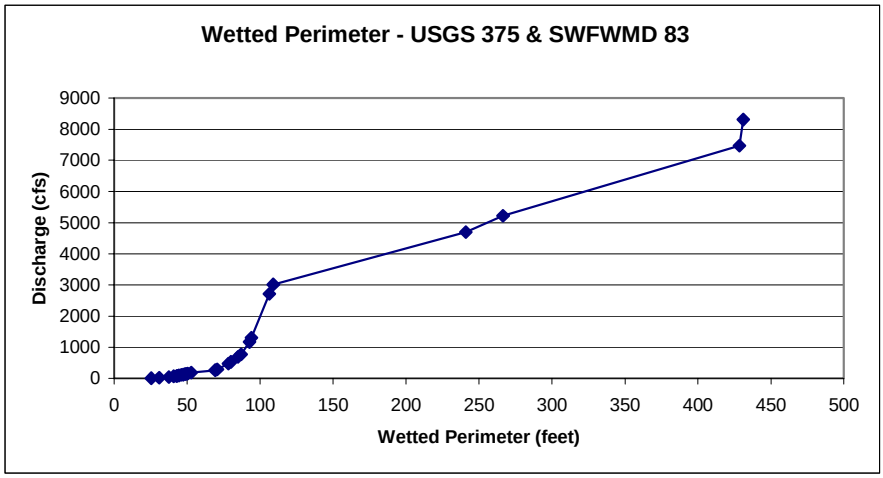


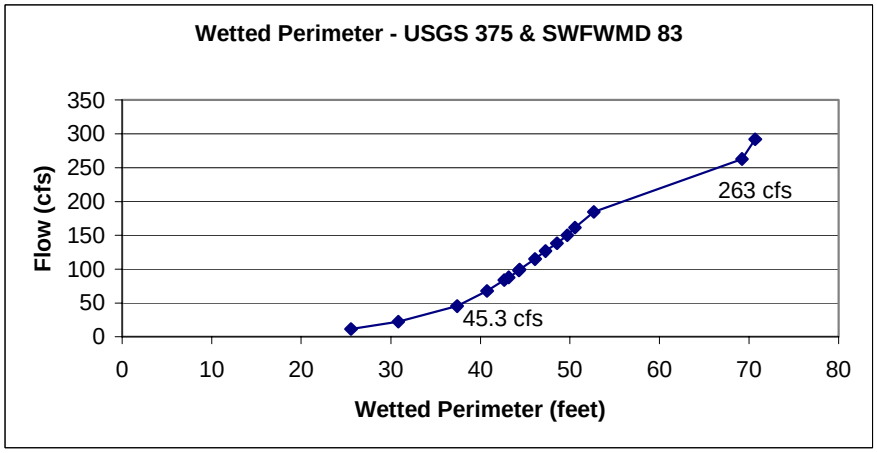
W.P. Total	Q Total	DeltaWP/DeltaQ
45.13	8.5	5.309412
47.64	17	0.295294
51.72	34	0.24
54.96	51	0.190588
56.39	62.67	0.122536
56.53	66	0.042042
56.86	73	0.047143
56.91	74.33	0.037594
57.41	86	0.042845
57.75	94.67	0.039216
58.08	103.33	0.038106
58.39	112	0.035755
58.69	120.67	0.034602
59.27	138	0.033468
61	195	0.030351
61.58	217	0.026364
64.84	357	0.023286
65.77	397	0.02325
68.16	514	0.020427
69.21	571	0.018421
383.13	870	1.0499
420.7	966	0.391354
1546.14	2016	1.071848
1551.22	2240	0.022679
1572.34	3488	0.016923
1574.15	3875	0.004677
1580.27	5550	0.003654
1581.21	6167	0.001524



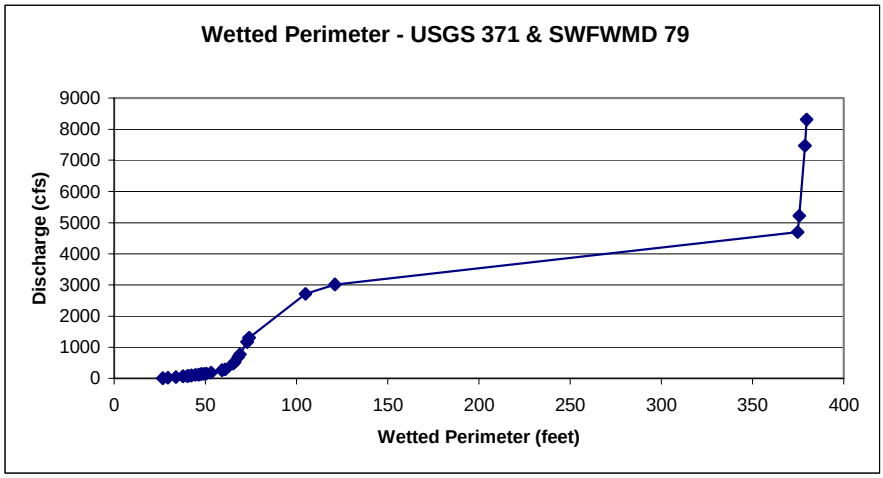


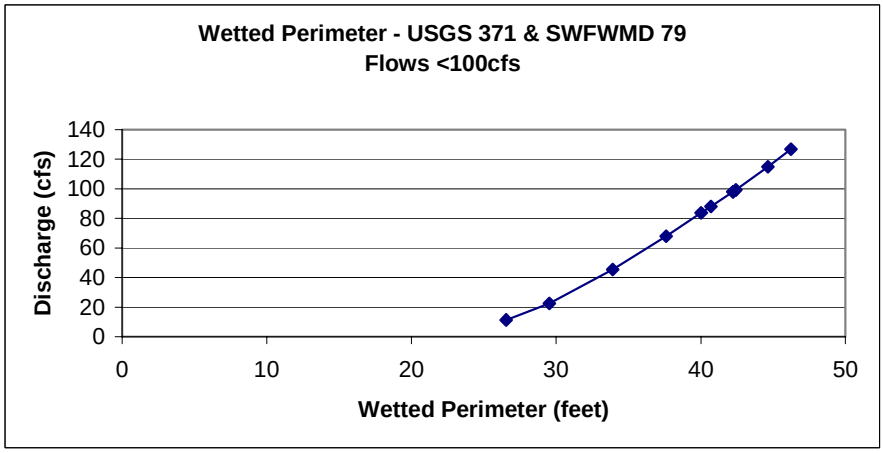
W.P. Total	Q Total	DeltaWP/DeltaQ
15.89	9	1.765556
19.67	18	0.42
23.48	36	0.211667
26.53	54	0.169444
45.2	66.67	1.47356
51.38	70	1.855856
54.7	78	0.415
54.81	79.33	0.082707
55.51	92	0.055249
55.94	101.33	0.046088
56.31	110.67	0.039615
56.94	120	0.067524
57.36	129.33	0.045016
57.93	148	0.03053
58.73	210	0.012903
58.81	233	0.003478
59.81	384	0.006623
60.22	427	0.009535
61.6	553	0.010952
62.3	614	0.011475
65.88	936	0.011118
66.95	1040	0.010288
178.31	2169	0.098636
232.45	2410	0.224647
609.47	3751	0.281148
766.25	4168	0.375971
1617.83	5970	0.472575
1788.03	6633	0.256712



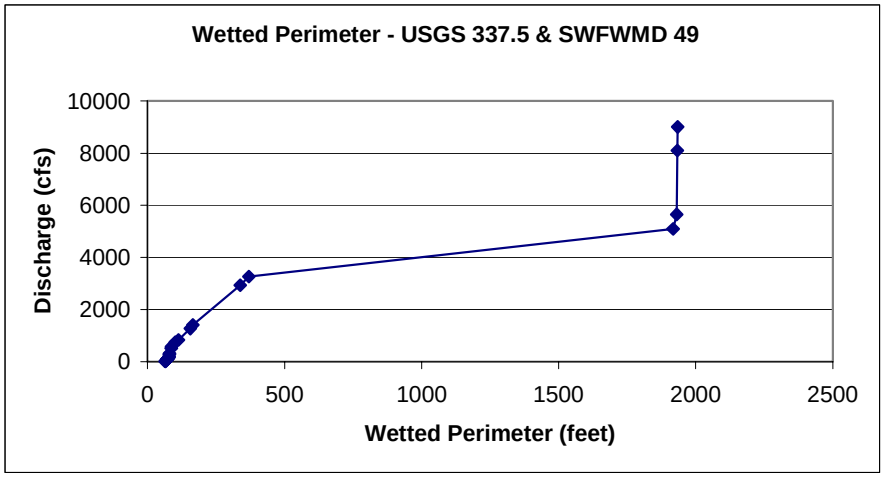


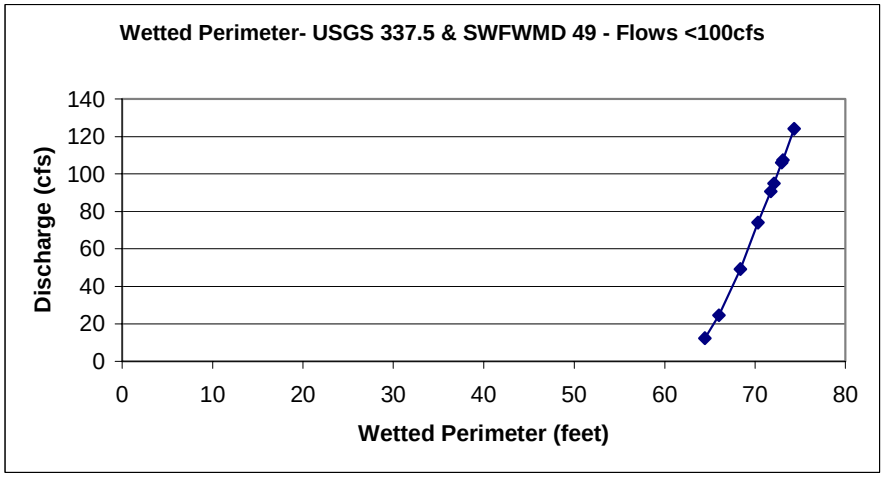
W.P. Total	Q Total	DeltaWP/DeltaQ
25.57	11.33	2.25684
30.84	22.67	0.464727
37.39	45.33	0.289056
40.76	68	0.148655
42.65	83.67	0.120613
43.17	88	0.120092
44.3	98	0.113
44.38	99.33	0.06015
46.1	115	0.109764
47.3	126.67	0.102828
48.54	138.33	0.106346
49.72	150	0.101114
50.56	161.67	0.071979
52.69	185	0.091299
69.23	263	0.212051
70.71	292	0.051034
78.2	482	0.039421
79.94	535	0.03283
84.82	692	0.031083
86.97	769	0.027922
92.85	1172	0.014591
94.17	1302	0.010154
106.39	2715	0.008648
109.08	3017	0.008907
240.96	4697	0.0785
266.47	5219	0.04887
428.59	7475	0.071862
431.27	8306	0.003225



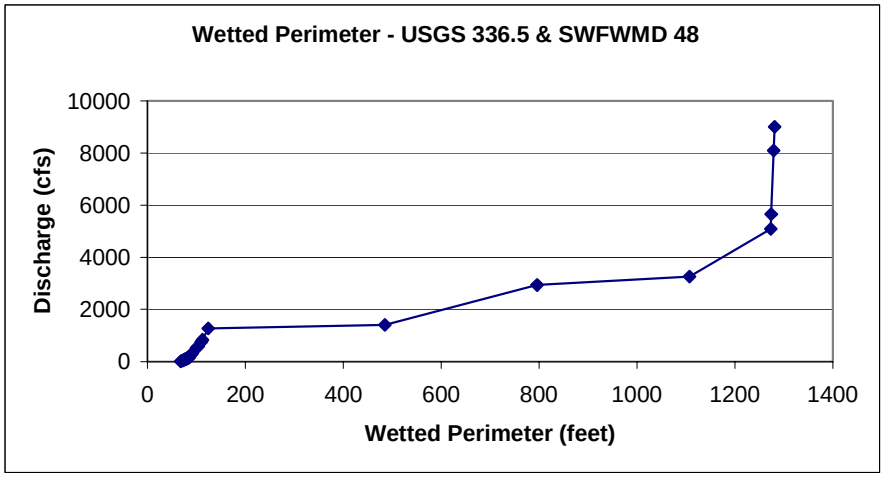


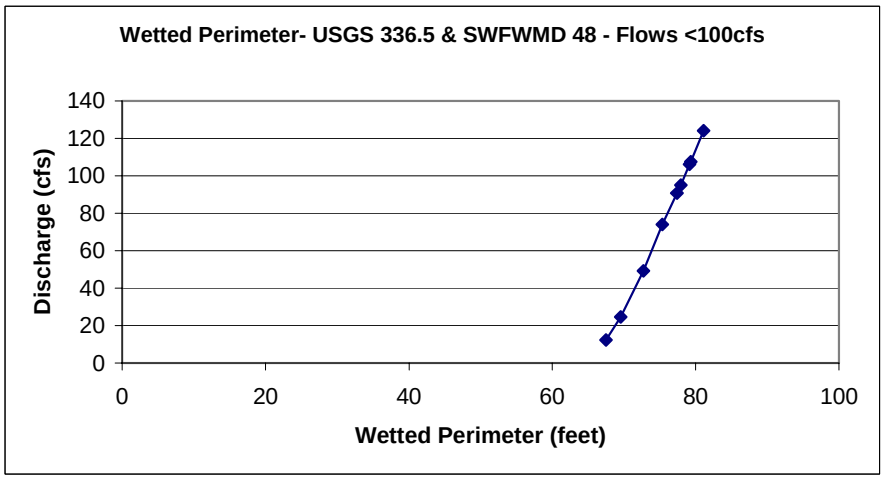
W.P. Total	Q Total	DeltaWP/DeltaQ
26.55	11.33	2.343336
29.53	22.67	0.262787
33.9	45.33	0.192851
37.6	68	0.163211
40.02	83.67	0.154435
40.7	88	0.157044
42.22	98	0.152
42.42	99.33	0.150376
44.65	115	0.14231
46.22	126.67	0.134533
47.71	138.33	0.127787
49.14	150	0.122536
50.52	161.67	0.118252
53.13	185	0.111873
59.13	263	0.076923
60.88	292	0.060345
65.36	482	0.023579
66.11	535	0.014151
68.08	692	0.012548
68.95	769	0.011299
72.89	1172	0.009777
73.99	1302	0.008462
104.88	2715	0.021861
121.02	3017	0.053444
374.8	4697	0.15106
375.64	5219	0.001609
378.68	7475	0.001348
379.64	8306	0.001155



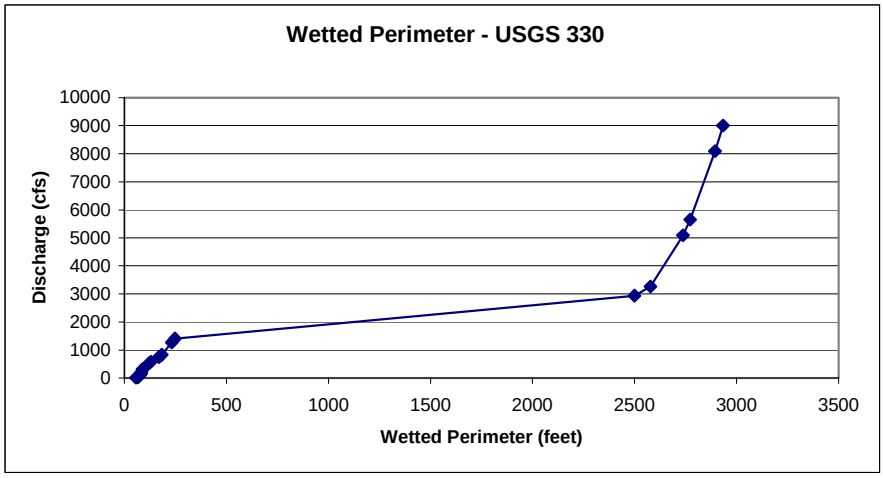


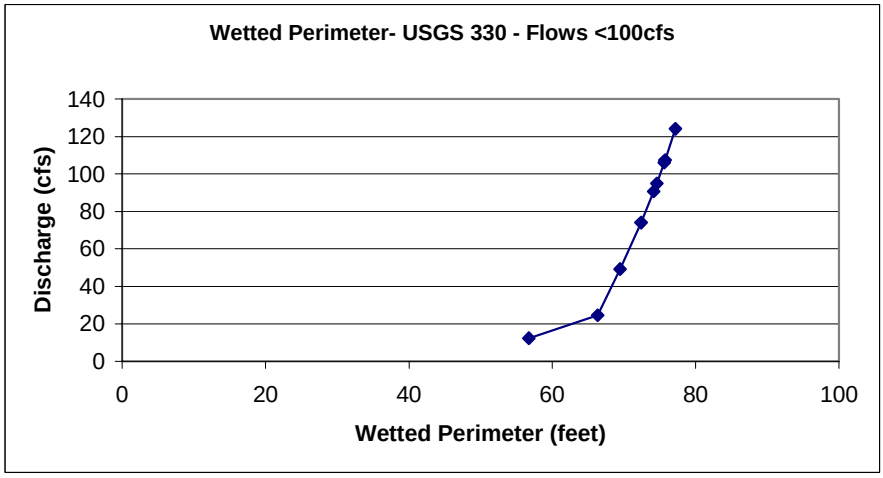
W.P. Total	Q Total	DeltaWP/DeltaQ
64.43	12.33	5.225466
66.01	24.67	0.128039
68.39	49.33	0.096513
70.33	74	0.078638
71.74	90.67	0.084583
72.09	95	0.080831
72.95	106	0.078182
73.06	107.33	0.082707
74.31	124	0.074985
75.22	136.67	0.071823
76.09	149.33	0.06872
76.93	162	0.066298
77.43	174.67	0.039463
78	200	0.022503
79.77	284	0.021071
80.39	316	0.019375
86.19	521	0.028293
87.3	579	0.019138
101.45	750	0.082749
113.04	833	0.139639
156.15	1270	0.09865
165.07	1410	0.063714
337.75	2942	0.112715
369.18	3269	0.096116
1916.98	5090	0.849973
1929.94	5655	0.022938



