Upper Rio Grande BBEST Environmental Flows Recommendations Report

Errata

Page 3-17, Table 3.3-1: The Period of Record for Devils River near Juno should be: 1/1/1926 to 2/28/1949 and 3/1/1963 to 12/31/1972

Page 3-50, Figure 3.5-11: Date in title of graph should be 2011, not 2010

Page 3-57, Figure 3.7-2: Caption should include "From TCEQ station 13265, TCEQ TDS standard = 15,000 mg/L".

Page 3-59, Figure 3.7-4: Caption should include "From TCEQ station 13257, TCEQ TDS standard = 15,000 mg/L".

Page 3-60, Figure 3.7-5: Caption should include "From TCEQ station 13109, TCEQ TDS standard = 4,000 mg/L".

Page 3-62, Figure 3.7-7: Caption should include "From TCEQ station 13240, TCEQ TDS standard = 4,000 mg/L".

Page 3-90, Figures 3.8-1 and 3.8-2: Captions should include "From TCEQ station 13237".

Page 4-1 to 4-13, Tables 4.1-1, 3, 6, 7, 8, 9, 10, 11, 12, and 13 should be replaced with the following:

Table 4.1-1. Environmental Flow Regime recommendations, Alamito Creek

Overbank Flows		Qp: 2,4		Regres	Average sed Vol ssed Du	ume is	9,996	per 5	years			
	Qp: 1,459 cfs with Average Frequency 1 per 2 years Regressed Volume is 5,763 Regressed Duration is 6											
	Qp: 915 cfs with Average Frequency 1 per year Regressed Volume is 3,535 Regressed Duration is 5											
High Flow Pulses	Qp: 2 cfs with Average Frequency 1 per 2 seasons Volume is 1,448 Duration is 4			Qp: 484 cfs with Average Frequency 1 per 2 seasons Volume is 1,448 Duration is 4				Qp: 1,250 cfs with Average Frequency 1 per 2 seasons Volume is 5,175 Duration is 6				
			Qp: 226 cfs with Average Frequency 1 per season Volume is 648 Duration is 4			Qp: 675 cfs with Average Frequency 1 per season Volume is 2,700 Duration is 6						
Base Flows (cfs)	1.8(4	9.5%)		1.8(36.9%)			1.8(49.4%)					
Subsistence Flows (cfs)	0.71(9	97.8%)		0.71(87.0%)				0.71(87.8%)				
	Nov Dec Jan Feb Winter			Mar Apr May Jun Spring				Jul Aug Sep Oct Monsoon				
	Flow Levels High (75th %ile) Medium (50th % Low (25th %ile) Subsistence			oile) 1. Period of records				d: 1/1/1932 to 12/31/2009 d base flows calculated ws only.				

Table 4.1-3. Environmental Flow Regime recommendations, Terlingua Creek

Overbank Flows	Qp: 5,933 cfs with Average Frequency 1 per 5 years Volume is 18,999 Duration is 7									
	Qp: 3,673 cfs with Average Frequency 1 per 2 years Volume is 11,913 Duration is 7									
	Qp: 2,370 cfs with Average Frequency 1 per year Regressed Volume is 7,760 Regressed Duration is 6									
High Flow Pulses	Qp: 49 cfs w Frequency seas Volume Duratio	1 per 2	Avera	: 1,621 cfs wi age Frequency: 2 seasons Volume is 5,26 Duration is 5	1 per 51	Qp: 3,002 cfs with Average Frequency 1 per 2 seasons Volume is 9,961 Duration is 7				
	Qp: 6 cfs w Frequency 1 Volume Duratio	per season is 111	Qp: 950 cfs with Average Frequency 1 per season Volume is 3,079 Duration is 5			Qp: 2,041 cfs with Average Frequency 1 per season Volume is 6,890 Duration is 7				
			Qp: 389 cfs with Average Frequency 2 per season Volume is 1,261 Duration is 4			Qp: 1,130 cfs with Average Frequency 2 per season Volume is 3,899 Duration is 6				
Base Flows (cfs)	2.8(4	7.0%)		2.8(42.3%)	2.8(66.1%)					
Subsistence Flows (cfs)	1.4(9	6.2%)		1.1(96.7%)	1.1(97.7%)					
	Nov Dec Win	Jan Feb	Mar	Apr May	Jun	Jul	Aug	Sep	Oct	
	Win	iter		Spring			Mon	soon		
	Flow Levels	High (75th %ile) Medium (50th % Low (25th %ile) Subsistence	6ile) 1. Period of record: 1/1/1932 to 12/31						09	

