

Nueces BBEST Preliminary HEFR Outputs

August 9, 2011

Overbank Events	Qp: 2,220 cfs with Average Frequency 1 per year Regressed Volume is 8,106 to 41,594 (18,362) Regressed Duration is 7 to 46 (18)											
	Qp: 587 cfs with Average Frequency 2 per year Regressed Volume is 2,209 to 11,315 (4,999) Regressed Duration is 4 to 26 (10)											
High Flow Pulses	Qp: 393 cfs with Average Frequency 1 per season Regressed Volume is 1,570 to 6,070 (3,087) Regressed Duration is 4 to 17 (8)						Qp: 171 cfs with Average Frequency 1 per season Regressed Volume is 599 to 3,099 (1,362) Regressed Duration is 2 to 14 (6)					
	Qp: 99 cfs with Average Frequency 2 per season Regressed Volume is 401 to 1,556 (790) Regressed Duration is 2 to 9 (4)											
Base Flows (cfs)	94 (42.5%)			86 (47.1%)			76 (41.5%)			97 (48.9%)		
	69 (61.2%)			63 (64.9%)			48 (56.8%)			62 (64.4%)		
	51 (78.9%)			44 (81.5%)			32 (71.2%)			41 (78.1%)		
Subsistence Flows (cfs)	14 (98.1%)			18 (99.0%)			16 (92.5%)			13 (95.7%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1924 to 12/31/2009.

Overbank Events	Qp: 1,910 cfs with Average Frequency 1 per year Regressed Volume is 6,177 to 30,907 (13,818) Regressed Duration is 6 to 35 (15)											
	Qp: 480 cfs with Average Frequency 2 per year Regressed Volume is 1,627 to 8,112 (3,632) Regressed Duration is 4 to 20 (8)											
High Flow Pulses	Qp: 358 cfs with Average Frequency 1 per season Regressed Volume is 1,298 to 5,182 (2,594) Regressed Duration is 3 to 15 (7)						Qp: 145 cfs with Average Frequency 1 per season Regressed Volume is 471 to 2,055 (983) Regressed Duration is 2 to 11 (5)					
	Qp: 105 cfs with Average Frequency 2 per season Regressed Volume is 399 to 1,597 (798) Regressed Duration is 2 to 9 (4)											
Base Flows (cfs)	86 (36.5%)			80 (42.3%)			66 (37.1%)			87 (43.5%)		
	61 (56.9%)			59 (61.3%)			40 (54.7%)			46 (59.8%)		
	40 (76.5%)			37 (80.2%)			26 (70.1%)			32 (74.0%)		
Subsistence Flows (cfs)	9.6 (97.3%)			15 (99.3%)			13 (93.4%)			8.5 (94.9%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1924 to 12/31/1969.

NRL19241969

Overbank Events	Qp: 2,730 cfs with Average Frequency 1 per year Regressed Volume is 11,234 to 58,161 (25,562) Regressed Duration is 9 to 61 (24)											
	Qp: 838 cfs with Average Frequency 2 per year Regressed Volume is 3,558 to 18,353 (8,081) Regressed Duration is 5 to 36 (14)											
High Flow Pulses	Qp: 404 cfs with Average Frequency 1 per season Regressed Volume is 1,824 to 6,747 (3,508) Regressed Duration is 4 to 19 (9)			Qp: 311 cfs with Average Frequency 1 per season Regressed Volume is 1,209 to 7,131 (2,936) Regressed Duration is 3 to 22 (8)			Qp: 88 cfs with Average Frequency 1 per season Regressed Volume is 409 to 2,037 (913) Regressed Duration is 2 to 14 (5)					
	Qp: 90 cfs with Average Frequency 2 per season Regressed Volume is 401 to 1,496 (775) Regressed Duration is 2 to 10 (4)											
Base Flows (cfs)	100 (51.2%)			94 (52.2%)			92 (44.8%)			104 (55.2%)		
	77 (68.0%)			69 (68.4%)			64 (57.5%)			75 (69.5%)		
	62 (84.7%)			54 (82.9%)			45 (69.3%)			52 (83.4%)		
Subsistence Flows (cfs)	N/A			28 (98.8%)			22 (90.5%)			29 (97.8%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

NRL19702009

Overbank Events	Qp: 1,020 cfs with Average Frequency 1 per year Regressed Volume is 2,492 to 9,265 (4,805) Regressed Duration is 6 to 31 (13)											
	Qp: 25 cfs with Average Frequency 2 per year Regressed Volume is 97 to 360 (187) Regressed Duration is 3 to 16 (7)											
High Flow Pulses	Qp: 5 cfs with Average Frequency 1 per season Regressed Volume is 19 to 76 (38) Regressed Duration is 2 to 10 (5)						Qp: 5 cfs with Average Frequency 1 per season Regressed Volume is 24 to 84 (45) Regressed Duration is 2 to 13 (5)					
Base Flows (cfs)	1.5 (18.6%)			1.2 (24.9%)			1.7 (28.8%)			1.6 (32.7%)		
	0.49 (31.6%)			0.51 (35.4%)			0.57 (38.0%)			0.48 (44.6%)		
	0.15 (45.2%)			0.2 (46.2%)			0.15 (47.4%)			0.16 (56.6%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1946 to 12/31/2009.

WNRB19462009_LT3UT0.9MM1.25

Overbank Events	Qp: 585 cfs with Average Frequency 1 per year Regressed Volume is 1,612 to 4,907 (2,813) Regressed Duration is 4 to 26 (11)
High Flow Pulses	Qp: 8 cfs with Average Frequency 2 per year Regressed Volume is 43 to 133 (76) Regressed Duration is 3 to 16 (6)

Base Flows (cfs)	2.6 (5.7%)	1.5 (11.6%)	2.4 (15.9%)	3 (21.2%)							
	1.2 (7.9%)	0.7 (15.9%)	1.1 (18.2%)	1.3 (26.0%)							
	0.4 (10.3%)	0.3 (20.2%)	0.4 (20.9%)	0.4 (30.9%)							
Subsistence Flows (cfs)	0 (100.0%)	0 (100.0%)	0 (100.0%)	0 (100.0%)							
Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
Winter				Spring			Summer			Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:
 1. Period of Record used : 1/1/1946 to 12/31/1969.

WNRB19461969_LT3UT0.9MM1.25

Overbank Events	Qp: 1,480 cfs with Average Frequency 1 per year Regressed Volume is 3,454 to 13,796 (6,903) Regressed Duration is 7 to 36 (16)											
	Qp: 80 cfs with Average Frequency 2 per year Regressed Volume is 260 to 1,036 (520) Regressed Duration is 4 to 20 (9)											
High Flow Pulses	Qp: 8 cfs with Average Frequency 1 per season Regressed Volume is 28 to 117 (58) Regressed Duration is 2 to 11 (5)						Qp: 6 cfs with Average Frequency 1 per season Regressed Volume is 27 to 110 (55) Regressed Duration is 2 to 13 (6)					
Base Flows (cfs)	1.3 (27.1%)			1.2 (32.1%)			1.6 (36.4%)			1.3 (39.6%)		
	0.46 (45.5%)			0.5 (47.1%)			0.48 (49.9%)			0.4 (56.4%)		
	0.15 (65.6%)			0.19 (61.8%)			0.14 (63.3%)			0.15 (73.4%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

WNRB19702009_LT3UT0.9MM1.25

Overbank Events	Qp: 2,550 cfs with Average Frequency 1 per year Regressed Volume is 8,237 to 46,290 (19,527) Regressed Duration is 7 to 49 (18)											
	Qp: 512 cfs with Average Frequency 2 per year Regressed Volume is 1,469 to 8,235 (3,478) Regressed Duration is 4 to 26 (10)											
High Flow Pulses	Qp: 13 cfs with Average Frequency 1 per season Regressed Volume is 24 to 252 (77) Regressed Duration is 1 to 9 (3)			Qp: 110 cfs with Average Frequency 1 per season Regressed Volume is 303 to 1,276 (622) Regressed Duration is 2 to 11 (5)			Qp: 15 cfs with Average Frequency 1 per season Regressed Volume is 37 to 142 (72) Regressed Duration is 1 to 5 (2)			Qp: 50 cfs with Average Frequency 1 per season Regressed Volume is 116 to 686 (282) Regressed Duration is 1 to 11 (4)		
	Qp: 20 cfs with Average Frequency 2 per season Regressed Volume is 47 to 201 (98) Regressed Duration is 1 to 6 (3)											
Base Flows (cfs)	35 (44.7%)			38 (41.1%)			32 (43.4%)			37 (45.0%)		
	22 (60.7%)			20 (59.3%)			17 (59.7%)			19 (62.0%)		
	12 (77.6%)			12 (77.3%)			8.8 (76.5%)			9.3 (78.6%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1940 to 12/31/2009.

NRU19402009

Overbank Events	Qp: 1,730 cfs with Average Frequency 1 per year Regressed Volume is 4,662 to 19,745 (9,594) Regressed Duration is 5 to 26 (12)																																		
	Qp: 139 cfs with Average Frequency 2 per year Regressed Volume is 338 to 1,423 (694) Regressed Duration is 2 to 11 (5)																																		
High Flow Pulses	Qp: 64 cfs with Average Frequency 1 per season Regressed Volume is 152 to 554 (290) Regressed Duration is 2 to 7 (3)				Qp: 47 cfs with Average Frequency 1 per season Regressed Volume is 103 to 411 (205) Regressed Duration is 1 to 8 (3)				Qp: 24 cfs with Average Frequency 2 per season Regressed Volume is 55 to 202 (106) Regressed Duration is 1 to 5 (3)																										
	Base Flows (cfs)			22 (32.5%) 14 (50.4%) 7.2 (67.1%)			26 (29.0%) 14 (53.6%) 9.1 (67.4%)			23 (32.5%) 12 (52.5%) 7 (68.5%)			24 (37.9%) 13 (58.4%) 7.1 (72.2%)																						
Subsistence Flows (cfs)			0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)																							
Nov			Dec			Jan			Feb			Mar			Apr			May			Jun			Jul			Aug			Sep			Oct		
Winter						Spring						Summer						Fall																	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1940 to 12/31/1969.

NRU19401969

Overbank Events	Qp: 3,470 cfs with Average Frequency 1 per year Regressed Volume is 12,432 to 81,088 (31,751) Regressed Duration is 8 to 73 (25)																						
	Qp: 825 cfs with Average Frequency 2 per year Regressed Volume is 2,697 to 17,519 (6,874) Regressed Duration is 5 to 40 (14)																						
High Flow Pulses	Qp: 14 cfs with Average Frequency 1 per season Regressed Volume is 27 to 365 (98) Regressed Duration is 1 to 10 (3)			Qp: 234 cfs with Average Frequency 1 per season Regressed Volume is 838 to 3,676 (1,755) Regressed Duration is 3 to 20 (8)			Qp: 42 cfs with Average Frequency 1 per season Regressed Volume is 111 to 456 (224) Regressed Duration is 1 to 8 (3)			Qp: 51 cfs with Average Frequency 1 per season Regressed Volume is 133 to 980 (361) Regressed Duration is 1 to 13 (4)													
	Base Flows (cfs)																						
	41 (54.7%)			48 (48.4%)			42 (47.4%)			48 (49.6%)													
	28 (70.0%)			29 (64.9%)			29 (61.4%)			30 (64.4%)													
21 (83.7%)			18 (80.7%)			17 (75.1%)			19 (77.0%)														
Subsistence Flows (cfs)																							
8.3 (98.8%)			6.4 (97.4%)			3.7 (94.0%)			5.2 (95.6%)														
Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct	
Winter						Spring						Summer				Fall							

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

NRU19702009

Overbank Events	Qp: 4,460 cfs with Average Frequency 1 per year Regressed Volume is 22,779 to 73,993 (41,055) Regressed Duration is 8 to 34 (17)											
	Qp: 1,560 cfs with Average Frequency 2 per year Regressed Volume is 7,439 to 24,155 (13,405) Regressed Duration is 7 to 28 (14)											
High Flow Pulses	Qp: 96 cfs with Average Frequency 1 per season Regressed Volume is 438 to 1,572 (830) Regressed Duration is 5 to 20 (10)				Qp: 1,180 cfs with Average Frequency 1 per season Regressed Volume is 5,654 to 17,154 (9,848) Regressed Duration is 7 to 24 (13)				Qp: 103 cfs with Average Frequency 1 per season Regressed Volume is 376 to 1,027 (622) Regressed Duration is 4 to 16 (8)		Qp: 644 cfs with Average Frequency 1 per season Regressed Volume is 2,952 to 8,609 (5,041) Regressed Duration is 6 to 26 (12)	
	Qp: 8 cfs with Average Frequency 2 per season Regressed Volume is 29 to 104 (55) Regressed Duration is 3 to 13 (6)				Qp: 192 cfs with Average Frequency 2 per season Regressed Volume is 782 to 2,370 (1,361) Regressed Duration is 5 to 17 (9)						Qp: 35 cfs with Average Frequency 2 per season Regressed Volume is 123 to 358 (210) Regressed Duration is 3 to 14 (7)	
	Qp: 1 cfs with Average Frequency 3 per season Regressed Volume is 2 to 8 (4) Regressed Duration is 2 to 9 (4)				Qp: 15 cfs with Average Frequency 3 per season Regressed Volume is 49 to 147 (85) Regressed Duration is 3 to 11 (6)							
	Qp: 0 cfs with Average Frequency 4 per season Regressed Volume is 0 to 1 (0) Regressed Duration is 1 to 6 (3)											
	Qp: 0 cfs with Average Frequency 4 per season Regressed Volume is 0 to 1 (0) Regressed Duration is 1 to 6 (3)											
Base Flows (cfs)	38 (29.9%)				30 (36.4%)				32 (30.5%)		42 (38.7%)	
	6.2 (39.6%)				10 (44.2%)				6.9 (37.3%)		15 (46.7%)	
	0.33 (52.2%)				1.3 (53.3%)				0.49 (43.5%)		1.3 (56.2%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1927 to 12/31/2009.