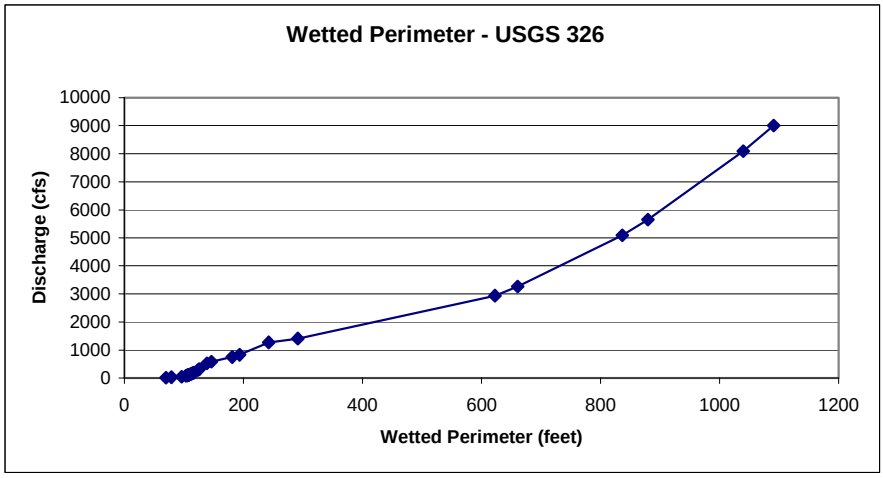


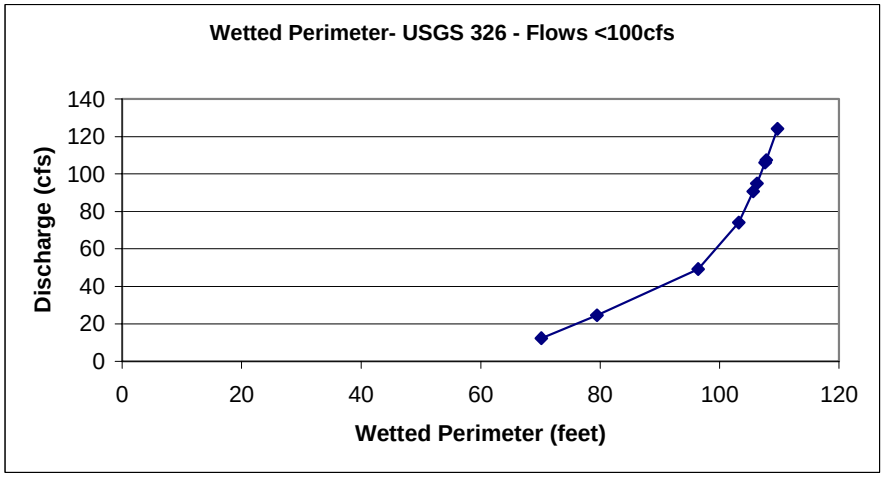
W.P. Total	Q Total	DeltaWP/DeltaQ
67.48	12.33	5.47283
69.54	24.67	0.166937
72.71	49.33	0.128548
75.35	74	0.107013
77.39	90.67	0.122376
77.9	95	0.117783
79.15	106	0.113636
79.31	107.33	0.120301
81.11	124	0.107978
82.46	136.67	0.106551
83.6	149.33	0.090047
84.59	162	0.078137
85.35	174.67	0.059984
86.51	200	0.045795
90.05	284	0.042143
91.27	316	0.038125
99.94	521	0.042293
103.47	579	0.060862
109.66	750	0.036199
112.15	833	0.03
124.05	1270	0.027231
484.53	1410	2.574857
796.06	2942	0.203349
1107.4	3269	0.95211
1273.18	5090	0.091038
1274.45	5655	0.002248
1279.34	8100	0.002
1280.92	9000	0.001756



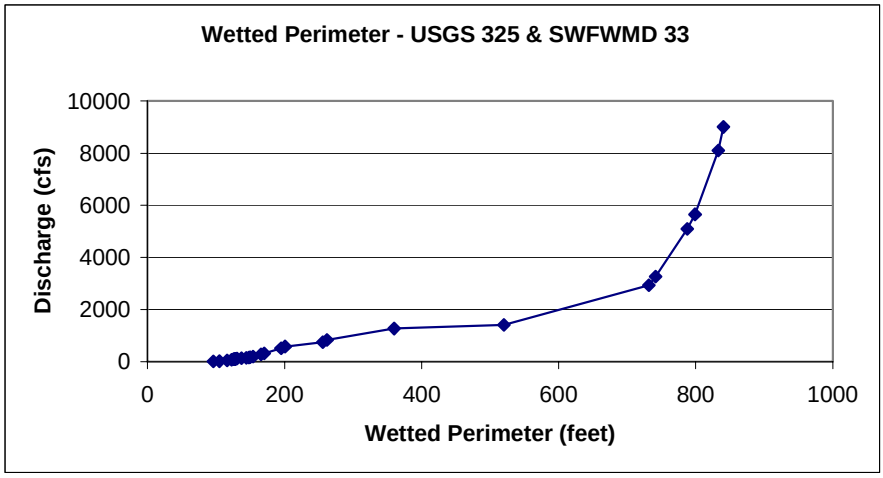


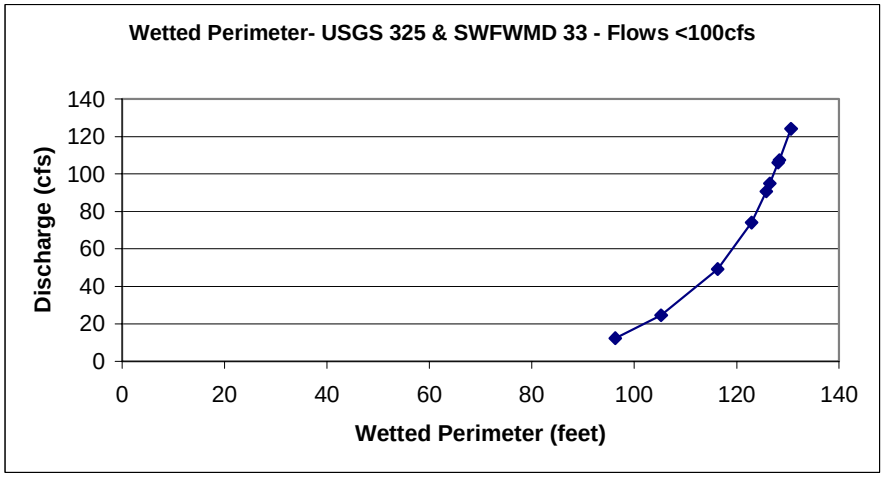
W.P. Total	Q Total	DeltaWP/DeltaQ
56.71	12.33	4.599351
66.35	24.67	0.781199
69.46	49.33	0.126115
72.38	74	0.118362
74.13	90.67	0.104979
74.57	95	0.101617
75.6	106	0.093636
75.74	107.33	0.105263
77.18	124	0.086383
78.23	136.67	0.082873
79.22	149.33	0.078199
80.17	162	0.07498
81.07	174.67	0.071034
82.79	200	0.067904
87.79	284	0.059524
89.49	316	0.053125
120.88	521	0.153122
129.54	579	0.14931
169.14	750	0.231579
183.19	833	0.169277
232.82	1270	0.11357
247.86	1410	0.107429
2500.17	2942	1.470176
2577.78	3269	0.237339
2737.08	5090	0.087479
2772.06	5655	0.061912
2893.91	8100	0.049836
2932.99	9000	0.043422



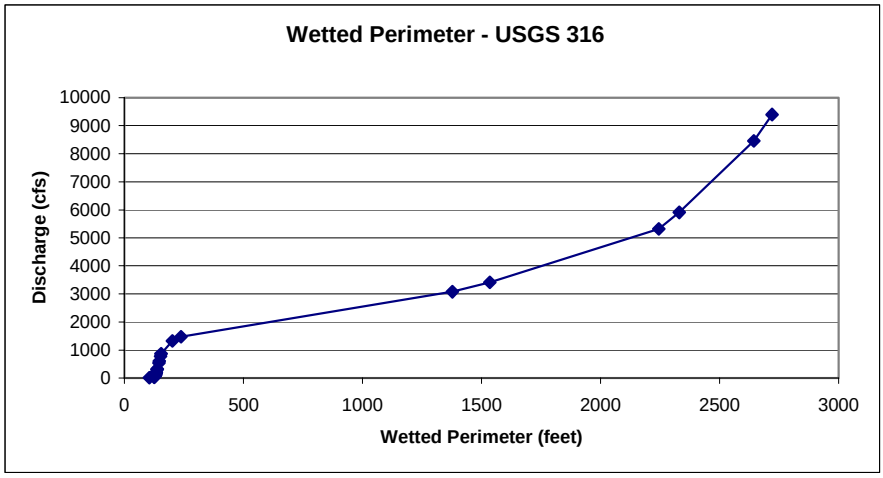


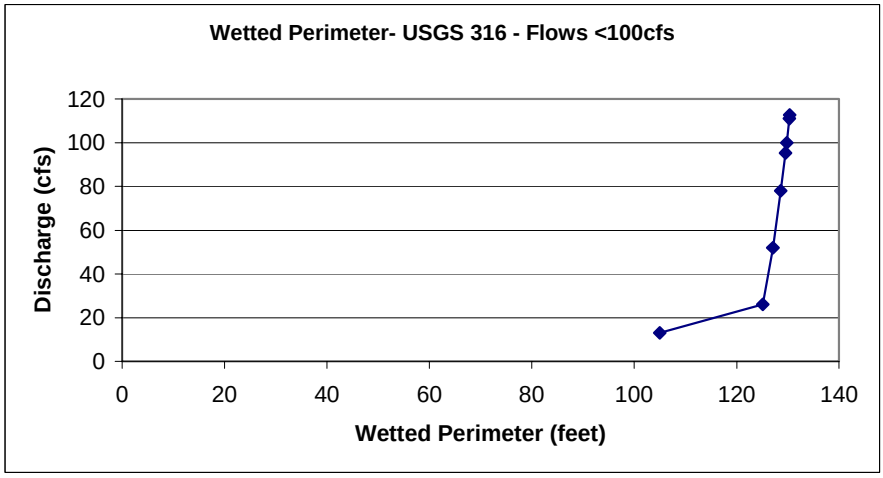
W.P. Total	Q Total	DeltaWP/DeltaQ
70.19	12.33	5.69262
79.44	24.67	0.749595
96.42	49.33	0.688564
103.21	74	0.275233
105.62	90.67	0.144571
106.23	95	0.140878
107.61	106	0.125455
107.8	107.33	0.142857
109.72	124	0.115177
111.1	136.67	0.108919
112.4	149.33	0.102686
113.64	162	0.097869
114.83	174.67	0.093923
117.06	200	0.088038
123.55	284	0.077262
125.76	316	0.069063
138.81	521	0.063659
146.34	579	0.129828
181.42	750	0.205146
193.57	833	0.146386
242.49	1270	0.111945
291.34	1410	0.348929
622.31	2942	0.216038
660.76	3269	0.117584
836.67	5090	0.096601
879.74	5655	0.07623
1040.18	8100	0.06562
1091.13	9000	0.056611



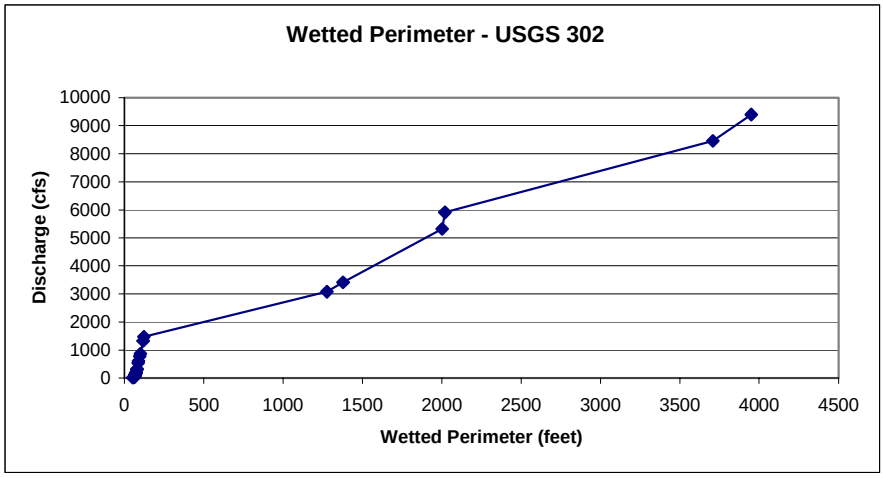


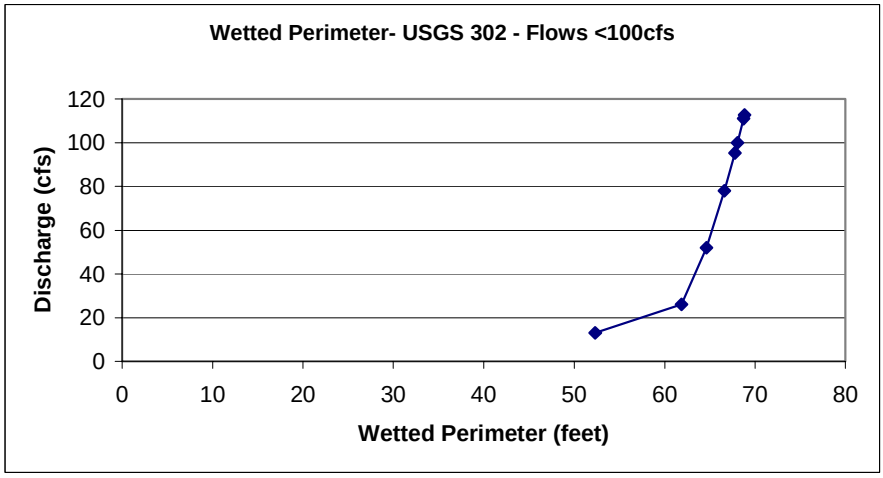
W.P. Total	Q Total	DeltaWP/DeltaQ
96.33	12.33	7.812652
105.27	24.67	0.724473
116.29	49.33	0.446878
122.91	74	0.268342
125.77	90.67	0.171566
126.49	95	0.166282
128.12	106	0.148182
128.35	107.33	0.172932
130.61	124	0.135573
137.46	136.67	0.540647
144.25	149.33	0.536335
147.6	162	0.264404
149.82	174.67	0.175217
154.01	200	0.165417
165.57	284	0.137619
170.15	316	0.143125
194.89	521	0.120683
200.91	579	0.103793
255.63	750	0.32
262.03	833	0.077108
360.05	1270	0.224302
520.19	1410	1.143857
731.57	2942	0.137977
741.69	3269	0.030948
787.94	5090	0.025398
799.23	5655	0.019982
832.81	8100	0.013734
840.69	9000	0.008756



