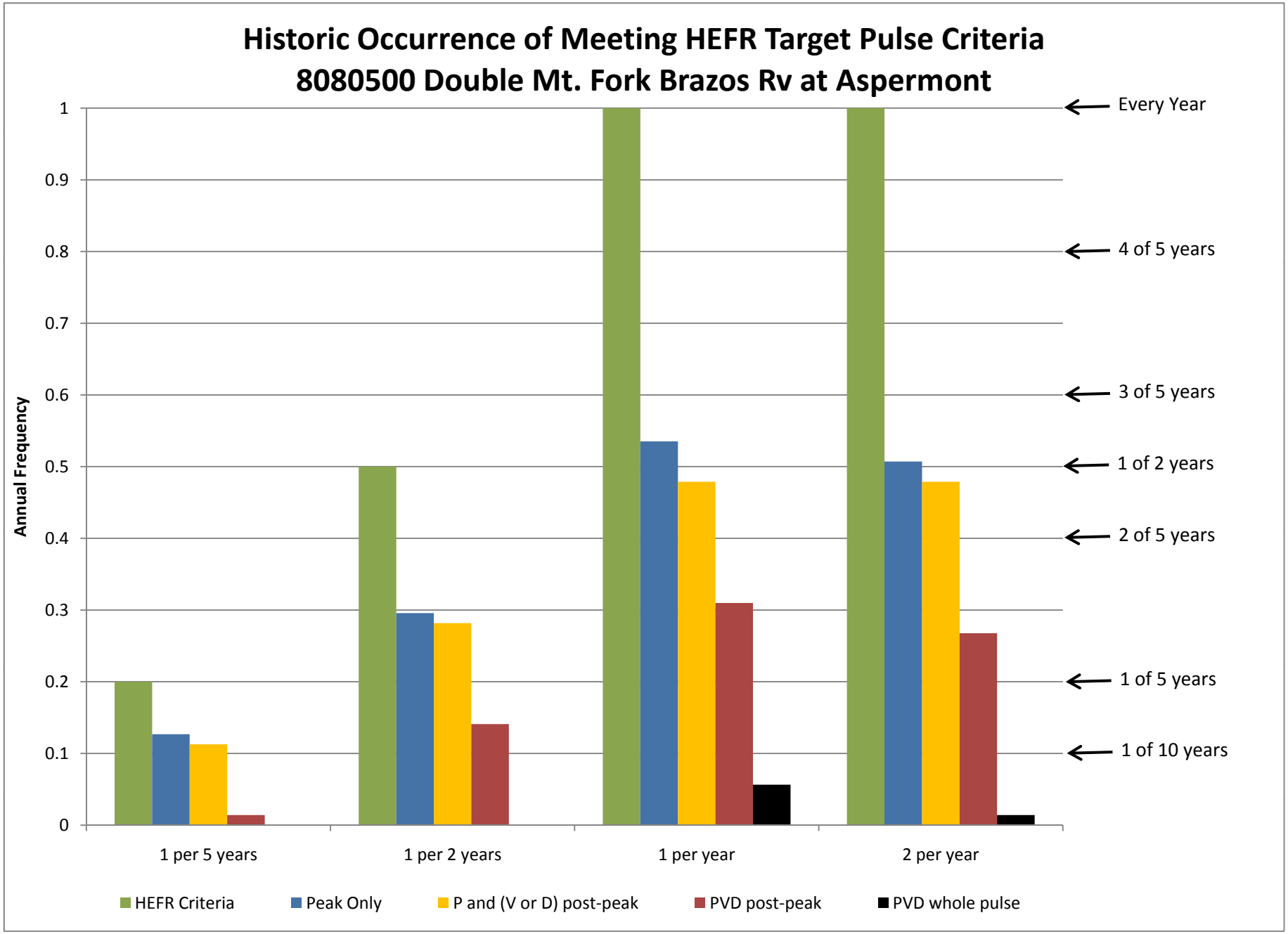
8080500 Double Mt. Fork Brazos Rv at Aspermont

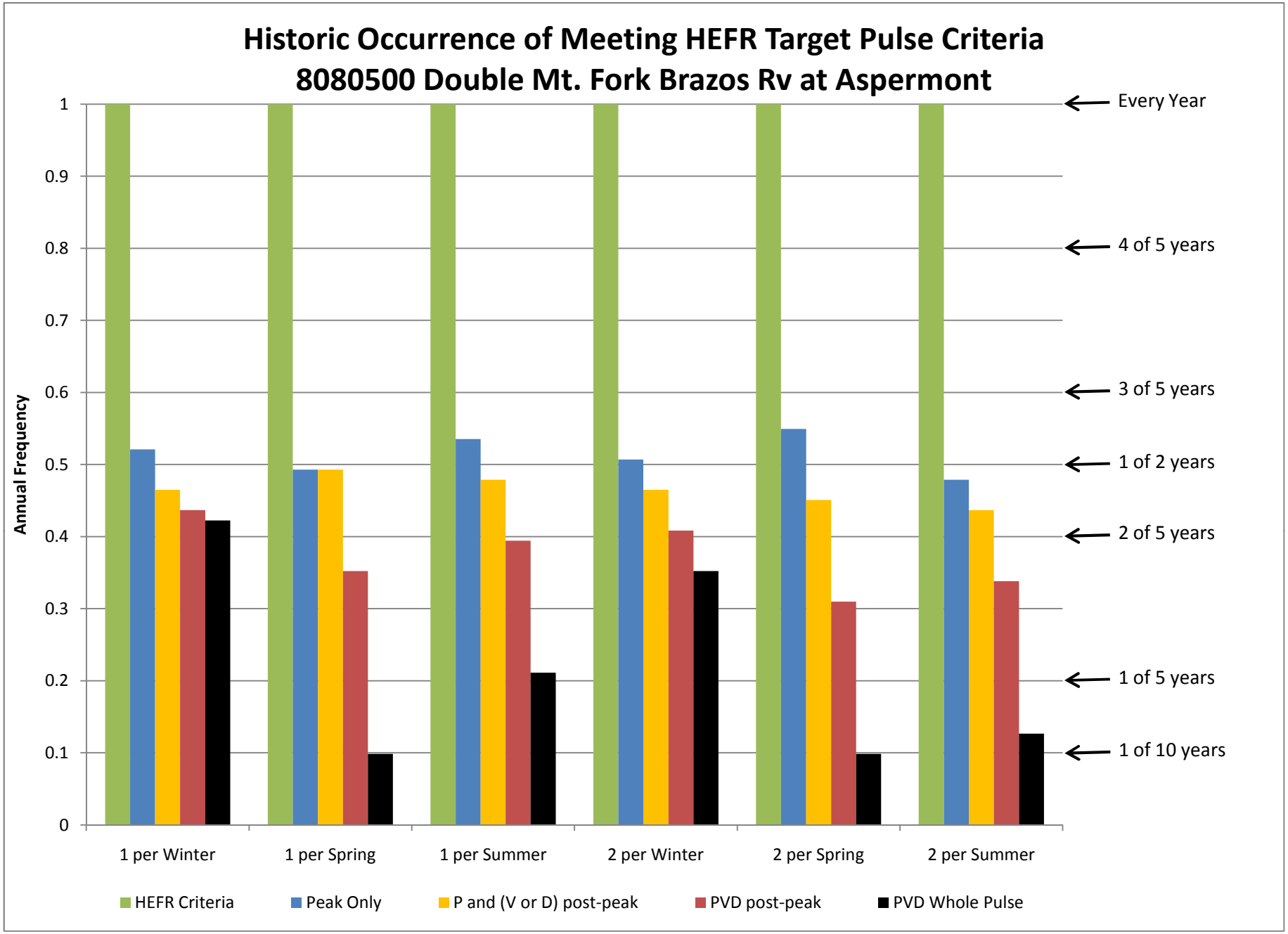
Overbank Flows	Qp: 16,300 cfs with Average Frequency 1 per 5 years Regressed Volume is 8,724 to 53,630 (21,631) Regressed Duration is 5 to 25 (11)		
High Flow Pulses	Qp: 9,490 cfs with Average Frequency 1 per 2 years Regressed Volume is 5,387 to 33,083 (13,350) Regressed Duration is 4 to 22 (9)		
	Qp: 5,130 cfs with Average Frequency 1 per year Regressed Volume is 3,113 to 19,101 (7,711) Regressed Duration is 3 to 19 (8)		
	Qp: 2,690 cfs with Average Frequency 2 per year Regressed Volume is 1,751 to 10,734 (4,335) Regressed Duration is 3 to 16 (7)		
	Qp: 92 cfs with Average Frequency 1 per season Regressed Volume is 133 to 837 (334) Regressed Duration is 2 to 10 (4)	Qp: 2,730 cfs with Average Frequency 1 per season Regressed Volume is 1,665 to 9,996 (4,080) Regressed Duration is 3 to 14 (6)	Qp: 2,540 cfs with Average Frequency 1 per season Regressed Volume is 1,797 to 9,988 (4,237) Regressed Duration is 3 to 16 (7)
