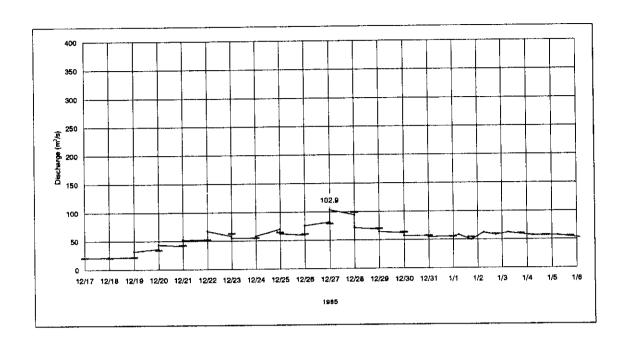
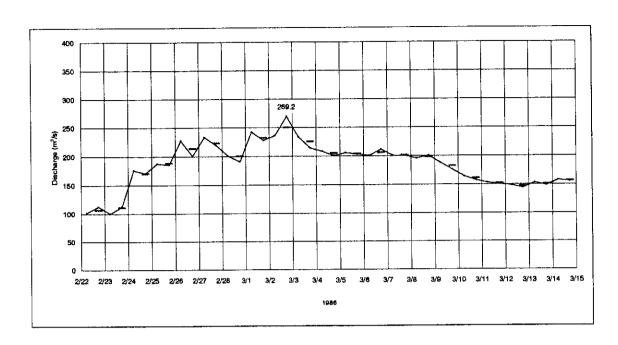
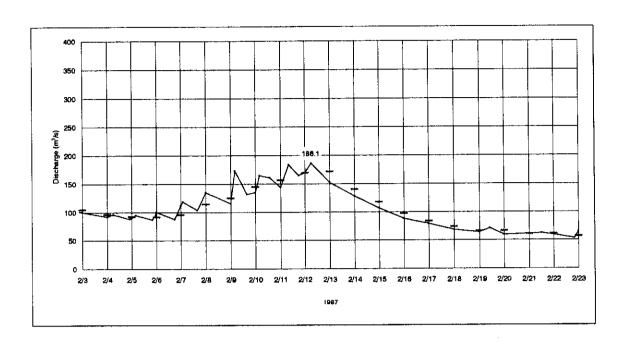
1.11 Discharge Hydrograph at Chavin Station