Overbank Events	Qp: 4,920 cfs with Average Frequency 1 per year Regressed Volume is 22,911 to 66,626 (39,070) Regressed Duration is 8 to 29 (15)											
	Qp: 2,090 cfs with Average Frequency 2 per year Regressed Volume is 9,277 to 26,964 (15,816) Regressed Duration is 7 to 25 (13)											
High Flow Pulses	Qp: 116 cfs with Average Frequency 1 per season Regressed Volume is 454 to 1,519 (831) Regressed Duration is 5 to 17 (9)				Qp: 1,620 cfs with Average Frequency 1 per season Regressed Volume is 7,210 to 19,696 (11,917) Regressed Duration is 6 to 21 (12)				Qp: 117 cfs with Average Frequency 1 per season Regressed Volume is 445 to 1,034 (679) Regressed Duration is 4 to 14 (7)		Qp: 1,090 cfs with Average Frequency 1 per season Regressed Volume is 5,037 to 13,096 (8,122) Regressed Duration is 6 to 25 (13)	
	Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 39 to 129 (71) Regressed Duration is 3 to 12 (6)				Qp: 420 cfs with Average Frequency 2 per season Regressed Volume is 1,674 to 4,566 (2,765) Regressed Duration is 5 to 17 (9)				Qp: 0 cfs with Average Frequency 2 per season Regressed Volume is 1 to 2 (2) Regressed Duration is 1 to 5 (2)		Qp: 110 cfs with Average Frequency 2 per season Regressed Volume is 417 to 1,083 (672) Regressed Duration is 4 to 16 (8)	
	Qp: 1 cfs with Average Frequency 3 per season Regressed Volume is 4 to 13 (7) Regressed Duration is 2 to 8 (4)				Qp: 89 cfs with Average Frequency 3 per season Regressed Volume is 312 to 851 (516) Regressed Duration is 4 to 12 (7)							
	Qp: 0 cfs with Average Frequency 4 per season Regressed Volume is 1 to 4 (2) Regressed Duration is 2 to 7 (4)				Qp: 2 cfs with Average Frequency 4 per season Regressed Volume is 4 to 10 (6) Regressed Duration is 2 to 6 (3)							
Base Flows (cfs)	22 (21.5%)				18 (38.1%)				20 (27.8%)		12 (45.0%)	
	0.84 (34.7%)				4.4 (46.5%)				1.7 (36.8%)		1.5 (53.7%)	
	0.3 (46.6%)				0.6 (54.5%)				0.3 (42.3%)		0.3 (61.5%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter					Spring			Summer		Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1927 to 12/31/1969.

NRC19271969

Overbank Events	Qp: 2,970 cfs with Average Frequency 1 per year Regressed Volume is 17,696 to 62,855 (33,350) Regressed Duration is 9 to 40 (19)														
	Qp: 1,050 cfs with Average Frequency 2 per year Regressed Volume is 5,773 to 20,484 (10,875) Regressed Duration is 7 to 33 (15)														
	Qp: 88 cfs with Average Frequency 1 per season Regressed Volume is 520 to 1,892 (992) Regressed Duration is 5 to 26 (12)				Qp: 545 cfs with Average Frequency 1 per season Regressed Volume is 3,125 to 9,708 (5,508) Regressed Duration is 8 to 26 (14)				Qp: 53 cfs with Average Frequency 1 per season Regressed Volume is 152 to 551 (289) Regressed Duration is 2 to 15 (6)		Qp: 137 cfs with Average Frequency 1 per season Regressed Volume is 580 to 1,885 (1,046) Regressed Duration is 4 to 22 (10)				
	Qp: 6 cfs with Average Frequency 2 per season Regressed Volume is 29 to 106 (56) Regressed Duration is 3 to 16 (7)				Qp: 36 cfs with Average Frequency 2 per season Regressed Volume is 150 to 466 (265) Regressed Duration is 4 to 15 (8)				Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 35 to 115 (64) Regressed Duration is 2 to 13 (6)						
High Flow Pulses	Qp: 0 cfs with Average Frequency 3 per season Regressed Volume is 0 to 1 (1) Regressed Duration is 2 to 8 (4)				Qp: 0 cfs with Average Frequency 3 per season Regressed Volume is 1 to 2 (1) Regressed Duration is 2 to 6 (3)										
	Base Flows (cfs)			49 (39.2%)			35 (36.9%)			38 (34.7%)			56 (37.2%)		
	Subsistence Flows (cfs)			18 (48.4%)			18 (43.4%)			13 (40.8%)			35 (43.7%)		
			0.95 (58.5%)			2.5 (52.2%)			1.2 (46.3%)			14 (50.9%)			
			0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)			
Nov			Dec			Jan			Feb			Mar			
Apr			May			Jun			Jul			Aug			
Sep			Oct			Winter			Spring			Summer			
Fall															

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

NRC19702009

Overbank Events	Qp: 4,610 cfs with Average Frequency 1 per year Regressed Volume is 24,227 to 77,142 (43,231) Regressed Duration is 9 to 33 (17)											
	Qp: 1,640 cfs with Average Frequency 2 per year Regressed Volume is 7,964 to 25,348 (14,208) Regressed Duration is 7 to 27 (14)											
High Flow Pulses	Qp: 298 cfs with Average Frequency 1 per season Regressed Volume is 1,408 to 4,606 (2,547) Regressed Duration is 6 to 22 (12)				Qp: 881 cfs with Average Frequency 1 per season Regressed Volume is 4,285 to 12,219 (7,236) Regressed Duration is 6 to 22 (12)				Qp: 322 cfs with Average Frequency 1 per season Regressed Volume is 1,396 to 4,392 (2,476) Regressed Duration is 6 to 21 (11)		Qp: 836 cfs with Average Frequency 1 per season Regressed Volume is 3,877 to 10,884 (6,496) Regressed Duration is 6 to 23 (12)	
	Qp: 87 cfs with Average Frequency 2 per season Regressed Volume is 384 to 1,255 (694) Regressed Duration is 5 to 18 (9)				Qp: 279 cfs with Average Frequency 2 per season Regressed Volume is 1,180 to 3,362 (1,992) Regressed Duration is 5 to 18 (9)				Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 30 to 96 (54) Regressed Duration is 3 to 10 (5)		Qp: 218 cfs with Average Frequency 2 per season Regressed Volume is 851 to 2,386 (1,425) Regressed Duration is 4 to 16 (8)	
	Qp: 9 cfs with Average Frequency 3 per season Regressed Volume is 34 to 110 (61) Regressed Duration is 3 to 12 (6)				Qp: 89 cfs with Average Frequency 3 per season Regressed Volume is 327 to 933 (553) Regressed Duration is 4 to 14 (7)						Qp: 29 cfs with Average Frequency 3 per season Regressed Volume is 87 to 245 (146) Regressed Duration is 3 to 10 (5)	
	Qp: 1 cfs with Average Frequency 4 per season Regressed Volume is 3 to 10 (6) Regressed Duration is 2 to 8 (4)				Qp: 8 cfs with Average Frequency 4 per season Regressed Volume is 21 to 60 (35) Regressed Duration is 2 to 8 (5)							
Base Flows (cfs)	42 (34.3%)				25 (45.0%)				14 (40.1%)		42 (47.9%)	
	1.1 (55.8%)				3.3 (59.7%)				0.83 (56.1%)		12 (60.0%)	
	0.2 (74.4%)				0.1 (75.2%)				0.17 (64.4%)		0.34 (77.3%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1943 to 12/31/2009.

NRT19432009

Overbank Events	Qp: 5,840 cfs with Average Frequency 1 per year Regressed Volume is 27,516 to 82,095 (47,528) Regressed Duration is 8 to 29 (15)											
	Qp: 1,940 cfs with Average Frequency 2 per year Regressed Volume is 8,594 to 25,615 (14,837) Regressed Duration is 7 to 24 (13)											
High Flow Pulses	Qp: 276 cfs with Average Frequency 1 per season Regressed Volume is 1,033 to 3,212 (1,821) Regressed Duration is 6 to 19 (10)				Qp: 1,760 cfs with Average Frequency 1 per season Regressed Volume is 9,288 to 22,488 (14,452) Regressed Duration is 7 to 23 (13)				Qp: 340 cfs with Average Frequency 1 per season Regressed Volume is 1,411 to 3,993 (2,374) Regressed Duration is 6 to 20 (11)		Qp: 1,010 cfs with Average Frequency 1 per season Regressed Volume is 5,068 to 12,251 (7,879) Regressed Duration is 6 to 22 (12)	
	Qp: 108 cfs with Average Frequency 2 per season Regressed Volume is 402 to 1,250 (709) Regressed Duration is 5 to 16 (9)				Qp: 456 cfs with Average Frequency 2 per season Regressed Volume is 2,032 to 4,910 (3,159) Regressed Duration is 5 to 17 (10)				Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 26 to 74 (44) Regressed Duration is 2 to 8 (4)		Qp: 387 cfs with Average Frequency 2 per season Regressed Volume is 1,664 to 4,020 (2,587) Regressed Duration is 5 to 17 (9)	
	Qp: 29 cfs with Average Frequency 3 per season Regressed Volume is 107 to 333 (189) Regressed Duration is 4 to 14 (7)				Qp: 200 cfs with Average Frequency 3 per season Regressed Volume is 804 to 1,941 (1,249) Regressed Duration is 4 to 15 (8)				Qp: 93 cfs with Average Frequency 3 per season Regressed Volume is 318 to 768 (494) Regressed Duration is 4 to 12 (6)			
	Qp: 2 cfs with Average Frequency 4 per season Regressed Volume is 8 to 26 (15) Regressed Duration is 3 to 10 (5)				Qp: 55 cfs with Average Frequency 4 per season Regressed Volume is 188 to 454 (292) Regressed Duration is 3 to 11 (6)				Qp: 1 cfs with Average Frequency 4 per season Regressed Volume is 1 to 2 (1) Regressed Duration is 1 to 3 (2)			
Base Flows (cfs)	4 (32.5%)				12 (48.1%)				3.5 (40.3%)		28 (50.9%)	
	0.53 (51.7%)				0.28 (66.6%)				0.3 (54.1%)		6.6 (62.2%)	
	0.13 (69.5%)				0.1 (73.1%)				0.1 (60.0%)		0.2 (78.5%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter					Spring			Summer		Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1943 to 12/31/1969.