	Qp: 30 cfs with Average Frequency 2 per season Regressed Volume is 45 to 281 (112) Regressed Duration is 1 to 6 (3)	Qp: 1,120 cfs with Average Frequency 2 per season Regressed Volume is 760 to 4,554 (1,860) Regressed Duration is 2 to 11 (5)	Qp: 1,040 cfs with Average Frequency 2 per season Regressed Volume is 762 to 4,227 (1,794) Regressed Duration is 2 to 12 (5)
Base Flows (cfs)	15(37.9%)	8(55.4%)	6.7(54.0%)
	3.8(56.6%)	2.6(65.6%)	2.2(63.0%)
	0.5(72.6%)	0.4(76.1%)	0.38(72.3%)
Subsistence Flows (cfs)	0(100.0%)	0(100.0%)	0(100.0%)
	Nov Dec Jan Feb	Mar Apr May Jun	Jul Aug Sep Oct
	Winter	Spring	Summer

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

Notes:

1. Period of Record used : 1/1/1940 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8080500 Double Mt. Fork Brazos Rv at Aspermont
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8080500 Double Mt. Fork Brazos Rv at Aspermont
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8082000 Salt Fork Brazos Rv nr Aspermont

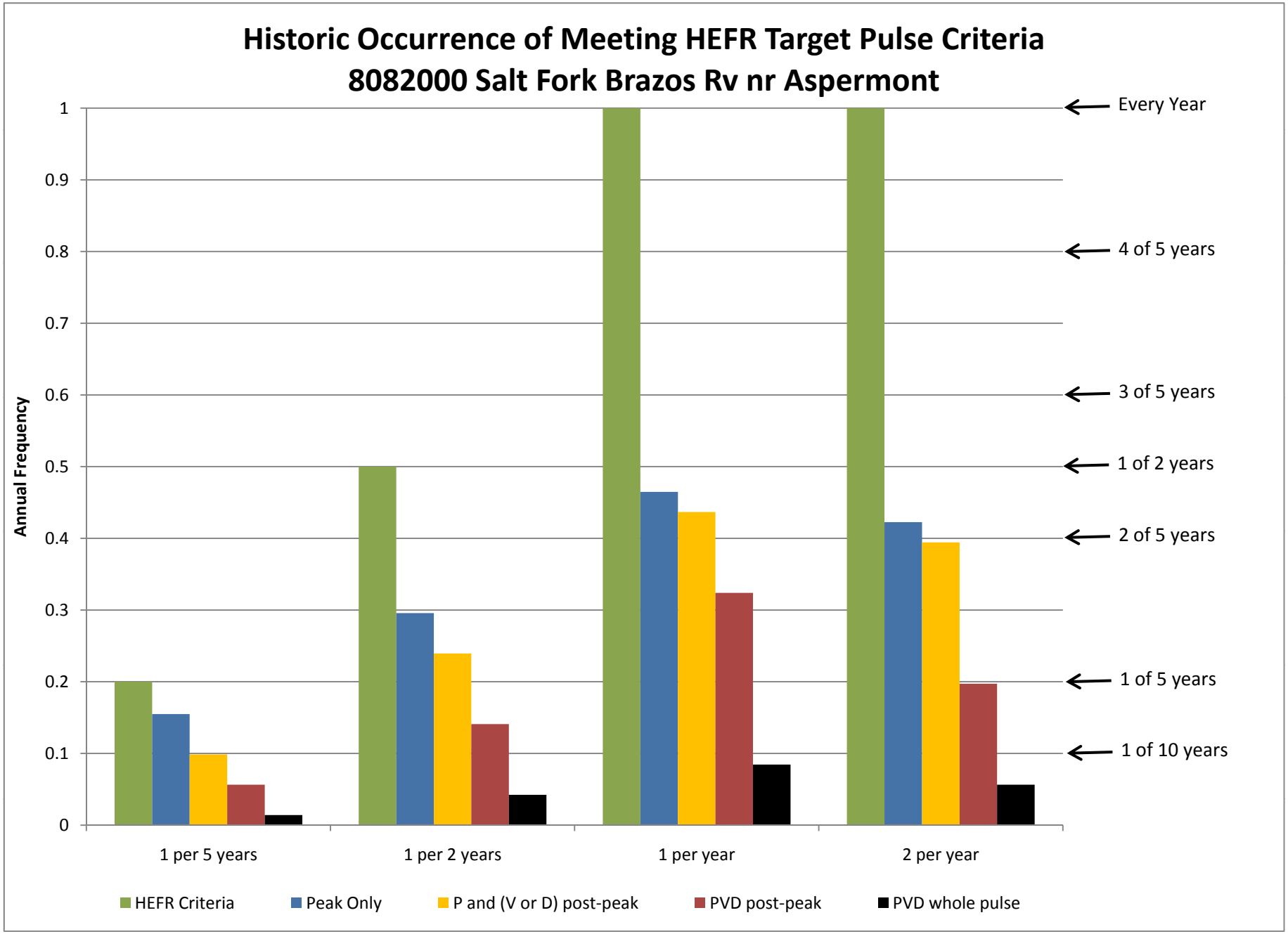
Overbank Flows	Qp: 9,340 cfs with Average Frequency 1 per 5 years Regressed Volume is 5,363 to 31,542 (13,007) Regressed Duration is 4 to 22 (10)		
High Flow Pulses	Qp: 6,040 cfs with Average Frequency 1 per 2 years Regressed Volume is 3,625 to 21,305 (8,789) Regressed Duration is 4 to 20 (9)		
	Qp: 3,610 cfs with Average Frequency 1 per year Regressed Volume is 2,283 to 13,406 (5,532) Regressed Duration is 3 to 18 (8)		
	Qp: 1,740 cfs with Average Frequency 2 per year Regressed Volume is 1,185 to 6,952 (2,870) Regressed Duration is 3 to 15 (7)		