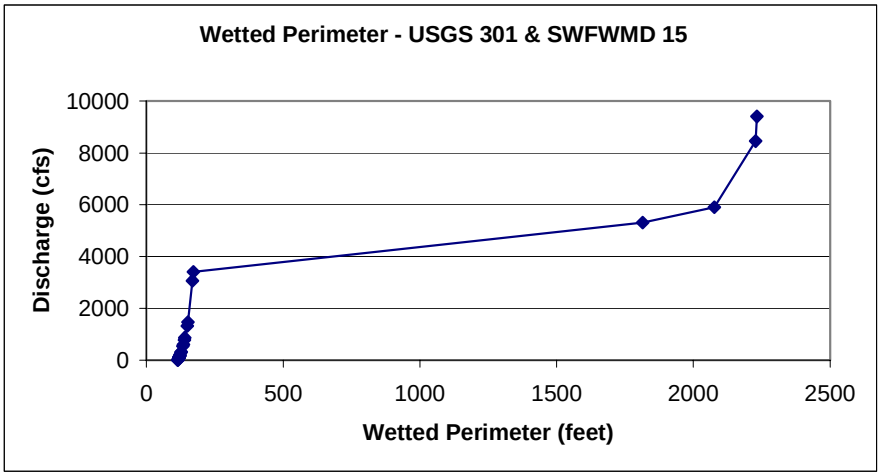


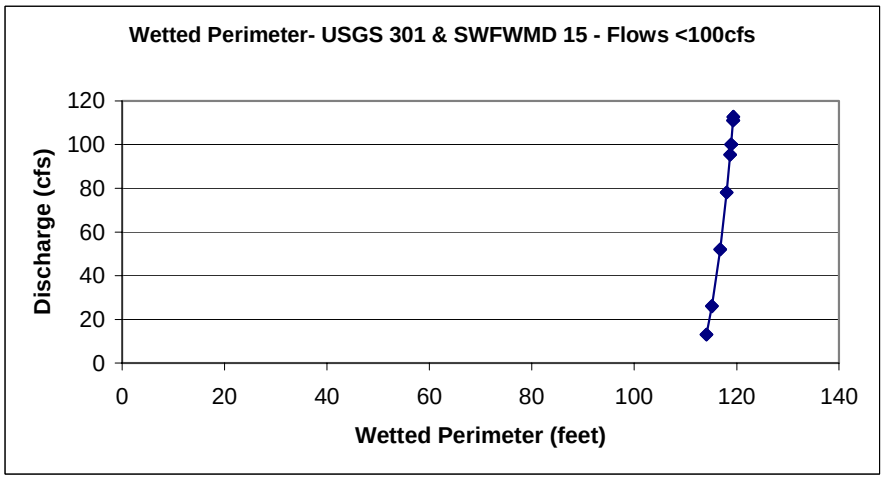
W.P. Total	Q Total	DeltaWP/DeltaQ
104.99	13	8.076154
125.08	26	1.545385
127.05	52	0.075769
128.6	78	0.059615
129.53	95.33	0.053664
129.76	100	0.049251
130.28	111	0.047273
130.36	112.67	0.047904
131.14	130	0.045009
131.72	143.17	0.044039
132.24	156.33	0.039514
132.77	169.5	0.040243
133.27	182.67	0.037965
134.22	209	0.036081
137.04	297	0.032045
137.98	330	0.028485
145.38	544	0.034579
147	605	0.026557
151.85	783	0.027247
153.85	870	0.022989
202.14	1326	0.105899
238.1	1473	0.244626
1377.21	3073	0.711944
1535.27	3414	0.463519
2244.09	5314	0.373063
2330.85	5905	0.146802
2644.18	8458	0.12273
2721.31	9398	0.082053



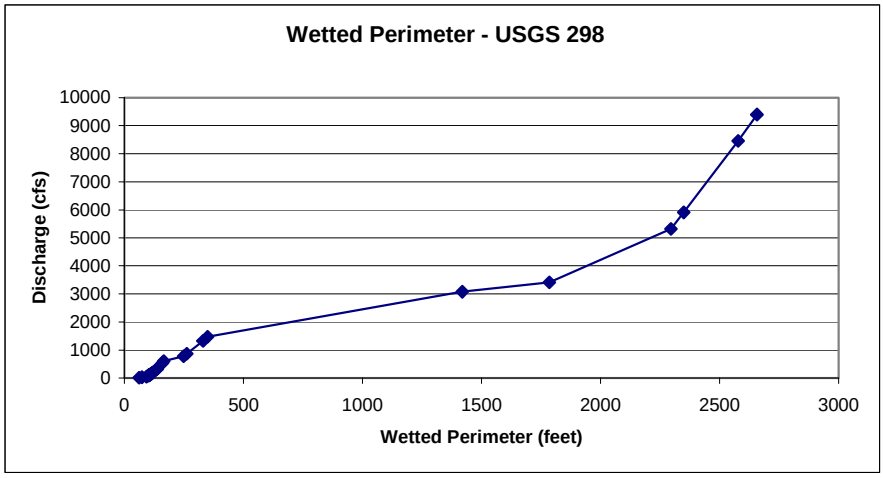


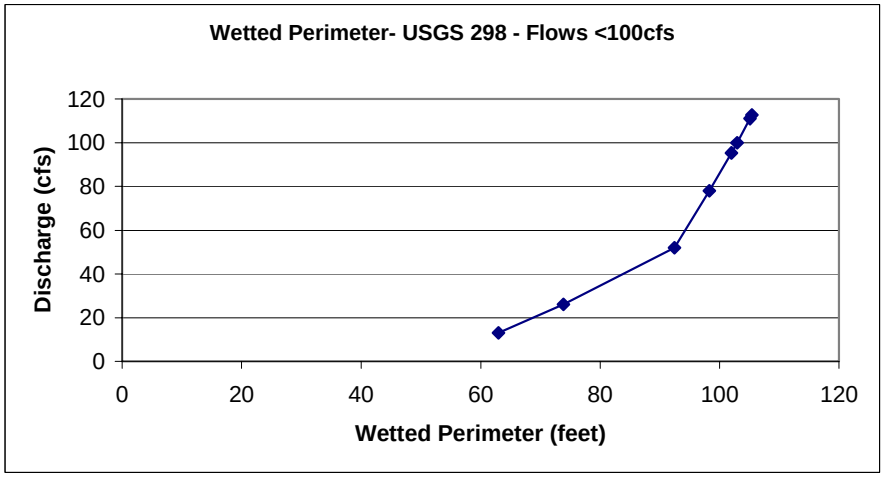
W.P. Total	Q Total	DeltaWP/DeltaQ
52.32	13	4.024615
61.87	26	0.734615
64.61	52	0.105385
66.6	78	0.076538
67.77	95.33	0.067513
68.08	100	0.066381
68.73	111	0.059091
68.83	112.67	0.05988
69.89	130	0.061166
70.65	143.17	0.057707
71.37	156.33	0.054711
72.12	169.5	0.056948
72.77	182.67	0.049355
74.05	209	0.048614
77.91	297	0.043864
79.27	330	0.041212
86.86	544	0.035467
88.76	605	0.031148
96.99	783	0.046236
100.67	870	0.042299
118.32	1326	0.038706
123.96	1473	0.038367
1275.64	3073	0.7198
1378.07	3414	0.300381
2002.71	5314	0.328758
2019.95	5905	0.029171
3707.26	8458	0.660913
3950.96	9398	0.259255



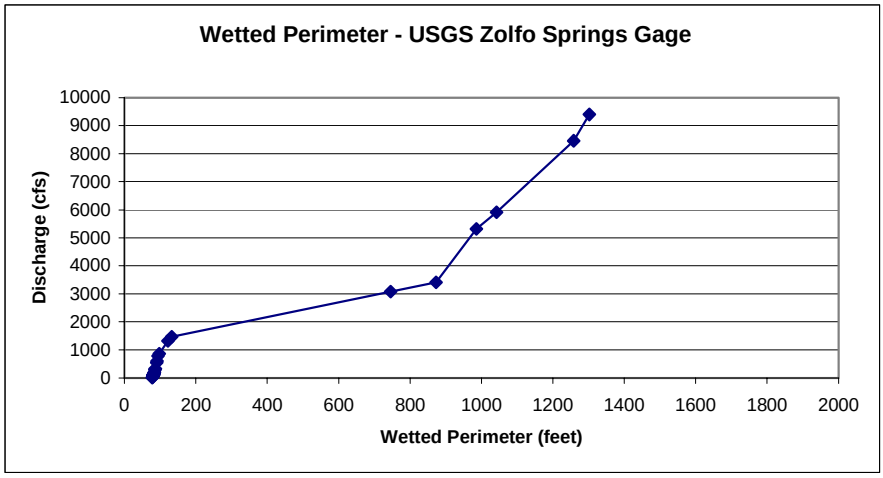


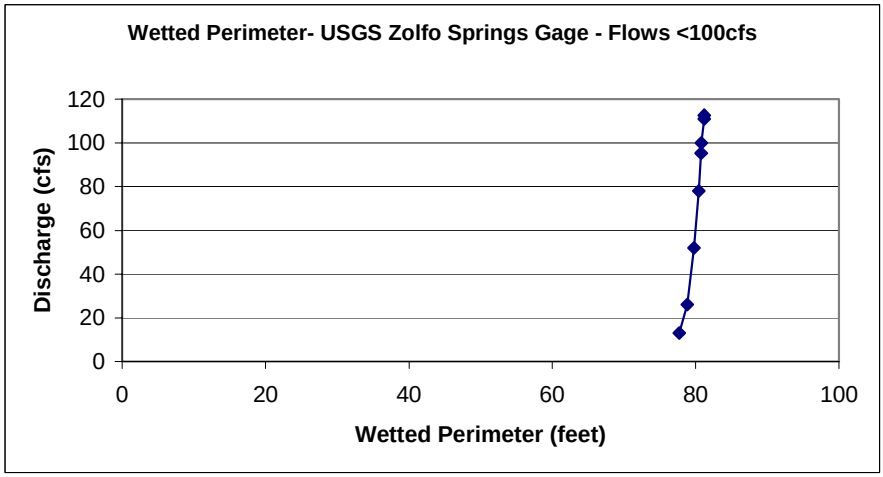
W.P. Total	Q Total	DeltaWP/DeltaQ
114.07	13	8.774615
115.17	26	0.084615
116.81	52	0.063077
118.02	78	0.046538
118.73	95.33	0.040969
118.92	100	0.040685
119.32	111	0.036364
119.38	112.67	0.035928
120.02	130	0.03693
120.48	143.17	0.034928
120.91	156.33	0.032675
121.36	169.5	0.034169
121.76	182.67	0.030372
122.54	209	0.029624
125.92	297	0.038409
127.24	330	0.04
133.42	544	0.028879
134.97	605	0.02541
138.86	783	0.021854
140.59	870	0.019885
148.89	1326	0.018202
151.31	1473	0.016463
168.53	3073	0.010763
171.63	3414	0.009091
1814.71	5314	0.864779
2077.16	5905	0.444078
2227.76	8458	0.058989
2232.78	9398	0.00534



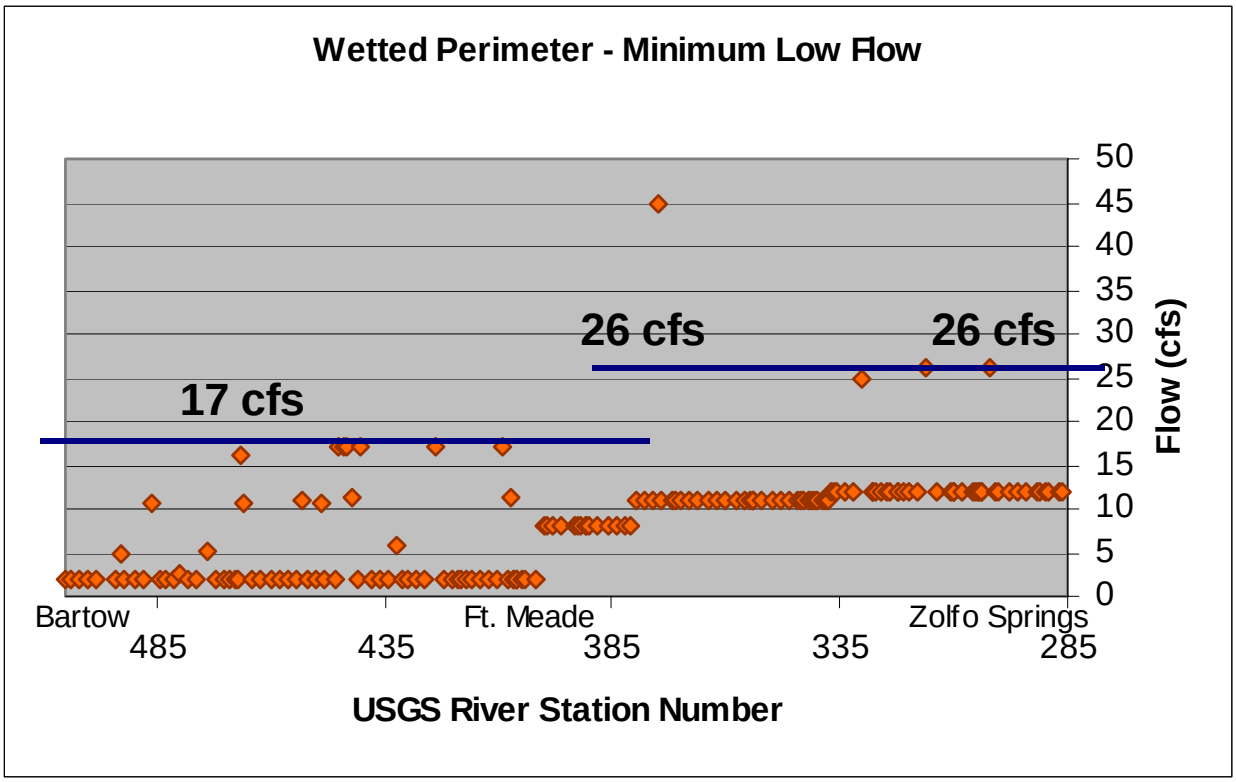


W.P. Total	Q Total	DeltaWP/DeltaQ
62.97	13	4.843846
73.88	26	0.839231
92.44	52	0.713846
98.3	78	0.225385
101.97	95.33	0.211771
102.91	100	0.201285
105.08	111	0.197273
105.4	112.67	0.191617
108.64	130	0.186959
110.98	143.17	0.177677
113.25	156.33	0.172492
115.43	169.5	0.165528
117.54	182.67	0.160213
121.55	209	0.152298
133.46	297	0.135341
137.44	330	0.120606
159.97	544	0.10528
165.53	605	0.091148
249.12	783	0.469607
262.43	870	0.152989
330.06	1326	0.148311
349.82	1473	0.134422
1420	3073	0.668863
1785.83	3414	1.072815
2294.91	5314	0.267937
2350.38	5905	0.093858
2577.66	8458	0.089025
2656.5	9398	0.083872





W.P. Total	Q Total	DeltaWP/DeltaQ
77.71	13	5.977692
78.82	26	0.085385
79.76	52	0.036154
80.42	78	0.025385
80.75	95.33	0.019042
80.79	100	0.008565
81.2	111	0.037273
81.2	112.67	0
82.05	130	0.049048
82.53	143.17	0.036446
82.86	156.33	0.025076
83.22	169.5	0.027335
83.62	182.67	0.030372
84.16	209	0.020509
85.76	297	0.018182
86.42	330	0.02
90.22	544	0.017757
91.18	605	0.015738
93.87	783	0.015112
97.87	870	0.045977
121.75	1326	0.052368
132.91	1473	0.075918
745.22	3073	0.382694
872.81	3414	0.374164
985.77	5314	0.059453
1042.17	5905	0.095431
1258.65	8458	0.084794
1302.17	9398	0.046298