NRT19431969

Overbank Events	Qp: 4,510 cfs with Average Frequency 1 per year Regressed Volume is 26,605 to 88,191 (48,439) Regressed Duration is 9 to 37 (19)											
	Qp: 1,340 cfs with Average Frequency 2 per year Regressed Volume is 7,051 to 23,352 (12,832) Regressed Duration is 7 to 29 (15)											
High Flow Pulses	Qp: 304 cfs with Average Frequency 1 per season Regressed Volume is 1,816 to 5,810 (3,248) Regressed Duration is 7 to 25 (13)				Qp: 665 cfs with Average Frequency 1 per season Regressed Volume is 3,249 to 10,312 (5,788) Regressed Duration is 7 to 24 (12)				Qp: 294 cfs with Average Frequency 1 per season Regressed Volume is 1,340 to 4,374 (2,421) Regressed Duration is 5 to 22 (11)		Qp: 730 cfs with Average Frequency 1 per season Regressed Volume is 3,253 to 10,008 (5,705) Regressed Duration is 6 to 23 (12)	
	Qp: 70 cfs with Average Frequency 2 per season Regressed Volume is 362 to 1,156 (647) Regressed Duration is 5 to 19 (10)				Qp: 152 cfs with Average Frequency 2 per season Regressed Volume is 613 to 1,943 (1,092) Regressed Duration is 5 to 17 (9)				Qp: 9 cfs with Average Frequency 2 per season Regressed Volume is 28 to 93 (51) Regressed Duration is 3 to 11 (5)		Qp: 143 cfs with Average Frequency 2 per season Regressed Volume is 530 to 1,629 (929) Regressed Duration is 4 to 16 (8)	
	Qp: 3 cfs with Average Frequency 3 per season Regressed Volume is 11 to 36 (20) Regressed Duration is 3 to 10 (5)				Qp: 25 cfs with Average Frequency 3 per season Regressed Volume is 80 to 253 (142) Regressed Duration is 3 to 12 (6)						Qp: 8 cfs with Average Frequency 3 per season Regressed Volume is 22 to 68 (39) Regressed Duration is 2 to 9 (4)	
	Qp: 0 cfs with Average Frequency 4 per season Regressed Volume is 1 to 4 (2) Regressed Duration is 2 to 7 (4)				Qp: 0 cfs with Average Frequency 4 per season Regressed Volume is 1 to 3 (2) Regressed Duration is 1 to 5 (3)							
Base Flows (cfs)	53 (40.5%)				31 (45.1%)				22 (42.9%)		50 (47.2%)	
	2.6 (59.7%)				5.1 (58.8%)				1 (60.6%)		14 (60.0%)	
	0.25 (77.5%)				0.27 (73.5%)				0.26 (68.5%)		0.42 (77.3%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

NRT19702009

Overbank Events	Qp: 9,130 cfs with Average Frequency 1 per year Regressed Volume is 58,099 to 162,009 (97,018) Regressed Duration is 9 to 28 (16)											
	Qp: 5,420 cfs with Average Frequency 2 per year Regressed Volume is 31,662 to 88,266 (52,864) Regressed Duration is 8 to 24 (14)											
High Flow Pulses	Qp: 2,050 cfs with Average Frequency 1 per season Regressed Volume is 9,373 to 26,796 (15,848) Regressed Duration is 6 to 18 (10)			Qp: 4,090 cfs with Average Frequency 1 per season Regressed Volume is 23,932 to 64,594 (39,317) Regressed Duration is 7 to 22 (12)			Qp: 1,100 cfs with Average Frequency 1 per season Regressed Volume is 4,857 to 13,644 (8,141) Regressed Duration is 5 to 15 (8)			Qp: 2,420 cfs with Average Frequency 1 per season Regressed Volume is 12,885 to 34,214 (20,996) Regressed Duration is 6		
	Qp: 717 cfs with Average Frequency 2 per season Regressed Volume is 2,963 to 8,463 (5,008) Regressed Duration is 4 to 13 (8)			Qp: 1,660 cfs with Average Frequency 2 per season Regressed Volume is 8,227 to 22,190 (13,511) Regressed Duration is 5 to 16 (9)			Qp: 276 cfs with Average Frequency 2 per season Regressed Volume is 897 to 2,520 (1,504) Regressed Duration is 3 to 9 (5)			Qp: 706 cfs with Average Frequency 2 per season Regressed Volume is 2,985 to 7,922 (4,863) Regressed Duration is 4 to 13 (7)		
	Qp: 315 cfs with Average Frequency 3 per season Regressed Volume is 1,202 to 3,434 (2,032) Regressed Duration is 4 to 11 (6)			Qp: 689 cfs with Average Frequency 3 per season Regressed Volume is 2,904 to 7,830 (4,768) Regressed Duration is 4 to 12 (7)			Qp: 34 cfs with Average Frequency 3 per season Regressed Volume is 69 to 196 (116) Regressed Duration is 1 to 4 (2)			Qp: 158 cfs with Average Frequency 3 per season Regressed Volume is 505 to 1,340 (822) Regressed Duration is 2 to 8 (4)		
	Qp: 140 cfs with Average Frequency 4 per season Regressed Volume is 494 to 1,411 (835) Regressed Duration is 3 to 8 (5)			Qp: 323 cfs with Average Frequency 4 per season Regressed Volume is 1,183 to 3,192 (1,944) Regressed Duration is 3 to 10 (5)			Qp: 15 cfs with Average Frequency 4 per season Regressed Volume is 31 to 82 (50) Regressed Duration is 1 to 4 (2)					
Base Flows (cfs)	104 (38.9%)			83 (56.9%)			57 (51.4%)			68 (59.0%)		
	38 (61.3%)			36 (74.0%)			30 (65.9%)			37 (72.2%)		
	12 (81.9%)			10 (88.0%)			6.3 (78.6%)			9 (85.2%)		
Subsistence Flows (cfs)	0.1 (98.6%)			0.1 (98.3%)			0.1 (94.3%)			0.2 (96.7%)		
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1916 to 12/31/2009.

NRTR19162009

Overbank Events	Qp: 11,000 cfs with Average Frequency 1 per year Regressed Volume is 70,629 to 177,323 (111,911) Regressed Duration is 9 to 27 (16)											
	Qp: 6,160 cfs with Average Frequency 2 per year Regressed Volume is 36,010 to 90,380 (57,049) Regressed Duration is 8 to 23 (13)											
High Flow Pulses	Qp: 2,190 cfs with Average Frequency 1 per season Regressed Volume is 9,749 to 23,711 (15,204) Regressed Duration is 6 to 16 (10)			Qp: 5,380 cfs with Average Frequency 1 per season Regressed Volume is 33,021 to 80,168 (51,451) Regressed Duration is 7 to 22 (12)			Qp: 1,660 cfs with Average Frequency 1 per season Regressed Volume is 7,745 to 20,714 (12,666) Regressed Duration is 5			Qp: 3,010 cfs with Average Frequency 1 per season Regressed Volume is 16,450 to 39,753 (25,572) Regressed Duration is 6		
	Qp: 805 cfs with Average Frequency 2 per season Regressed Volume is 3,305 to 8,030 (5,151) Regressed Duration is 5 to 12 (7)			Qp: 2,530 cfs with Average Frequency 2 per season Regressed Volume is 13,457 to 32,646 (20,960) Regressed Duration is 6 to 17 (10)			Qp: 383 cfs with Average Frequency 2 per season Regressed Volume is 1,301 to 3,477 (2,127) Regressed Duration is 3 to 10 (5)			Qp: 1,050 cfs with Average Frequency 2 per season Regressed Volume is 4,707 to 11,366 (7,314) Regressed Duration is 4 to 13 (8)		
	Qp: 344 cfs with Average Frequency 3 per season Regressed Volume is 1,318 to 3,202 (2,054) Regressed Duration is 4 to 10 (6)			Qp: 1,070 cfs with Average Frequency 3 per season Regressed Volume is 4,833 to 11,719 (7,526) Regressed Duration is 4 to 13 (8)			Qp: 81 cfs with Average Frequency 3 per season Regressed Volume is 196 to 526 (321) Regressed Duration is 2 to 5 (3)			Qp: 254 cfs with Average Frequency 3 per season Regressed Volume is 871 to 2,104 (1,354) Regressed Duration is 3 to 8 (5)		
	Qp: 149 cfs with Average Frequency 4 per season Regressed Volume is 533 to 1,296 (831) Regressed Duration is 3 to 8 (5)			Qp: 526 cfs with Average Frequency 4 per season Regressed Volume is 2,075 to 5,033 (3,232) Regressed Duration is 3 to 10 (6)			Qp: 60 cfs with Average Frequency 4 per season Regressed Volume is 157 to 379 (244) Regressed Duration is 2 to 5 (3)					
Base Flows (cfs)	66 (40.0%)			52 (64.2%)			39 (53.9%)			44 (64.5%)		
	20 (63.5%)			18 (80.1%)			8.2 (70.4%)			12 (79.5%)		
	9 (81.0%)			5.5 (89.1%)			3.1 (79.3%)			4 (86.7%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1916 to 12/31/1981.

NRTR19161981

Overbank Events	Qp: 5,420 cfs with Average Frequency 1 per year Regressed Volume is 38,588 to 131,284 (71,176) Regressed Duration is 10 to 34 (18)											
	Qp: 2,690 cfs with Average Frequency 2 per year Regressed Volume is 16,788 to 57,007 (30,936) Regressed Duration is 8 to 27 (14)											
High Flow Pulses	Qp: 1,610 cfs with Average Frequency 1 per season Regressed Volume is 8,527 to 32,084 (16,540) Regressed Duration is 6 to 23 (12)				Qp: 1,740 cfs with Average Frequency 1 per season Regressed Volume is 10,291 to 34,272 (18,780) Regressed Duration is 7 to 24 (12)				Qp: 531 cfs with Average Frequency 1 per season Regressed Volume is 2,351 to 7,319 (4,148) Regressed Duration is 4 to 13 (7)		Qp: 925 cfs with Average Frequency 1 per season Regressed Volume is 4,732 to 15,213 (8,484) Regressed Duration is 6 to 17 (10)	
	Qp: 470 cfs with Average Frequency 2 per season Regressed Volume is 2,142 to 8,029 (4,147) Regressed Duration is 4 to 16 (8)				Qp: 534 cfs with Average Frequency 2 per season Regressed Volume is 2,472 to 8,202 (4,503) Regressed Duration is 4 to 15 (8)				Qp: 61 cfs with Average Frequency 2 per season Regressed Volume is 156 to 494 (278) Regressed Duration is 2 to 6 (3)		Qp: 258 cfs with Average Frequency 2 per season Regressed Volume is 1,010 to 3,250 (1,812) Regressed Duration is 3 to 11 (6)	
	Qp: 244 cfs with Average Frequency 3 per season Regressed Volume is 1,025 to 3,845 (1,985) Regressed Duration is 3 to 13 (7)				Qp: 231 cfs with Average Frequency 3 per season Regressed Volume is 897 to 2,980 (1,635) Regressed Duration is 3 to 11 (6)							
	Qp: 107 cfs with Average Frequency 4 per season Regressed Volume is 405 to 1,526 (786) Regressed Duration is 3 to 10 (5)						Qp: 53 cfs with Average Frequency 4 per season Regressed Volume is 151 to 505 (276) Regressed Duration is 2 to 6 (3)					
Base Flows (cfs)	162 (39.4%)				127 (47.2%)				79 (50.8%)		99 (51.1%)	
	83 (59.4%)				55 (66.1%)				40 (66.4%)		50 (68.9%)	
	42 (78.2%)				35 (82.5%)				32 (82.9%)		39 (82.0%)	
Subsistence Flows (cfs)	9.5 (97.5%)				5.1 (97.2%)				3.1 (95.4%)		1.5 (97.4%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter					Spring			Summer		Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1982 to 12/31/2009.

NRTR19822009

Overbank Events	Qp: 7,690 cfs with Average Frequency 1 per year Regressed Volume is 56,116 to 184,549 (101,766) Regressed Duration is 9 to 31 (17)											
	Qp: 4,090 cfs with Average Frequency 2 per year Regressed Volume is 25,252 to 82,986 (45,777) Regressed Duration is 7 to 23 (13)											
High Flow Pulses	Qp: 1,120 cfs with Average Frequency 1 per season Regressed Volume is 4,466 to 14,165 (7,954) Regressed Duration is 4 to 12 (7)				Qp: 2,540 cfs with Average Frequency 1 per season Regressed Volume is 15,558 to 49,395 (27,721) Regressed Duration is 6 to 19 (10)				Qp: 371 cfs with Average Frequency 1 per season Regressed Volume is 1,525 to 4,967 (2,752) Regressed Duration is 3 to 10 (5)		Qp: 1,550 cfs with Average Frequency 1 per season Regressed Volume is 7,571 to 24,681 (13,670) Regressed Duration is 4	
	Qp: 591 cfs with Average Frequency 2 per season Regressed Volume is 1,979 to 6,271 (3,523) Regressed Duration is 3 to 9 (5)				Qp: 422 cfs with Average Frequency 2 per season Regressed Volume is 1,605 to 5,087 (2,857) Regressed Duration is 3 to 9 (5)				Qp: 150 cfs with Average Frequency 2 per season Regressed Volume is 506 to 1,650 (913) Regressed Duration is 2 to 6 (4)		Qp: 239 cfs with Average Frequency 2 per season Regressed Volume is 819 to 2,670 (1,478) Regressed Duration is 2 to 7 (4)	
	Qp: 377 cfs with Average Frequency 3 per season Regressed Volume is 1,117 to 3,536 (1,987) Regressed Duration is 2 to 7 (4)				Qp: 188 cfs with Average Frequency 3 per season Regressed Volume is 577 to 1,828 (1,027) Regressed Duration is 2 to 6 (3)						Qp: 111 cfs with Average Frequency 3 per season Regressed Volume is 328 to 1,073 (594) Regressed Duration is 2 to 5 (3)	
	Qp: 288 cfs with Average Frequency 4 per season Regressed Volume is 792 to 2,509 (1,410) Regressed Duration is 2 to 6 (3)				Qp: 145 cfs with Average Frequency 4 per season Regressed Volume is 415 to 1,316 (739) Regressed Duration is 2 to 5 (3)							
Base Flows (cfs)	122 (39.9%)				148 (47.9%)				170 (44.1%)		142 (50.2%)	
	96 (58.8%)				119 (64.8%)				136 (62.5%)		114 (66.0%)	
	70 (76.2%)				89 (81.8%)				101 (80.6%)		88 (82.8%)	
Subsistence Flows (cfs)	36 (95.1%)				36 (98.2%)				39 (98.9%)		37 (98.1%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1940 to 12/31/2009.