	Qp: 69 cfs with Average Frequency 1 per season Regressed Volume is 113 to 612 (263) Regressed Duration is 3 to 10 (5)	Qp: 1,790 cfs with Average Frequency 1 per season Regressed Volume is 1,249 to 6,541 (2,858) Regressed Duration is 3 to 13 (6)	Qp: 1,580 cfs with Average Frequency 1 per season Regressed Volume is 1,126 to 6,404 (2,686) Regressed Duration is 3 to 15 (7)
	Qp: 31 cfs with Average Frequency 2 per season Regressed Volume is 51 to 275 (118) Regressed Duration is 2 to 7 (4)	Qp: 667 cfs with Average Frequency 2 per season Regressed Volume is 504 to 2,634 (1,152) Regressed Duration is 2 to 10 (5)	Qp: 517 cfs with Average Frequency 2 per season Regressed Volume is 370 to 2,102 (882) Regressed Duration is 2 to 10 (5)
Base Flows (cfs)	8.5(44.7%)	4.6(59.2%)	2.8(51.0%)
	4.2(62.9%)	2.3(71.2%)	1(58.6%)
	1(79.2%)	1(78.9%)	1(58.6%)
Subsistence Flows (cfs)	1(79.2%)	1(78.9%)	1(58.6%)

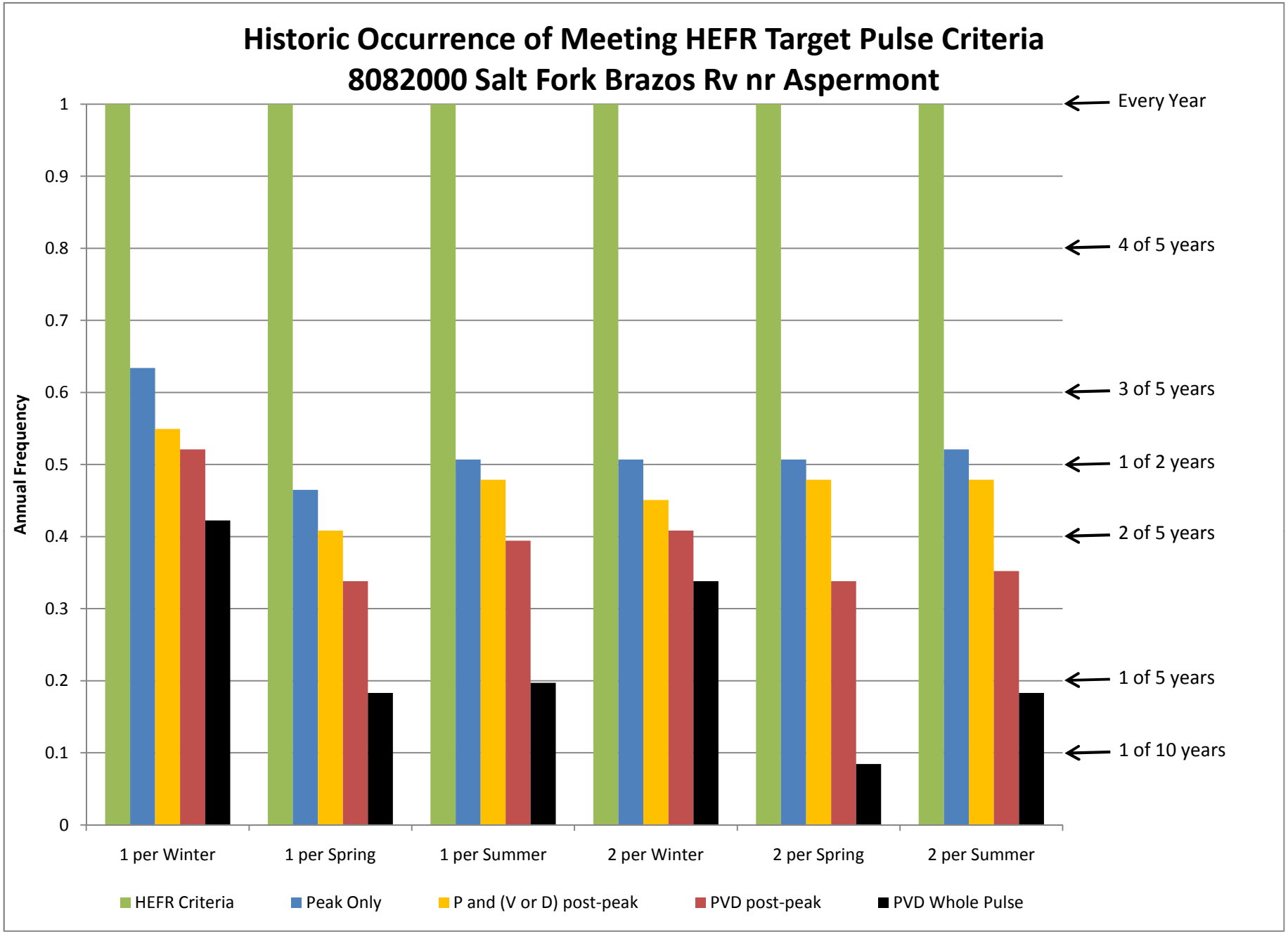