Table 4.1-6. Environmental Flow Regime recommendations, Pecos River near Orla

Overbank Flows		Ωp: 1,770 cf	Vo	verage Frequence 1 verage 1 ve	79 -	1 per	5 years		
	Qp: 1,090 cfs with Average Frequency 1 per 2 years Volume is 5,617 Duration is 18								
		Qp: 619 c	Vol	s with Average Frequency 1 per year Volume is 4,687 Duration is 13					
High Flow Pulses	Qp: 109 c Average Frequ 2 seas Volume i Duratio	uency 1 per sons s 4,460	Qp: Average Vol Du	Qp: 772 cfs with Average Frequency 1 per 2 seasons Volume is #N/A Duration is 12					
	Qp: 53 cfs with Average Frequency 1 per season Volume is #N/A Duration is 4		Qp: Average Vol	Qp: 429 cfs with Average Frequency 1 per season Volume is 1,412 Duration is 9					
	17 (31			69 (52 . 4%)					
Base Flows	12 (50	•	44 (58.5%) 15 (72.0%)			33 (68.3%)			
(cfs)	8.8(67	.1%)	9	9.1(82.6%)			12 (8	2.7%)	
Subsistence Flows (cfs)	3.3(92	.1%)	3.3(96.5%)			3.3(96.6%)			
	Nov Dec	Jan Feb	Mar	Apr May	Jun	Jul	Aug	Sep	Oct
	Wint	er	Spring Monsoon						
	Flow Levels	High (75th % Medium (50th Low (25th %i	ı %ile)	Notes: 1. Period of record: 1/1/1938 to 12/31/ 2. Subsistence and base flows calculated					
		Subsistence		using non-zero flows only.					

using non-zero flows only.

Table 4.1-7. Environmental Flow Regime recommendations, Pecos River near Pecos

Overbank Flows			Qp: 3	.620 cf:	Vo	Average olume is Duratio	s 131,3		per 5	years		
	Qp: 2,180 cfs with Average Frequency 1 per 2 years Volume is 77,538 Duration is 19											
	Qp: 1,380 cfs with Average Frequency 1 per year Volume is 46,974 Duration is 16											
High Flow Pulses	Fr	equency seas olume	, 1 per sons is 8,29	2 7	Aver	age Fre 2 se Volume	quency asons is #N	1 per /A	Aver	Volume	quency asons	1 per 068
	Qp: 231 cfs with Average Frequency 1 per season Volume is 1,581 Duration is 6			Qp: 488 cfs with Average Frequency 1 per season Volume is #N/A Duration is 9				Qp: 470 cfs with Average Frequency 1 per season Volume is 8,422 Duration is 10				
	Qp: 1,380 cfs with Average Frequency Volume is 46,974	eason 1	Qp: 224 cfs with Average Frequency 2 per season Volume is #N/A Duration is 8									
Base Flows		•	•		• •				104 (45.0%) 30 (65.5%)			
(cfs)			•				•				82.3%)	
Subsistence Flows (cfs)		0.5(9	8.8%)			0.4(9	98.3%)			0.4(98.1%)	
	Nov			Feb	Mar			Jun	Jul	Aug	Sep	Oct
		Wir	iter			Sp	ring			Mor	isoon	
	Flow Levels Medium (50th % Low (25th %ile)				1. Period of record: 2. Subsistence and b							

Table 4.1-8. Environmental Flow Regime recommendations, Pecos River near Girvin

Overbank Flows		Qp: 9	23 cfs	V	Average olume i Duratio	s 34,42		er 5 y	rears			
	Qp: 299 cfs with Average Frequency 1 per 2 years Volume is 9,895 Duration is 16											
		Qp:	161 cf	7	Averag Olume :	is 4,51		per y	ear			
High Flow Pulses	Qp: 47 cfs v Frequency seas Volume Duratio	F	Volume	y 1 per sons	56	Qp: 164 cfs with Average Frequency 1 per 2 seasons Volume is 2,043 Duration is 10						
					Qp: 72 cfs with Average Frequency 1 per season Volume is 1,199 Duration is 6						th 1 per 19	
				<pre>Qp: 44 cfs with Average Frequency 2 per season Volume is 1,027 Duration is 4</pre>				<pre>Qp: 57 cfs with Average Frequency 2 per season Volume is 1,008 Duration is 4</pre>				
Base Flows		3.1%)			-	5.8%)		27 (42 . 4%)				
(cfs)	27 (70					3.3%)		18 (60.1%)				
Subsistence Flows (cfs)	22 (85.4%) 8.7 (100.0%)					8.7%) 95.8%)		13 (73.9%) 6.3 (93.8%)				
	Nov Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	
	Wir	Spring Mons						soon				
	Flow Levels	Notes: 1. Period of record: 1/1 2. Subsistence and base using non-zero flows on					ase flows calculated					