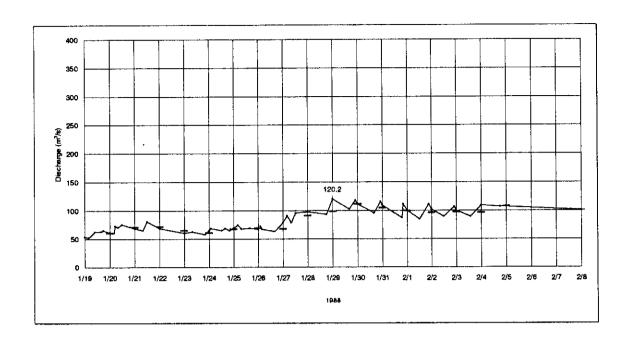
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Date/Time	Q	Daily C	L	Date/Time	-0	Daily Q
85/12/17 00:00	20.2	20.2	- 1			
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85/12/18 00:00	20.9	20.5	1			
85/12/18 00:00	21.6	ا۔ ۔۔ ا				
85/12/19 00:00	21,6	21.6				
85/12/19 00:00	31.7					
85/12/20 00:00	36.2	33.9	- 1			
85/12/20 00:00	43.2	40.4	- 1			
85/12/21 00:00	41.1	42.1	- 1			
85/12/21 00:00	52.0	*** *				
65/12/22 00:00	52.0 67.2	52.0			į	
85/12/22 00:00	58.0	52.6			1	
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85/12/24 00:00	58.0		- 1		1	
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85/12/25 00:00	61.9		- 1		1	
85/12/26 00:00	59.3	50.5				
85/12/26 00:00	75.6					
85/12/27 00:00	81.5	78.6	- 1			
85/12/27 00:00	102.9		Ì			:
85/12/28 00:00	94.4	98.6			1	1
85/12/28 00:00	71.3		- 1			
85/12/29 00:00	68.5	89.9				
85/12/29 00:00	64.5		l			
65/12/30 00:00	61.9	53.2	- 1		١.	
85/12/30 00:00	56.8	1	- 1		*	Į.
85/12/31 00:00	56.6	56.8	- 1			1
85/12/31 00:00	54.4		- 1		ì	l
85/01/01 00:00	55.6	55.0	- 1			
85/01/01 06:06	58.0]	- 1			
85/01/01 18:00	49.7	54.3	ŀ			
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85/01/02 18:00	56.0	59.4	1			
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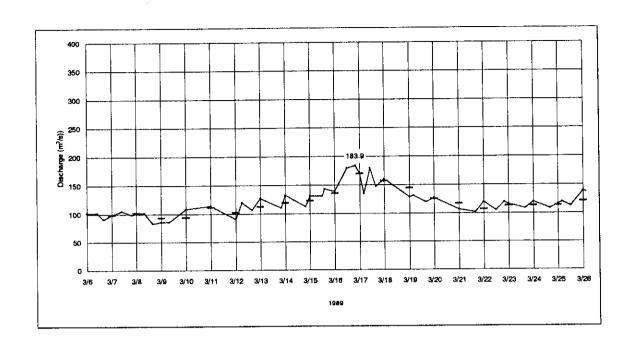
B6 Date/Time	Q	Daily C	Γ.	Date/Time	C	Daily Q
86/02/22 06:00	101.2		ľ			
86/02/22 18:00	111.9	105.9	- 1			
66/02/23 06:00	99.4		- 1			
86/02/23 18:00	111.9	110.4				
		110.4				
65/02/24 06:00	175.5				l	
86/02/24 18:00	170.8	170.2			i .	
86/02/25 06:00	187.8					
86/02/25 18:00	185.3	188.2	1			
85/02/25 05:00	227.7	1	ı			
85/02/26 18:00	200.5	213.6				1
86/02/27 06:00	233.4		- 1			
85/02/27 18:00	219.4	223.2				
66/02/28 06:00	200.6				1	
86/02/2B 18:00	190.4	199.9			ł	
86/03/01 06:00	242.1				1	
	227.7	232.2				
86/03/01 18:00		232.2	- 1			
86/03/02 06:00	236.3		- 1			1
86/03/02 18:00	269.2	249.9	- 1			1
86/03/03 96:00	233.4		- 1		1	
86/03/03 18:00	213.9	225.6			1	1
65/03/04 06:00	208.5				l .	
86/03/04 18:00	200.6	205.3			1	
66/03/05 06:00	205.₽				1	
86/03/05 18:00	203.2	204.1				
	200.5	204.1				
86/03/06 06:00						Į.
86/03/06 18:00	211.2	205.4				1
86/03/07 96:00	200.6		1			
86/03/07 18:00	200.6	201.0				
85/03/08 06:00	195.5				1	
85/03/08 18:00	200.6	197.6			1	
86/03/09 05:00	187.8				i	
86/03/09 18:00	175.5	181.8				ļ
86/03/10 06:00	163.7					1
66/03/10 18:00	156.9	160.8				
		,00.6	1			1
A6/03/11 06:00	152.4		l i			
85/03/11 18:00	150.2	151,5				
85/03/12 06:00	148.0				ļ	
85/03/12 18:00	143.7	145,6)	
85/03/13 06:00	152.4				1	
85/03/13 16:00	148.0	150.2	1			
86/03/14 06:00	156.9		[1	1
86/03/14 18:00	154.7	155.8			1	1
50/03/14 18.00	104.7	,,,,,,,			1	1
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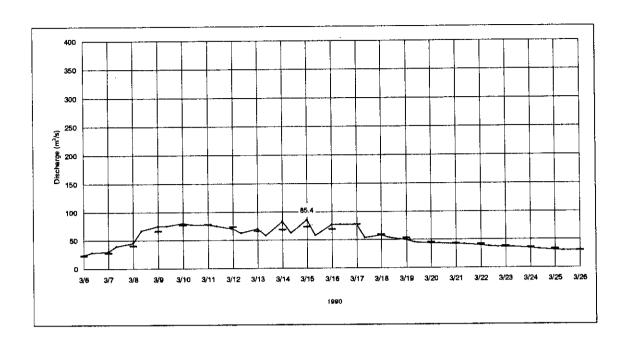
Date/Time	Ω	Daily C	Date/Time	Q .	Daily 1
87/02/02 00:00	108.9				1
7/02/03 00:00	100.0	104.5	1	1	
7/02/05 00:00	100.0	l	1	ŀ	1
7/02/04 00:00	91.6	95.8		1	1
7/02/04 00:00	91.6	1		1	
7/02/04 06:00	95.7	1		1	1
7/02/04 22:00	87.5				1
07/02/05 00:00	89.6	91.9			1
87/02/05 00:00	89.6				
87/02/05 04:00	94.7		Į.		
67/02/05 20:00	66,6		ļ	L	
87/02/06 00:00	97.8	91.2	1	Į.	
67/02/05 00:00	100.4		1	1	
67/02/06 18:00	87.3	1		1	į.
87/02/07 00:00	111.9	95.3			1
87/02/07 00:00	111.9	30.5			1
87/02/07 02:00	116.0				
87/02/07 15:00	103.2				
87/02/08 00:00	134.8	113.7	1		1
87/02/08 00:00	134.5	(1.5.7	1	[
87/02/08 00:00 87/02/09 00:00	114.9	124.8	1	1	1
		124,0		1	
87/02/09 00:00	114.9 173.0	ì		i	ł
67/02/09 04:00		1		1	1
67/02/09 16:00	131.1				i
87/02/10 00:00	134.5	144.3			
67/02/10 00:00	134.5				
67/02/10 04:00	164.7				
87/02/10 14:00	160.7		ł		
87/02/11 00:00	143,5	156.1	1		
87/02/11 00:00	143.5		Ī		
87/02/11 08:00	183.9			į	1
87/02/11 16:00	164.7	l l		1	1
87/02/12 00:00	168.6	168.9			1
87/02/12 00:00	158.8	ľ			
87/02/12 06:00	186.1				
87/02/13 00:00	152.9	171.5			
87/02/13 00:00	152.0				
67/02/14 00:00	128.0	140.0	Ī		
87/02/14 00:00	128.0		1		
a7/02/15 00:00	106.5	117.5		1	
87/02/15 00:00	106.5			1	1
87/02/16 00:00	87.6	97.1			1
87/02/16 00:00	87.6				
87/02/17 00:00	79.1	83.4			
87/02/17 00:00	79.1				1
87/02/18 00:00	66.0	73.5			
87/02/18 00:00	68.0	'			
67/02/19 00:00	63.6	65.8			
87/02/19 00:00	63.6	""			1
67/02/19 10:00	71.0		1	1	ļ
87/02/10 10:00	59.3	66.1	1	1	1
		00.1		1	}
87/02/20 00:00	59.3	أمممأ	1	1	
67/02/21 00:00	60.7	60.0			1
67/02/21 00:00	60.7	l i	1	1	1
67/02/21 12:00	62.1				1
87/02/22 00:00	59.3	61.1			1
87/02/22 00:00	59.3	} I			1
87/02/22 20:00	52.7] I			1
87/02/23 00:00	65.0	56.5			1
		[]	1		1
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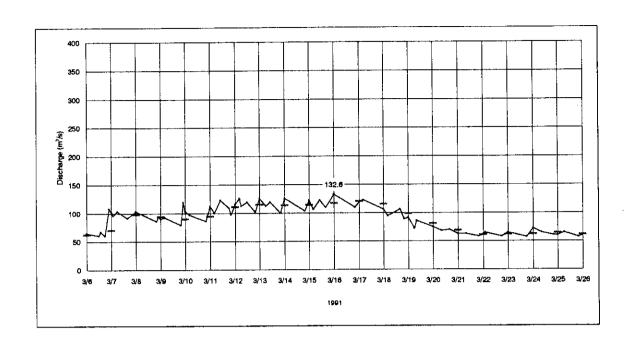
Date/Time	a	Delty 0	Date/Time	Q	Daily Q
88/01/19 00:00	53.5		88/02/02 12:00	88.75254	
88/01/19 04:00	52.7		88/02/02 22:00	106.2374	
88/01/19 10:00	62.3		88/02/03 00:00	99,52688	96.82039
A8/01/19 16:00	63.2		86/02/03 00:00	99.52688	
88/01/19 18:00	65.0		88/02/03 14:00	88.75254	
88/01/20 00:00	61.4	60.0	66/02/04 00:00	108,5148	95.01219
88/01/20 00:00	51.4	ŀ	88/02/04 00:00	108.5148	
88/01/20 04:00	60.5	1	88/02/04 18:00	106.2374	_
88/01/20 05:00	72.6	į	88/02/05 00:00	106.2374	107.0914
88/01/20 08:00	70.7	1	88/02/13 00:00	90.85507	
88/01/20 12:00	75.5		88/02/13 18:00	96.24049	
88/01/21 00:00	68.8	70.1	88/02/14 00:00	88,75254	93.26909
88/01/21 00:00	6.60		i		
88/01/21 08:00	65.0		1		
68/01/21 12:00	80.5				
88/01/22 00:00	68.8	71.8			
86/01/22 00:00	68.8				
88/01/23 00:00	60.5	64.6			
88/01/25 00:00	60,5				
88/01/23 08:00	62.3		1		
88/01/23 20:00	57.8		1		
88/01/24 00:00	55.0	60.7	1		
88/01/24 00:00	55.0				
88/01/24 02:00	58.8				
88/01/24 12:00	55.0				
88/01/24 16:00	58.8				
88/01/24 20:00	55.0				
88/01/25 00:00	68.8	66.9	j		
88/01/25 00:00	58.8		1		
88/01/25 04:00	74.5		1	1	
88/01/25 08:00	67.8			ĺ	
86/01/25 15:00	58.8			1	
88/01/25 00:00	66.9	69.2			
86/01/26 00:00	66.9				•
88/01/26 02:00	72.6				
88/01/26 04:00	66.9				l
88/01/26 15:00	5 3.2				
88/01/27 00:00	78.5	67.8			
88/01/27 00:00	78.5				
88/01/27 04:00	90.9		i		
88/01/27 08:00	78.5				
88/01/27 12:00	95.2				
88/01/28 00:00	97.3	90.8			
88/01/28 00:00	97.3			ł	1
88/01/28 18:00	93.0			l .	
88/01/29 00:00	120.2	98.0		1	
88/01/29 00:00	120.2]
88/01/29 16:00	101.7	ì			1
88/01/29 22:00	117.8	1			l
88/01/30 00:00	110.8	111.0			İ
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68/01/31 00:00	108.5	104.5			
88/01/31 00:00	108.5				
86/01/31 19:00	86.7				
88/01/31 20:00	110.8				
88/02/01 00:00	99.5	98,9			
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88/02/01 00:00	99.5				
3	99,5 64.6			}	
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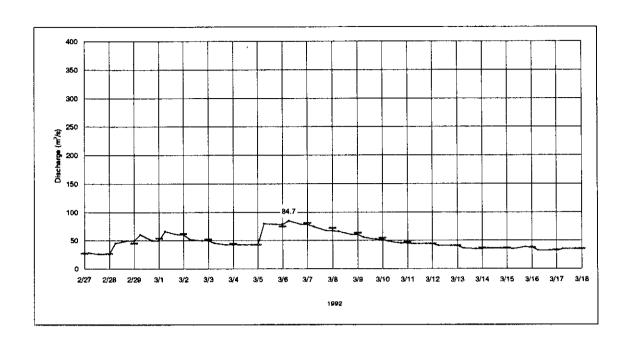
Date/Time	0	Daily Q	Date/Time	Q	Dely C
89/03/05 00:00	101.6		89/03/25 00:00	115.4985	
89/05/05 10:00	101.5		89/05/25 04:00	119.1668	
89/03/06 16:00	90.4	L	89/03/25 12:00	111.9063	
89/03/07 00:00	98.3	97.8	89/03/26 00:00	138.685	120.715
89/03/07 00:00	98.3		89/03/26 00:00	138.685	
89/03/07 10:00	104.9	1	89/03/26 14:00	130.6393	
89/03/07 20:00	98.3		69/03/26 16:00	151.3562	
89/03/08 00:00	101.6	101.3	89/03/27 00:00	155.7598	141,490
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89/03/10 00:00	108.4		1		
89/03/11 00:00	113.7	111.0	1		
89/03/11 00:00	113.7				
89/03/12 00:00	90.4	102.0			}
89/03/12 00:00	90.4		[1	
89/03/12 06:00	119.2				l
69/03/12 15:00	106.7				l
89/03/13 00:00	126.7	112.1			
89/03/13 00:00	126.7				
89/03/13 20:00	110.1	k			
89/03/14 00:00	132.6	118,9		ŀ	
89/03/14 00:00	132.6	1,2.0	1	į.	
89/03/14 20:00	111.9	1]	1	
89/03/15 00:00	130.6	122.1			
89/03/15 00:00	130.6	,			
89/03/15 12:00	130.6				
89/03/15 14:00	142.8	i I			
89/03/15 00:00	138.7	135,4			
89/03/16 00:00	138.7	1,35,4			1
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89/03/17 00:00	169.5				
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89/03/17 16:00	147.1	<u>,</u> _]		ļ	
89/03/18 00:00	150.2	156.5			1
89/03/16 00:00	150.2				
89/03/19 00:00	128.7	144.5			
89/03/19 00:00	128.7				
B9/03/19 04:00	130.6	1 1		1	1
89/03/19 16:00	119.2	1			
89/03/20 00:00	126.7	125,0			1
69/03/20 00:00	126.7			1	l
69/03/21 00:00	105.7	116.7	1		1
89/03/21 00:00	106.7			1	
89/08/21 15:00	101.6		1	1	
89/03/22 00:00	119.2	106.2		1	
89/03/22 00:00	119.2			1	1
89/03/22 12:00	104,9	1		1	
89/03/22 20:00	119.2	1		1	1
89/03/23 00:00	115.5	112.9		1	1
89/03/23 00:00	115.5	[1	1
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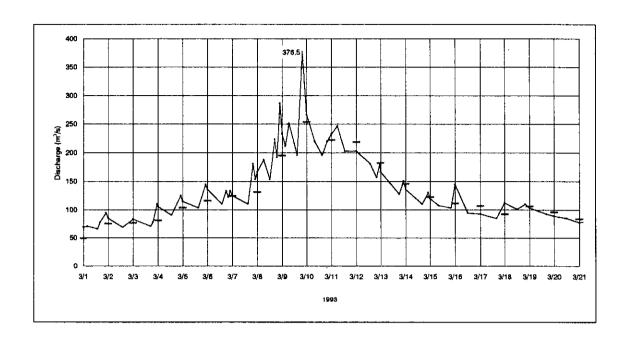
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90/03/06 00:	00 23.8					
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90/03/07 00:	00 29.6	27.9	1 1			
90/03/07 00:	00 29.6					l
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90/03/14 00						1
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90/03/15 00						
90/03/15 08	:00 57.9					
90/03/16 00	:00 77.3	68.9	1 1			
90/03/16 00	:00 77.3	ł	1 1		ļ	1
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90/03/17 00	1:00 77.3	77.3	1		1	
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90/03/22 00			1			
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90/03/24 00	0:00 34.4	35.6	3		1	1
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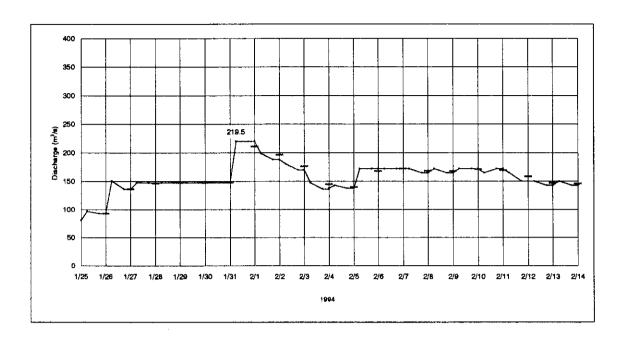
Date/Time	0	Daily Q	Date/Time	Q	Daily C
91/00/05 00:00	54.8		91/03/19 00:00	91.0	
91/03/05 18:00	59.0		91/03/19 06:00	72.1	
91/03/06 00:00	54.8	61.9	91/03/19 08:00	85.4	
91/03/06 00:00	64.8		91/03/20 00:00	74.7	80.3
91/03/06 12:00	60.1		91/03/20 00:00	74.7	
91/03/05 14:00	67.2		91/03/20 08:00	58.4	
91/03/05 18:00	60.1		91/03/20 15:00	69.6	
B1/03/06 22:00	107.6		91/03/21 00:00	62.4	6.9
91/03/07 00:00	102.9	69.9	91/03/21 00:00	62.4	
91/03/07 00:00	102.9		91/03/21 08:00	62.4	
91/03/07 02:00	95.4		91/03/21 20:00	57.9	
91/03/07 06:00	102.9		91/03/22 00:00	61.3	60.8
91/03/07 16:00	91.0		91/03/22 00:00	51.3	
91/03/08 00:00	102.9	97.5	91/03/22 02:00	64.8	
91/03/08 00:00	102.9		91/03/22 18:00	57.9	
91/03/08 20:00	85.4		91/03/23 00:00	54.8	61.5
91/03/08 22:00	93.9		91/03/23 00:00	64.8	
91/03/09 00:00	89.6	93.5	91/03/23 18:00	56.8	
91/03/09 00:00	89.5		91/03/24 00:00	72.1	61.7
91/03/09 04:00	92.5		91/03/24 00:00	72.1	
B1/03/09 20:00	78.6		91/03/24 08:00	54.8	
91/03/09 22:00	118.9		91/03/24 20:00	80.1	
91/03/10 00:00	102.9	89.7	91/03/25 00:00	50.1	54.1
91/03/10 00:00	102.9	OP. /	91/03/25 00:00	60.1	 /
	96.9		91/03/25 06:00	64.8	
91/03/10 04:00				56.8	
91/03/10 20:00	85.4		91/03/25 20:00	60.1	60.8
01/03/11 00:00	112.3	93.9	91/03/26 00:00	00.1	00.8
91/03/11 00:00	112.3				
91/03/11 04:00	99.9				
91/03/11 10:00	122.3				
91/03/11 18:00	109.1	ļ			
91/03/11 20:00	96.9	i			Į.
91/03/12 00:00	115.0	110.3			[
91/03/12 00:00	115.6				•
91/03/12 04:00	125.7				i
91/03/12 05:00	112.3			i	
91/03/12 12:00	118.9			j .	
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01/03/15 00:00	125.7	114.6	.	l l	
91/03/13 00:00	125.7	ì	: I	1	
91/03/13 05:00	112.3	1			
91/03/13 10:00	118.9	1		1	
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91/03/14 00:00	125.7	1	 		1
91/03/14 20:00	102.9				1
		114.0		1	İ
91/03/15 00:00	122.3	114.0		1	I
91/03/15 00:00	122.3			1	
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91/03/15 10:00	122.3				
91/03/15 16:00	109.1		ļ I	1	I
91/03/16 00:00	132.6	116.8	1 1	I	I
91/03/16 00:00	132.6	1			
91/03/16 20:00	109.1	1			
91/03/17 00:00	118.9	119.7		I	I
91/03/17 00:00	116.0				
91/03/17 04:00	122.3				
	105.0	115.2		1	1
91/03/18 00:00			1 1	ı	1
	1050		l l	3	
81/03/18 00:00	105.0 93.9				
91/03/18 00:00 91/03/18 04:00	93.9				
81/03/18 00:00					