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1940 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0.06 cfs. Water Quality Protection Flow entered by user is 1 cfs.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8082000 Salt Fork Brazos Rv nr Aspermont
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8082000 Salt Fork Brazos Rv nr Aspermont
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8082500 Brazos Rv at Seymour

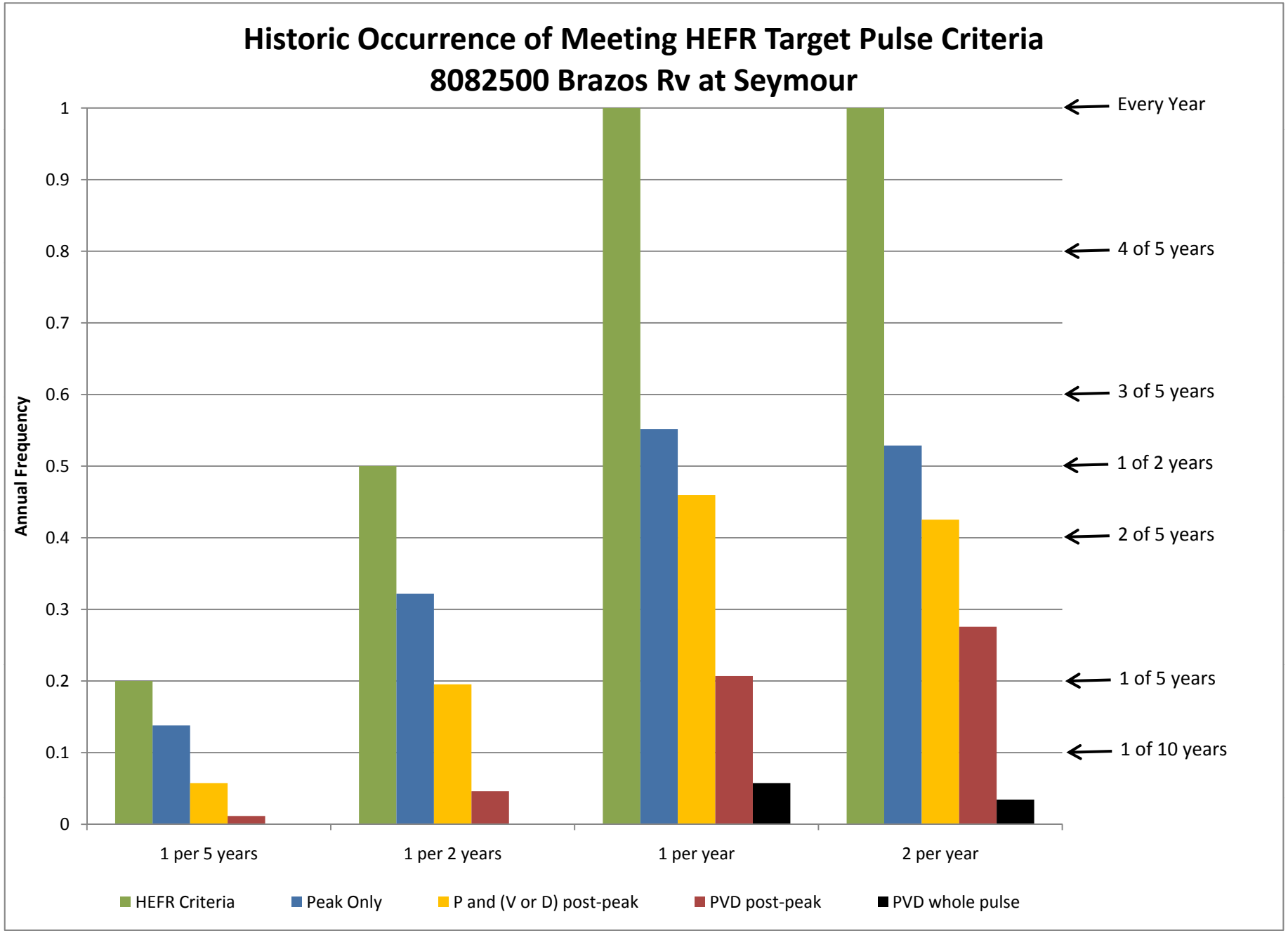
Overbank Flows	Qp: 29,400 cfs with Average Frequency 1 per 5 years Regressed Volume is 43,522 to 181,310 (88,831) Regressed Duration is 8 to 35 (17)		
High Flow Pulses	Qp: 16,800 cfs with Average Frequency 1 per 2 years Regressed Volume is 24,647 to 102,600 (50,287) Regressed Duration is 6 to 29 (13)		
	Qp: 10,400 cfs with Average Frequency 1 per year Regressed Volume is 15,140 to 62,989 (30,881) Regressed Duration is 5 to 24 (11)		
	Qp: 4,850 cfs with Average Frequency 2 per year Regressed Volume is 6,973 to 28,991 (14,218) Regressed Duration is 4 to 18 (8)		