NRM19402009

Overbank Events	Qp: 10,800 cfs with Average Frequency 1 per year Regressed Volume is 87,389 to 259,053 (150,460) Regressed Duration is 11 to 34 (19)											
	Qp: 5,240 cfs with Average Frequency 2 per year Regressed Volume is 34,550 to 102,309 (59,454) Regressed Duration is 8 to 24 (14)											
High Flow Pulses	Qp: 1,360 cfs with Average Frequency 1 per season Regressed Volume is 5,745 to 16,465 (9,726) Regressed Duration is 4 to 13 (7)			Qp: 4,080 cfs with Average Frequency 1 per season Regressed Volume is 30,074 to 82,215 (49,725) Regressed Duration is 7 to 22 (13)			Qp: 492 cfs with Average Frequency 1 per season Regressed Volume is 2,097 to 6,262 (3,624) Regressed Duration is 3 to 10 (6)			Qp: 2,280 cfs with Average Frequency 1 per season Regressed Volume is 11,442 to 33,484 (19,574) Regressed Duration is 5		
	Qp: 699 cfs with Average Frequency 2 per season Regressed Volume is 2,408 to 6,891 (4,074) Regressed Duration is 3 to 9 (5)			Qp: 742 cfs with Average Frequency 2 per season Regressed Volume is 3,268 to 8,906 (5,395) Regressed Duration is 3 to 10 (6)			Qp: 147 cfs with Average Frequency 2 per season Regressed Volume is 496 to 1,485 (858) Regressed Duration is 2 to 6 (3)			Qp: 439 cfs with Average Frequency 2 per season Regressed Volume is 1,589 to 4,648 (2,718) Regressed Duration is 3 to 8 (5)		
	Qp: 405 cfs with Average Frequency 3 per season Regressed Volume is 1,180 to 3,375 (1,996) Regressed Duration is 2 to 6 (4)			Qp: 184 cfs with Average Frequency 3 per season Regressed Volume is 531 to 1,448 (877) Regressed Duration is 2 to 5 (3)						Qp: 130 cfs with Average Frequency 3 per season Regressed Volume is 369 to 1,083 (632) Regressed Duration is 2 to 5 (3)		
	Qp: 290 cfs with Average Frequency 4 per season Regressed Volume is 763 to 2,181 (1,290) Regressed Duration is 2 to 5 (3)			Qp: 140 cfs with Average Frequency 4 per season Regressed Volume is 372 to 1,014 (614) Regressed Duration is 1 to 4 (3)								
Base Flows (cfs)	102 (41.5%)			132 (49.5%)			143 (45.8%)			118 (55.6%)		
	80 (60.6%)			100 (67.0%)			112 (64.2%)			99 (70.6%)		
	56 (75.8%)			70 (83.4%)			79 (82.4%)			74 (85.0%)		
Subsistence Flows (cfs)	32 (94.8%)			33 (98.1%)			38 (98.7%)			31 (98.4%)		
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1940 to 12/31/1981.

NRM19401981

Overbank Events	Qp: 4,970 cfs with Average Frequency 1 per year Regressed Volume is 33,219 to 120,150 (63,176) Regressed Duration is 8 to 28 (15)											
	Qp: 2,130 cfs with Average Frequency 2 per year Regressed Volume is 11,746 to 42,339 (22,300) Regressed Duration is 5 to 19 (10)											
High Flow Pulses	Qp: 908 cfs with Average Frequency 1 per season Regressed Volume is 3,470 to 11,851 (6,413) Regressed Duration is 3 to 12 (6)				Qp: 1,070 cfs with Average Frequency 1 per season Regressed Volume is 5,192 to 19,174 (9,977) Regressed Duration is 4 to 15 (8)				Qp: 280 cfs with Average Frequency 1 per season Regressed Volume is 1,112 to 4,087 (2,132) Regressed Duration is 2 to 9 (5)		Qp: 477 cfs with Average Frequency 1 per season Regressed Volume is 2,182 to 7,837 (4,135) Regressed Duration is 3 to 11 (6)	
	Qp: 484 cfs with Average Frequency 2 per season Regressed Volume is 1,667 to 5,676 (3,076) Regressed Duration is 3 to 9 (5)				Qp: 281 cfs with Average Frequency 2 per season Regressed Volume is 1,076 to 3,967 (2,066) Regressed Duration is 2 to 9 (5)				Qp: 163 cfs with Average Frequency 2 per season Regressed Volume is 551 to 2,037 (1,060) Regressed Duration is 2 to 7 (4)		Qp: 184 cfs with Average Frequency 2 per season Regressed Volume is 663 to 2,388 (1,259) Regressed Duration is 2 to 7 (4)	
	Qp: 351 cfs with Average Frequency 3 per season Regressed Volume is 1,146 to 3,899 (2,113) Regressed Duration is 2 to 8 (4)				Qp: 200 cfs with Average Frequency 3 per season Regressed Volume is 721 to 2,660 (1,385) Regressed Duration is 2 to 8 (4)							
	Qp: 286 cfs with Average Frequency 4 per season Regressed Volume is 902 to 3,069 (1,664) Regressed Duration is 2 to 7 (4)				Qp: 154 cfs with Average Frequency 4 per season Regressed Volume is 529 to 1,957 (1,018) Regressed Duration is 2 to 7 (4)							
Base Flows (cfs)	140 (38.7%)				164 (46.3%)				191 (44.7%)		164 (44.2%)	
	122 (55.2%)				136 (63.8%)				166 (63.0%)		139 (60.2%)	
	102 (71.7%)				115 (81.0%)				137 (80.3%)		113 (77.3%)	
Subsistence Flows (cfs)	60 (94.2%)				68 (99.0%)				62 (99.4%)		57 (97.8%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1982 to 12/31/2009.

NRM19822009

High Flow Pulses

Base Flows (cfs)	33 (21.0%)			31 (21.5%)			32 (20.3%)			35 (20.5%)		
	25 (42.0%)			20 (43.0%)			18 (40.7%)			22 (40.9%)		
	11 (62.9%)			9.9 (64.5%)			11 (61.0%)			11 (61.3%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1930 to 12/31/2009.

High Flow Pulses

Base Flows (cfs)	25 (17.3%)				22 (18.3%)				19 (17.7%)				22 (17.3%)	
	13 (34.6%)				12 (36.6%)				14 (35.4%)				14 (34.7%)	
	6.7 (51.9%)				6.9 (54.9%)				6.4 (53.0%)				8.2 (52.0%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)				0 (100.0%)	
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
	Winter				Spring				Summer				Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:
 1. Period of Record used : 1/1/1930 to 12/31/1969.

High Flow Pulses

Base Flows (cfs)	46 (23.4%)				43 (22.6%)				41 (21.2%)				45 (22.4%)	
	31 (46.9%)				28 (45.1%)				30 (42.5%)				31 (44.8%)	
	24 (70.4%)				19 (67.7%)				16 (63.7%)				21 (67.3%)	
Subsistence Flows (cfs)	4.3 (96.9%)				3.7 (95.2%)				0 (100.0%)				0 (100.0%)	
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov		
	Winter				Spring				Summer				Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:
 1. Period of Record used : 1/1/1970 to 12/31/2009.

Overbank Events	Qp: 1,780 cfs with Average Frequency 1 per year Regressed Volume is 6,102 to 33,426 (14,282) Regressed Duration is 7 to 45 (18)											
	Qp: 543 cfs with Average Frequency 2 per year Regressed Volume is 1,724 to 9,425 (4,031) Regressed Duration is 4 to 24 (10)											
High Flow Pulses	Qp: 89 cfs with Average Frequency 1 per season Regressed Volume is 260 to 2,096 (739) Regressed Duration is 2 to 12 (5)			Qp: 296 cfs with Average Frequency 1 per season Regressed Volume is 1,020 to 3,554 (1,904) Regressed Duration is 3 to 12 (6)			Qp: 237 cfs with Average Frequency 1 per season Regressed Volume is 622 to 2,986 (1,363) Regressed Duration is 2 to 13 (5)			Qp: 79 cfs with Average Frequency 1 per season Regressed Volume is 226 to 1,952 (664) Regressed Duration is 1 to 13 (4)		
	Qp: 118 cfs with Average Frequency 2 per season Regressed Volume is 379 to 1,322 (708) Regressed Duration is 2 to 8 (4)											
Base Flows (cfs)	83 (43.5%)			81 (45.2%)			73 (41.1%)			80 (49.5%)		
	63 (62.9%)			59 (62.4%)			47 (56.5%)			55 (64.2%)		
	46 (80.2%)			40 (80.3%)			31 (70.8%)			34 (78.6%)		
Subsistence Flows (cfs)	11 (98.5%)			9.4 (98.0%)			9.6 (92.5%)			9.5 (96.3%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1931 to 12/31/2009.

FRC19312009

Overbank Events	Qp: 1,010 cfs with Average Frequency 1 per year Regressed Volume is 3,135 to 14,356 (6,709) Regressed Duration is 5 to 26 (11)											
	Qp: 405 cfs with Average Frequency 2 per year Regressed Volume is 1,170 to 5,344 (2,501) Regressed Duration is 3 to 16 (7)											
High Flow Pulses	Qp: 90 cfs with Average Frequency 1 per season Regressed Volume is 228 to 1,589 (602) Regressed Duration is 1 to 10 (4)			Qp: 260 cfs with Average Frequency 1 per season Regressed Volume is 823 to 2,356 (1,392) Regressed Duration is 3 to 9 (5)			Qp: 237 cfs with Average Frequency 1 per season Regressed Volume is 575 to 2,533 (1,206) Regressed Duration is 2 to 10 (5)					
				Qp: 118 cfs with Average Frequency 2 per season Regressed Volume is 355 to 1,016 (600) Regressed Duration is 2 to 6 (3)								
				Qp: 52 cfs with Average Frequency 3 per season Regressed Volume is 148 to 426 (251) Regressed Duration is 1 to 4 (2)								
Base Flows (cfs)	72 (38.4%)			78 (38.3%)			55 (36.6%)			66 (43.0%)		
	52 (58.6%)			55 (58.4%)			36 (53.8%)			41 (59.4%)		
	34 (78.0%)			35 (77.1%)			20 (69.1%)			23 (75.9%)		
Subsistence Flows (cfs)	7.9 (98.5%)			7.9 (97.4%)			6.8 (92.4%)			4 (95.6%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1931 to 12/31/1969.

FRC19311969

Overbank Events	Qp: 2,640 cfs with Average Frequency 1 per year Regressed Volume is 9,557 to 59,519 (23,850) Regressed Duration is 9 to 66 (24)											
	Qp: 763 cfs with Average Frequency 2 per year Regressed Volume is 2,692 to 16,682 (6,701) Regressed Duration is 5 to 35 (13)											
High Flow Pulses	Qp: 86 cfs with Average Frequency 1 per season Regressed Volume is 360 to 3,596 (1,137) Regressed Duration is 2 to 20 (7)			Qp: 368 cfs with Average Frequency 1 per season Regressed Volume is 1,483 to 5,730 (2,915) Regressed Duration is 4 to 17 (8)			Qp: 239 cfs with Average Frequency 1 per season Regressed Volume is 673 to 3,497 (1,534) Regressed Duration is 2 to 15 (6)			Qp: 121 cfs with Average Frequency 1 per season Regressed Volume is 417 to 4,080 (1,304) Regressed Duration is 2 to 21 (6)		
	Qp: 120 cfs with Average Frequency 2 per season Regressed Volume is 457 to 1,772 (900) Regressed Duration is 2 to 10 (5)											
Base Flows (cfs)	89 (48.9%)			89 (50.5%)			81 (46.2%)			94 (55.2%)		
	72 (67.1%)			65 (66.0%)			61 (59.1%)			67 (70.1%)		
	58 (84.0%)			47 (81.1%)			46 (72.4%)			50 (84.8%)		
Subsistence Flows (cfs)	28 (99.7%)			25 (98.1%)			18 (92.4%)			25 (98.2%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

FRC19702009

Overbank Events	Qp: 538 cfs with Average Frequency 1 per year Regressed Volume is 2,385 to 9,087 (4,655) Regressed Duration is 10 to 38 (19)											
	Qp: 214 cfs with Average Frequency 2 per year Regressed Volume is 921 to 3,504 (1,797) Regressed Duration is 6 to 26 (13)											
High Flow Pulses	Qp: 32 cfs with Average Frequency 1 per season Regressed Volume is 144 to 650 (306) Regressed Duration is 3 to 13 (7)			Qp: 117 cfs with Average Frequency 1 per season Regressed Volume is 467 to 1,473 (829) Regressed Duration is 4 to 16 (8)			Qp: 81 cfs with Average Frequency 1 per season Regressed Volume is 330 to 1,100 (602) Regressed Duration is 4 to 15 (8)			Qp: 35 cfs with Average Frequency 1 per season Regressed Volume is 151 to 617 (305) Regressed Duration is 3 to 13 (6)		
	Qp: 30 cfs with Average Frequency 2 per season Regressed Volume is 118 to 372 (210) Regressed Duration is 2 to 9 (5)			Qp: 12 cfs with Average Frequency 2 per season Regressed Volume is 48 to 159 (87) Regressed Duration is 2 to 7 (4)								
	Qp: 9 cfs with Average Frequency 3 per season Regressed Volume is 33 to 106 (59) Regressed Duration is 1 to 6 (3)											
Base Flows (cfs)	17 (42.9%)			16 (47.5%)			14 (43.9%)			18 (50.6%)		
	12 (62.0%)			9.3 (63.5%)			7.9 (58.1%)			11 (67.8%)		
	7.2 (80.4%)			5 (80.0%)			4.1 (71.2%)			6.5 (80.1%)		
Subsistence Flows (cfs)	0.65 (99.2%)			1.1 (97.7%)			0.6 (92.0%)			0.6 (97.2%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1953 to 12/31/2009.