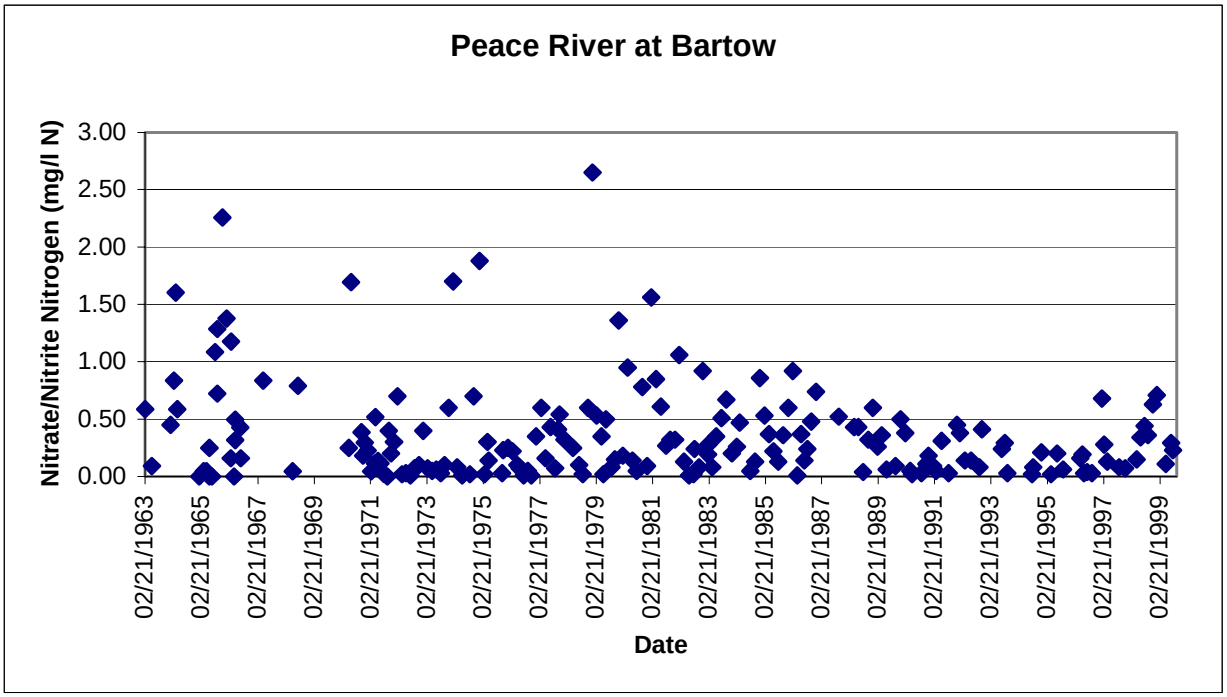

Wetted Perimeter - Minimum Low Flow
50
45
40
35
30
25
20
15
10
5
0
Flow (cfs)
26 cfs
26 cfs
17 cfs
Bartow
Ft. Meade
Zolfo Springs
485
435
385
335
285
USGS River Station Number

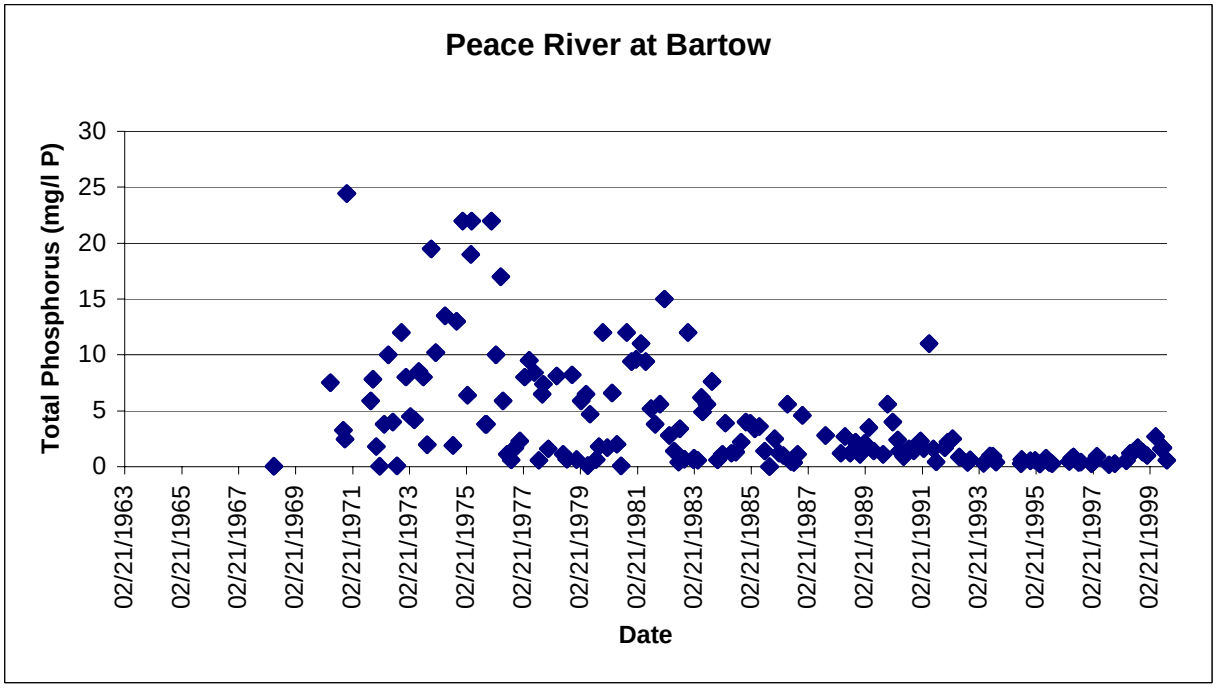
APPENDIX WQ

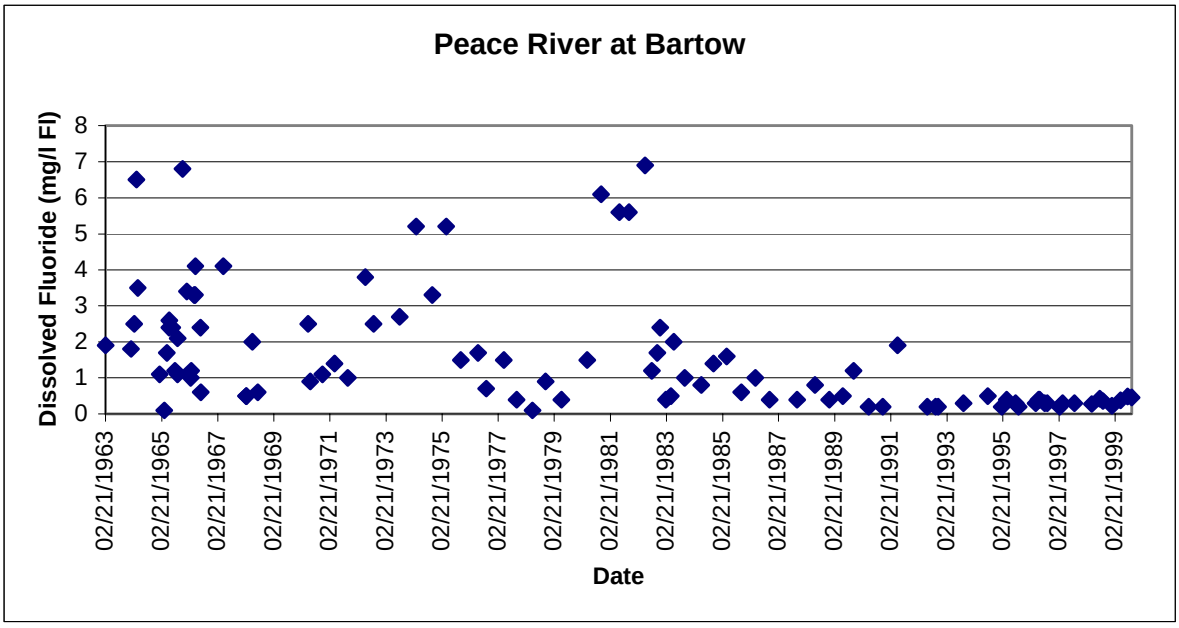
Water Quality - WQ

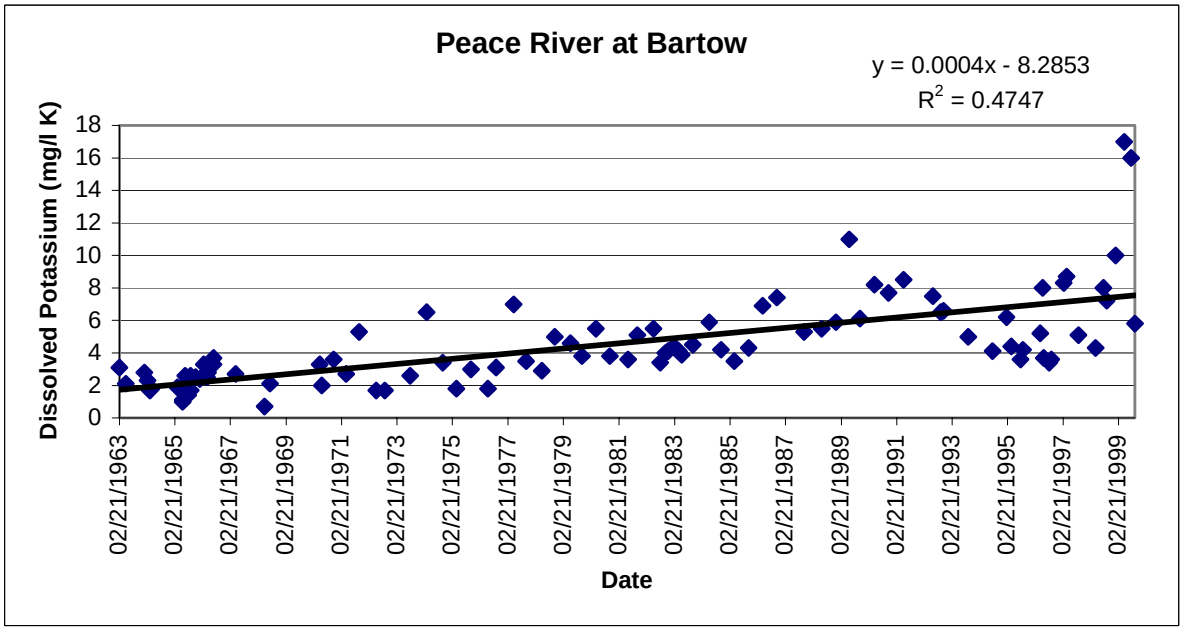
This appendix contains water quality plots for four selected parameters: nitrogen, phosphorus, fluoride and potassium. Plots are included for the four long-term USGS gage sites on the Peace River and for sites on other rivers for comparative purposes. A simple linear regression line was included on the potassium plots for reference. Seasonal Kendall was used to test for significance of increasing potassium trend at the Peace River at Arcadia as discussed in the main text of report. Also included are correlation matrices of selected water quality parameters and flow at Peace River sites and for the Alafia River and Withlacoochee River for comparative purposes.

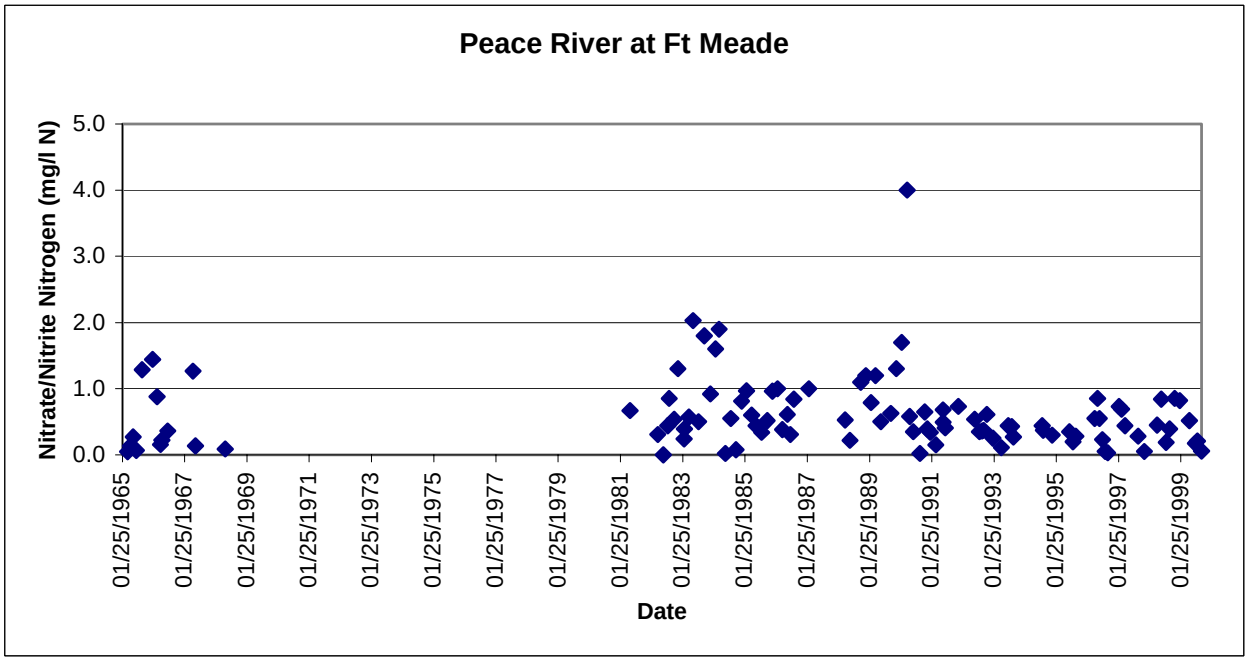
Chart/Table	Page
Peace River at Bartow - Nitrate-nitrite nitrogen	WQ-2
Peace River at Bartow - Total phosphorus	WQ-2
Peace River at Bartow - Dissolved fluoride	WQ-3
Peace River at Bartow - Dissolved potassium	WQ-3
Peace River at Ft. Meade - Nitrate-nitrite nitrogen	WQ-4
Peace River at Ft. Meade - Total phosphorus	WQ-4
Peace River at Ft. Meade - Dissolved fluoride	WQ-5
Peace River at Ft. Meade - Dissolved potassium	WQ-5
Peace River at Zolfo Springs - Nitrate-nitrite nitrogen	WQ-6
Peace River at Zolfo Springs - Total phosphorus	WQ-6
Peace River at Zolfo Springs - Dissolved fluoride	WQ-7
Peace River at Zolfo Springs - Dissolved potassium	WQ-7
Peace River at Arcadia - Nitrate-nitrite nitrogen	WQ-8
Peace River at Arcadia - Dissolved phosphorus	WQ-8
Peace River at Arcadia - Dissolved fluoride	WQ-9
Peace River at Arcadia - Dissolved potassium	WQ-9
Alafia River at Lithia - Nitrate-nitrite nitrogen	WQ-10
Alafia River at Lithia - Total phosphorus	WQ-10
Alafia River at Lithia - Dissolved fluoride	WQ-11
Alafia River at Lithia - Dissolved potassium	WQ-11
Withlacoochee River at Holder - Nitrate-nitrite nitroge	WQ-12
Withlacoochee River at Holder - Total phosphorus	WQ-12
Withlacoochee River at Holder - Dissolved fluoride	WQ-13
Withlacoochee River at Holder - Dissolved potassium	WQ-13
Correlation matrix for Peace River at Bartow	WQ-14
Correlation matrix for Peace River at Ft. Meade	WQ-14
Correlation matrix for Peace River at Zolfo Springs	WQ-15
Correlation matrix for Peace River at Arcadia	WQ-15
Correlation matrix for Alafia River at Lithia	WQ-16
Correlation matrix for Withlacoochee River at Holder	WQ-16