	Qp: 245 cfs with Average Frequency 1 per season Regressed Volume is 430 to 1,728 (862) Regressed Duration is 2 to 7 (3)	Qp: 4,730 cfs with Average Frequency 1 per season Regressed Volume is 6,597 to 26,746 (13,284) Regressed Duration is 4 to 16 (7)	Qp: 4,570 cfs with Average Frequency 1 per season Regressed Volume is 6,248 to 25,506 (12,624) Regressed Duration is 4 to 17 (8)
	Qp: 95 cfs with Average Frequency 2 per season Regressed Volume is 135 to 543 (271) Regressed Duration is 1 to 4 (2)	Qp: 2,000 cfs with Average Frequency 2 per season Regressed Volume is 2,750 to 11,135 (5,533) Regressed Duration is 3 to 12 (6)	Qp: 1,560 cfs with Average Frequency 2 per season Regressed Volume is 2,118 to 8,635 (4,277) Regressed Duration is 3 to 12 (5)
Base Flows (cfs)	46(40.1%)	35(60.0%)	32(54.3%)
	25(58.5%)	19(71.9%)	13(64.3%)
	9.7(76.5%)	6.9(83.1%)	3.6(74.3%)
Subsistence Flows (cfs)	0(100.0%)	0(100.0%)	0(100.0%)