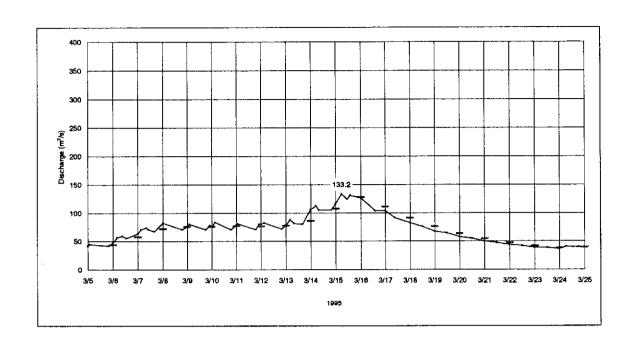
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92/02/27 04:00	28.0		92/03/14 00:00	35.1	
92/02/27 14:00	25.9		92/03/14 06:00	36.0	
92/02/28 00:00	25.9	26,7	92/03/14 18:00	36.0	
92/02/28 00:00	25.9		92/05/15 00:00	36.0	35.1
92/02/28 05:00	44.0		B2/03/18 00:00	36.0	
92/02/28 18:00	4D.B		92/03/15 06:00	35.1	
92/02/29 00:00	49.8	45.0	92/03/15 18:00	36.5	
92/02/29 00:00	49.8		92/03/16 00:00	38.5	36.9
92/02/29 06:00	60.4		92/03/16 00:00	36.5	
92/02/29 18:00	49.8		92/03/16 05:00	31.9	
92/03/01 00:00	49.8	53.8	92/03/16 18:00	31.9	
92/93/01 90:00	49.8		92/03/17 00:00	31.9	32.
92/03/01 06:00	55.1		92/03/17 00:00	31,9	
92/03/01 18:00	60.4		92/03/17 05:00	35.1	
92/03/02 00:00	60.4	61.2	92/03/17 18:00	35.t	
92/03/02 00:00	50.4		92/03/18 00:00	35.1	34.1
92/03/02 06:00	51.8		92/03/18 00:00	35.1	
92/03/02 18:00	49.8		92/03/18 06:00	35.1	
92/03/03 00:00	49.8	51.9	92/03/18 18:00	35.1	
92/03/03 00:00	49.8		92/03/19 00:00	35.1	35.
92/03/03 06:00	44.9				
92/03/03 18:00	42.1				
92/03/04 00:00	42.1	44.1	j		
92/03/04 00:00	42.1			i	
92/03/04 05:00	42.1		i	1	
92/03/04 18:00	42.1			1	
92/03/05 00:00	42.1	42.1	· ·	1	
92/03/05 00:00	42.1				
92/03/05 06:00	79.5		ł		
92/03/05 16:00	78.2		į		
92/03/06 00:00	78.2	74.2			
P2/03/06 00:00	78.2	,			
92/03/00 06:00	84.7				
92/03/06 18:00	78.2				
92/03/07 00:00	78.2	80.7			
92/03/07 00:00	78.2				
92/03/07 06:00	74.5			'	
92/03/07 18:00	67.2			l .	
92/03/04 00:00	67.2	71.3			1
92/03/08 00:00	67.2	71.3		1	
92/03/08 06:00			1		}
	66.1		1		
92/03/08 18:00	60.4		1		
92/03/09 00:00	80.4	63.4	1		
92/03/09 00:00	50.4		1	1	
92/03/09 06:00	55.0			1	
92/03/09 18:00	51.8	!			
92/03/10 00:00	51.8	54.1		i .	
92/03/10 00:00	51.6	ļ		1	
92/03/10 05:00	47.6				
92/03/10 18:00	44.9				
92/03/11 00:00	44.9	45.9	1		
92/03/11 00:00	44.9	:	1		
92/03/11 96:00	44.0				
92/03/11 18:00	44.0				
92/03/12 00:00	44.0	44.1			
92/03/12 00:00	44.0				
92/03/12 08:00	40.3				
92/03/12 18:00	40.3				
92/03/13 00:00	40.3	40.8			
92/03/15 00:00	40.3	.5.0			
92/03/13 05:00	36.0	l	l l	l	



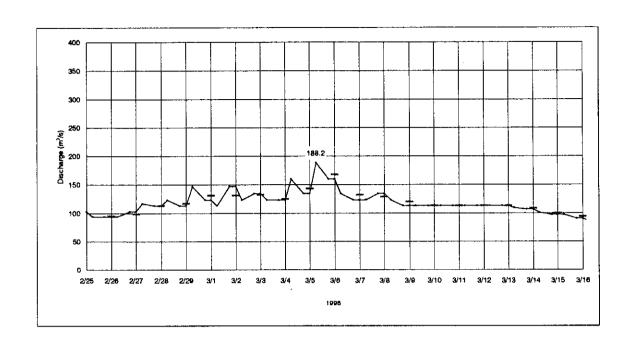
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23/03/01 00:00	58.9		93/03/14 00:00	135.6	145.2
G/01 D4:00	70.5		93/03/14 00:00	135.6	
/01 14:00	65.8		93/03/14 16:00	109.6	
/03/01 15:00	77.2		93/03/14 22:00	130.1	
/03/01 22:00	94.3		93/03/15 00:00	119.6	122.2
/03/02 00:00	84.5	74.9	93/03/15 00:00	119.6	
3/03/02 00:00	84.5		93/03/15 06:00	107.5	
3/03/02 14:00	68.9		93/03/15 20:00	102.9	
9/03/03 00:00	62.6	75.3	93/03/16 00:00	144.3	111.0
/03/03 00:00	82.6		93/03/16 00:00	144.3	
3/03/03 17:00	70.5		93/03/16 12:00	94.3	
/03/03 19:00	77.2		93/03/17 00:00	92.3	106.3
3/03/03 23:00	109,8		93/03/17 00:00	92.3	
3/03/04 00:00	105.2	80.4	93/03/17 16:00	84.5	
3/03/04 00:00	105.2		93/03/18 00:00	112.2	91.7
3/03/04 13:00	90.3		99/03/18 00:00	112.2	
3/03/04 22:00	124.7		93/03/18 12:00	100.7	
3/03/05 00:00	114.6	103.2	93/03/18 20:00	109.6	
3/03/05 00:00	114.5		93/03/19 00:00	102.9	106.0
3/03/05 15:00	102.9		93/03/19 00:00	102.9	
3/03/05 22:00	144.3		93/03/19 15:00	92.3	
3/03/06 00:00	135.6	115.7	93/03/20 00:00	88.3	95.2
3/03/06 00:00	135.6	7.0.0	93/03/20 00:00	88.3	
3/03/06 14:00	109.8		93/03/20 12:00	84.5	
3/03/06 18:00	132.8		93/03/21 00:00	77.2	83.0
3/03/05 20:00	122.1		93/03/21 00:00	77.2	63.0
3/03/06 22:00	132.8		93/03/21 11:00	80.8	
3/03/07 00:00		100.0			
	124.7	123.8	93/03/21 21:00	75.5	
3/03/07 00:00	124.7		93/03/22 00:00	79.0	78.4
03/07 15:00	109.8			1	
3/03/07 20:00	180.3		1		
03/07 22:00	153.5			!	
3/03/06 00:00	166.4	130.8			
3/03/08 00:00	156.4				
3/03/06 06:00	187.7				
3/03/08 12:00	153.5			1	
3/08/08 17:00	223.8				
3/03/08 19:00	191.4				
3/09/08 22:00	286.4		1		
3/03/09 00:00	232.6	195.0			
3/03/09 00:00	232.6				
3/03/09 03:00	211.1				
3/03/09 07:00	251.0				
3/03/09 15:00	195.2				
3/03/09 20:00	376.5				
3/03/10 00:00	265.7	253.7			
3/03/10 00:00	265.7				
3/03/10 08:00	219.5				
3/03/10 15:00	195.2		Į		
3/03/10 20:00			1		
3/03/10 20:00	219.5 232.6	***			
_, ,		222.2	1		
3/03/11 00:00	232.6				
3/03/11 05:00	246.3				
3/03/11 13:00	203.1				
3/03/12 00:00	203.1	218.5			
3/03/12 00:00	203.1	j			
3/03/12 14:00	180.3	1			
3/03/12 20:00	156.6				
3/03/12 23:00	180.3				
3/03/13 00:00	166.4	182.2			
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3/03/13 00:00	166.4	I	1		



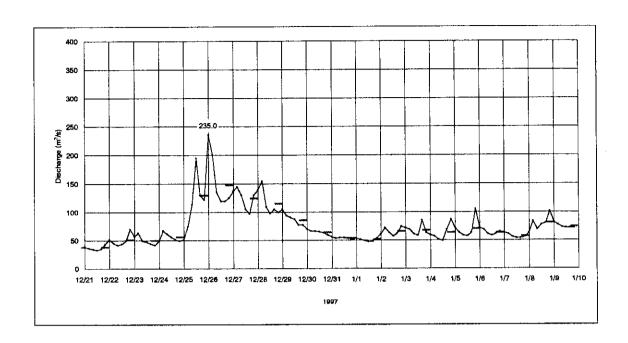
	71.7	Deliy Q 170.8
	71.7	170 8
		170.6
94/01/25 05:00 96.4 94/02/10 00:00 1	71.7	
94/01/25 18:00 92.3 94/02/10 06:00 1	64.3	
94/01/25 00:00 92.3 92.4 94/02/10 18:00 1	71.7	
94/01/26 00:00 92.3 94/02/11 00:00 1	71.7	168.9
	71.7	
	64.3	
	49.8	
	49.8	158.0
	49.8	130.5
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	49.8	
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	42.8	146.3
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94/01/29 00:00 147.3 94/02/14 00:00 1	42.8	145.4
94/01/29 05:00 147.3 94/02/14 00:00 1	42.8	
94/01/29 18:00 147.3 94/02/14 06:00 1	49.8	
94/01/30 00:00 147.3 147.3 94/02/14 18:00	42.8	
	42.8	145.4
94/01/30 06:00 147.3	.	
94/01/30 18:00 147.3		
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94/01/31 00:00 147.3		
94/01/31 06:00 219.5		
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94/02/01 00:00 219.5 210.5		
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94/02/01 08:00 199.1		
94/02/01 18:00 187.7		
94/02/02 00:00 187.7 195.9		
94/02/02 00:00 187.7		
P4/02/02 06:00 180.3		
94/02/02 18:00 189.8		
94/02/03 00:00 169.8 176.0		
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94/02/03 05:00 147.3		
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94/02/04 00:00 137.3		
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94/02/04 18:00 137.3	1	
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94/02/05 06:00 171.7	1	
94/02/05 18:00 171.7	1	
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94/02/06 00:00 171.7		
94/02/06 06:00 171.7	1	
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94/02/07 00:06 171.7 171.7	1	
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94/02/07 06:00 171.7	1	
94/02/07 18:00 154.3	1	
94/02/08 00:00 164.3 168.0	1	
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94/02/08 06:00 171.7	1	
94/02/08 18:00 164.3	1	
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94/02/09 08:00 171.7	1	
94/02/09 18:00 171.7		



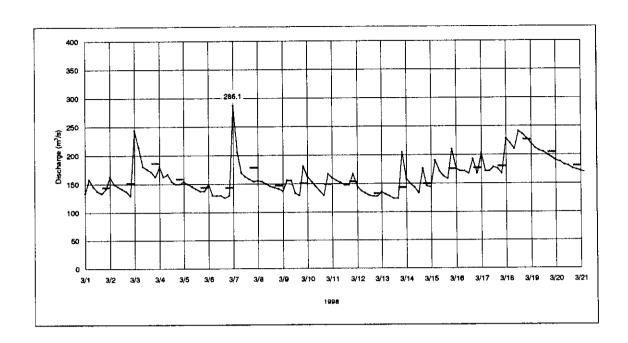
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Date/Time	Q	Deily Q		Date/Time	0	Dally Q	
95/03/05 00:00	41.7			95/03/20 00:00	57.3	l	
95/03/05 02:00	44.3			95/03/20 12:00	54.4		
95/03/05 20:00	41.7			95/03/21 00:00	49.7	53.9	
95/03/06 00:00	47.0	43.3		95/05/21 00:00	49.7		
95/03/06 00:00	47.0			95/03/21 12:00	47.0		
95/03/06 04:00	56.3			95/03/22 00:00	43.5	46.8	
95/03/06 09:00	59.2		1	95/03/22 00:00	43.5		
95/03/06 13:00	55.3			95/03/22 12:00	41.7		
95/03/07 00:00	63.2	57.3	ĺ	95/03/23 00:00	38.4	41.3	
95/03/07 00:00 95/03/07 00:00	63.2	37.0		95/03/23 00:00	38.4	. 47.5	
95/03/07 03:00	70.4			95/03/23 12:00	38.4		
95/03/07 08:00				95/03/24 00:00	35.9	37. a	
	73.6	i			35.9	37.6	
95/03/07 10:00	70.4	1		95/03/24 00:00			
95/03/07 16:00	67.3			95/03/24 06:00	40.0		
95/03/08 00:00	82.4	71.5		95/03/24 18:00	39.2		
95/03/08 00:00	82.4			95/03/25 00:00	39.2	39.1	
95/03/08 19:00	70.4			95/03/25 00:00	39.2	l	
95/03/09 00:00	75,7	75.7		95/03/25 06:00	40.9	i	
95/03/09 00:00	75.7			95/03/25 18:00	40.B	1	
95/03/09 02:00	80.1			95/03/25 00:00	40.9	40.7	
95/03/09 18:00	70.4						
95/03/09 22:00	77.9						
95/03/10 00:00	75.7	75.4					
95/03/10 00:00	75.7						
95/03/10 03:00	83.5						
95/03/10 19:00	70.4				j l		
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95/05/12 00:00	80.1	76.3					
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95/03/12 03:00	62.4		l				
95/03/12 20:00	71.5		i				
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95/03/13 00:00 95/03/13 00:00	77.9 77.9	77.3					
95/03/13 04:00	88.0						
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95/03/14 00:00	105.0	85.8	ĺ				
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95/03/14 20:00	104.7		ĺ				
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95/03/15 00:00	115.0		ĺ	1			
95/03/15 06:00	133.2		l	1			
95/03/15 11:00	123.8		ĺ	İ	1		
95/03/15 14:00	130.5		ĺ		1		
95/03/16 00:00	125.5	127.3	ĺ		1		
95/03/16 00:00	125.5	,	ĺ]		
95/03/16 14:00	103,5		ĺ		}		
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95/03/17 00:00	103.5	110.2	ĺ		f		
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95/03/17 09:00	91.5		ĺ				
95/03/18 00:00	82.4	90.9	l	1	[
95/03/18 00:00	62.4		l				
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95/03/19 00:00	67.3	75.3	!				
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95/03/19 12:00	54.2	1	ĺ	1	1		
95/03/20 00:00	57.3	63.2	•		i		