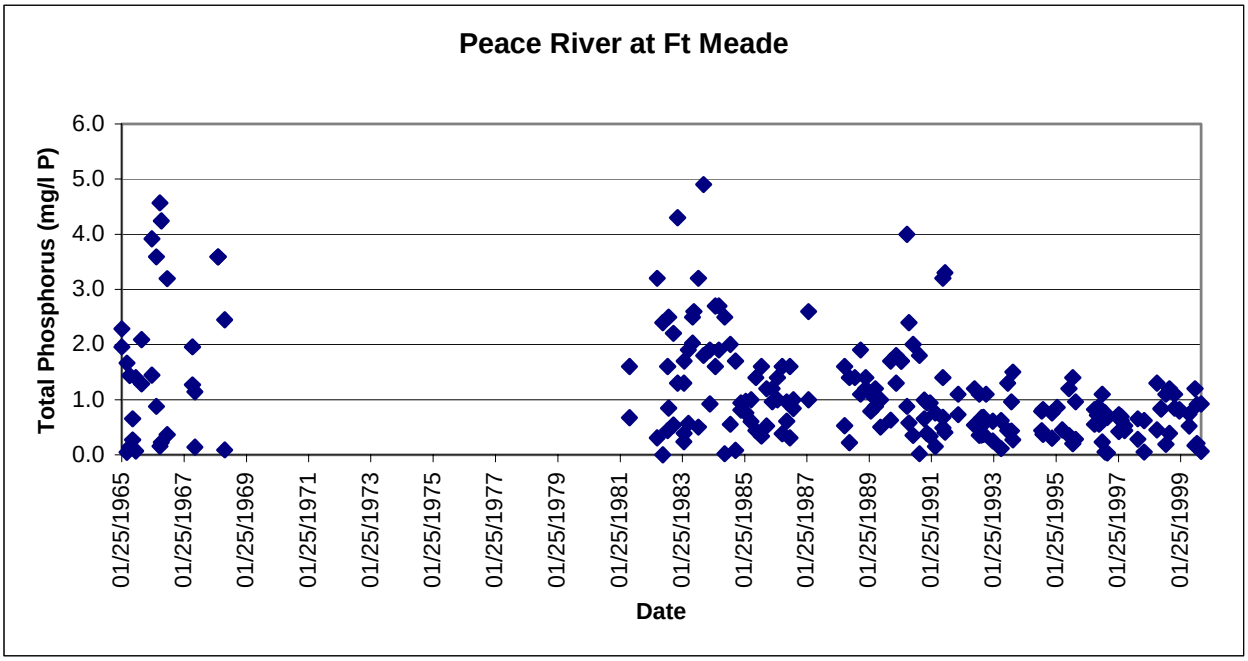

Peace River at Bartow
Nitrate/Nitrite Nitrogen (mg/l N)
3.00
2.50
2.00
1.50
1.00
0.50
0.00
02/21/1963
02/21/1965
02/21/1967
02/21/1969
02/21/1971
02/21/1973
02/21/1975
02/21/1977
02/21/1979
02/21/1981
02/21/1983
02/21/1985
02/21/1987
02/21/1989
02/21/1991
02/21/1993
02/21/1995
02/21/1997
02/21/1999
Date

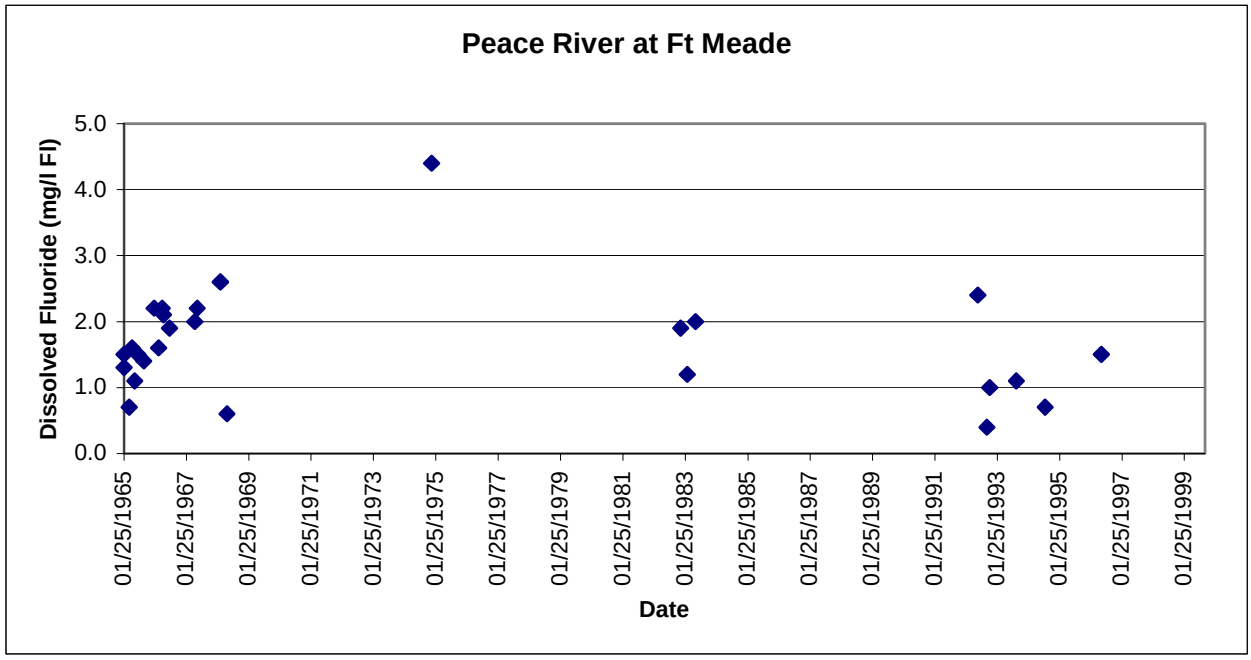

Peace River at Bartow
Total Phosphorus (mg/l P)
30
25
20
15
10
5
0
02/21/1963
02/21/1965
02/21/1967
02/21/1969
02/21/1971
02/21/1973
02/21/1975
02/21/1977
02/21/1979
02/21/1981
02/21/1983
02/21/1985
02/21/1987
02/21/1989
02/21/1991
02/21/1993
02/21/1995
02/21/1997
02/21/1999
Date

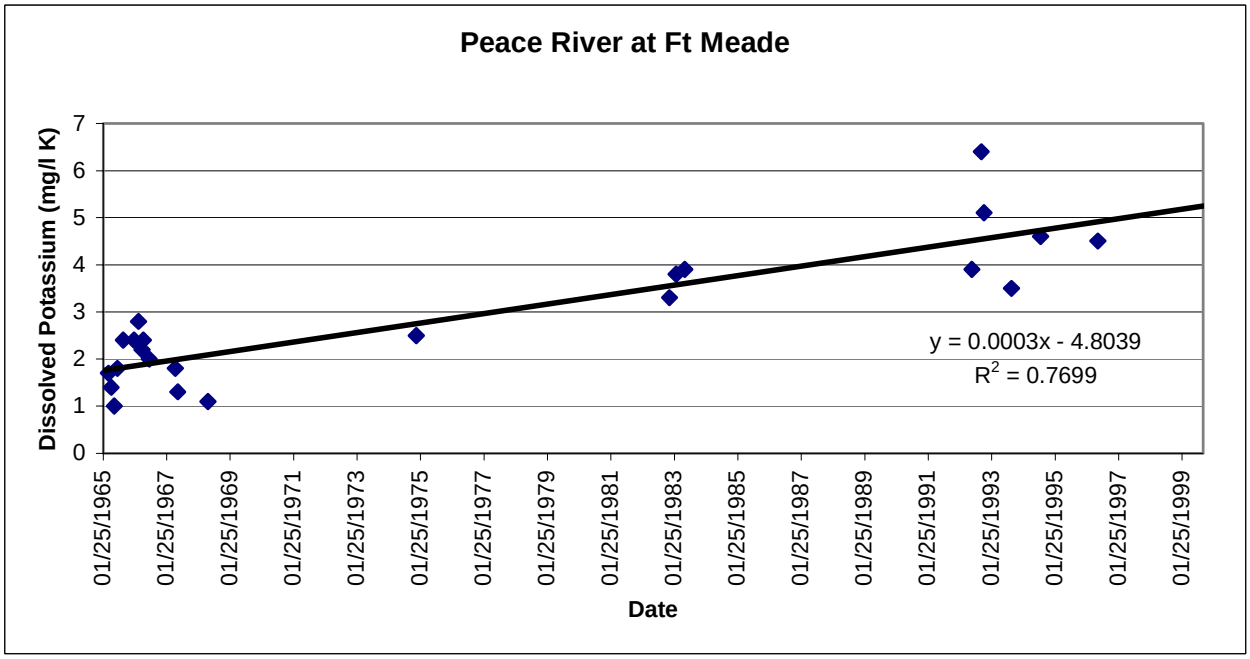

Peace River at Bartow
Dissolved Fluoride (mg/l Fl)
0
1
2
3
4
5
6
7
8
02/21/1963
02/21/1965
02/21/1967
02/21/1969
02/21/1971
02/21/1973
02/21/1975
02/21/1977
02/21/1979
02/21/1981
02/21/1983
02/21/1985
02/21/1987
02/21/1989
02/21/1991
02/21/1993
02/21/1995
02/21/1997
02/21/1999
Date

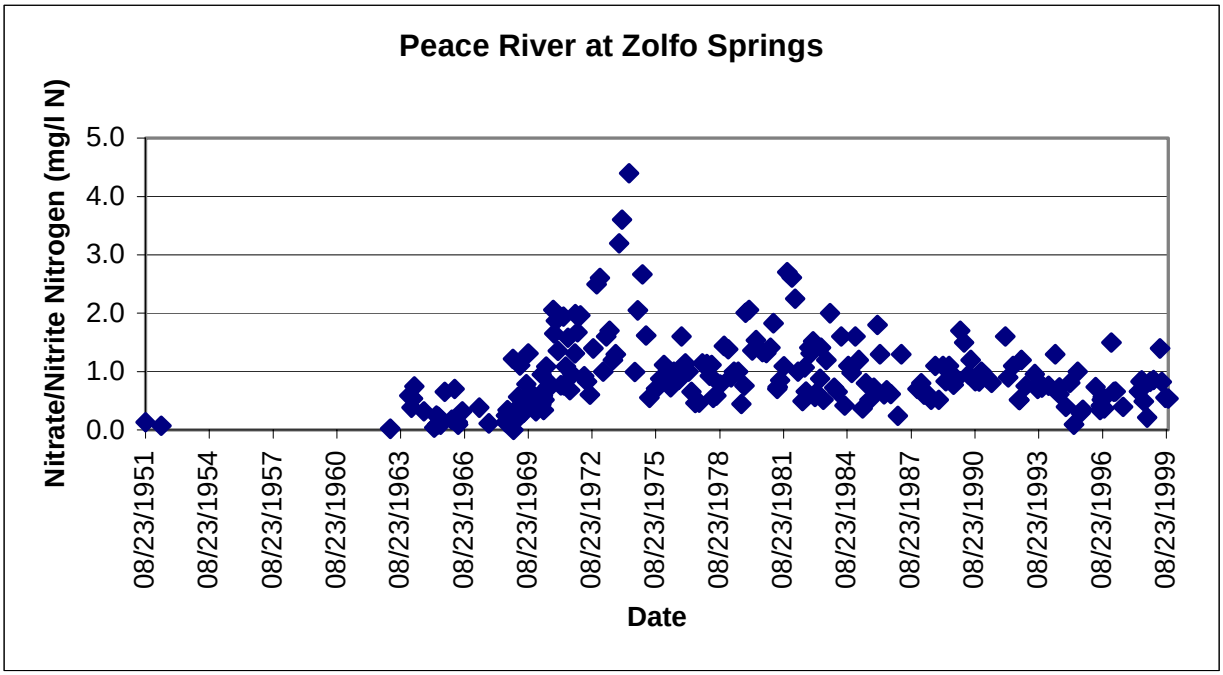

Peace River at Bartow
y = 0.0004x - 8.2853
R2 = 0.4747
Dissolved Potassium (mg/l K)
0
2
4
6
8
10
12
14
16
18
02/21/1963
02/21/1965
02/21/1967
02/21/1969
02/21/1971
02/21/1973
02/21/1975
02/21/1977
02/21/1979
02/21/1981
02/21/1983
02/21/1985
02/21/1987
02/21/1989
02/21/1991
02/21/1993
02/21/1995
02/21/1997
02/21/1999
Date

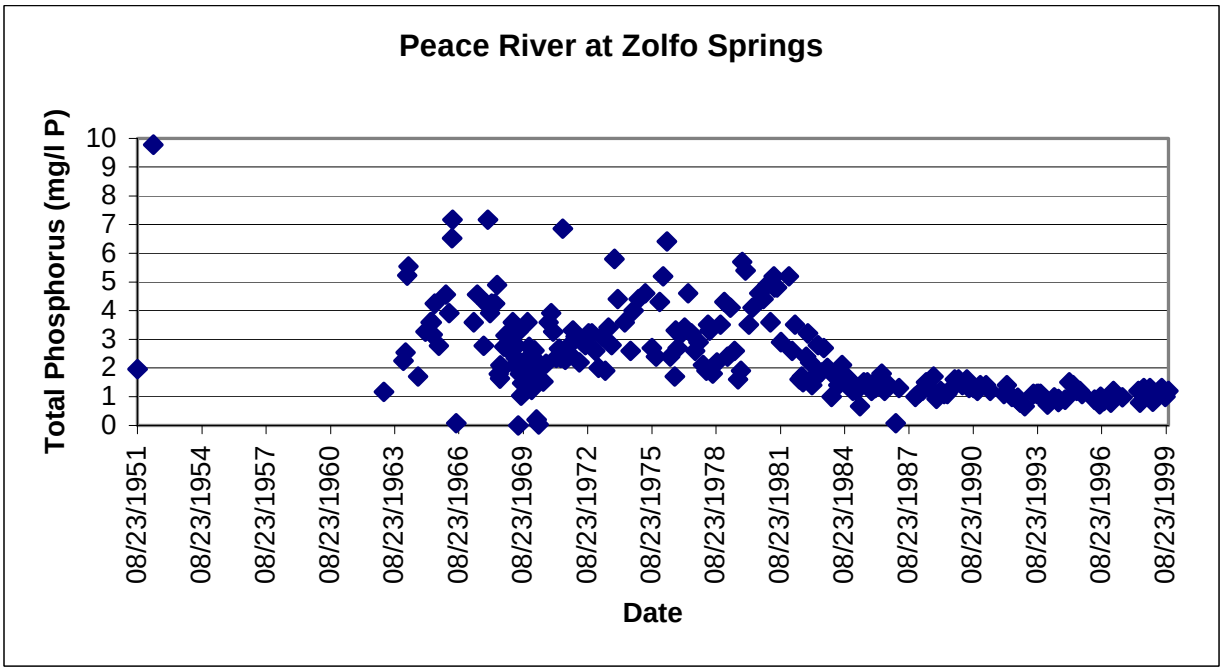

Peace River at Ft Meade
Nitrate/Nitrite Nitrogen (mg/l N)
5.0
4.0
3.0
2.0
1.0
0.0
01/25/1965
01/25/1967
01/25/1969
01/25/1971
01/25/1973
01/25/1975
01/25/1977
01/25/1979
01/25/1981
01/25/1983
01/25/1985
01/25/1987
01/25/1989
01/25/1991
01/25/1993
01/25/1995
01/25/1997
01/25/1999
Date

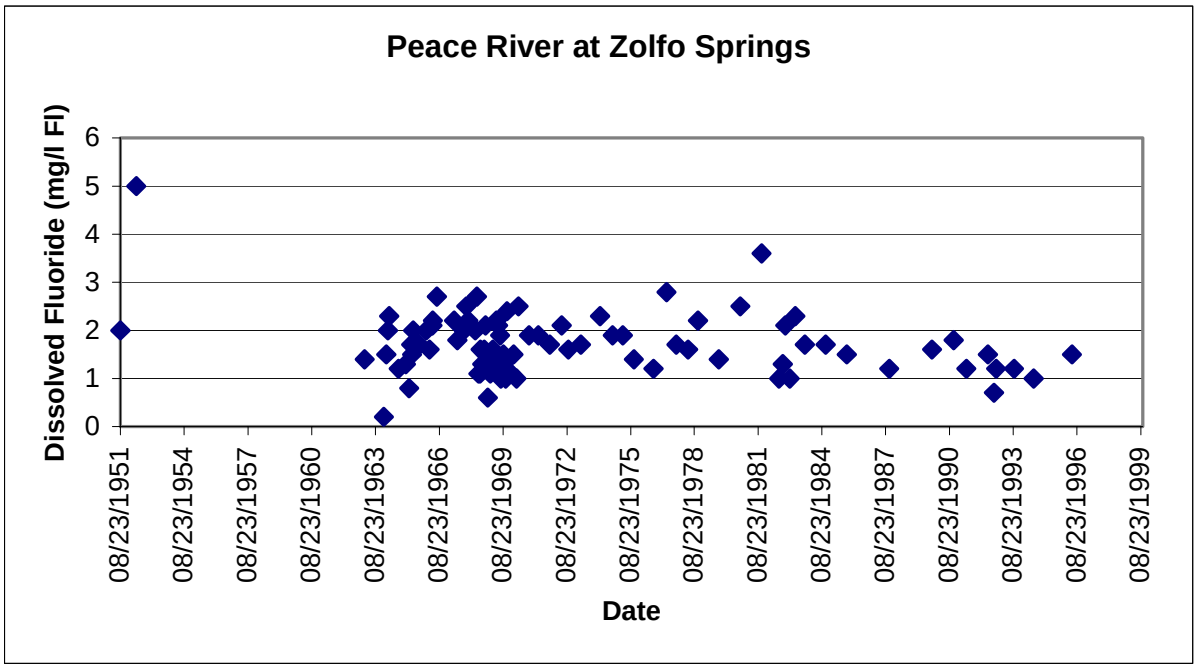

Peace River at Ft Meade
Total Phosphorus (mg/l P)
6.0
5.0
4.0
3.0
2.0
1.0
0.0
01/25/1965
01/25/1967
01/25/1969
01/25/1971
01/25/1973
01/25/1975
01/25/1977
01/25/1979
01/25/1981
01/25/1983
01/25/1985
01/25/1987
01/25/1989
01/25/1991
01/25/1993
01/25/1995
01/25/1997
01/25/1999
Date