DFRR19532009

Overbank Events	Qp: 4,010 cfs with Average Frequency 1 per year Regressed Volume is 12,756 to 44,691 (23,876) Regressed Duration is 7 to 29 (14)											
	Qp: 1,670 cfs with Average Frequency 2 per year Regressed Volume is 5,356 to 18,758 (10,023) Regressed Duration is 6 to 25 (12)											
High Flow Pulses	Qp: 87 cfs with Average Frequency 1 per season Regressed Volume is 350 to 1,446 (711) Regressed Duration is 4 to 20 (9)				Qp: 902 cfs with Average Frequency 1 per season Regressed Volume is 3,061 to 7,936 (4,928) Regressed Duration is 5 to 17 (9)				Qp: 58 cfs with Average Frequency 1 per season Regressed Volume is 177 to 513 (301) Regressed Duration is 3 to 13 (7)		Qp: 348 cfs with Average Frequency 1 per season Regressed Volume is 1,072 to 4,340 (2,157) Regressed Duration is 5 to 24 (11)	
	Qp: 12 cfs with Average Frequency 2 per season Regressed Volume is 47 to 193 (95) Regressed Duration is 3 to 15 (7)				Qp: 209 cfs with Average Frequency 2 per season Regressed Volume is 699 to 1,812 (1,126) Regressed Duration is 4 to 14 (7)						Qp: 7 cfs with Average Frequency 2 per season Regressed Volume is 24 to 97 (48) Regressed Duration is 2 to 12 (5)	
	Qp: 1 cfs with Average Frequency 3 per season Regressed Volume is 4 to 17 (8) Regressed Duration is 2 to 10 (5)				Qp: 49 cfs with Average Frequency 3 per season Regressed Volume is 162 to 419 (260) Regressed Duration is 3 to 11 (6)							
	Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 16 to 41 (25) Regressed Duration is 2 to 8 (4)											
Base Flows (cfs)	26 (34.8%)				22 (38.3%)				16 (30.7%)		24 (34.9%)	
	17 (43.9%)				11 (49.2%)				6.8 (38.0%)		12 (43.2%)	
	7.9 (53.1%)				2.8 (59.7%)				2.2 (46.2%)		5 (51.1%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1916 to 12/31/2009.

FRD19162009

Overbank Events	Qp: 4,010 cfs with Average Frequency 1 per year Regressed Volume is 10,779 to 29,743 (17,905) Regressed Duration is 6 to 20 (11)											
	Qp: 1,600 cfs with Average Frequency 2 per year Regressed Volume is 4,462 to 12,306 (7,410) Regressed Duration is 5 to 18 (10)											
High Flow Pulses	Qp: 114 cfs with Average Frequency 1 per season Regressed Volume is 394 to 1,373 (735) Regressed Duration is 4 to 17 (9)			Qp: 937 cfs with Average Frequency 1 per season Regressed Volume is 2,910 to 6,051 (4,196) Regressed Duration is 5 to 14 (8)			Qp: 54 cfs with Average Frequency 1 per season Regressed Volume is 156 to 331 (227) Regressed Duration is 4 to 9 (6)			Qp: 364 cfs with Average Frequency 1 per season Regressed Volume is 1,122 to 2,956 (1,821) Regressed Duration is 5 to 16 (9)		
	Qp: 9 cfs with Average Frequency 2 per season Regressed Volume is 36 to 124 (67) Regressed Duration is 3 to 13 (6)			Qp: 236 cfs with Average Frequency 2 per season Regressed Volume is 750 to 1,559 (1,082) Regressed Duration is 4 to 12 (7)						Qp: 10 cfs with Average Frequency 2 per season Regressed Volume is 34 to 91 (56) Regressed Duration is 3 to 9 (5)		
	Qp: 1 cfs with Average Frequency 3 per season Regressed Volume is 6 to 20 (11) Regressed Duration is 3 to 10 (5)			Qp: 58 cfs with Average Frequency 3 per season Regressed Volume is 189 to 392 (272) Regressed Duration is 3 to 10 (6)								
	Qp: 8 cfs with Average Frequency 4 per season Regressed Volume is 28 to 57 (40) Regressed Duration is 3 to 8 (5)											
Base Flows (cfs)	20 (19.5%)			15 (31.3%)			11 (20.6%)			11 (27.1%)		
	13 (27.4%)			7.1 (40.9%)			4.1 (28.3%)			4.6 (34.3%)		
	5.3 (37.1%)			1.4 (52.2%)			1.4 (35.7%)			1 (42.4%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1916 to 12/31/1969.

FRD19161969

Overbank Events	Qp: 4,100 cfs with Average Frequency 1 per year Regressed Volume is 18,023 to 72,390 (36,121) Regressed Duration is 8 to 45 (19)											
	Qp: 1,790 cfs with Average Frequency 2 per year Regressed Volume is 7,692 to 30,859 (15,406) Regressed Duration is 7 to 38 (16)											
	Qp: 76 cfs with Average Frequency 1 per season Regressed Volume is 388 to 1,737 (821) Regressed Duration is 4 to 24 (10)				Qp: 878 cfs with Average Frequency 1 per season Regressed Volume is 3,856 to 10,963 (6,502) Regressed Duration is 5 to 23 (11)				Qp: 58 cfs with Average Frequency 1 per season Regressed Volume is 242 to 770 (432) Regressed Duration is 4 to 20 (9)		Qp: 287 cfs with Average Frequency 1 per season Regressed Volume is 1,049 to 5,801 (2,467) Regressed Duration is 5 to 38 (14)	
	Qp: 16 cfs with Average Frequency 2 per season Regressed Volume is 70 to 311 (147) Regressed Duration is 3 to 16 (7)				Qp: 170 cfs with Average Frequency 2 per season Regressed Volume is 685 to 1,945 (1,155) Regressed Duration is 4 to 17 (8)				Qp: 0 cfs with Average Frequency 2 per season Regressed Volume is 0 to 2 (1) Regressed Duration is 1 to 7 (2)			
	Qp: 0 cfs with Average Frequency 3 per season Regressed Volume is 1 to 5 (2) Regressed Duration is 1 to 6 (3)				Qp: 41 cfs with Average Frequency 3 per season Regressed Volume is 153 to 435 (258) Regressed Duration is 3 to 13 (6)				Qp: 2 cfs with Average Frequency 4 per season Regressed Volume is 8 to 22 (13) Regressed Duration is 2 to 8 (4)			
High Flow Pulses												
Base Flows (cfs)	32 (55.3%)			28 (51.7%)			28 (44.1%)			28 (49.8%)		
	23 (65.9%)			16 (62.1%)			13 (51.9%)			18 (58.5%)		
	13 (76.8%)			7.5 (71.0%)			4.3 (60.3%)			10 (68.5%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

FRD19702009

Overbank Events	Qp: 4,140 cfs with Average Frequency 1 per year Regressed Volume is 17,953 to 51,369 (30,368) Regressed Duration is 7 to 27 (14)											
	Qp: 2,051 cfs with Average Frequency 2 per year Regressed Volume is 8,518 to 24,364 (14,406) Regressed Duration is 6 to 23 (12)											
High Flow Pulses	Qp: 385 cfs with Average Frequency 1 per season Regressed Volume is 1,502 to 5,322 (2,827) Regressed Duration is 5 to 20 (10)				Qp: 1,489 cfs with Average Frequency 1 per season Regressed Volume is 6,323 to 15,730 (9,973) Regressed Duration is 5 to 18 (10)				Qp: 271 cfs with Average Frequency 1 per season Regressed Volume is 981 to 2,440 (1,547) Regressed Duration is 4 to 14 (7)		Qp: 961 cfs with Average Frequency 1 per season Regressed Volume is 3,719 to 10,368 (6,209) Regressed Duration is 5 to 20 (10)	
	Qp: 86 cfs with Average Frequency 2 per season Regressed Volume is 302 to 1,070 (569) Regressed Duration is 3 to 13 (7)				Qp: 455 cfs with Average Frequency 2 per season Regressed Volume is 1,797 to 4,468 (2,834) Regressed Duration is 4 to 14 (8)				Qp: 36 cfs with Average Frequency 2 per season Regressed Volume is 111 to 276 (175) Regressed Duration is 2 to 9 (4)		Qp: 117 cfs with Average Frequency 2 per season Regressed Volume is 388 to 1,079 (647) Regressed Duration is 3 to 12 (6)	
	Qp: 25 cfs with Average Frequency 3 per season Regressed Volume is 82 to 289 (153) Regressed Duration is 2 to 9 (5)				Qp: 192 cfs with Average Frequency 3 per season Regressed Volume is 719 to 1,786 (1,133) Regressed Duration is 3 to 12 (6)				Qp: 13 cfs with Average Frequency 3 per season Regressed Volume is 37 to 103 (62) Regressed Duration is 2 to 7 (4)			
	Qp: 6 cfs with Average Frequency 4 per season Regressed Volume is 18 to 63 (33) Regressed Duration is 2 to 6 (3)				Qp: 83 cfs with Average Frequency 4 per season Regressed Volume is 295 to 732 (465) Regressed Duration is 3 to 10 (5)							
Base Flows (cfs)	29 (41.9%)				25 (49.9%)				14 (42.5%)		21 (48.2%)	
	12 (60.6%)				7.3 (68.6%)				2 (61.5%)		3.2 (67.7%)	
	1.1 (81.7%)				1.1 (83.1%)				0.26 (71.4%)		0.62 (79.9%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter					Spring			Summer		Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1933 to 12/31/2009.

FRT19332009

Overbank Events	Qp: 4,845 cfs with Average Frequency 1 per year Regressed Volume is 19,360 to 43,239 (28,933) Regressed Duration is 6 to 20 (11)											
	Qp: 2,269 cfs with Average Frequency 2 per year Regressed Volume is 8,841 to 19,734 (13,209) Regressed Duration is 5 to 18 (10)											
High Flow Pulses	Qp: 500 cfs with Average Frequency 1 per season Regressed Volume is 1,903 to 4,433 (2,904) Regressed Duration is 5 to 15 (9)				Qp: 1,954 cfs with Average Frequency 1 per season Regressed Volume is 7,642 to 16,286 (11,156) Regressed Duration is 5 to 15 (9)				Qp: 271 cfs with Average Frequency 1 per season Regressed Volume is 914 to 2,020 (1,359) Regressed Duration is 4 to 11 (6)		Qp: 1,362 cfs with Average Frequency 1 per season Regressed Volume is 5,290 to 12,011 (7,971) Regressed Duration is 5 to 16 (9)	
	Qp: 157 cfs with Average Frequency 2 per season Regressed Volume is 581 to 1,352 (887) Regressed Duration is 4 to 12 (7)				Qp: 686 cfs with Average Frequency 2 per season Regressed Volume is 2,606 to 5,547 (3,802) Regressed Duration is 4 to 13 (7)				Qp: 60 cfs with Average Frequency 2 per season Regressed Volume is 187 to 414 (278) Regressed Duration is 3 to 8 (5)		Qp: 173 cfs with Average Frequency 2 per season Regressed Volume is 603 to 1,366 (907) Regressed Duration is 3 to 11 (6)	
	Qp: 67 cfs with Average Frequency 3 per season Regressed Volume is 245 to 569 (373) Regressed Duration is 3 to 10 (6)				Qp: 310 cfs with Average Frequency 3 per season Regressed Volume is 1,150 to 2,446 (1,677) Regressed Duration is 4 to 12 (7)				Qp: 5 cfs with Average Frequency 3 per season Regressed Volume is 12 to 28 (19) Regressed Duration is 1 to 4 (3)		Qp: 54 cfs with Average Frequency 3 per season Regressed Volume is 178 to 403 (267) Regressed Duration is 3 to 9 (5)	
	Qp: 21 cfs with Average Frequency 4 per season Regressed Volume is 73 to 171 (112) Regressed Duration is 2 to 8 (4)				Qp: 167 cfs with Average Frequency 4 per season Regressed Volume is 609 to 1,294 (888) Regressed Duration is 3 to 11 (6)				Qp: 4 cfs with Average Frequency 4 per season Regressed Volume is 12 to 28 (18) Regressed Duration is 2 to 5 (3)			
Base Flows (cfs)	17 (34.6%)				14 (51.0%)				7.7 (39.2%)		5.9 (51.0%)	
	5.5 (57.0%)				3.4 (70.8%)				1.5 (54.8%)		1.8 (65.9%)	
	0.62 (77.3%)				0.83 (81.3%)				0.4 (63.0%)		0.46 (72.4%)	
Subsistence Flows (cfs)	0 (100.0%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter					Spring			Summer		Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1933 to 12/31/1969.