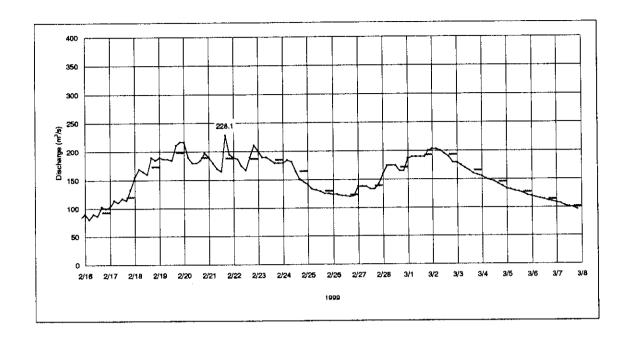
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Date/Time	Q.	Daily C		Sate/Time	a	Davily C
96/02/25 00:00	102.7		1	96/03/12 00:00	112.5	112.5
95/02/25 05:00	93.5		!	96/03/12 00:00	112.5	
96/02/25 18:00	93.5		i I	96/03/12 05:00	112.5	
96/02/26 00:00	95.5	94.7		96/03/12 18:00	112.5	
96/02/26 00:00	93.5		i i	95/03/13 00:00	112.5	112.5
95/02/25 05:00	93.5			95/03/13 00:00	112.5	
96/02/26 18:00	102.7			96/03/13 05:00	108.5	
96/02/27 00:00	102.7	98,1		96/03/13 18:00	106.5	
95/02/27 00:00	102.7			98/03/14 00:00	106.5	108,0
96/02/27 06:00	116.6			96/03/14 00:00	106.5	
96/02/27 18:00	112.5			96/03/14 06:00	100,8	
96/02/28 00:00	112.5	112.6		96/03/14 18:00	97.1	
98/02/28 00:00	112.5	1,72.0		95/03/15 00:00	97.1	99.7
96/02/28 05:00	123.0			96/03/15 00:00	97.1	34
96/02/28 18:00	112.5			96/03/15 06:00	97.1	
96/02/29 00:00	112.5	116.4		96/03/15 18:00	90.1	
96/02/29 00:00	112.5	110,4		95/03/15 00:00	90.1	93.6
					90.1	93.0
96/02/29 06:00	146.5			96/03/16 00:00		
96/02/29 18:00	123.0			96/03/16 06:00	85.1	
96/03/01 00:00	123.0	130.5		96/03/16 18:00	80.3	
95/03/01 00:00	123.0			96/03/17 00:00	80.3	83.5
98/03/01 08:00	112.5			ŀ	j l	
96/03/01 18:00	146.5		l i	[!	
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96/03/04 00:00	123.0	124.4	1 '	1		
96/03/04 00:00	123.0					
96/05/04 06:00	159.5			ł		
96/03/04 18:00	134.4					
95/03/05 00:00	134.4	142.4				
95/03/05 00:00	134.4					
96/03/05 06:00	188.2					
96/03/05 18:00	159.5					
96/03/06 00:00	159.5	167.1				
96/03/06 00:00	159.5	107.1				l .
96/03/06 06:00	134.4					
96/03/06 18:00	123.0					
96/03/07 00:00	123.0	131.6	1			
95/03/07 00:00	123.0	I	1	l		l
95/03/07 06:00	123.0	l	1	l		l
P5/03/07 18:00	134.4		l	1		!
96/03/08 00:00	134.4	128.7	1	l		!
96/03/08 00:00	134.4	l	1	l		l
96/03/08 06:00	123.0	l	1	l	i	1
96/03/08 18:00	112.5	l	1	l		f
96/03/09 00:00	112.5	119.2	ŀ	l	1	ļ
96/03/09 00:00	112.5	l	1	ļ	1	1
95/03/09 05:00	112.5	l	l	l	1	1
95/03/09 18:00	112.5		1		į.	1
96/03/10 00:00	112.5	112.5	1		1]
		"16.5	ł	l	1	1
96/03/10 00:00	112.5	l	į.		1	l
95/03/10 06:00	112.5		1		1	1
96/03/10 18:00	112.5		1	1	1	1
95/03/11 00:00	112.5	112.5	l		Í	ĺ
96/03/11 00:00	112.5	l	1	!	1	
96/03/11 06:00	112.5	l	1		i	1
96/03/11 16:00	112.5	L	j	L	<u>i</u>	l



97/12/20 00:00 97/12/20 04:00 97/12/20 08:00	30.6 31.3		97/12/30 12:00 97/12/30 16:00	64.5 63.2	
97/12/20 08:00	51.3		07400004400	40.0	
		t t			
	20.9		97/12/30 20:00	59.4	63.
/20 12:00	29.9	i	97/12/31 00:00	55.6	
/12/20 16:00	32.8		97/12/31 04:00	53.5	
12/20 20:00	37.7	32.7	97/12/31 08:00	54.7	
/12/21 00:00	38.6	1	97/12/31 12:00	54.7	
7/12/21 04:00	36.0		97/12/31 16:00	53.5	
/12/21 08:00	34.4		97/12/31 20:00	51.3	53.
//12/21 12:00	32.6		98/01/01 00:00	53.5	
7/12/21 16:00	34.4		98/01/01 04:00	51.3	
7/12/21 20:00	43.1	37.6	98/01/01 08:00	49.2	
7/12/22 00:00	51.3		98/01/01 12:00	47.1	
7/12/22 04:00	45.1		98/01/01 16:00	48.1	
7/12/22 08:00	41.3	l.	98/01/01 20:00	53.5	51.
7/12/22 12:00	43.1	l l	98/01/02 00:00	60.7	
//12/22 16:00	49.2		98/01/02 04:00	71.3	
7/12/22 20:00	60.0	50,5	98/01/02 08:00	63,2	
7/12/23 00:00	57.0		98/01/02 12:00	57.0	
7/12/23 04:00	63.2	1	98/01/02 18:00	61.9	65
7/12/23 06:00	46.2		98/01/02 20:00	74.2	100
7/12/23 12:00	47.1		98/01/03 00:00	71.3	
7/12/23 16:00	44.1		96/01/03 04:00	68.5	
7/12/23 20:00	41.3	49.6	95/01/03 08:00	60.7	i
7/12/24 00:00	49.2		98/01/03 12:00	58.2	
7/12/24 04:00	67.2		98/01/03 16:00	85.1	66
7/12/24 08:00	60.7		98/01/03 20:00	63.2	- 00
7/12/24 12:00	55.8		98/01/04 00:00 98/01/04 04:00	59.4 57.0	i
7/12/24 16:00	51.3				i
/12/24 20:00	49.2	55.7	98/01/04 08:00	51.3 49.2	
/12/25 00:00	51,3	4	98/01/04 12:00		ł
2/25 04:00	74.2	1	98/01/04 16:00 98/01/04 20:00	58.5	63
12/25 08:00	112.5	ì		86.7	- 63
/12/25 12:00	194.4	1	98/01/05 00:00	71.3 63.2	
12/25 16:00	129.7	129,1	98/01/05 04:00 98/01/05 08:00	58.2	
/12/25 20:00	120.9	129.1	98/01/05 12:00	57.0	
12/25 00:00	235.0		98/01/05 15:00	63.2	
7/12/25 04:00	200.7		96/01/05 20:00	104.6	69
7/12/26 08:00	134.4		98/01/06 00:00		
7/12/26 12:00	118.7			71.3	
7/12/26 16:00	118.7	1476	98/01/05 04:00 98/01/06 08:00	68.5 60.7	
7/12/26 20:00	125.2	147.3		1	
7/12/27 00:00	136.7		98/01/06 12:00 98/01/06 16:00	56.2 60.7	
7/12/27 04:00	144.0		98/01/06 10:00	64.5	61
7/12/27 08:00	129.7			1	5
7/12/27 12:00	104.6	l l	98/01/07 00:00	63.2	l
7/12/27 15:00	97.1		98/01/07 04:00	50.7	ł
7/12/27 20:00	129.7	123.8	95/01/07 08:00	55.8	ł
7/12/28 00:00	139.1	1	98/01/07 12:00	53.5	Į.
7/12/28 04:00	154.2		98/01/07 15:00	53.5	
7/12/28 08:00	108.5		98/01/07 20:00	55.8	51
7/12/28 12:00	97.1		98/01/08 00:00	63.2	l
7/12/28 16:00	104.6		98/01/08 04:00	83.4	l
97/12/28 20:00	98.9	114.2	98/01/08 04:00	68.5	l
7/12/29 00:00	104.6		98/01/08 12:00	77.2	l
97/12/29 04:00	P3.5		98/01/08 16:00	80.3	l
7/12/29 06:00	90.1		98/01/08 20:00	5,00,8	8
	86.7]	98/01/09 00:00	81.8	l
			1	1 77.0	i
	77.2	ļ .	98/01/09 04:00	77.2	
7/12/29 16:00	77.2 77.2	85.3	98/01/09 04:00	72.8	
97/12/29 12:00 97/12/29 16:00 97/12/29 20:00 97/12/30 00:00		85.3		1	



Date/Time	Q	Daily C	Date/Time	Q	Daily C
98/03/01 00:00	132.9		98/03/11 12:00	147.2	
P6/05/01 04:00	157.0		96/03/11 16:00	147.2	
96/03/01 08:00	145,2		98/03/11 20:00	166.7	153.5
96/03/01 12:00	137.0		98/03/12 00:00	145.2	
98/03/01 16:00	132.9		96/03/12 04:00	137.0	i
98/03/01 20:00	141.0	143.6	98/03/12 08:00	132.9	
98/03/02 00:00	162.3	,	98/03/12 12:00	129.0	
98/03/02 04:00	149,4		98/03/12 16:00	127.0	
98/03/02 08:00	145.2	:	98/03/12 20:00	127.0	132.2
98/03/02 12:00	141.0		98/03/13 00:00	134,0	
98/03/02 15:00	137.0	_	98/03/13 04:00	131.0	
98/03/02 20:00	129.0	150.7	98/03/13 08:00	127.0	
98/03/03 00:00	243.5		98/03/13 12:00	123,2	
98/03/03 04:00	214.6		96/03/13 16:00	123.2	
98/03/03 08:00	180.4		98/03/13 20:00	204.5	142.6
P6/03/03 12:00	175.8		96/03/14 00:00	157,9	
96/03/03 16:00	171.2		98/03/14 04:00	149.4	
98/03/03 20:00	162.3	186.1	98/03/14 08:00	143.1	
98/03/04 90:00	180.4		98/03/14 12:00	132.9	
98/03/04 04:00	152.3		98/03/14 16:00	175.8	
98/03/04 05:00	166.7		98/03/14 20:00	145.2	149.5
98/03/04 12:00	153.6		98/03/15 00:00	143.1	
98/03/04 16:00	149.4		98/03/15 04:00	189.9	
98/03/04 20:00	149.4	158.1	96/03/15 04:00	171.2	
98/03/05 00:00	153.6		98/03/15 12:00	162.3	
98/03/05 04:00	149.4		98/03/15 16:00	157.9	
96/03/05 08:00	145.2	İ	98/03/15 20:00	209.5	175.1
98/03/05 12:00	141.0		98/03/16 00:00	175.6	
98/03/05 16:00	137.0		98/03/16 04:00	171.2	
98/03/05 20:00	137.0	143.5	98/03/16 08:00	171.2	
98/03/08 00:00	149.4	l	96/03/16 12:00	166.7	
98/03/06 04:00	129,0	1	96/03/16 16:00	192.3	
98/03/06 06:00	129.0		98/03/16 20:00	156.7	176.2
98/03/08 12:00	129.0		98/03/17 90:00	202.0	1
98/03/05 15:00	125.1		98/03/17 04:00	171.2	1
98/03/06 20:00	129.0	143.1	98/03/17 08:00	171.2	
98/03/07 00:00	286.1		98/03/17 12:00	178.1	
98/03/07 04:00	204.5		98/03/17 15:00	175.8	
98/03/07 08:00	159.0		98/03/17 20:00	166.7	179.7
98/03/07 12:00	162.3	ŀ	98/03/18 00:00	227.5	į.
DS/03/07 16:00	157.9	ŀ	98/03/16 04:00	219.7	į.
98/03/07 20:00	153.6	17a.0	98/03/18 08:00	209.5	1
98/03/08 00:00	155.6		98/03/18 12:00	240.8	
98/03/08 04:00	153.6		98/03/18 15:00	235.4	
98/03/08 06:00	149.4		98/03/18 20:00	227.5	225.1
98/03/08 12:00	145.2		98/03/19 00:00	219.7	
98/03/08 16:00	143.1		98/03/19 04:00	212.0	
98/05/08 20:00	141.0	145.4	98/03/19 08:00	207.0	
98/03/09 00:00	137.0		98/03/19 12:00	204.5	ł
98/05/09 04:00	155.8	ļ	98/03/19 16:00	199.6	l
98/03/09 08:00	155.8	ł	98/03/19 20:00	194.7	205.8
P8/05/09 12:00	132.9		98/03/20 00:00	169.9	
98/03/09 15:00	129.0	İ	98/03/20 04:00	187.5	
98/03/09 20:00	180.4	150.5	98/03/20 08:00	182.8	
98/03/10 00:00	162.3		98/03/20 12:00	180.4	
98/03/10 04:00	153.6		98/03/20 15:00	175.8	
98/03/10 08:00	145.2		98/03/20 20:00	173.5	180.1
98/03/10 12:00	137.0		98/03/21 00:00	171.2	
98/03/10 15:00	129.0		98/03/21 04:00	169.0	
98/03/10 20:00	166.7	148.8	98/03/21 08:00]
98/03/11 00:00	150.1		98/03/21 12:00	164.5	
98/03/11 04:00	155,8	1	98/03/21 16:00		1
					164.5