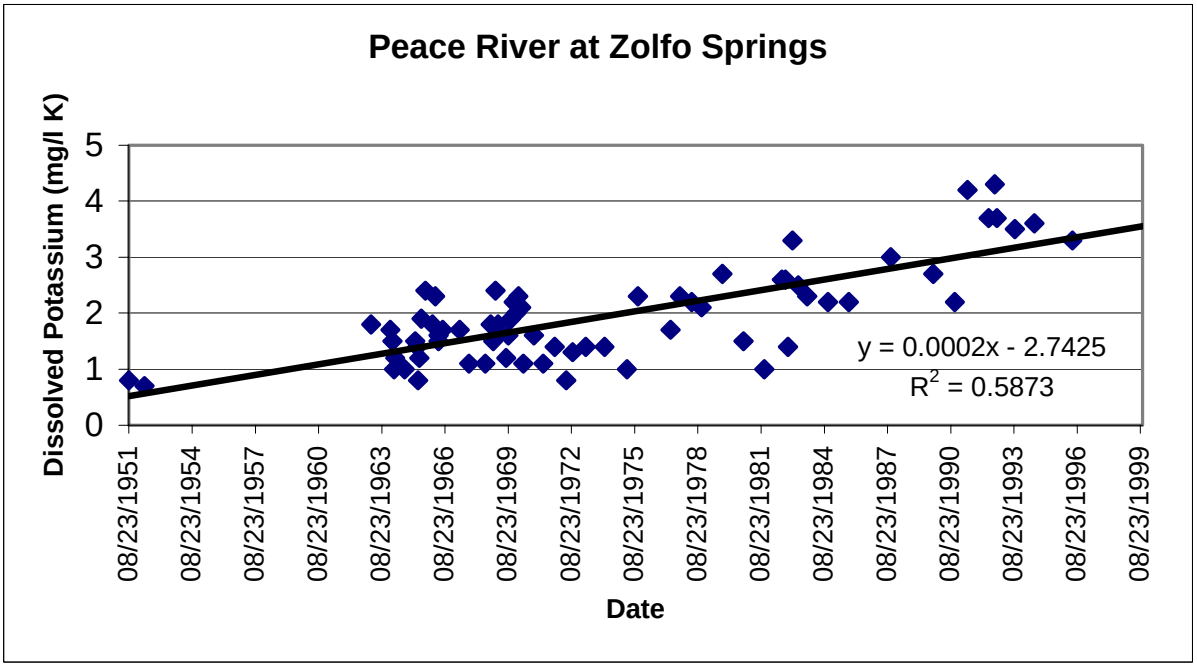

Peace River at Ft Meade
Dissolved Fluoride (mg/l Fl)
5.0
4.0
3.0
2.0
1.0
0.0
01/25/1965
01/25/1967
01/25/1969
01/25/1971
01/25/1973
01/25/1975
01/25/1977
01/25/1979
01/25/1981
01/25/1983
01/25/1985
01/25/1987
01/25/1989
01/25/1991
01/25/1993
01/25/1995
01/25/1997
01/25/1999
Date

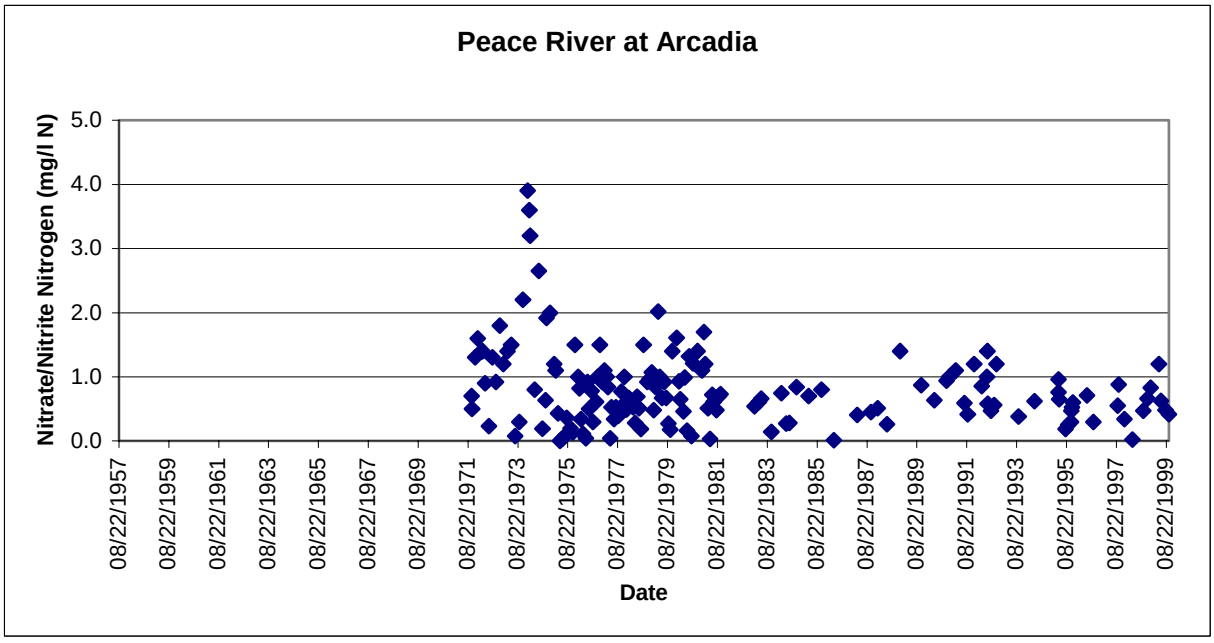

Peace River at Ft Meade
Dissolved Potassium (mg/l K)
7
6
5
4
3
2
1
0
y = 0.0003x - 4.8039
R2 = 0.7699
01/25/1965
01/25/1967
01/25/1969
01/25/1971
01/25/1973
01/25/1975
01/25/1977
01/25/1979
01/25/1981
01/25/1983
01/25/1985
01/25/1987
01/25/1989
01/25/1991
01/25/1993
01/25/1995
01/25/1997
01/25/1999
Date

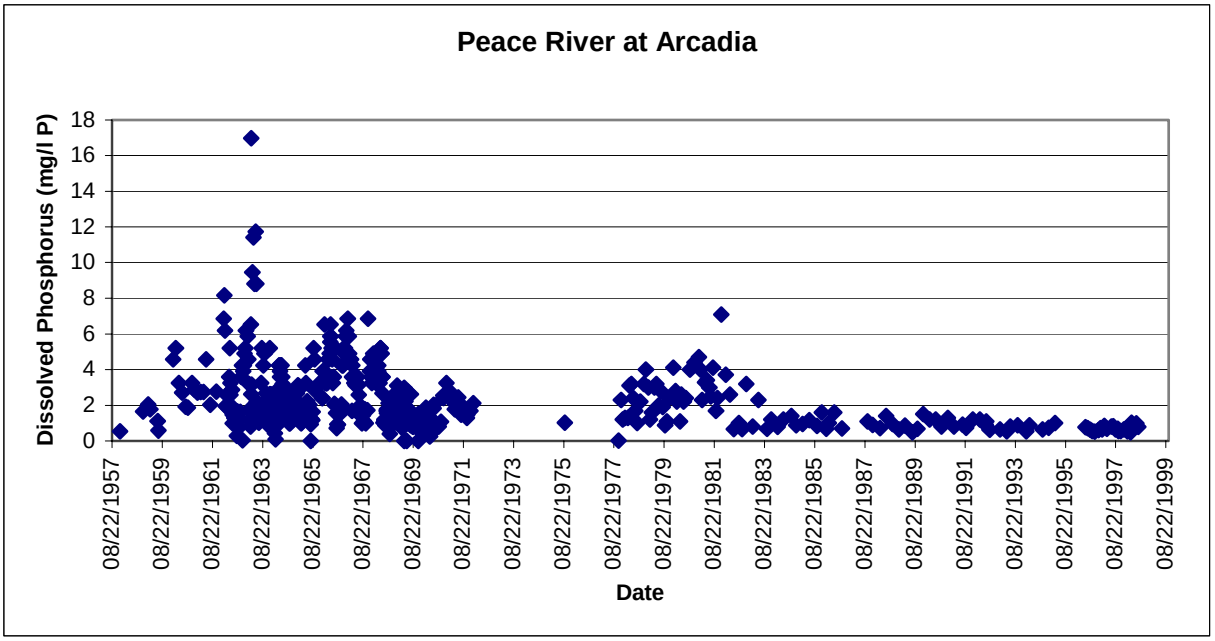

Peace River at Zolfo Springs
Nitrate/Nitrite Nitrogen (mg/l N)
5.0
4.0
3.0
2.0
1.0
0.0
08/23/1951
08/23/1954
08/23/1957
08/23/1960
08/23/1963
08/23/1966
08/23/1969
08/23/1972
08/23/1975
08/23/1978
08/23/1981
08/23/1984
08/23/1987
08/23/1990
08/23/1993
08/23/1996
08/23/1999
Date

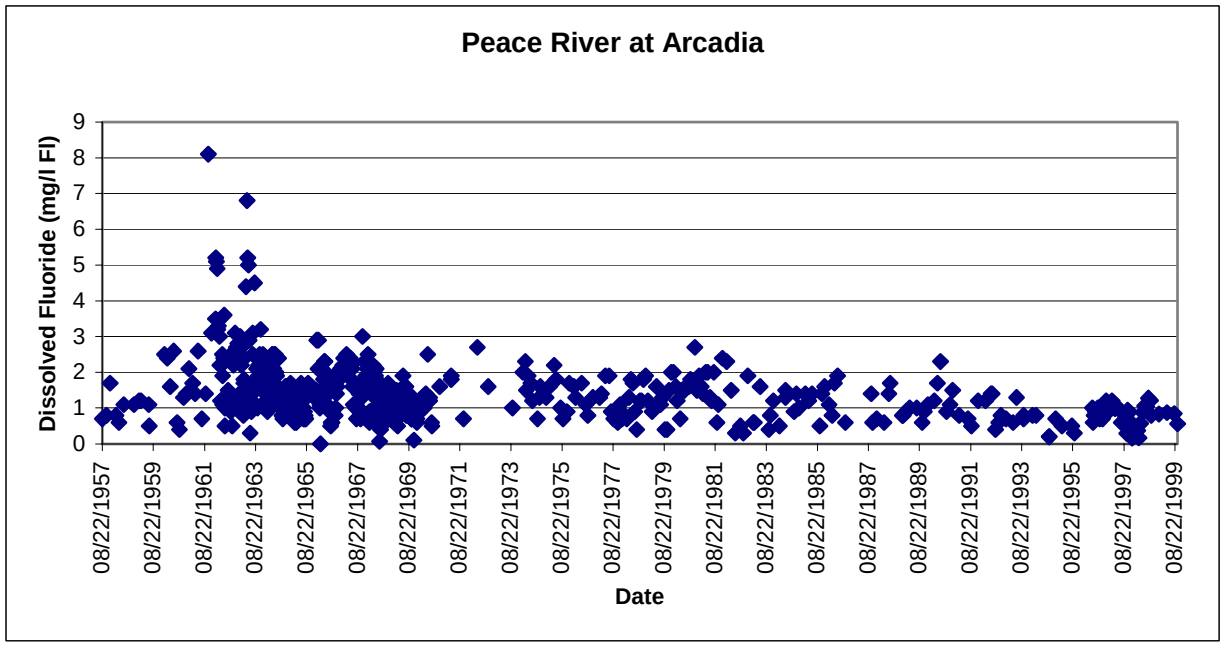

Peace River at Zolfo Springs
Total Phosphorus (mg/l P)
10
9
8
7
6
5
4
3
2
1
0
08/23/1951
08/23/1954
08/23/1957
08/23/1960
08/23/1963
08/23/1966
08/23/1969
08/23/1972
08/23/1975
08/23/1978
08/23/1981
08/23/1984
08/23/1987
08/23/1990
08/23/1993
08/23/1996
08/23/1999
Date

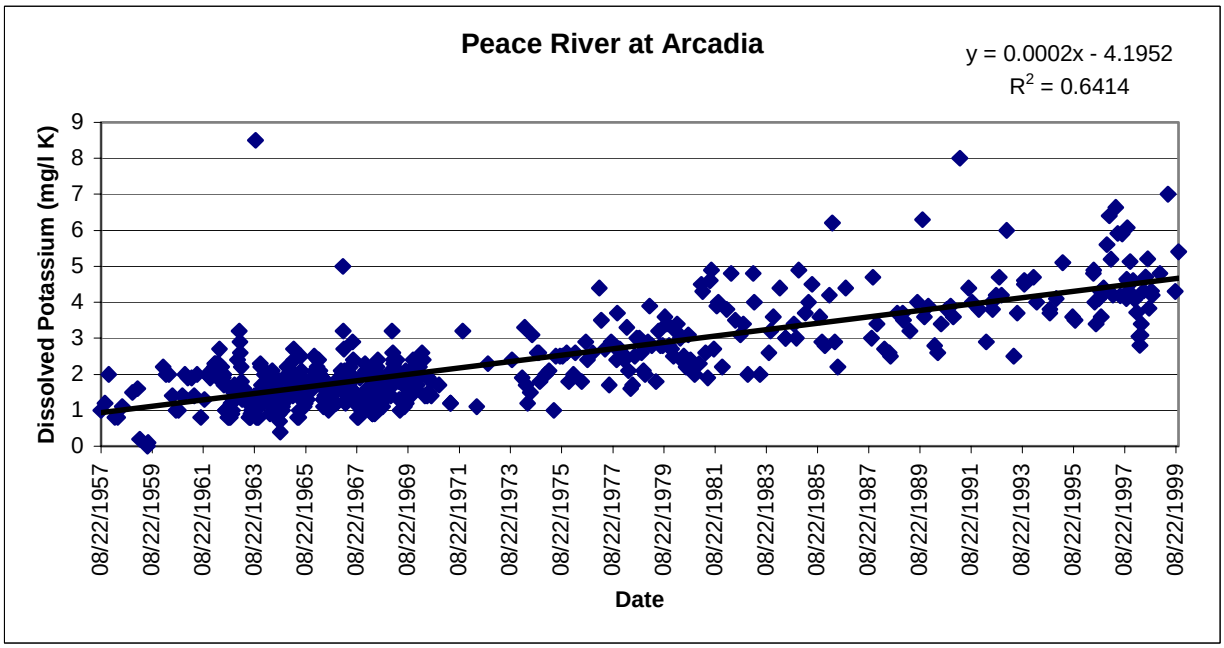

Peace River at Zolfo Springs
Dissolved Fluoride (mg/l Fl)
0
1
2
3
4
5
6
08/23/1951
08/23/1954
08/23/1957
08/23/1960
08/23/1963
08/23/1966
08/23/1969
08/23/1972
08/23/1975
08/23/1978
08/23/1981
08/23/1984
08/23/1987
08/23/1990
08/23/1993
08/23/1996
08/23/1999
Date