FRT19331969

Overbank Events	Qp: 3,880 cfs with Average Frequency 1 per year Regressed Volume is 19,903 to 69,242 (37,124) Regressed Duration is 8 to 38 (18)											
	Qp: 1,817 cfs with Average Frequency 2 per year Regressed Volume is 8,677 to 30,153 (16,175) Regressed Duration is 7 to 31 (15)											
High Flow Pulses	Qp: 219 cfs with Average Frequency 1 per season Regressed Volume is 967 to 4,692 (2,130) Regressed Duration is 5 to 24 (11)			Qp: 1,124 cfs with Average Frequency 1 per season Regressed Volume is 5,653 to 15,466 (9,351) Regressed Duration is 6 to 22 (11)			Qp: 235 cfs with Average Frequency 1 per season Regressed Volume is 944 to 2,506 (1,539) Regressed Duration is 4 to 17 (8)			Qp: 544 cfs with Average Frequency 1 per season Regressed Volume is 2,119 to 7,134 (3,888) Regressed Duration is 5 to 23 (10)		
	Qp: 44 cfs with Average Frequency 2 per season Regressed Volume is 155 to 752 (342) Regressed Duration is 3 to 14 (6)			Qp: 278 cfs with Average Frequency 2 per season Regressed Volume is 1,195 to 3,262 (1,974) Regressed Duration is 4 to 15 (8)			Qp: 6 cfs with Average Frequency 2 per season Regressed Volume is 18 to 48 (29) Regressed Duration is 2 to 8 (3)			Qp: 76 cfs with Average Frequency 2 per season Regressed Volume is 245 to 823 (449) Regressed Duration is 3 to 13 (6)		
	Qp: 6 cfs with Average Frequency 3 per season Regressed Volume is 17 to 84 (38) Regressed Duration is 1 to 7 (3)			Qp: 89 cfs with Average Frequency 3 per season Regressed Volume is 335 to 916 (554) Regressed Duration is 3 to 11 (6)						Qp: 3 cfs with Average Frequency 3 per season Regressed Volume is 6 to 21 (12) Regressed Duration is 1 to 5 (2)		
	Qp: 24 cfs with Average Frequency 4 per season Regressed Volume is 78 to 213 (129) Regressed Duration is 2 to 8 (4)											
Base Flows (cfs)	40 (50.5%)			35 (51.6%)			32 (44.7%)			28 (52.3%)		
	23 (66.3%)			15 (67.6%)			5.9 (60.6%)			11 (68.2%)		
	6.7 (82.7%)			2.9 (82.4%)			0.57 (74.3%)			0.94 (86.1%)		
Subsistence Flows (cfs)	0.02 (99.8%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter					Spring			Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

FRT19702009

Overbank Events	Qp: 1,020 cfs with Average Frequency 1 per year Regressed Volume is 3,838 to 17,909 (8,291) Regressed Duration is 7 to 38 (17)											
	Qp: 329 cfs with Average Frequency 2 per year Regressed Volume is 1,164 to 5,422 (2,513) Regressed Duration is 5 to 24 (10)											
High Flow Pulses	Qp: 62 cfs with Average Frequency 1 per season Regressed Volume is 232 to 1,532 (596) Regressed Duration is 3 to 17 (7)			Qp: 177 cfs with Average Frequency 1 per season Regressed Volume is 644 to 2,207 (1,192) Regressed Duration is 4 to 15 (7)			Qp: 100 cfs with Average Frequency 1 per season Regressed Volume is 286 to 1,178 (581) Regressed Duration is 2 to 12 (5)			Qp: 53 cfs with Average Frequency 1 per season Regressed Volume is 177 to 840 (386) Regressed Duration is 2 to 12 (5)		
	Qp: 64 cfs with Average Frequency 2 per season Regressed Volume is 219 to 750 (405) Regressed Duration is 2 to 10 (5)			Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 31 to 127 (62) Regressed Duration is 1 to 5 (2)								
	Qp: 22 cfs with Average Frequency 3 per season Regressed Volume is 70 to 242 (131) Regressed Duration is 2 to 6 (3)											
Base Flows (cfs)	35 (41.7%)			35 (46.4%)			29 (39.9%)			34 (44.2%)		
	22 (59.2%)			20 (63.3%)			13 (55.6%)			20 (59.4%)		
	11 (77.8%)			7.7 (79.9%)			3.2 (70.4%)			9.9 (73.7%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1943 to 12/31/2009.

SRS19432009

Overbank Events	Qp: 758 cfs with Average Frequency 1 per year Regressed Volume is 2,392 to 10,289 (4,961) Regressed Duration is 6 to 27 (13)											
	Qp: 309 cfs with Average Frequency 2 per year Regressed Volume is 949 to 4,063 (1,963) Regressed Duration is 4 to 19 (9)											
High Flow Pulses	Qp: 63 cfs with Average Frequency 1 per season Regressed Volume is 227 to 1,305 (544) Regressed Duration is 3 to 15 (6)			Qp: 150 cfs with Average Frequency 1 per season Regressed Volume is 457 to 1,376 (793) Regressed Duration is 3 to 11 (6)			Qp: 91 cfs with Average Frequency 1 per season Regressed Volume is 227 to 792 (424) Regressed Duration is 2 to 8 (4)			Qp: 15 cfs with Average Frequency 1 per season Regressed Volume is 48 to 263 (113) Regressed Duration is 2 to 9 (4)		
	Qp: 9 cfs with Average Frequency 2 per season Regressed Volume is 25 to 150 (61) Regressed Duration is 1 to 6 (2)			Qp: 50 cfs with Average Frequency 2 per season Regressed Volume is 157 to 473 (272) Regressed Duration is 2 to 8 (4)			Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 23 to 83 (44) Regressed Duration is 1 to 4 (2)					
				Qp: 22 cfs with Average Frequency 3 per season Regressed Volume is 70 to 213 (123) Regressed Duration is 2 to 6 (3)								
Base Flows (cfs)	26 (35.4%)			29 (37.0%)			19 (27.9%)			32 (34.5%)		
	15 (52.5%)			17 (54.0%)			7.8 (41.7%)			16 (47.1%)		
	6.3 (67.8%)			6.5 (71.1%)			2.9 (54.2%)			3 (61.1%)		
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1943 to 12/31/1969.

SRS19431969

Overbank Events	Qp: 1,310 cfs with Average Frequency 1 per year Regressed Volume is 5,475 to 26,276 (11,994) Regressed Duration is 9 to 47 (20)											
	Qp: 355 cfs with Average Frequency 2 per year Regressed Volume is 1,383 to 6,614 (3,025) Regressed Duration is 5 to 27 (12)											
High Flow Pulses	Qp: 61 cfs with Average Frequency 1 per season Regressed Volume is 236 to 1,769 (646) Regressed Duration is 3 to 19 (7)			Qp: 257 cfs with Average Frequency 1 per season Regressed Volume is 1,105 to 3,835 (2,058) Regressed Duration is 4 to 19 (9)			Qp: 103 cfs with Average Frequency 1 per season Regressed Volume is 344 to 1,476 (713) Regressed Duration is 3 to 14 (6)			Qp: 61 cfs with Average Frequency 1 per season Regressed Volume is 208 to 969 (449) Regressed Duration is 2 to 12 (5)		
				Qp: 70 cfs with Average Frequency 2 per season Regressed Volume is 268 to 929 (499) Regressed Duration is 2 to 11 (5)			Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 40 to 174 (83) Regressed Duration is 1 to 7 (3)					
				Qp: 21 cfs with Average Frequency 3 per season Regressed Volume is 72 to 251 (134) Regressed Duration is 1 to 7 (3)								
Base Flows (cfs)	39 (46.9%)			40 (52.8%)			34 (45.0%)			35 (49.5%)		
	25 (64.5%)			24 (68.2%)			24 (58.2%)			23 (64.5%)		
	16 (83.2%)			11 (83.7%)			13 (71.8%)			14 (79.5%)		
Subsistence Flows (cfs)	1.9 (99.7%)			1.8 (98.3%)			0.7 (92.6%)			0.28 (96.1%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter			Spring			Summer			Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

SRS19702009

Overbank Events	Qp: 1,070 cfs with Average Frequency 1 per year Regressed Volume is 3,229 to 13,859 (6,690) Regressed Duration is 6 to 29 (13)																						
	Qp: 233 cfs with Average Frequency 2 per year Regressed Volume is 627 to 2,684 (1,297) Regressed Duration is 4 to 17 (8)																						
High Flow Pulses	Qp: 21 cfs with Average Frequency 1 per season Regressed Volume is 62 to 307 (138) Regressed Duration is 2 to 11 (5)				Qp: 56 cfs with Average Frequency 1 per season Regressed Volume is 133 to 425 (238) Regressed Duration is 2 to 9 (4)				Qp: 20 cfs with Average Frequency 1 per season Regressed Volume is 40 to 153 (79) Regressed Duration is 2 to 6 (3)														
	Base Flows (cfs)			3.3 (32.9%)			2.7 (35.3%)			2.5 (37.3%)			3.4 (36.6%)										
	1.5 (54.2%)			1.3 (55.2%)			1.1 (55.8%)			1.8 (54.9%)													
0.98 (72.2%)			0.6 (73.1%)			0.56 (70.8%)			0.88 (72.6%)														
Subsistence Flows (cfs)			0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)											
Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct	
Winter						Spring						Summer						Fall					

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1953 to 12/31/2009.

SRSBEO19532009_LT3UT0.9MM1.25

Overbank Events	Qp: 313 cfs with Average Frequency 1 per year Regressed Volume is 1,458 to 5,066 (2,718) Regressed Duration is 8 to 31 (16)											
	Qp: 121 cfs with Average Frequency 2 per year Regressed Volume is 493 to 1,709 (918) Regressed Duration is 6 to 21 (11)											
High Flow Pulses	Qp: 21 cfs with Average Frequency 1 per season Regressed Volume is 82 to 291 (155) Regressed Duration is 3 to 12 (6)			Qp: 91 cfs with Average Frequency 1 per season Regressed Volume is 347 to 1,137 (628) Regressed Duration is 4 to 17 (8)			Qp: 38 cfs with Average Frequency 1 per season Regressed Volume is 122 to 360 (210) Regressed Duration is 4 to 11 (6)			Qp: 23 cfs with Average Frequency 1 per season Regressed Volume is 69 to 270 (136) Regressed Duration is 3 to 11 (5)		
	Qp: 9 cfs with Average Frequency 2 per season Regressed Volume is 29 to 100 (54) Regressed Duration is 2 to 8 (4)			Qp: 33 cfs with Average Frequency 2 per season Regressed Volume is 111 to 364 (201) Regressed Duration is 3 to 12 (6)			Qp: 11 cfs with Average Frequency 2 per season Regressed Volume is 31 to 93 (54) Regressed Duration is 2 to 7 (4)			Qp: 7 cfs with Average Frequency 2 per season Regressed Volume is 17 to 65 (33) Regressed Duration is 2 to 6 (3)		
	Qp: 4 cfs with Average Frequency 3 per season Regressed Volume is 11 to 39 (21) Regressed Duration is 1 to 5 (3)			Qp: 13 cfs with Average Frequency 3 per season Regressed Volume is 39 to 128 (71) Regressed Duration is 2 to 8 (4)			Qp: 3 cfs with Average Frequency 3 per season Regressed Volume is 7 to 22 (13) Regressed Duration is 1 to 4 (2)					
	Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 12 to 40 (22) Regressed Duration is 1 to 6 (3)											
Base Flows (cfs)	6.1 (41.4%)			6.7 (50.7%)			6.4 (40.8%)			6.8 (44.9%)		
	3.6 (60.3%)			2.8 (68.2%)			2.8 (57.6%)			3.6 (64.1%)		
	2 (80.2%)			1.2 (83.6%)			1.3 (73.2%)			1.3 (81.7%)		
Subsistence Flows (cfs)	0.05 (98.7%)			0.06 (97.7%)			0.02 (92.9%)			0.05 (98.6%)		
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov
	Winter				Spring			Summer			Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1962 to 12/31/2009.