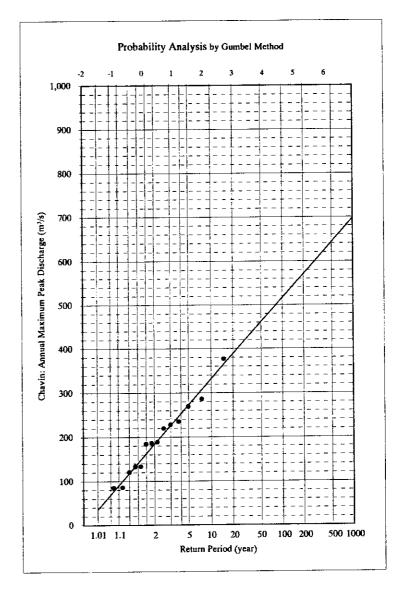


Dete/Time	Q	Daily Q	Date/Time	Q	Daily C
99/02/15 00:00	95.9		99/02/25 12:00	129.1	
99/02/15 04:00	90.9	ļ	99/02/25 16:00	125.1	
99/02/15 08:00	86.2		P9/02/25 20:00	125.1	129,5
99/02/15 12:00	83.1	- 1	99/02/26 00:00	123.1	
99/02/15 16:00	80.1		99/02/26 04:00	123.1	
99/02/15 20:00	85.1	86.0	99/02/26 08:00	121.2	
09/02/16 00:00	89.3		99/02/26 12:00	121.2	
99/02/16 04:00	80.1		99/02/28 16:00	119.2	
99/02/16 08:00	89.3		99/02/25 20:00	121.2	122
99/02/18 12:00	86.2		99/02/27 00:00	137.4	
99/02/18 15:00	102.7	E E	99/02/27 04:00	137.4	
99/02/16 20:00	99.2	92.3	99/02/27 08:00	137.4	
99/02/17 00:00	102.7	1	P9/02/27 12:00	133.2	
99/02/17 04:00	113.5	1	99/02/27 16:00	133.2	
99/02/17 08:00	109.8		99/02/27 20:00	141.7	138.
99/02/17 12:00	117.3		99/02/28 00:00	159.6	
99/02/17 16:00	113.5		99/02/26 04:00	174.0	
99/02/17 20:00	133.2	119.4	99/02/28 08:00	174.0	
99/02/18 00:00	155.0	, , , , , ,	99/02/28 12:00	174.0	
99/02/18 04:00	169.1	- 1	99/02/28 16:00	184.3	
99/02/18 08:00	164.3	1	99/02/28 20:00	184.3	170
99/02/18 12:00	159.6		99/03/01 00:00	185.6	.,.
			99/03/01 04:00	18P.2	
99/02/18 15:00	189.2		99/03/01 08:00	189.2	
99/02/18 20:00	184.1	173.1			
99/02/19 00:00	189.2		99/03/01 12:00	189.2	
99/02/19 04:00	185.5		99/03/01 16:00	189.2	
99/02/19 08:00	186.6		99/03/01 20:00	190.8	191
99/02/19 12:00	184.1		99/03/02 00:00	202.6	
99/02/19 16:00	210.6		99/03/02 04:00	202.6	
99/02/19 20:00	218.5	197.9	99/03/02 08:00	199.8	
99/02/20 00:00	216.5	1	99/03/02 12:00	194.5	
99/02/20 04:00	189.2		99/03/02 16:00	189.2	
99/02/20 08:00	179.0		99/03/02 20:00	179.0	192
99/02/20 12:00	179.0		99/03/03 00:00	179.0	
99/02/20 16:00	184.1		99/03/03 04:00	174.0	
99/02/20 20:00	197.2	188,5	99/03/03 08:00	159.1	
99/02/21 00:00	189.2		99/03/03 12:00	154.3	
99/02/21 04:00	179.0		99/03/03 16:00	159.6	
99/02/21 08:00	169.1	1	99/03/03 20:00	157.3	165
99/02/21 12:00	164.3	ì	99/03/04 00:00	155.0	
99/02/21 15:00	228.1		99/03/04 04:00	150.5	1
	194.5	187.4	99/03/04 08:00	148.2	l
99/02/21 20:00		187.4	99/03/04 12:00	146.0	l
99/02/22 00:00	189.2		99/03/04 12:00	141.7	l
09/02/22 04:00	186.6	j l	99/03/04 16:00	197.4	144
99/02/22 08:00	174.0				""
99/02/22 12:00	166.7		99/03/05 00:00	133.2	l
99/02/22 16:00	189.2		99/03/05 04:00	131.2	l
99/02/22 20:00	210.8	187.0	99/03/05 08:00	129.1	1
99/02/23 00:00	199.6		99/03/05 12:00	127.1	l
99/02/23 04:00	189.2	l l	99/03/05 16:00	125.1	ŀ
99/02/23 08:00	189,2	į l	99/03/05 20:00	121.2	126
99/02/23 12:00	184.1		99/03/05 00:00	119.2	
99/02/23 16:00	179.0]	99/03/05 04:00	117.3	
99/02/23 20:00	179.0	185.0	99/03/06 08:00	115.4	
99/02/24 00:00	179.0		99/03/06 12:00	113.5	
99/02/24 04:00	184.1		99/03/06 16:00	111.7	
	181.5		99/03/06 20:00	109.8	113
99/02/24 08:00				108.0	l '''
99/02/24 12:00	164.3		E9/03/07 00:00		l
99/02/24 16:00	150.5		99/03/07 04:00	106.2	}
99/02/24 20:00	146.0	164.5	99/03/07 08:00	102.7	1
99/02/25 00:00	141.7	1 1	99/03/07 12:00	101.0	ĺ
99/02/25 04:00	133.2	}	99/03/07 16:00	99.2	1
99/02/25 08:00	131.2	ı	99/03/07 20:00	95.9	101

1.12 Probability Analysis Based on the Discharge Hydrograph at Chavin Station

	Observed data arranged in the order of				
Obser	ved data			magnitude	
	Chavin:			Chavin:	
	Annual		. 1	Annual	1
	Maximum		\r	Maximum	Plotting
Year	Peak	No.	Year	Peak	value
	Discharge			Discharge	i
	(m³/s)			(m³/s)	į
1964		1	1992	84.7	-0.9962
1965		2	1990	85.4	-0.7006
1966		3	1988	120.2	-0.4759
1967		4	1991	132.6	-0.2790
1968		5	1995	133.2	-0.0940
1969		6	1989	183.9	0.0874
1970	.	7	1987	186.1	0.2716
1971		8	1996	188.2	0.4642
1972		9	1994	219.5	0.6717
1973		10	1999	228.1	0.9027
1974		11	1997	235.0	1.1707
1975		12	1986	269.2	1.4999
1976		13	1998	286.1	1.9442
1977		14	1993	376.5	2.6738
1978		15	-	j :	#N/A
1979		16	_	·	#N/A
1960		17	_		#N/A
1981		18			#N/A
1982		19	C .	1	#N/A
1983		20	B.		#N/A
1984		21	l_	[#N/A
1985		22].	İ	#N/A
1986	269.2		1	1	#N/A
1987	186.1	24	l_		#N/A
1988	120.2	25	_	1	#N/A
1989	183.9	26	i .	1	#N/A
1990	85.4	27		Į.	#N/A
1991	132.6			i	#N/A
1992	84.7				#N/A
1993	376.5	30			#N/A
1994	219.5	31	1		#N/A
1995	133.2		1	1	#N/A
1996	188.2		1.		#N/A
1997	235.0	1	_	1	#N/A
1998	286.1	35	1	Į.	#N/A
1999	228.1	36			#N/A

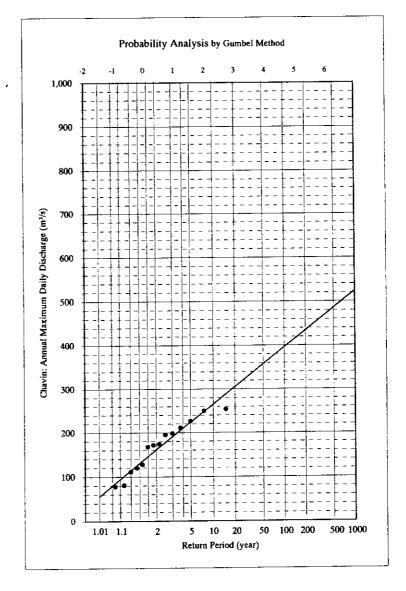
Calculation results					
Return period	Chavin: Annual Maximum Peak Discharge (m³/s)	Plotting value			
1.01	34.9	-1.5293			
2	183.6	0.3665			
5	272.6	1,4999			
10	331.4	2.2504			
20	387.9	2.9702			
50	461.0	3.9019			
100	515.7	4.6001			
200	570.3	5.2958			
500	642.3	6.2136			
1000	696.7	6.9073			



N = 14 X mean = 168.664286 S_x = 55.9894966 C_v = 0.33195822 a = 0.01802977 X_y = 140.375251

		Obs	served data	аrranged in t	ne order of
Obser	ved data			magnitude	
	Chavin:			Chavin:	
	Annual			Annual	
ا ہے	Maximum		\.	Maximum	Plotting
Year	Daily	No.	Year	Daily	value
	Discharge			Discharge	
	(m³/s)	,		(m³/s)	
1964	(1.1)-1	1	1990	77.7	-0.9962
1965		2	1992	80.7	-0.7006
1966		3	1988	111.0	-0.4759
1967		4	1991	119.7	-0.2790
1968		5	1995	127.3	-0.0940
1969		6	1996	167.1	0.0874
1970		7	1987	171.5	0.2716
1971		8	1989	173.6	0.4642
1972		9	1997	194.6	0.6717
1973		10	1999	197.9	0.9027
1974		11	1994	210.5	1.1707
1975		12	1998	226.1	1,4999
1976		13		249.9	1.9442
1977		14	1	253.7	2.6738
1978		15			#N/A
1979		16			#N/A
1980		17		•	#N/A
1981		18		ĺ	#N/A
1982		19	1		#N/A
1983		20	1	i	#N/A
1984		21	[#N/A
1985		22	[1	#N/A
1965	249.9	ł —		1	#N/A
1987	171.5				#N/A
1968	111.0			[#N/A
1989	173.6				#N/A
1989	77.7		1	1	#N/A
1990	119.7		1		#N/A
	80.7	1	L		#N/A
1992		1 -	i .		#N/A
1993	253.7	1	1	1	#N/A
1994	210.5			1	#N/A
1995	127.3		1		#N/A
1996	167.1		1		
1997	194.6		1	İ	#N/A
1998	226.1				#N/A
1999	197.9	36	il	<u> </u>	#N/A

Calculation results						
	Chavin:					
1	Annual					
Return	Maximum	Plotting				
period	Daily	value				
	Discharge					
	(m³/s)					
1.01	55.6	-1.5293				
2	160.7	0.3665				
5	223.6	1.4999				
10	2 6 5.2	2.2504				
20	305.1	2,9702				
50	356.8	3.9019				
100	395.5	4.6001				
200	434.1	5.2958				
500	485.0	6.2136				
1000	523.5	6.9073				