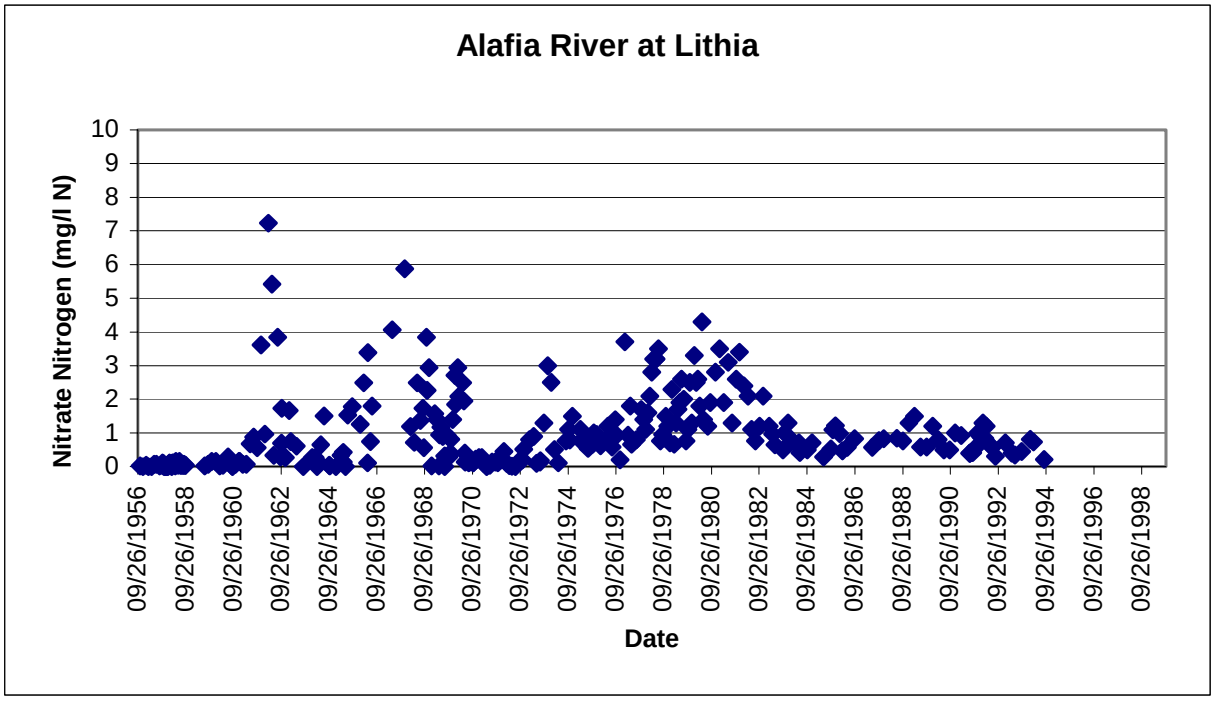

Peace River at Zolfo Springs
Dissolved Potassium (mg/l K)
0
1
2
3
4
5
y = 0.0002x - 2.7425
R2 = 0.5873
08/23/1951
08/23/1954
08/23/1957
08/23/1960
08/23/1963
08/23/1966
08/23/1969
08/23/1972
08/23/1975
08/23/1978
08/23/1981
08/23/1984
08/23/1987
08/23/1990
08/23/1993
08/23/1996
08/23/1999
Date

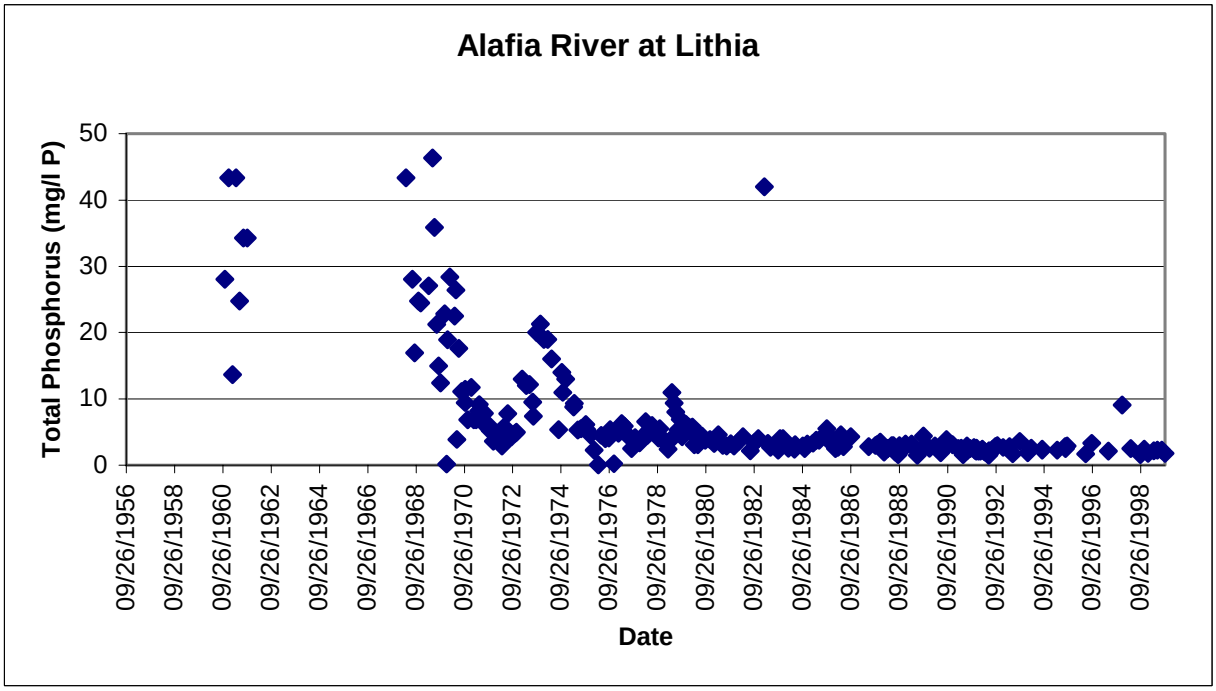

Peace River at Arcadia
Nitrate/Nitrite Nitrogen (mg/l N)
5.0
4.0
3.0
2.0
1.0
0.0
08/22/1957
08/22/1959
08/22/1961
08/22/1963
08/22/1965
08/22/1967
08/22/1969
08/22/1971
08/22/1973
08/22/1975
08/22/1977
08/22/1979
08/22/1981
08/22/1983
08/22/1985
08/22/1987
08/22/1989
08/22/1991
08/22/1993
08/22/1995
08/22/1997
08/22/1999
Date

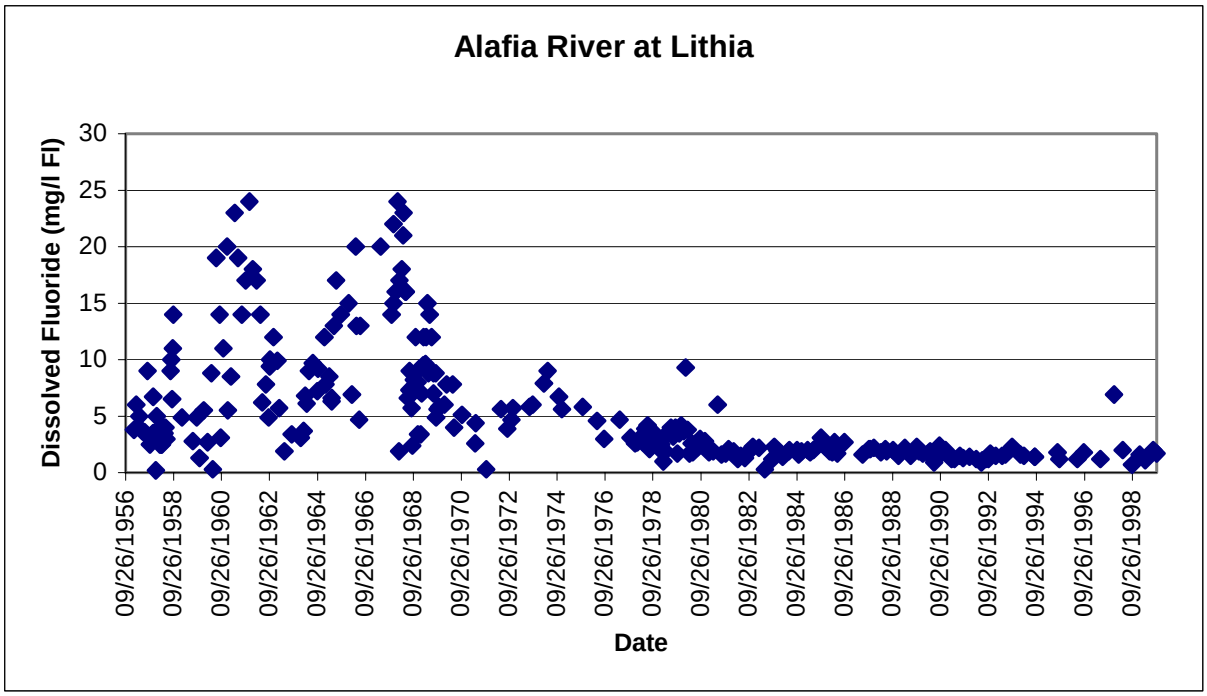

Peace River at Arcadia
Dissolved Phosphorus (mg/l P)
18
16
14
12
10
8
6
4
2
0
08/22/1957
08/22/1959
08/22/1961
08/22/1963
08/22/1965
08/22/1967
08/22/1969
08/22/1971
08/22/1973
08/22/1975
08/22/1977
08/22/1979
08/22/1981
08/22/1983
08/22/1985
08/22/1987
08/22/1989
08/22/1991
08/22/1993
08/22/1995
08/22/1997
08/22/1999
Date

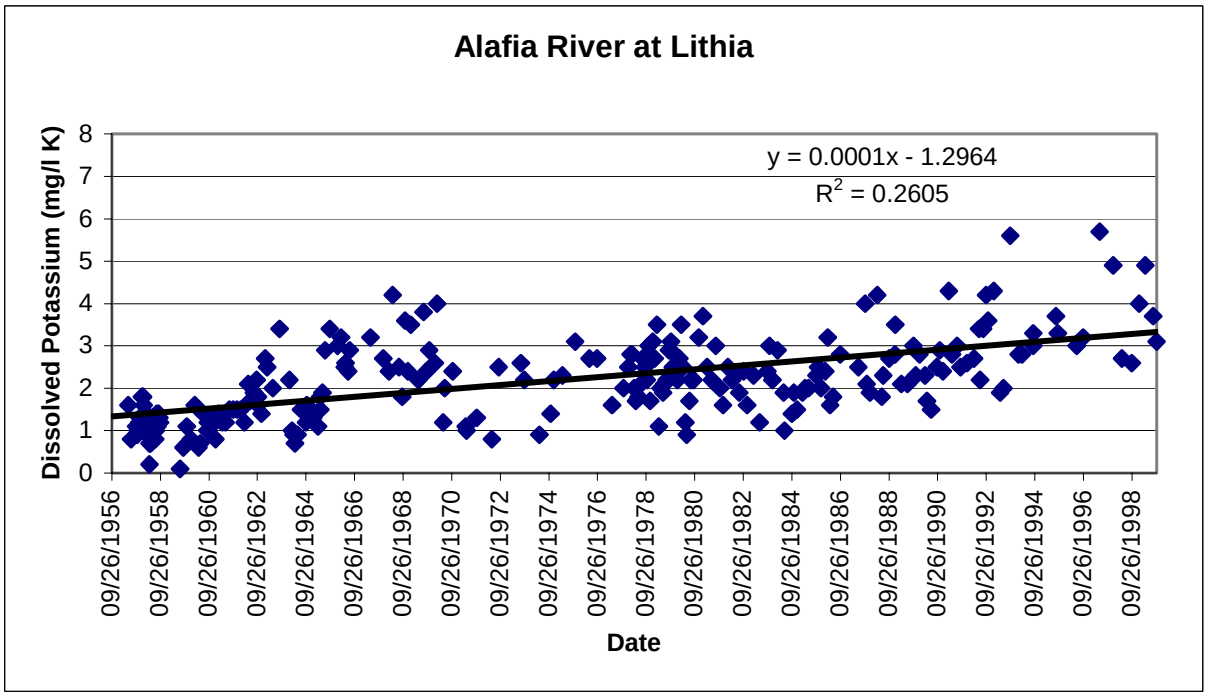

Peace River at Arcadia
Dissolved Fluoride (mg/l Fl)
0
1
2
3
4
5
6
7
8
9
08/22/1957
08/22/1959
08/22/1961
08/22/1963
08/22/1965
08/22/1967
08/22/1969
08/22/1971
08/22/1973
08/22/1975
08/22/1977
08/22/1979
08/22/1981
08/22/1983
08/22/1985
08/22/1987
08/22/1989
08/22/1991
08/22/1993
08/22/1995
08/22/1997
08/22/1999
Date

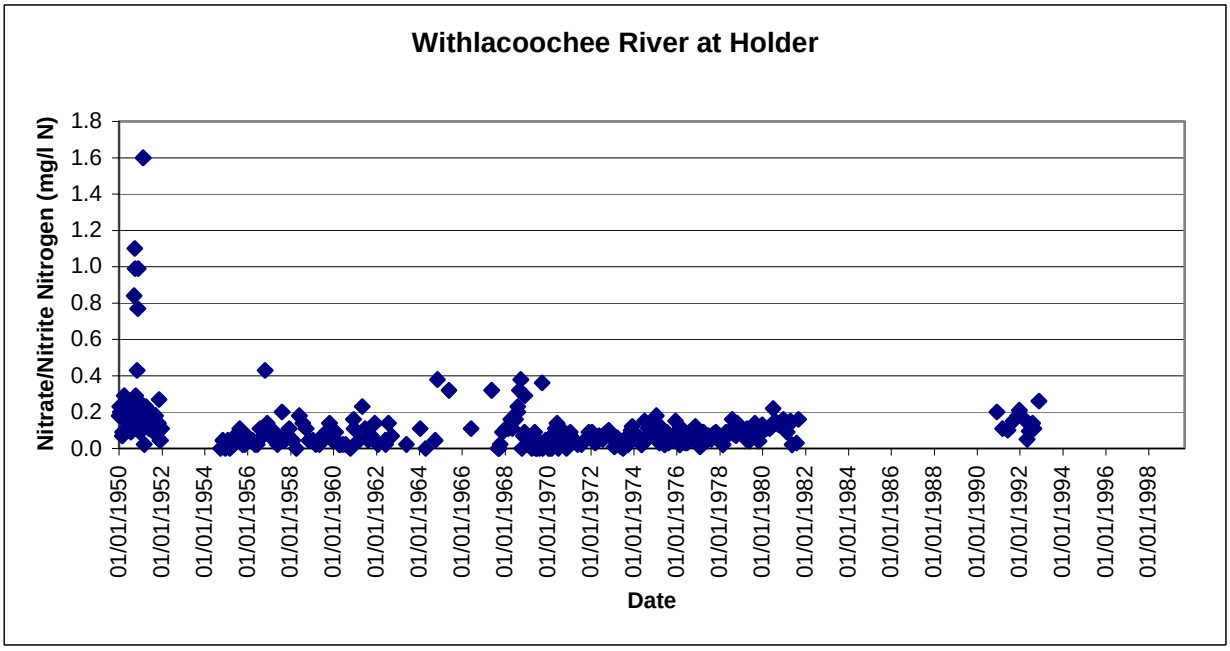

Peace River at Arcadia
y = 0.0002x - 4.1952
R2 = 0.6414
Dissolved Potassium (mg/l K)
0
1
2
3
4
5
6
7
8
9
08/22/1957
08/22/1959
08/22/1961
08/22/1963
08/22/1965
08/22/1967
08/22/1969
08/22/1971
08/22/1973
08/22/1975
08/22/1977
08/22/1979
08/22/1981
08/22/1983
08/22/1985
08/22/1987
08/22/1989
08/22/1991
08/22/1993
08/22/1995
08/22/1997
08/22/1999
Date