SCU19622009

Overbank Events	Qp: 794 cfs with Average Frequency 1 per year Regressed Volume is 3,162 to 12,144 (6,197) Regressed Duration is 7 to 30 (15)												
	Qp: 326 cfs with Average Frequency 2 per year Regressed Volume is 1,182 to 4,534 (2,315) Regressed Duration is 5 to 22 (10)												
High Flow Pulses	Qp: 61 cfs with Average Frequency 1 per season Regressed Volume is 245 to 1,023 (500) Regressed Duration is 3 to 15 (7)			Qp: 291 cfs with Average Frequency 1 per season Regressed Volume is 977 to 3,364 (1,813) Regressed Duration is 4 to 18 (9)			Qp: 90 cfs with Average Frequency 1 per season Regressed Volume is 262 to 889 (483) Regressed Duration is 3 to 12 (6)			Qp: 50 cfs with Average Frequency 1 per season Regressed Volume is 149 to 575 (293) Regressed Duration is 3 to 11 (5)			
	Qp: 16 cfs with Average Frequency 2 per season Regressed Volume is 47 to 197 (97) Regressed Duration is 2 to 8 (4)			Qp: 91 cfs with Average Frequency 2 per season Regressed Volume is 275 to 947 (510) Regressed Duration is 3 to 12 (6)			Qp: 24 cfs with Average Frequency 2 per season Regressed Volume is 65 to 220 (119) Regressed Duration is 2 to 7 (4)			Qp: 13 cfs with Average Frequency 2 per season Regressed Volume is 32 to 122 (62) Regressed Duration is 1 to 6 (3)			
	Qp: 6 cfs with Average Frequency 3 per season Regressed Volume is 13 to 54 (27) Regressed Duration is 1 to 5 (2)			Qp: 36 cfs with Average Frequency 3 per season Regressed Volume is 100 to 344 (186) Regressed Duration is 2 to 9 (4)			Qp: 4 cfs with Average Frequency 3 per season Regressed Volume is 10 to 34 (18) Regressed Duration is 1 to 4 (2)						
	Qp: 6 cfs with Average Frequency 4 per season Regressed Volume is 15 to 52 (28) Regressed Duration is 1 to 5 (2)												
Base Flows (cfs)	15 (41.9%)			17 (51.9%)			17 (38.3%)			15 (43.2%)			
	6.4 (60.2%)			5.2 (68.2%)			9 (54.1%)			7.9 (61.2%)			
	2.9 (79.6%)			1.2 (83.1%)			1.9 (70.5%)			2.5 (79.3%)			
Subsistence Flows (cfs)	0 (100.0%)												
	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	
Winter				Spring				Summer				Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1953 to 12/31/2009.

HCT19532009

Overbank Events	Qp: 2,210 cfs with Average Frequency 1 per year Regressed Volume is 5,627 to 15,868 (9,449) Regressed Duration is 5 to 20 (11)																																																										
	Qp: 988 cfs with Average Frequency 2 per year Regressed Volume is 2,595 to 7,314 (4,356) Regressed Duration is 5 to 18 (10)																																																										
High Flow Pulses	Qp: 162 cfs with Average Frequency 1 per season Regressed Volume is 480 to 1,577 (870) Regressed Duration is 4 to 19 (9)				Qp: 685 cfs with Average Frequency 1 per season Regressed Volume is 2,058 to 4,940 (3,188) Regressed Duration is 5 to 16 (9)				Qp: 156 cfs with Average Frequency 1 per season Regressed Volume is 439 to 1,036 (675) Regressed Duration is 4 to 13 (7)		Qp: 303 cfs with Average Frequency 1 per season Regressed Volume is 802 to 2,006 (1,268) Regressed Duration is 5 to 15 (8)																																																
	Qp: 45 cfs with Average Frequency 2 per season Regressed Volume is 145 to 474 (262) Regressed Duration is 4 to 16 (8)				Qp: 218 cfs with Average Frequency 2 per season Regressed Volume is 652 to 1,564 (1,010) Regressed Duration is 4 to 14 (8)				Qp: 16 cfs with Average Frequency 2 per season Regressed Volume is 48 to 112 (73) Regressed Duration is 3 to 10 (6)		Qp: 44 cfs with Average Frequency 2 per season Regressed Volume is 122 to 306 (193) Regressed Duration is 3 to 12 (6)																																																
	Qp: 14 cfs with Average Frequency 3 per season Regressed Volume is 48 to 159 (88) Regressed Duration is 3 to 14 (7)				Qp: 103 cfs with Average Frequency 3 per season Regressed Volume is 307 to 736 (476) Regressed Duration is 4 to 13 (7)				Qp: 1 cfs with Average Frequency 3 per season Regressed Volume is 4 to 10 (7) Regressed Duration is 2 to 8 (4)		Qp: 5 cfs with Average Frequency 3 per season Regressed Volume is 14 to 35 (22) Regressed Duration is 3 to 8 (5)																																																
	Qp: 7 cfs with Average Frequency 4 per season Regressed Volume is 26 to 86 (48) Regressed Duration is 3 to 13 (7)						Qp: 47 cfs with Average Frequency 4 per season Regressed Volume is 140 to 335 (216) Regressed Duration is 4 to 12 (7)																																																				
	<table border="1"> <tr> <td colspan="3">3.4 (36.2%)</td> <td colspan="3">4.4 (44.2%)</td> <td colspan="3">2.6 (36.2%)</td> <td colspan="3">3.6 (37.0%)</td> </tr> <tr> <td colspan="3">2 (48.7%)</td> <td colspan="3">2 (54.1%)</td> <td colspan="3">1.3 (43.6%)</td> <td colspan="3">1.8 (45.7%)</td> </tr> <tr> <td colspan="3">0.95 (60.2%)</td> <td colspan="3">0.36 (64.6%)</td> <td colspan="3">0.22 (52.2%)</td> <td colspan="3">0.23 (55.4%)</td> </tr> <tr> <td colspan="3">0 (100.0%)</td> <td colspan="3">0 (100.0%)</td> <td colspan="3">0 (100.0%)</td> <td colspan="3">0 (100.0%)</td> </tr> </table>												3.4 (36.2%)			4.4 (44.2%)			2.6 (36.2%)			3.6 (37.0%)			2 (48.7%)			2 (54.1%)			1.3 (43.6%)			1.8 (45.7%)			0.95 (60.2%)			0.36 (64.6%)			0.22 (52.2%)			0.23 (55.4%)			0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)	
3.4 (36.2%)			4.4 (44.2%)			2.6 (36.2%)			3.6 (37.0%)																																																		
2 (48.7%)			2 (54.1%)			1.3 (43.6%)			1.8 (45.7%)																																																		
0.95 (60.2%)			0.36 (64.6%)			0.22 (52.2%)			0.23 (55.4%)																																																		
0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)																																																		
Base Flows (cfs)	3.4 (36.2%)			4.4 (44.2%)			2.6 (36.2%)			3.6 (37.0%)																																																	
	2 (48.7%)			2 (54.1%)			1.3 (43.6%)			1.8 (45.7%)																																																	
	0.95 (60.2%)			0.36 (64.6%)			0.22 (52.2%)			0.23 (55.4%)																																																	
Subsistence Flows (cfs)	0 (100.0%)			0 (100.0%)			0 (100.0%)			0 (100.0%)																																																	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct																																															
	Winter					Spring			Summer		Fall																																																

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1965 to 12/31/2009.

SMCT19652009

Overbank Events	Qp: 3,880 cfs with Average Frequency 1 per year Regressed Volume is 12,353 to 28,347 (18,713) Regressed Duration is 7 to 22 (13)																																																		
	Qp: 1,990 cfs with Average Frequency 2 per year Regressed Volume is 6,437 to 14,767 (9,750) Regressed Duration is 6 to 19 (11)																																																		
High Flow Pulses	Qp: 725 cfs with Average Frequency 1 per season Regressed Volume is 2,390 to 5,718 (3,697) Regressed Duration is 6 to 18 (11)				Qp: 1,770 cfs with Average Frequency 1 per season Regressed Volume is 6,156 to 12,451 (8,755) Regressed Duration is 6 to 16 (10)				Qp: 253 cfs with Average Frequency 1 per season Regressed Volume is 742 to 1,960 (1,206) Regressed Duration is 4 to 12 (7)		Qp: 620 cfs with Average Frequency 1 per season Regressed Volume is 2,144 to 4,323 (3,045) Regressed Duration is 5 to 14 (8)																																								
	Qp: 228 cfs with Average Frequency 2 per season Regressed Volume is 818 to 1,955 (1,265) Regressed Duration is 5 to 14 (8)				Qp: 600 cfs with Average Frequency 2 per season Regressed Volume is 2,115 to 4,275 (3,007) Regressed Duration is 5 to 13 (8)				Qp: 37 cfs with Average Frequency 2 per season Regressed Volume is 104 to 275 (169) Regressed Duration is 2 to 7 (4)		Qp: 102 cfs with Average Frequency 2 per season Regressed Volume is 356 to 717 (505) Regressed Duration is 3 to 9 (6)																																								
	Qp: 74 cfs with Average Frequency 3 per season Regressed Volume is 288 to 689 (445) Regressed Duration is 4 to 11 (6)				Qp: 215 cfs with Average Frequency 3 per season Regressed Volume is 767 to 1,551 (1,091) Regressed Duration is 4 to 11 (6)				Qp: 5 cfs with Average Frequency 3 per season Regressed Volume is 13 to 34 (21) Regressed Duration is 1 to 4 (2)		Qp: 21 cfs with Average Frequency 3 per season Regressed Volume is 74 to 149 (105) Regressed Duration is 2 to 6 (4)																																								
	Qp: 28 cfs with Average Frequency 4 per season Regressed Volume is 117 to 280 (181) Regressed Duration is 3 to 9 (5)						Qp: 80 cfs with Average Frequency 4 per season Regressed Volume is 289 to 584 (411) Regressed Duration is 3 to 9 (5)																																												
	<table border="1"> <tr> <td colspan="3">14 (45.3%)</td> <td colspan="3">10 (57.0%)</td> <td colspan="2">8 (44.2%)</td> <td colspan="2">7.6 (52.0%)</td> </tr> <tr> <td colspan="3">9 (63.0%)</td> <td colspan="3">5.4 (72.5%)</td> <td colspan="2">3.4 (61.1%)</td> <td colspan="2">3.6 (68.3%)</td> </tr> <tr> <td colspan="3">4.8 (82.8%)</td> <td colspan="3">2.4 (84.8%)</td> <td colspan="2">1.4 (73.4%)</td> <td colspan="2">1.6 (78.5%)</td> </tr> <tr> <td colspan="3">0.05 (99.5%)</td> <td colspan="3">0 (100.0%)</td> <td colspan="2">0 (100.0%)</td> <td colspan="2">0 (100.0%)</td> </tr> </table>												14 (45.3%)			10 (57.0%)			8 (44.2%)		7.6 (52.0%)		9 (63.0%)			5.4 (72.5%)			3.4 (61.1%)		3.6 (68.3%)		4.8 (82.8%)			2.4 (84.8%)			1.4 (73.4%)		1.6 (78.5%)		0.05 (99.5%)			0 (100.0%)			0 (100.0%)		0 (100.0%)
14 (45.3%)			10 (57.0%)			8 (44.2%)		7.6 (52.0%)																																											
9 (63.0%)			5.4 (72.5%)			3.4 (61.1%)		3.6 (68.3%)																																											
4.8 (82.8%)			2.4 (84.8%)			1.4 (73.4%)		1.6 (78.5%)																																											
0.05 (99.5%)			0 (100.0%)			0 (100.0%)		0 (100.0%)																																											
Base Flows (cfs)	14 (45.3%)			10 (57.0%)			8 (44.2%)		7.6 (52.0%)																																										
	9 (63.0%)			5.4 (72.5%)			3.4 (61.1%)		3.6 (68.3%)																																										
	4.8 (82.8%)			2.4 (84.8%)			1.4 (73.4%)		1.6 (78.5%)																																										
Subsistence Flows (cfs)	0.05 (99.5%)			0 (100.0%)			0 (100.0%)		0 (100.0%)																																										
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct																																							
	Winter					Spring			Summer		Fall																																								

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1933 to 12/31/2009.