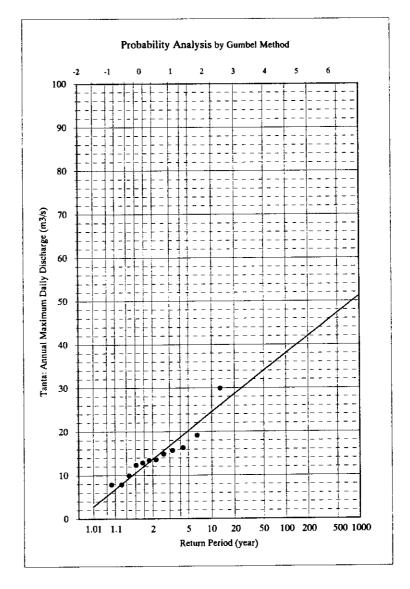


1.13 Probability Analysis of Discharge

 $\begin{array}{lll} N = & 12 \\ X_{mean} = & 14.432556 \\ S_x = & 5.6458638 \\ C_v = & 0.3911895 \\ a = & 0.1741575 \\ X_o = & 11.541506 \end{array}$

Obser	ved data	Obs		агталдеd in t magnitude	he order of
Year	Tanta: Annual Maximum Daily Discharge (m3/s)	No.	Year	Tanta: Annual Maximum Daily Discharge (m3/s)	Plotting value
1964		1	1992	7.8	-0.9419
1965		2	1990	7.8	-0.6269
1966		3	1991	9.9	-0.3828
1967		4	1987	12.3	-0.1644
1968		5	1986	12.8	0.0455
1969		6	1989	13.4	0.2572
1970		7	1988	13.5	0.4796
1971		8	1995	14.8	0.7226
1972		9	1994	15.6	1.0004
1973		10	1993	16.3	1.3380
1974		11	1997	19.1	1.7894
1975	!	12	1996	29.9	2.5252
1976	İ	13	-		#N/A
1977		14	-		#N/A
1978		15	•		#N/A
1979		16	-		#N/A
1980		17	-		#N/A
1981		18	-		#N/A
1982	i	19	-		#N/A
1983		20	-		#N/A
1984	1	21	-	i	#N/A
1985		22	-]	#N/A
1986	12.8				#N/A
1987	12.3	24	-		#N/A
1988	13.5	25	-	1	#N/A
1989	13.4	26	-		#N/A
1990	7.8	27	-		#N/A
1991	9.9	28]-		#N/A
1992	7.8	29	-	l	#N/A
1993	16.3	30	-]	#N/A
1994	15.6	31	-	i	#N/A
1995	14.8			l	#N/A
1996	29.9	33	-	1	#N/A
1997	19.1	34		1	#N/A
1998		35		<u> </u>	#N/A

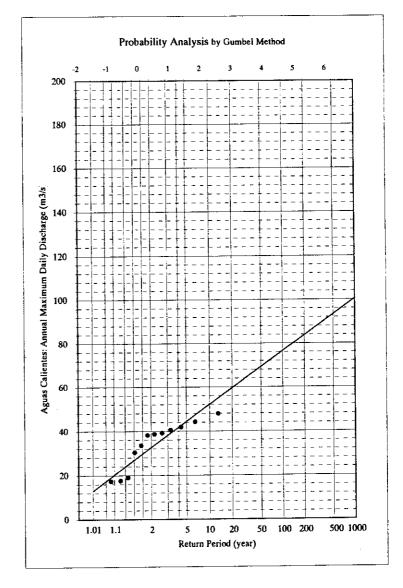
Calculation results					
Return period	Tanta: Annual Maximum Daily Discharge (m3/s)	Plotting value			
1.01	2.8	-1.5293			
2	13.6	0.3665			
5	20.2	1.4999			
10	24.5	2.2504			
20	28.6	2.9702			
50	33.9	3,9019			
100	38.0	4.6001			
200	41.9	5.2958			
500	47.2	6.2136			
1000	51.2	6.9073			



 $\begin{array}{lll} N = & 12 \\ X_{mean} = & 33.9628795 \\ S_x = & 10.1919135 \\ C_v = & 0.30008979 \\ a = & 0.09647548 \\ X_o = & 28.7439555 \end{array}$

Obser	ved data	Observed data arranged in the or magnitude		he order of	
			i		
	Aguas			Aguas	
	Calientes:			Calientes:	
1 1	Annual			Annual	Plotting
Year	Maximum	No.	Year	Maximum	value
	Daily			Daily	12.23
	Discharge			Discharge	
	(m3/s)			(m3/s)	
1964		1	1992	17.3	-0.9419
1965		2	1990	17.6	-0.6269
1966	-	3	1991	19.0	-0.3828
1967		4.	1993	30.3	0.1644
1968		5	1988	33.5	0.0455
1969		6	1997	38.1	0.2572
1970		7	1989	38.6	0.4796
1971		8	1986	39.1	0.7226
1972		9	1995	40.5	1.0004
1973		10	1987	41.8	1.3380
1974		11	1994	44,1	1.7894
1975		12		47.8	2.5252
1976		13			#N/A
1977		14	1		#N/A
1978		15	1		#N/A
1979		16	1		#N/A
1980		17	1		#N/A
1981	[18	1		#N/A
1982		19	1	1	#N/A
1983		20	1		#N/A
1984	}	21	II.		#N/A
1985	1	22	.[Į.	#N/A
1986	39.1	23			#N/A
1987	1			!	#N/A
1988	33.5	-			#N/A
1988	38.6		,	1	#N/A
1		1			#N/A
1990	17.6		1		#N/A
1991	19.0		F .	l	#N/A
1992				l	#N/A
1993	1			1	#N/A
1994	1				#N/A
1995	1	1	1		#N/A
1996	l .	1	1		
1997	1		1		#N/A
1998	L	35	-	<u> </u>	#N/A

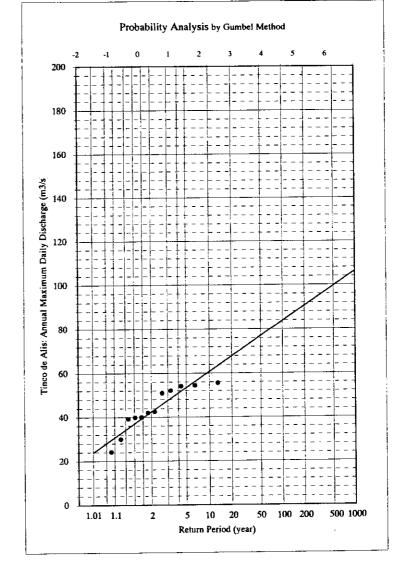
Calculation results					
Return period	Aguas Calientes: Annual Maximum Daily Discharge (m3/s)	Plotting value			
1.01	12.9	-1.5293			
2	32.5	0.3665			
5	44.3	1.4999			
10	52.1	2.2504			
20	59.5	2.9702			
50	69.2	3.9019			
100	76.4	4.6001			
200	83.6	5.2958			
500	93.2	6.2136			
1000	100.3	6.9073			



N =	12
X _{mean} =	43.654572
S _x =	9.6060120
C _v =	0.220040
a =	0.1023598
X _o =	38.73566

Observ	ved data	Observed data arranged in the order of magnitude			
Year	Tinco de Alis: Annual Maximum Daily Discharge	No.	Year	Tinco de Alis: Annual Maximum Daily Discharge	Plotting value
	(m3/s)			(m3/s)	
1964		1	1992	24.2	-0.9419
1965		2	1990	29.9	-0.6269
1966		3	1996	39.1	-0.3828
1967		4	1988	39.7	-0.1644
1968		5	1995	39.9	0.0455
1969		6	1991	42.0	0.2572
1970		7	1993	42.4	0.4796
1971		8	1987	50.8	0.7226
1972		9	1994	52.0	1.0004
1973	ŧ	10	1989	54.0	1.3380
1974	i .	11	1997	54.4	1.7894
1975		12	1986	55.5	2.5252
1976		13	-	i	#N/A
1977		14	-		#N/A
1978	j	15			#N/A
1979	}	16	-		#N/A
1980	1	17	-	1	#N/A
1981	1	18	-	ļ	#N/A
1982		19	-	ĺ	#N/A
1983		20	-	1	#N/A
1984		21	j -		#N/A
1985	1	22	 -	1	#N/A
1986	55,5		1		#N/A
1987	50.8		1-	1	#N/A
1988			 -		#N/A
1989	54.0	1			#N/A
1990	29.9	27	ļ.	1	#N/A
1991	42.0		-		#N/A
1992			1	1	#N/A
1993					#N/A
1994	1			1	#N/A
1995	1	1 -			#N/A
1996	1		1	1 .	#N/A
1997			1	l	#N/A
1998		35		l	#N/A

Calculation results						
Return period	Tinco de Alis: Annual Maximum Daily Discharge (m3/s)	Plotting value				
1.01	23.8	-1.5293				
2	42.3	0.3665				
5	53.4	1.4999				
10	60.7	2.2504				
20	67.8	2.9702				
50	76.9	3.9019				
100	83.7	4.6001				
200	90.5	5.2958				
500	99.4	6.2136				
1000	106.2	6.9073				

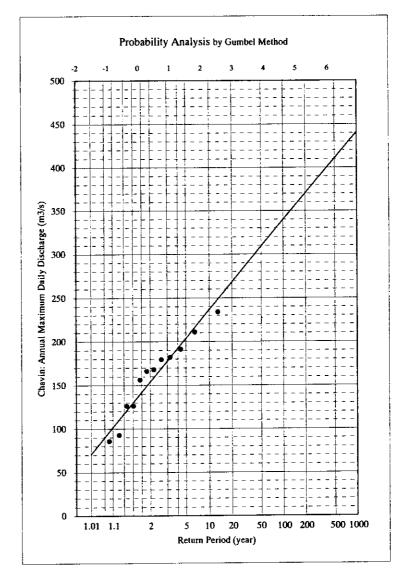


N = 12 X mean = 159.80142 S_x = 43.128362 C_y = 0.2698872 a = 0.0227987 X_o = 137.71689

Observed data		Observed data arranged in the order of magnitude			
		<u> </u>			
	Chavin:			Chavin:	
	Annual			Annual	
Year	Maximum	No.	Year	Maximum	Plotting
I Cai	Daily	110.	100	Daily	value
	Discharge			Discharge	
	(m3/s)			(m3/s)	
1964		. 1	1992	85.6	-0.9419
1965		2	1990	92.7	-0.6269
1966		3	1988	126.1	-0,3828
1967		4	1991	126.2	-0.1644
1968		5	1987	156.1	0.0455
1969		6	1996	165,9	0.2572
1970		7	1986	168.0	0.4796
1971		8	1989	179.4	0.7226
1972		9	1995	181.9	1.0004
1973		10	1997	191.1	1.3380
1974		11	1994	210.8	1.7894
1975		12	1993	233.8	2.5252
1976		13			#N/A
1977		14			#N/A
1978		15	_		#N/A
1979		16	1		#N/A
1980		17	1		#N/A
1981		18	1		#N/A
1982		19	Ì_		#N/A
1983		20]_	i '	#N/A
1984		21	l_	'	#N/A
1985		22	_	i '	#N/A
1986	168.0				#N/A
1987	156.1	24		l	#N/A
1988	126.1	25		1	#N/A
1989	179.4	26			#N/A
1990	92.7	27	1		#N/A
1991	126.2		1		#N/A
1992	, 20.2 85.6	•		1	#N/A
1993	233.8	1		1	#N/A
1993	233.6 210.8	1	L	ŀ	#N/A
1995	181.9	I -	L		#N/A
1996	165.9		i	l	#N/A
1997	191.1	34	i	l	#N/A
1998	191.1	35		l	#N/A
1996	l	1 30	Ľ	L	- TIT/A

Calculation results				
Return period	Chavin: Annual Maximum Daily Discharge (m3/s)	Plotting value		
1.01	70.6	-1.5293		
2	153.8	0.3665		
5	203.5	1.4999		
10	236.4	2.2504		
20	268.0	2.9702		
50	308.9	3.9019		
100	339.5	4.6001		
200	370.0	5.2958		
500	410.3	6.2136		
1000	440.7	6.9073		

Note)
Application limits depend on the sample size should be considered.