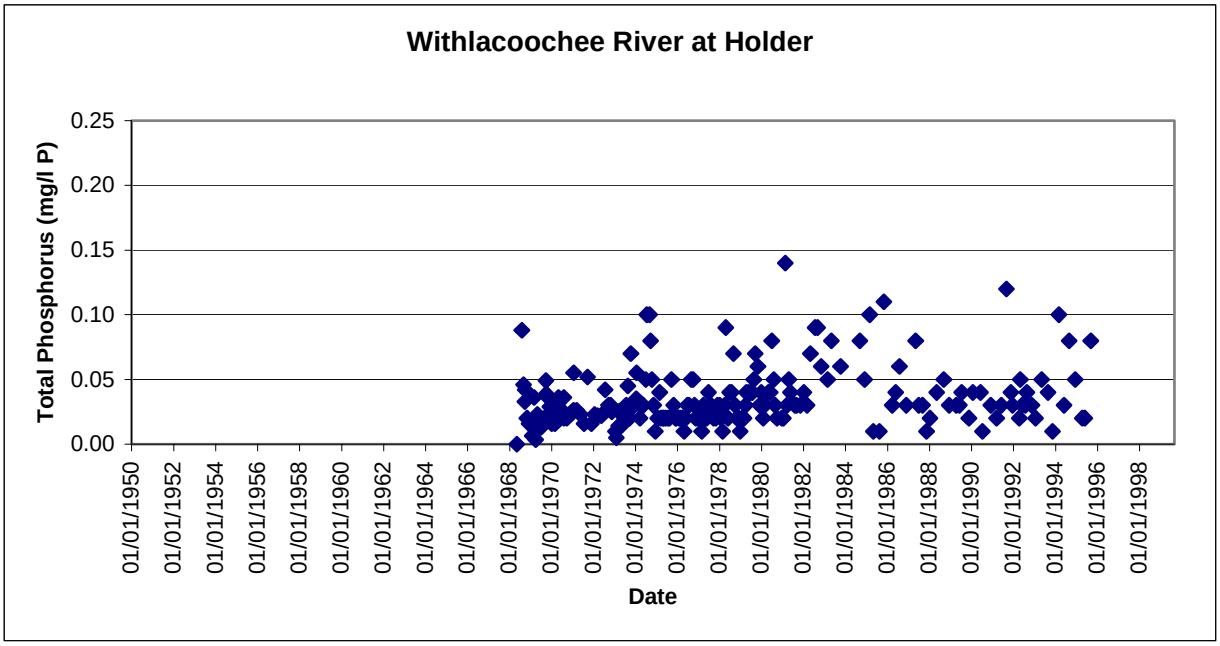

Alafia River at Lithia
Nitrate Nitrogen (mg/l N)
10
9
8
7
6
5
4
3
2
1
0
09/26/1956
09/26/1958
09/26/1960
09/26/1962
09/26/1964
09/26/1966
09/26/1968
09/26/1970
09/26/1972
09/26/1974
09/26/1976
09/26/1978
09/26/1980
09/26/1982
09/26/1984
09/26/1986
09/26/1988
09/26/1990
09/26/1992
09/26/1994
09/26/1996
09/26/1998
Date

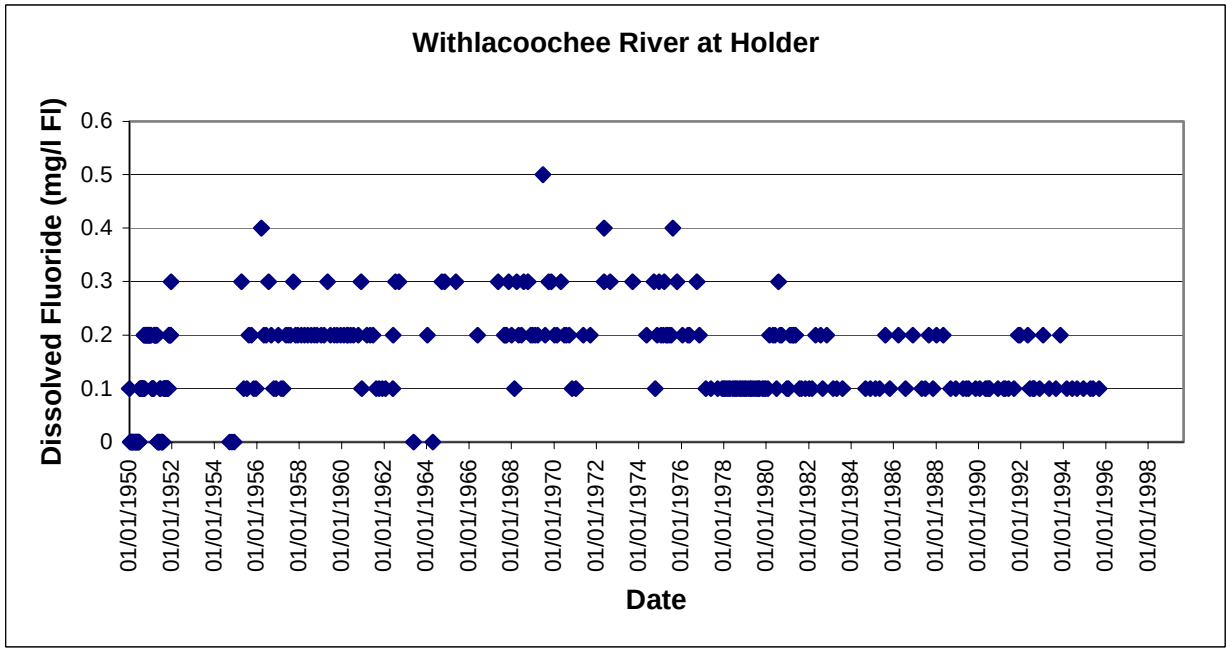

Alafia River at Lithia
Total Phosphorus (mg/l P)
50
40
30
20
10
0
09/26/1956
09/26/1958
09/26/1960
09/26/1962
09/26/1964
09/26/1966
09/26/1968
09/26/1970
09/26/1972
09/26/1974
09/26/1976
09/26/1978
09/26/1980
09/26/1982
09/26/1984
09/26/1986
09/26/1988
09/26/1990
09/26/1992
09/26/1994
09/26/1996
09/26/1998
Date

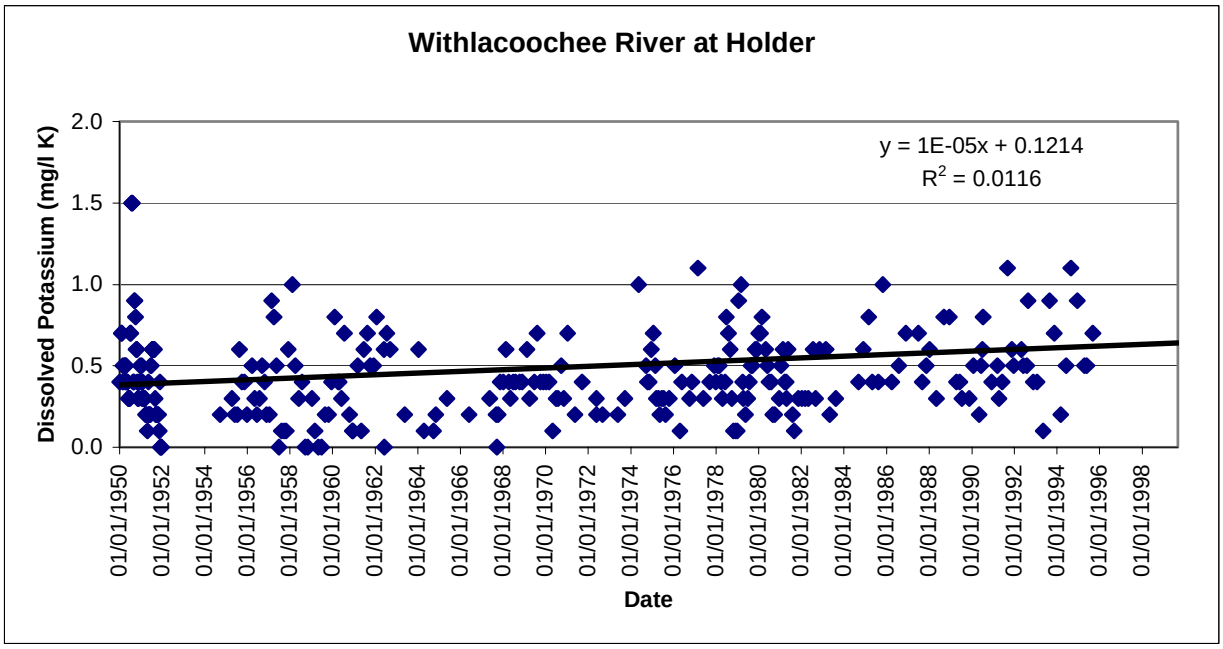

Alafia River at Lithia
Dissolved Fluoride (mg/l Fl)
30
25
20
15
10
5
0
09/26/1956
09/26/1958
09/26/1960
09/26/1962
09/26/1964
09/26/1966
09/26/1968
09/26/1970
09/26/1972
09/26/1974
09/26/1976
09/26/1978
09/26/1980
09/26/1982
09/26/1984
09/26/1986
09/26/1988
09/26/1990
09/26/1992
09/26/1994
09/26/1996
09/26/1998
Date


Alafia River at Lithia
Dissolved Potassium (mg/l K)
y = 0.0001x - 1.2964
R2 = 0.2605
8
7
6
5
4
3
2
1
0
09/26/1956
09/26/1958
09/26/1960
09/26/1962
09/26/1964
09/26/1966
09/26/1968
09/26/1970
09/26/1972
09/26/1974
09/26/1976
09/26/1978
09/26/1980
09/26/1982
09/26/1984
09/26/1986
09/26/1988
09/26/1990
09/26/1992
09/26/1994
09/26/1996
09/26/1998
Date


Withlacoochee River at Holder
Nitrate/Nitrite Nitrogen (mg/l N)
1.8
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
01/01/1950
01/01/1952
01/01/1954
01/01/1956
01/01/1958
01/01/1960
01/01/1962
01/01/1964
01/01/1966
01/01/1968
01/01/1970
01/01/1972
01/01/1974
01/01/1976
01/01/1978
01/01/1980
01/01/1982
01/01/1984
01/01/1986
01/01/1988
01/01/1990
01/01/1992
01/01/1994
01/01/1996
01/01/1998
Date


Withlacoochee River at Holder
Total Phosphorus (mg/l P)
0.25
0.20
0.15
0.10
0.05
0.00
01/01/1950
01/01/1952
01/01/1954
01/01/1956
01/01/1958
01/01/1960
01/01/1962
01/01/1964
01/01/1966
01/01/1968
01/01/1970
01/01/1972
01/01/1974
01/01/1976
01/01/1978
01/01/1980
01/01/1982
01/01/1984
01/01/1986
01/01/1988
01/01/1990
01/01/1992
01/01/1994
01/01/1996
01/01/1998
Date


Withlacoochee River at Holder
Dissolved Fluoride (mg/l Fl)
0.6
0.5
0.4
0.3
0.2
0.1
0
01/01/1950
01/01/1952
01/01/1954
01/01/1956
01/01/1958
01/01/1960
01/01/1962
01/01/1964
01/01/1966
01/01/1968
01/01/1970
01/01/1972
01/01/1974
01/01/1976
01/01/1978
01/01/1980
01/01/1982
01/01/1984
01/01/1986
01/01/1988
01/01/1990
01/01/1992
01/01/1994
01/01/1996
01/01/1998
Date


Withlacoochee River at Holder
Dissolved Potassium (mg/l K)
y = 1E-05x + 0.1214
R2 = 0.0116
2.0
1.5
1.0
0.5
0.0
01/01/1950
01/01/1952
01/01/1954
01/01/1956
01/01/1958
01/01/1960
01/01/1962
01/01/1964
01/01/1966
01/01/1968
01/01/1970
01/01/1972
01/01/1974
01/01/1976
01/01/1978
01/01/1980
01/01/1982
01/01/1984
01/01/1986
01/01/1988
01/01/1990
01/01/1992
01/01/1994
01/01/1996
01/01/1998
Date

Correlation Matrix for Peace River at Bartow

	Discharge	Conductance	Fluoride	Nitrate/Nitrite	Dissolved Oxygen	pH-field	Phosphrous
Conductance	-0.445						
	0.000						
Fluoride	-0.200	0.724					
	0.048	0.000					
Nitrate/Nitrite	-0.050	0.267	0.262				
	0.488	0.000	0.025				
Dissolved Oxygen	-0.048	0.174	0.135	0.341			
	0.522	0.019	0.277	0.000			
pH -field	-0.015	0.047	-0.081	-0.108	0.321		
	0.834	0.509	0.431	0.169	0.000		
Phosphorus	-0.295	0.657	0.796	0.226	0.137	-0.094	
	0.000	0.000	0.000	0.004	0.096	0.264	
Dissolved Potassium	-0.255	-0.051	-0.332	-0.224	-0.216	-0.017	-0.069
	0.012	0.623	0.001	0.057	0.076	0.867	0.636

Correlation Matrix for Peace River at Ft. Meade

	Discharge	Conductance	Fluoride	Nitrate/Nitrite	Dissolved Oxygen	pH-field	Phosphrous
Conductance	-0.589						
	0.000						
Fluoride	-0.554	0.449					
	0.040	0.021					
Nitrate/Nitrite	-0.243	0.267	0.356				
	0.020	0.007	0.113				
Dissolved Oxygen	-0.189	0.132	-0.492	-0.072			
	0.019	0.091	0.178	0.510			
pH -field	-0.076	0.162	0.312	0.065	-0.031		
	0.388	0.046	0.113	0.512	0.727		
Phosphorus	-0.069	-0.054	0.601	0.209	-0.079	-0.010	
	0.507	0.580	0.001	0.033	0.459	0.922	
Dissolved Potassium	0.407	-0.257	-0.241	0.226	-0.243	0.258	-0.227
	0.189	0.248	0.269	0.326	0.528	0.235	0.322

Correlation Matrix for Peace River at Zolfo Springs

	Discharge	Conductance	Fluoride	Nitrate/Nitrite	Dissolved Oxygen	pH-field	Phosphrous
Conductance	-0.624						
	0.000						
Fluoride	-0.399	0.508					
	0.000	0.000					
Nitrate/Nitrite	-0.325	0.371	-0.089				
	0.000	0.000	0.476				
Dissolved Oxygen	-0.322	0.345	0.366	0.104			
	0.000	0.000	0.030	0.207			
pH -field	-0.222	0.240	0.043	-0.025	0.188		
	0.001	0.000	0.697	0.738	0.020		
Phosphorus	-0.189	0.198	0.647	0.089	0.000	0.018	
	0.004	0.004	0.000	0.191	1.000	0.191	
Dissolved Potassium	0.105	-0.139	-0.486	0.269	-0.048	0.138	-0.259
	0.392	0.262	0.000	0.051	0.791	0.272	0.072

Correlation Matrix for Peace River at Arcadia

	Discharge	Conductance	Fluoride	Nitrate/Nitrite	Dissolved Oxygen	pH-field	Phosphrous
Conductance	-0.662						
	0.000						
Fluoride	-0.438	0.483					
	0.000	0.000					
Nitrate/Nitrite	-0.363	0.324	0.272				
	0.000	0.001	0.009				
Dissolved Oxygen	-0.351	0.436	0.357	0.226			
	0.000	0.000	0.000	0.025			
pH -field	-0.368	0.415	0.221	0.132	0.423		
	0.000	0.000	0.000	0.175	0.000		
Phosphorus	-0.325	0.533	0.767	0.299	0.283	0.247	
	0.000	0.000	0.000	0.001	0.000	0.001	
Dissolved Potassium	-0.014	0.182	-0.058	0.038	0.182	0.038	-0.554
	0.752	0.000	0.452	0.384	0.000	0.384	0.000

Correlation Matrix for Alafia at Lithia

	Discharge	Fluoride	Nitrate/Nitrite	Dissolved Oxygen	pH-field	Phosphrous
Fluoride	-0.086 0.151					
Nitrate/Nitrite	0.066 0.601	0.071 0.288				
Dissolved Oxygen	-0.115 0.064	0.834 0.000	0.162 0.012			
pH -field	-0.173 0.002	-0.656 0.000	-0.062 0.324	-0.659 0.000		
Phosphorus	-0.080 0.231	0.921 0.000	-0.080 0.231	0.981 0.000	-0.641 0.000	
Dissolved Potassium	-0.057 0.371	-0.047 0.469	0.132 0.055	-0.081 0.254	0.119 0.065	-0.216 0.009

Correlation Matrix for Withlacoochee at Holder

	Discharge	Conductance	Fluoride	Nitrate/Nitrite	Dissolved Oxygen	pH-field	Phosphrous
Conductance	-0.583 0.000						
Fluoride	0.192 0.001	-0.150 0.011					
Nitrate/Nitrite	0.182 0.001	-0.079 0.162	-0.046 0.476				
Dissolved Oxygen	-0.459 0.000	0.245 0.001	0.098 0.281	0.057 0.537			
pH -field	-0.350 0.000	0.319 0.000	-0.079 0.185	-0.102 0.080	0.300 0.000		
Phosphorus	0.137 0.104	0.114 0.202	-0.088 0.367	-0.082 0.433	0.122 0.221	0.122 0.221	
Dissolved Potassium	0.037 0.527	0.086 0.149	-0.072 0.219	0.020 0.756	-0.168 0.064	0.058 0.333	-0.008 0.938