ARW19332009

Overbank Events	Qp: 3,660 cfs with Average Frequency 1 per year Regressed Volume is 10,886 to 24,871 (16,454) Regressed Duration is 7 to 21 (12)											
	Qp: 1,990 cfs with Average Frequency 2 per year Regressed Volume is 6,022 to 13,752 (9,100) Regressed Duration is 6 to 18 (11)											
High Flow Pulses	Qp: 900 cfs with Average Frequency 1 per season Regressed Volume is 2,704 to 6,507 (4,195) Regressed Duration is 6 to 18 (11)			Qp: 1,860 cfs with Average Frequency 1 per season Regressed Volume is 6,165 to 11,998 (8,600) Regressed Duration is 5 to 15 (9)			Qp: 392 cfs with Average Frequency 1 per season Regressed Volume is 1,061 to 2,794 (1,722) Regressed Duration is 4 to 13 (7)			Qp: 632 cfs with Average Frequency 1 per season Regressed Volume is 2,061 to 3,958 (2,856) Regressed Duration is 5 to 13 (8)		
	Qp: 289 cfs with Average Frequency 2 per season Regressed Volume is 960 to 2,305 (1,488) Regressed Duration is 5 to 14 (8)			Qp: 740 cfs with Average Frequency 2 per season Regressed Volume is 2,520 to 4,899 (3,513) Regressed Duration is 5 to 13 (8)			Qp: 55 cfs with Average Frequency 2 per season Regressed Volume is 145 to 382 (235) Regressed Duration is 2 to 8 (4)			Qp: 130 cfs with Average Frequency 2 per season Regressed Volume is 419 to 803 (580) Regressed Duration is 3 to 9 (5)		
	Qp: 91 cfs with Average Frequency 3 per season Regressed Volume is 334 to 803 (518) Regressed Duration is 4 to 11 (6)			Qp: 319 cfs with Average Frequency 3 per season Regressed Volume is 1,113 to 2,163 (1,551) Regressed Duration is 4 to 11 (7)			Qp: 8 cfs with Average Frequency 3 per season Regressed Volume is 22 to 57 (35) Regressed Duration is 1 to 4 (2)			Qp: 27 cfs with Average Frequency 3 per season Regressed Volume is 86 to 165 (119) Regressed Duration is 2 to 6 (4)		
	Qp: 42 cfs with Average Frequency 4 per season Regressed Volume is 165 to 396 (256) Regressed Duration is 3 to 9 (5)						Qp: 138 cfs with Average Frequency 4 per season Regressed Volume is 493 to 958 (687) Regressed Duration is 3 to 10 (6)					
	16 (47.2%)			12 (57.4%)			8.3 (43.2%)			8.3 (50.6%)		
11 (67.2%)			7.5 (72.4%)			3.8 (62.2%)			3.4 (67.2%)			
6.4 (83.2%)			3.2 (86.3%)			1.6 (73.5%)			1.5 (77.7%)			
0.3 (99.7%)			0 (100.0%)			0 (100.0%)			0.1 (93.8%)			
Base Flows (cfs)												
Subsistence Flows (cfs)												
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
Winter					Spring			Summer		Fall		

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1933 to 12/31/1969.

ARW19331969

Overbank Events	Qp: 4,040 cfs with Average Frequency 1 per year Regressed Volume is 14,094 to 32,103 (21,271) Regressed Duration is 8 to 24 (14)											
	Qp: 1,990 cfs with Average Frequency 2 per year Regressed Volume is 7,022 to 15,984 (10,594) Regressed Duration is 7 to 21 (12)											
High Flow Pulses	Qp: 536 cfs with Average Frequency 1 per season Regressed Volume is 1,941 to 4,662 (3,008) Regressed Duration is 6 to 18 (11)				Qp: 1,660 cfs with Average Frequency 1 per season Regressed Volume is 6,127 to 12,813 (8,860) Regressed Duration is 6 to 18 (10)				Qp: 136 cfs with Average Frequency 1 per season Regressed Volume is 439 to 1,142 (708) Regressed Duration is 4 to 11 (6)		Qp: 591 cfs with Average Frequency 1 per season Regressed Volume is 2,231 to 4,485 (3,163) Regressed Duration is 6 to 14 (9)	
	Qp: 181 cfs with Average Frequency 2 per season Regressed Volume is 696 to 1,669 (1,078) Regressed Duration is 5 to 15 (8)				Qp: 447 cfs with Average Frequency 2 per season Regressed Volume is 1,639 to 3,421 (2,368) Regressed Duration is 5 to 14 (8)				Qp: 21 cfs with Average Frequency 2 per season Regressed Volume is 64 to 168 (104) Regressed Duration is 2 to 7 (4)		Qp: 71 cfs with Average Frequency 2 per season Regressed Volume is 275 to 551 (389) Regressed Duration is 4 to 9 (6)	
	Qp: 51 cfs with Average Frequency 3 per season Regressed Volume is 210 to 504 (325) Regressed Duration is 4 to 11 (6)				Qp: 136 cfs with Average Frequency 3 per season Regressed Volume is 495 to 1,034 (715) Regressed Duration is 4 to 11 (6)						Qp: 18 cfs with Average Frequency 3 per season Regressed Volume is 71 to 142 (100) Regressed Duration is 3 to 7 (4)	
	Qp: 16 cfs with Average Frequency 4 per season Regressed Volume is 70 to 169 (109) Regressed Duration is 3 to 9 (5)				Qp: 44 cfs with Average Frequency 4 per season Regressed Volume is 159 to 332 (230) Regressed Duration is 3 to 9 (5)							
Base Flows (cfs)	11 (46.2%)				8.6 (55.5%)				7.6 (45.0%)		7 (53.1%)	
	6.9 (62.9%)				3.8 (73.5%)				3.2 (60.0%)		3.8 (68.9%)	
	3.8 (82.1%)				1.9 (83.7%)				1.2 (73.6%)		1.6 (79.9%)	
Subsistence Flows (cfs)	0.02 (99.3%)				0 (100.0%)				0 (100.0%)		0 (100.0%)	
	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
	Winter				Spring				Summer		Fall	

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1970 to 12/31/2009.

ARW19702009

Overbank Events	Qp: 1,320 cfs with Average Frequency 1 per year Regressed Volume is 3,937 to 9,015 (5,958) Regressed Duration is 8 to 23 (13)																						
	Qp: 663 cfs with Average Frequency 2 per year Regressed Volume is 2,005 to 4,588 (3,033) Regressed Duration is 7 to 19 (11)																						
High Flow Pulses	Qp: 220 cfs with Average Frequency 1 per season Regressed Volume is 691 to 1,601 (1,052) Regressed Duration is 6 to 17 (10)			Qp: 227 cfs with Average Frequency 1 per season Regressed Volume is 676 to 1,479 (1,000) Regressed Duration is 5 to 13 (8)			Qp: 21 cfs with Average Frequency 1 per season Regressed Volume is 62 to 155 (98) Regressed Duration is 3 to 8 (5)			Qp: 364 cfs with Average Frequency 1 per season Regressed Volume is 1,148 to 2,450 (1,677) Regressed Duration is 5 to 15 (9)													
	Qp: 59 cfs with Average Frequency 2 per season Regressed Volume is 196 to 453 (298) Regressed Duration is 4 to 13 (7)			Qp: 48 cfs with Average Frequency 2 per season Regressed Volume is 149 to 325 (220) Regressed Duration is 4 to 9 (6)			Qp: 6 cfs with Average Frequency 2 per season Regressed Volume is 15 to 39 (24) Regressed Duration is 2 to 6 (3)			Qp: 64 cfs with Average Frequency 2 per season Regressed Volume is 211 to 449 (308) Regressed Duration is 4 to 11 (6)													
	Qp: 18 cfs with Average Frequency 3 per season Regressed Volume is 63 to 145 (95) Regressed Duration is 3 to 9 (6)			Qp: 12 cfs with Average Frequency 3 per season Regressed Volume is 39 to 84 (57) Regressed Duration is 3 to 7 (4)			Qp: 2 cfs with Average Frequency 3 per season Regressed Volume is 6 to 15 (9) Regressed Duration is 1 to 4 (3)			Qp: 17 cfs with Average Frequency 3 per season Regressed Volume is 58 to 123 (84) Regressed Duration is 3 to 9 (5)													
	Qp: 6 cfs with Average Frequency 4 per season Regressed Volume is 23 to 53 (35) Regressed Duration is 3 to 7 (4)			Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 17 to 37 (25) Regressed Duration is 2 to 6 (4)			Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 17 to 36 (25) Regressed Duration is 2 to 7 (4)			Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 17 to 36 (25) Regressed Duration is 2 to 7 (4)													
	Qp: 6 cfs with Average Frequency 4 per season Regressed Volume is 23 to 53 (35) Regressed Duration is 3 to 7 (4)			Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 17 to 37 (25) Regressed Duration is 2 to 6 (4)			Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 17 to 36 (25) Regressed Duration is 2 to 7 (4)			Qp: 5 cfs with Average Frequency 4 per season Regressed Volume is 17 to 36 (25) Regressed Duration is 2 to 7 (4)													
Base Flows (cfs)	2.4 (46.9%)			2.3 (48.3%)			2.1 (42.1%)			2.1 (63.6%)													
	1.8 (67.1%)			1.7 (64.3%)			1.5 (61.7%)			1.6 (79.0%)													
	1.4 (85.5%)			1.3 (80.3%)			1.2 (76.5%)			1.3 (87.9%)													
Subsistence Flows (cfs)	0.79 (99.1%)			0.74 (94.8%)			0.74 (93.9%)			0.8 (98.6%)													
Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct	
Winter						Spring						Summer						Fall					

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1973 to 12/31/2009.

OCC19732009

Overbank Events	Qp: 605 cfs with Average Frequency 1 per year Regressed Volume is 1,533 to 5,075 (2,790) Regressed Duration is 6 to 23 (12)																						
	Qp: 173 cfs with Average Frequency 2 per year Regressed Volume is 450 to 1,485 (817) Regressed Duration is 5 to 17 (9)																						
High Flow Pulses	Qp: 14 cfs with Average Frequency 1 per season Regressed Volume is 47 to 171 (89) Regressed Duration is 3 to 12 (6)			Qp: 65 cfs with Average Frequency 1 per season Regressed Volume is 161 to 472 (275) Regressed Duration is 3 to 11 (6)			Qp: 17 cfs with Average Frequency 1 per season Regressed Volume is 46 to 142 (81) Regressed Duration is 3 to 9 (5)			Qp: 28 cfs with Average Frequency 1 per season Regressed Volume is 77 to 237 (135) Regressed Duration is 3 to 10 (5)													
	Qp: 7 cfs with Average Frequency 2 per season Regressed Volume is 21 to 78 (41) Regressed Duration is 2 to 9 (5)			Qp: 14 cfs with Average Frequency 2 per season Regressed Volume is 36 to 104 (61) Regressed Duration is 2 to 7 (4)			Qp: 4 cfs with Average Frequency 2 per season Regressed Volume is 12 to 37 (21) Regressed Duration is 2 to 6 (3)			Qp: 8 cfs with Average Frequency 2 per season Regressed Volume is 22 to 69 (39) Regressed Duration is 2 to 8 (4)													
	Qp: 4 cfs with Average Frequency 3 per season Regressed Volume is 11 to 40 (21) Regressed Duration is 2 to 7 (4)			Qp: 6 cfs with Average Frequency 3 per season Regressed Volume is 15 to 45 (26) Regressed Duration is 2 to 6 (3)			Qp: 2 cfs with Average Frequency 3 per season Regressed Volume is 6 to 19 (11) Regressed Duration is 2 to 5 (3)			Qp: 4 cfs with Average Frequency 3 per season Regressed Volume is 11 to 34 (19) Regressed Duration is 2 to 7 (3)													
	Qp: 3 cfs with Average Frequency 4 per season Regressed Volume is 9 to 33 (17) Regressed Duration is 2 to 7 (3)			Qp: 3 cfs with Average Frequency 4 per season Regressed Volume is 9 to 25 (15) Regressed Duration is 2 to 5 (3)			Qp: 2 cfs with Average Frequency 4 per season Regressed Volume is 5 to 15 (8) Regressed Duration is 1 to 5 (3)			Qp: 2 cfs with Average Frequency 4 per season Regressed Volume is 7 to 20 (11) Regressed Duration is 2 to 6 (3)													
	2.1 (46.2%)			1.9 (49.8%)			1.9 (48.0%)			2.1 (53.5%)													
	1.7 (64.3%)			1.6 (64.3%)			1.4 (66.9%)			1.5 (73.1%)													
1.3 (84.7%)			1.2 (82.0%)			1.1 (78.1%)			1.2 (83.7%)														
Subsistence Flows (cfs)	0.62 (98.9%)			0.52 (96.0%)			0.5 (94.3%)			0.55 (96.7%)													
Nov		Dec		Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sep		Oct	
Winter						Spring						Summer				Fall							

Flow Levels	High (75th %ile)
	Medium (50th %ile)
	Low (25th %ile)
	Subsistence

Notes:

1. Period of Record used : 1/1/1965 to 12/31/1996.

SFCA19651996