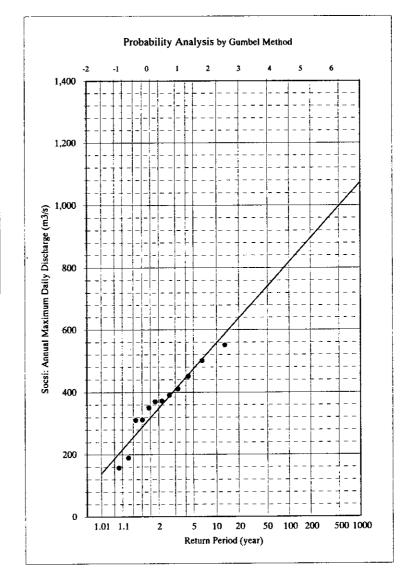


N =	12
X mean =	363.33333
S _x =	109.03542
C _v =	0.3000975
a =	0.0090179
X, =	307.50009

Observed data		Observed data arranged in the order of magnitude			
	Socsi:		· i	Socsi:	
	Annual			Annual	
	Maximum			Maximum	Plotting
Year	Daily	No.	Year	Daily	value
	Discharge			Discharge	• • • • • • • • • • • • • • • • • • •
l	(m3/s)			(m3/s)	
1964	(HO/S)	1	1992	157.0	-0.9419
1965		2	1990	189.0	-0.6269
1966		3	1996	310.0	-0.3828
1967		4	1989	312.0	-0.1644
1968		5	1997	350.0	0.0455
1969		6	1986	370.0	0.2572
1970		7	1991	372.0	0.4796
1971		8	1993	390.0	0.7226
1972		9	1988	410.0	1.0004
1973		10	1987	450.0	1.3380
1974		11	1995	500.0	1,7894
1975		12	1994	550.0	2.5252
1976		13		330.0	#N/A
1977		14		-	#N/A
1978		15			#N/A
1979		16		1	#N/A
1980		17	[#N/A
1981		18			#N/A
1982		19	Ľ		#N/A
1983		20			#N/A
1984		21			#N/A
1985		22			#N/A
1986	370.0	23			#N/A
1987	450.0	24	[.		#N/A
1988	410.0	25			#N/A
1989	312.0	26	1		#N/A
1990	189.0	27	1		#N/A
1991	372.0	28	1		#N/A
1992	157.0	29	1		#N/A
1993	390.0	30	<u> </u>		#N/A
1994	550.0	31	_		#N/A
1995	500.0	32	_		#N/A
1996	310.0	33	ļ_ :		#N/A
1997	350.0	34	-		#N/A
1998	220.0	35			#N/A

Calculation results					
Return period	Socsi: Annual Maximum Daily Discharge (m3/s)	Plotting value			
1.01	137.9	-1.5293			
2	348.1	0.3665			
5	473.8	1.4999			
10	557.0	2.2504			
20	636.9	2.9702			
50	740.2	3.9019			
100	817.6	4.6001			
200	894.8	5.2958			
500	996.5	6.2136			
1000	1073.5	6.9073			

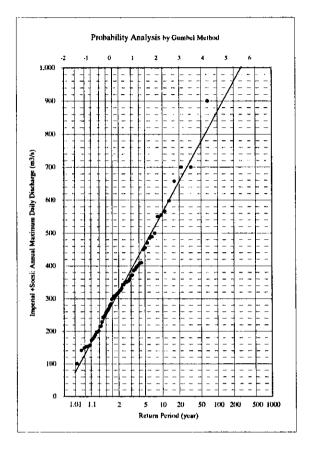
Note)
Application limits depend on the sample size should be considered.



N = 65
X mae = 343.052308
S_a = 153.105229
C_v = 0.44630287
a = 0.00770934
X_o = 271.264734

Obser	ved data	Observed data arranged in the order of			
				magnitude	
	Imperial +Socal:			Imperial +Socii:	
	Annual			Annual	I
V			ا بر ا		Plotting
100	Maximum Dally	No.	Year	Maximum Daily	value
	Discharge			Discharge	
	(m3/s)			(m3/s)	
1926	455.0		1980	100.1	-1.4326
1927	,,,,,,,,	2	1940	141.3	-1.2518
1928	198.0	3	1931	148.6	-1.1285
1929	342.8	4	1964	153.1	-1.0308
1930	263.8	5	1968	154.0	-0.9479
1931	148.6	6	1992	157.0	-0.8746
1932		7	1962	172.0	-0.8081
1933	176.0	8	1933	176.0	-0.7468
1934 1935	305.0	10	197 9 1990	182.6 189.0	-0.6894 -0.6350
1936	386.0		1990	199.0	-0.6350 -0.5832
1937	265.0 263.8	11 12	1928	198.0	-0.5334
1936	401.4	13	1966	201.0	-0.4853
1939	308.5	14	1965	214.7	-0.4386
1940	141.3	15	1976	216.0	-0.3931
1941	301.1	16	1957	228.3	-0.3486
1942	319.2	17	1963	242.4	-D.3049
1943	324.1	18	1950	244.7	-0.2618
1944	396.6	19	1977	249.0	-0.2193
1945	350.0	20	1981	257.1	-0.1772
1948	354.0	21	1930	263.8	-0.1355
1947	353.0	22	1936	265.0	-0.0940
1948 1949	279.0 198.0	23 24	1958 1948	270.4 279.0	-0.0527 -0.0115
1950	198.0 244.7	25	1937	2/9.0 283.8	0.0115
1951	485.0	26	1975	298.0	0.0709
1952	360.0	27	1941	301.1	0.1123
1953	555.0	28	1934	305.0	0.1538
1954	657.0	29	1939	308.5	0.1956
1955	700.0	30	1996	310.0	0.2377
1956	470.0	31	1969	312.0	0.2802
1957	228.3	32	1969	316.0	0.3231
1958	270.4	33	1942	319.2	0.3865
1959	700.0	34	1943	324.1	0.4105
1960	488.8	35	1974	326.0	0.4552
1961 1962	597.6 566.2	36 37	1976 1929	332.0 342.6	0.5007 0.5469
1963	242.4	38	1929	343.0	0.5941
1964	153.1	39	1945	350.0	0.6423
1965	214.7	40	1945	350.0	0.6916
1966	201.0	41	1947	353.0	0.7422
1967	343.0	42	1946	354.0	0.7941
1968	154.0	43	1952	360.0	0.8476
1959	316.0		1986	370.0	0.9027
1970	408.0		1991	372.0	0.9597
1971		46	1935	396.0	1.0168
1972	900.0	47	1993	390.0	1.0803
1973 1974	326.0	48 49	1944 1938	396.6 401.4	1.1443 1.2112
1974 1975	326.0 298.0	50	1938	401.4 408.0	1.2112
1976	332.0	51	1988	410 6	1.3555
1977	249.0	52	1987	450.0	1.4338
1978	216.0	53	1926	455.0	1.5170
1970	182.6		1956	470.0	1.6061
1980	100.1	55	1951	485.0	1.7020
1981	257.1	56	1960	489.8	1.8060
1982	172.0	57	1995	500.0	1,9200
1983		56	1994	550.0	2.0463
1984	1	59	1953	555.0	2.1682
1985		60	1962	566.2	2,3506
19 6 6 1987	370.0	61	1961	597.6	2.5411
	450.0	62	1954	657.0	2.7723
1988 1989	410.0	63	1955	700.0	3.0679 3.4812
1989 1990	312.0 189.0	65	1955 1972	700.0 900.0	
1990	372.0	66	19/2	800.0	#N/A
1992	157.0	67	I. :	{	#N/A
1993	390.0	68	 .	{	#N/A
1994	550.0	69	<u> </u>		#N/A
1995	500.0	70	- -	{	#N/A
1996	310.0	71	-		#N/A
1997	350.0	72	ļ	,	#N/A

Cal	culation res	ults
Return period	Imperial +Socal: Annual Maximum Daily Discharge (m3/s)	Plotting value
1.01	72.9	-1.5293
2	318.8	0.3665
5	466.8	1.4999
10	563,2	2.2504
20	656.5	2.9702
50	777.4	3.9019
100	868.0	4,6001
200	958.2	5.2958
500	1077.2	6.2136
1000	1167.2	6.9073

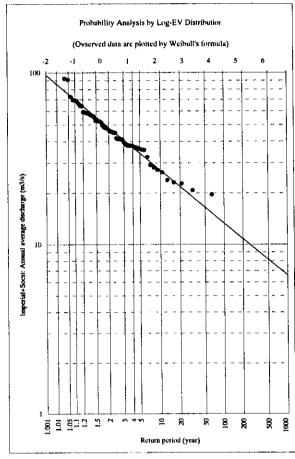


1.14 Probability Analysis of Discharge in Low Water Period

Mean = 48.57 S = 17.91

No. Vear Imperial + So Imperial + So Casi: Annual average discharge (m3/s) Vear So Casi: Annual average discharge (m3/s) Vear So Casi: Annual average discharge (m3/s) Vear So Casi: Annual average discharge (m3/s) Vear So Casi: Annual average discharge (m3/s) Vear So Casi: Annual average discharge (m3/s) Vear So Casi: Annual average discharge (m3/s) Vear So Casi: Annual average discharge (m3/s) Vear So Casi: Annual Average discharge (m3/s) Vear So Casi: Annual Average discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge discharge		S =	17.91			
No.	Obse	rved data	N=63			
No. Vear csi: Annual average discharge (m3/s)			Imperial So			20
No. Vear average discharge (m3/s)						
1 1925/26 . 1971/72 . 23.8 1.00 . 21 1928/27 . 35.8 1954/55 . 92.5 1.00 . 1.00 . 1928/29 . 46.9 1960/61 . 72.7 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.07 . 1.	No.	Year		Year		
1 1925/26					discharge	period
2 1926/27 35.8 1954/55 92.5 1.00 1.00 1.00 1.00 1.00 1.00 1.00 1.			(m3/s)		(m3/s)	l
1927/28		1925/26				
1928/29			35.8			
5 1929/30			45.0			
6 1930/31			1			
8 1932/33	_		1		69.3	
9 1933/34 59.1 1943/44 64.5 1.20 1934/35 59.3 1965/96 64.2 1.20 1935/36 56.0 1934/35 59.3 1935/36 56.0 1934/35 59.3 1.35 1937/38 51.6 1951/52 58.7 1.37 1938/39 47.8 1961/62 58.6 1.37 1938/30 32.5 1992/93 58.1 1.39 16 1940/41 37.0 1975/76 57.7 1.40 1941/42 45.6 1942/43 57.0 1952/53 56.5 1.45 1934/44 64.5 1935/36 56.0 1.43 1944/45 44.9 1990/91 52.8 1.65 1.20 1944/45 44.9 1990/91 52.8 1.65 1.66 1980/47 52.3 1955/56 52.6 1.66 1980/47 52.3 1955/56 52.6 1.66 1980/47 52.3 1955/56 52.6 1.66 1980/51 69.3 1937/48 52.6 1.66 1980/51 69.3 1937/48 48.8 1937/48 52.6 1.66 1980/51 69.3 1937/48 48.8 1953/56 52.6 1.66 1980/51 69.3 1937/48 48.8 1.95 1.6 1.73 1.6 1953/56 52.6 1953/56 52.6 1.66 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6 1953/56 52.6						
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58 1982/83						1
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63 1987/88 29.1 1965/66 19.6 28.40 1988/99 45.5 1989/90 22.7 66 1990/91 54.9 67 1991/92 20.8 68 1992/93 55.1 69 1993/94 91.0 70 1994/95 48.1 71 1995/96 64.2 72 1996/97 35.9 73 1997/98 74 1998/99 -					1	
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74 1998/99 -			35.9	1		1
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Calculation results			
Return period	Imperial+So csi: Annual average discharge (m3/s)		
1000	6.60		
500	8.16		
250	10.07		
200	10.78		
100	13.32		
50	16.47		
30	19.27		
25	20.39		
20	21.86		
15	23.92		
10	27.21		
5	34.18		
4	36.92		
3	40.98		
2	48.24		
1.500	55.49 59.55		
1.333 1.250	62.32		
1.111	69.49		
1.071	73.00		
1.053	75.27		
1.042	76.93		
1.034	78.23		
1.020	81.63		
1.010	85.78		
1.005	89.52		
1,004	90.65		
1.002	93.97		
1.001	97.04		