Table 4.1-9. Environmental Flow Regime recommendations, Independence Creek near Sheffield

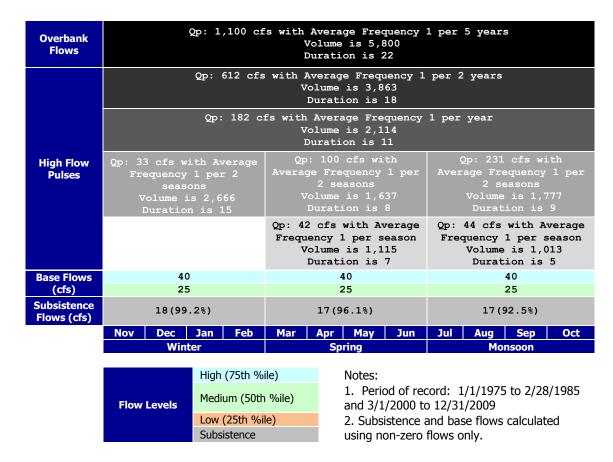


Table 4.1-10. Environmental Flow Regime recommendations, Pecos River near Brotherton Ranch

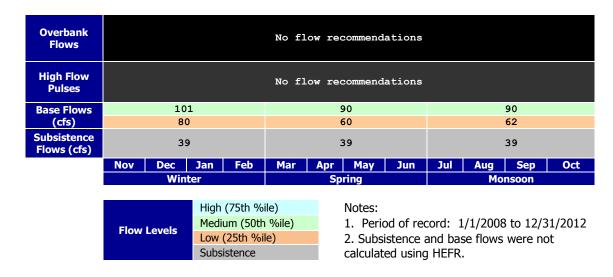


Table 4.1-11. Environmental Flow Regime recommendations, Pecos River near Langtry

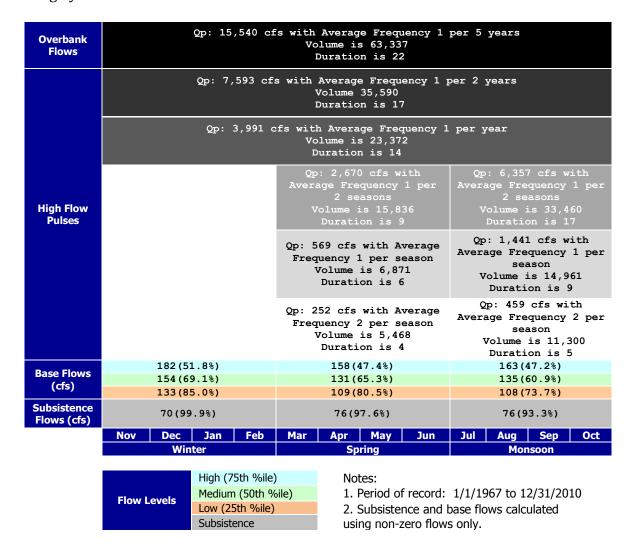


Table 4.1-12. Environmental Flow Regime recommendations, Devils River near Juno

Overbank Flows	(Qp: 39,200	Vol	Average Fre ume is 147, uration is	,711	y 1 per	5 year	s			
	Qp: 15,900 cfs with Average Frequency 1 per 2 years Volume is 72,060 Duration is 15										
	Qp: 3,570 cfs with Average Frequency 1 per year Volume is 21,870 Duration is 13										
High Flow Pulses			Average 2 Volum	,340 cfs wi Frequency : seasons me is 11,47	l per	Aver	Volume	quency asons	1 per 533		
			Qp: Average Volu	Qp: 990 cfs with Average Frequency 1 per season Volume is 13,068 Duration is 13							
Base Flows	82 (54 .	•		86 (49.4%)							
(cfs)	74 (67 . 56 (81 .	•	125 59 (76.0%)			77 (62.7%) 63 (76.9%)					
Subsistence Flows (cfs)	26 (97			24 (95.8%)				26 (95.3%)			
	Nov Dec	Jan Feb	Mar /	Apr May	Jun	Jul	Aug	Sep	Oct		
	Wint	er		Spring			Мог	isoon			
		High (75th	1 Period of r			record: 1/1/1926 to 2/28/1949					
	Flow Levels	Low (25th 9) Subsistence	%ile)	and 3/1/1963 to 12/31/1972 2. Subsistence and base flows calculated using non-zero flows only.							

Table 4.1-13. Environmental Flow Regime recommendations, Devils River at Pafford's Crossing