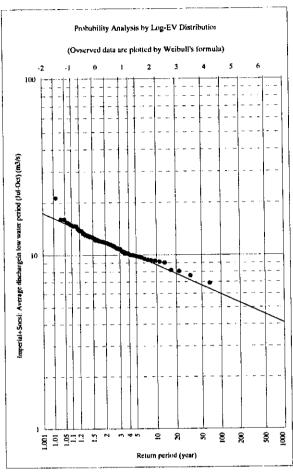
	\$ <u>=</u>	2.66			
Obser	ved data	N=66		d data arrange er of magnitud	
No.	Year	Imperial+So csi: Average dischargein low water period (Jun- Sep) (m3/s)	Year	Imperial+So csi: Average dischargein low water period (Jun- Sep) (m3/s)	Return period
1	1926	12.0	1986	20.4	1.00
2	1927		1994	20.1	1.00
3	1928 1929	13.6 13.2	1967 1991	19.4 17.7	1.00
5	1930	14.6	1934	17.5	1.05
6	1931	12.8	1935	17.5	1.05
7	1932	13.4	1974 1976	17.4 17.4	1.05
8	1933 1934	14.2 17.5	1946	16.2	1.17
10	1935	17.5	1948	16.1	1.18
11	1936	12.0	1963 1954	16.0 15.3	1.20 1.32
12 13	1937 - 1938	13,0 12,3	1944	15.3	1.34
14	1939	12.8	1955	15.2	1.35
15 16	1940 1941	12.1 10.3	1977 1978	15.2 15.1	1.35 1.37
17	1942	13.9	1975	14.9	1.44
18	1943	13.2	1951	14.8	1.48
19 20	1944 1945	15.3 11.3	1930 1973	14.6 14.6	1.52 1.53
21	1946	16.2	1981	14.5	1,55
22	1947.	14.4	1971	14.5	1.55
23 24	1948 1949	16.1 12.6	1947 1933	14.4 14.2	1.63 1.69
25	1950	11.3	1964	14.1	1.72
26	1961	14.8	1942 1952	13.9 13.8	1.82 1.91
27 28	1952 1953	13.8 13.7	1956	13.8	1.91
29	1954	15.3	1953	13.7	1,97
30 31	1956 1956	15.2 13.8	1928 1932	13.6	2.03
32	1957	9.7	1929	13,2	2.27
33	1958	9.0	1943	13.2	2.27
34 35	1959 1960	10.2 8.2	1993 1937	13.2	2.28 2.45
36	1961	12.6	1979	12.9	2.50
37	1962	12.5	1988	12.9	
38 39	1963 1964	16,0 14,1	1939 1931	12.8 12.8	
40	1965	11.9	1982	12.7	2.74
41 42	1966 1967	9.5 19.4	1961 1949	12.6 12.6	
43	1968	10.4	1	12.5	
44	1989	11.0		12.5	
45 46	1970 1971	14.5	1996 1938	12.4 12.3	
47	1972		1940	12.1	3.48
48	1973	14.6		12.0	
49 50	1974 1975	17,4	5	12.0	
51	1976	17.4	1	11.9	1
52 53	1977 1978	15.2 15.1		11.4	
54	1978	12.9	1	11.3	
55	1980	12.0	1969	11.0	
56 57	1981 1982	14.5 12.7	1	10.6	
58	1983	-	1941	10.3	8.10
59 60	1984	-	1959	10.2	
60 61	1985 : 1986	20.4	1997 1957	10.1	
62	1987	9.6	1987	9.6	11.97
63 64	1988 1989	12.9 12.5		9.5 9.0	
65	1989	10.6	1	8.2	
66	1991	17.7	1992	8.1	
67 68	1992 1993	8.1 13.2		1	
69	1993	20.1			
70	1995	11.4			
71 72	1996 1997	12.4			
72 73	1998	- 10.1			
74	1999	-			
75		1		J	J

Return period	Imperial+So csi: Average dischargein low water period (Jun- Sep) (m3/s) 4.51 5.07 5.70 5.92 6.66 7.49	3	00	z 							·		•	_			ibutic						
1000 500 250 200 100 50 30 25 20 15	low water period (Jun- Sep) (m3/s) 4.51 5.07 5.70 5.92 6.66	3		2		-1					a: t	piu	tted	by V	Veib	ull's	form	ula)					
1000 500 250 200 100 50 30 25 20	4.51 5.07 5.70 5.92 6.66	1	00			•			0		1		2		3		4		5		6		
500 250 200 100 50 30 25 20	5.07 5.70 5.92 6.66		- 1	-		1	-					1	<u>-</u>		-			-	-				<u>-</u>
250 200 100 50 30 25 20	5.70 5.92 6.66	ļ		- 1	-	-	┨-	-		- 1		+			- -		-	1-	• -			-	
200 100 50 30 25 20	5.92 6.66			ŀή	-	1	1-	+			1	†]	- -		-	1-	-	- '		-	- 1
50 30 25 20 15				- 1	-	1	-	ŀ	-		-	į			- -		-	-	-		-	-	-
30 25 20 15	7.49	١.		-				.				-			-			4 -				-	
25 20 15	8.17	. S.		l																ĺ		i	
15	8.43	1 2		- 1			1.	-				+	~	-	- -		-	-	. –	-			٠ ا
	8.76	Imperial+Socsi: Average dischargen low water period (Jun-Scp) (m3/s)				-												-					
	9.21 9.90	Š		U	•	,-		.				1			-			-	-			-	-
5	11.23	, g			$\overline{}$	•	1	-						ļ	-								
4	11.72	į,					T	٧						1						1			
3	12.42 13.60	3									L	Ц					1	1				ŀ	
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1.053	17.41	1		-	-	-	-	-		٧				-								-	_
1.042	17.62 17.78	ğ		_	_]			_	١.			. _	_ [_			_		_	
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			•	3 5	3 3	0	7		} •	, ,	m -	4 v	_	<u>-</u>	 R		8	8		2		8	8

Mean = 11.83

_		S =	2.35				_
	Obse	rved data	N≖66		data arrange er of magnitud		١
	No.	Year	Imperial+So csi: Average dischargein low water period (Jul- Oct) (m3/s)	Year	Imperial+So csi; Average dischargein low water period (Jul- Oct) (m3/s)	Return period	
ł	1	1926	11.3	1967	21.3	1.00	t
	2	1927		1948	16.1 16.1	1.02	
	3 4	1928 1929	13.0 12.5	1986 1994	15.4	1.02	ļ
	5	1930	13.0	1974	15.3	1.05	1
ĺ	6 7	1931 1932	12.2 11.4	1934 1935	14.9 14.8	1.08	
	, 8	1933	12.7	1980	14.7	1.10	ļ
-	9 10	1934 1935	14.9	1976 1977	14.7 14.2	1.10 1.17	Ì
	11	1936	12.0	1971	13.9	1.22	
	12	1937	10.5 11.2	1978 1946	13.8 13.8	1.24	ļ
	13 14	1938 1939	10.9	1982	13.3	1.37	
	15	1940	10.9	1955	13.3	1.37	
	16 17	1941	9.8 11.9	1928	13.0	1.46	Į
	18	1943	11.8	1952	12.9	1,51	1
ļ	19 20		12.7	1981 1944	12.8 12.7	1.55 1.59	
	21	1946	13.8	1954	12.7	1.59	Į
	22 23		11.6	1933 1929	12.7 12.5	1.60	1
	24		10.2	1	12.3	1.79	
	25	1	9.7		12.2 12.2		
	26 27		12.0		12.2		
	28	1953	12.2	1973	12.1	1.94	
	29 30		12.7		12.0		
	31	1956	9.9	1991	11.9	2.02	
	32 33		8.1		11.8		
	34		9.3		11.8	2.15	
	35		9.1		11.6	1 1	
	37		11.0		11.6	2.34	
	38		12.2		11.4		
	39		10.8	1	11.3		
	41		9.4		11.2		
	42		21.3	,	10.9		
	4	1969	12.3	1940	10.9		
	41	1	13.5	1965 1937	10.8		
	4	1972	-	1996	10.4	3.93	
	41	1 '	12.1 15.3		10.2		
	5		11.0	1949	10.2	2 4.40	
	5		14.7		10.6	1 1	
	5:		14,3		9.9		
	5-	1979	11.4	1968	9.0		
	5	1	14.		9.6		
	5	7 1982	13.	1945	9.8	5 6.40	
	5		:	1966	9.		
	6	0 1985		1987	9.3	3 7.37	
	6	1	16. 9.		9.1		
	6		11.		8.	2 15.17	
	6		11.		8.		
	6		10.		7. 6.		
	6	7 1992	6.	9			
	6		10. 15.				
	7		10,	,			
	7		10.				
	7 7	2 1997 3 1998	9.	۳			
	7	4 1999	-				
	7	5	1	1			

							
Calculation results							
	Imperial+So						
}	csi: Average						
Return	dischargein						
period	low water						
·	period (Jul-						
	Oct) (m3/s)						
1000	4.08						
500	4.58						
250	5.13						
200	5.32						
100	5.97						
50	6.69						
30	7.29						
25	7.51						
20	7.80						
15	8.19						
10	8.78						
5	9.94						
4	10.36						
3	10.96						
2	11.97						
1.500	12.91						
1.333	13.42						
1.250	13.75						
1.111	14.59						
1.071	14.98						
1.053	15.23						
1.042	15.41						
1.034	15.55 15.92						
1.020	1						
1.010							
1.005							
1.004	1						
1.002	17,48						
1.001	17.40						



Mean = 11.73 S = 2.23

	S=	2.23			
Obse	rved data	N=66		d data arrange ler of magnitu	
No.	Year	Imperial+So csi: Average dischargein low water period (Jul- Sep) (m3/s)	Year	Imperial+So csi: Average dischargein low water period (Jul- Sep) (m3/s)	Return period
	4000		4000		4.00
1. 2	1926 1927	11.0	1986 1967	17.3 17.2	1.00 1.00
3	1926	12.4	1994	17.2	1.00
4	1929	12.1	1974	15.9	1.02
5	1930	12.9	1934	15.3	1.04
6	1931	12.0	1976	15.0	1.06
7	1932 1933	11.6	1935	15.0	1.06
8 9	1934	13.1 15.3	1971 1977	14.8 14.4	1.07 1.12
10	1935	15.0	1978	13.8	1.21
11	1936	10.4	1946	13.7	1.23
12	1937	10.7	1944	13.4	1.29
13 14	1938 1939	11.8 11.4	1952 1933	13.4 13.1	1.29 1.40
15	1940	10.9	1981	13.0	1.42
16	1941	9.2	1955	13.0	1.43
17	1942	12.5	1991	12.9	1.45
18 19	1943 1944	11.5 13.4	1930 1954	12.9 12.7	1.47 1.53
20	1944	10.0	1954	12.7	1.53
21	1946	13.7	1948	12.5	1.61
22	1947	11.6	1942	12.5	1.63
23 24	1948 1949	12.5 10.5	1953 1963	12.5 12.5	1.65 1.65
25	1950	9.9	1928	12.5	1.66
26	1951	12.7	1929	12.1	1.83
27	1952	13.4	1988	12.0	1.88
28 29	1953 1954	12.5 12.7	1931 1973	12.0 11.9	1.89 2.01
30	1955	13.0	1938	11.8	2.05
31	1956	10.4	1975	11.8	2.07
32 33	1957	8.2	1979	11.8	2.09
34	1958 1959	6.0 8.9	1962 1932	11.7 11.6	2.10 2.19
35	1980	7.2	1947	11.6	2.21
36	1961	9.6	1943	11.5	2.27
37 38	1962 1963	11.7 12.5	1980 1939	11.5 11.4	2.34 2.36
39	1964	10.8	1989	11,4	2.38
40	1965	10.8	1926	11.0	2.84
41 42	1966 1967	9.0	1940 1965	10.9 10.8	2.97
43	1968	17.2 9.6	1964	10.8	3.06 3.16
44	1969	10.0	1937	10.7	3.21
45	1970		1996	10.7	3.25
46 47	1971	14.8	1949 1982	10.5 10.5	3.54 3.68
48	1973	11.9	1936	10.4	3.72
49	1974	15.9	1956	10.4	3.72
50	1975	11.8	1993	10.4	3.83
51 52	1976 1977	15.0 14.4	1945 1969	10.0 10.0	4.66 4.72
53	1978	13.8	1950	9.9	4.83
54	1979	11.8	1995	9,9	4.99
55 56	1980 1981	11.5 13.0	1961 1968	9.6 9.6	5.72 5.95
57	1982	10.5	1987	9.5	6.02
58	1983		1941	9.2	7.57
59	1984	•	1990	9.2	7.56
60 61	1985 1986	17.3	1997 1966	9.1 9.0	7.83 8.24
62	1987	9.5	1959	8.9	9.17
63	1988	12.0	1957	8.2	14.50
64 65	1989 1990	11.4 9.2	1958 1960	8.0	16.38 31.60
66	1991	12.9	1992	7.2 6.7	31.60 47.69
67	1992	6.7			
68	1993	10.4			
69 70	1994 1995	16.8 9.9			
70	1996	10.7			
72	1997	9.1			
73	1998	-			
74 75	1999	-	!		

Calculation results						
Return period	Imperial+So csi: Average dischargein low water period (Jul- Sep) (m3/s)					
1000	4.09					
500	4.58					
250	5.13					
200	5.32					
100	5.96					
50	6.67					
30	7.26					
25	7.49					
20	7.77					
15	8.15					
10	8.74					
5	9.87					
4	10.29					
3	10.88					
2	11.87					
1.500 1.333	12.80 13.29					
1.250	13.29					
1.111	14.44					
1.071	14.82					
1.053	15.07					
1.042	15.25					
1.034	15.38					
1.020	15.74					
1.010	16.16					
1.005	16.54					
1,004	16.65					
1.002	16.97					
1.001	17.27					