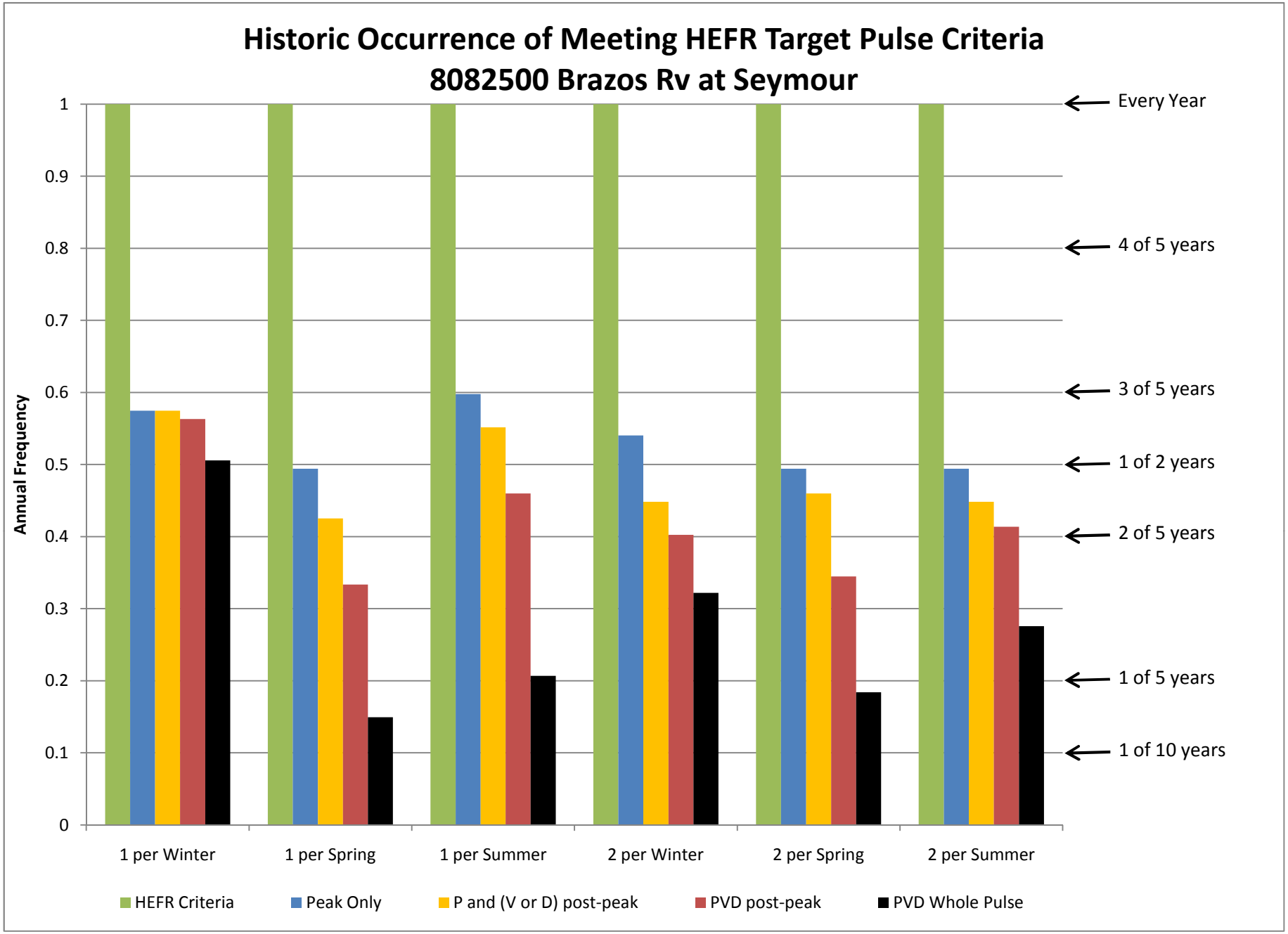
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1924 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8082500 Brazos Rv at Seymour
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8082500 Brazos Rv at Seymour
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8084000 Clear Fork Brazos Rv at Nugent

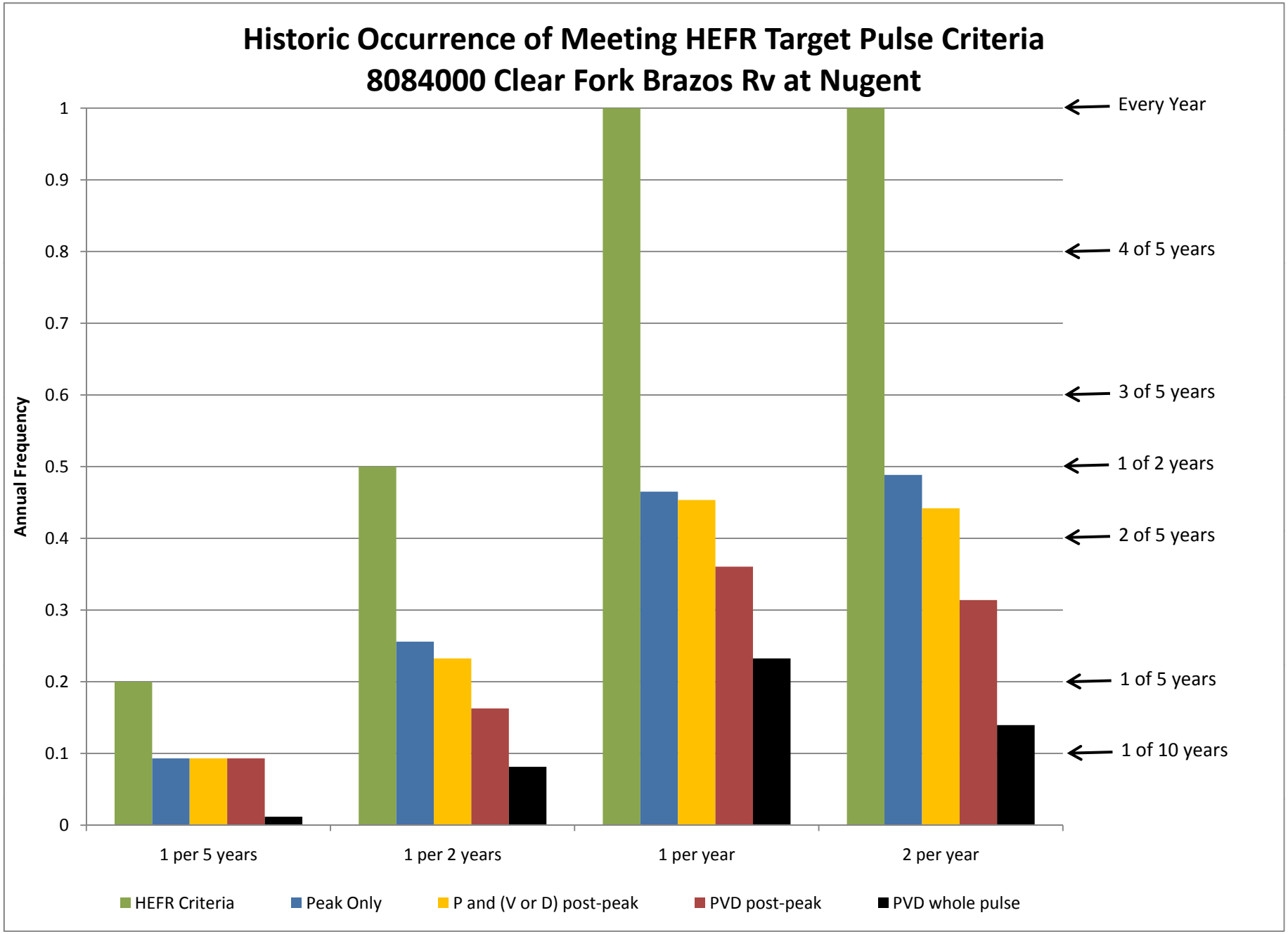
Overbank Flows	Qp: 7,850 cfs with Average Frequency 1 per 5 years Regressed Volume is 4,183 to 25,620 (10,352) Regressed Duration is 4 to 21 (10)		
High Flow Pulses	Qp: 4,460 cfs with Average Frequency 1 per 2 years Regressed Volume is 2,504 to 15,322 (6,194) Regressed Duration is 4 to 18 (8)		
	Qp: 2,390 cfs with Average Frequency 1 per year Regressed Volume is 1,421 to 8,690 (3,514) Regressed Duration is 3 to 15 (7)		
	Qp: 1,270 cfs with Average Frequency 2 per year Regressed Volume is 800 to 4,891 (1,979) Regressed Duration is 3 to 13 (6)		
	Qp: 111 cfs with Average Frequency 1 per season Regressed Volume is 140 to 763 (327) Regressed Duration is 2 to 10 (5)	Qp: 1,290 cfs with Average Frequency 1 per season Regressed Volume is 847 to 4,612 (1,977) Regressed Duration is 2 to 11 (5)	Qp: 977 cfs with Average Frequency 1 per season Regressed Volume is 558 to 3,734 (1,443) Regressed Duration is 3 to 12 (6)
	Qp: 25 cfs with Average Frequency 2 per season Regressed Volume is 35 to 188 (81) Regressed Duration is 1 to 6 (3)	Qp: 586 cfs with Average Frequency 2 per season Regressed Volume is 413 to 2,246 (963) Regressed Duration is 2 to 10 (4)	Qp: 394 cfs with Average Frequency 2 per season Regressed Volume is 238 to 1,593 (616) Regressed Duration is 2 to 9 (4)
Base Flows (cfs)	13(43.3%)	12(54.5%)	8.8(49.8%)
	8(60.6%)	5.9(72.1%)	3.7(64.8%)
	4.5(79.2%)	3.1(84.4%)	1.4(76.4%)
Subsistence Flows (cfs)	0.5(95.2%)	0.4(95.2%)	0(100.0%)

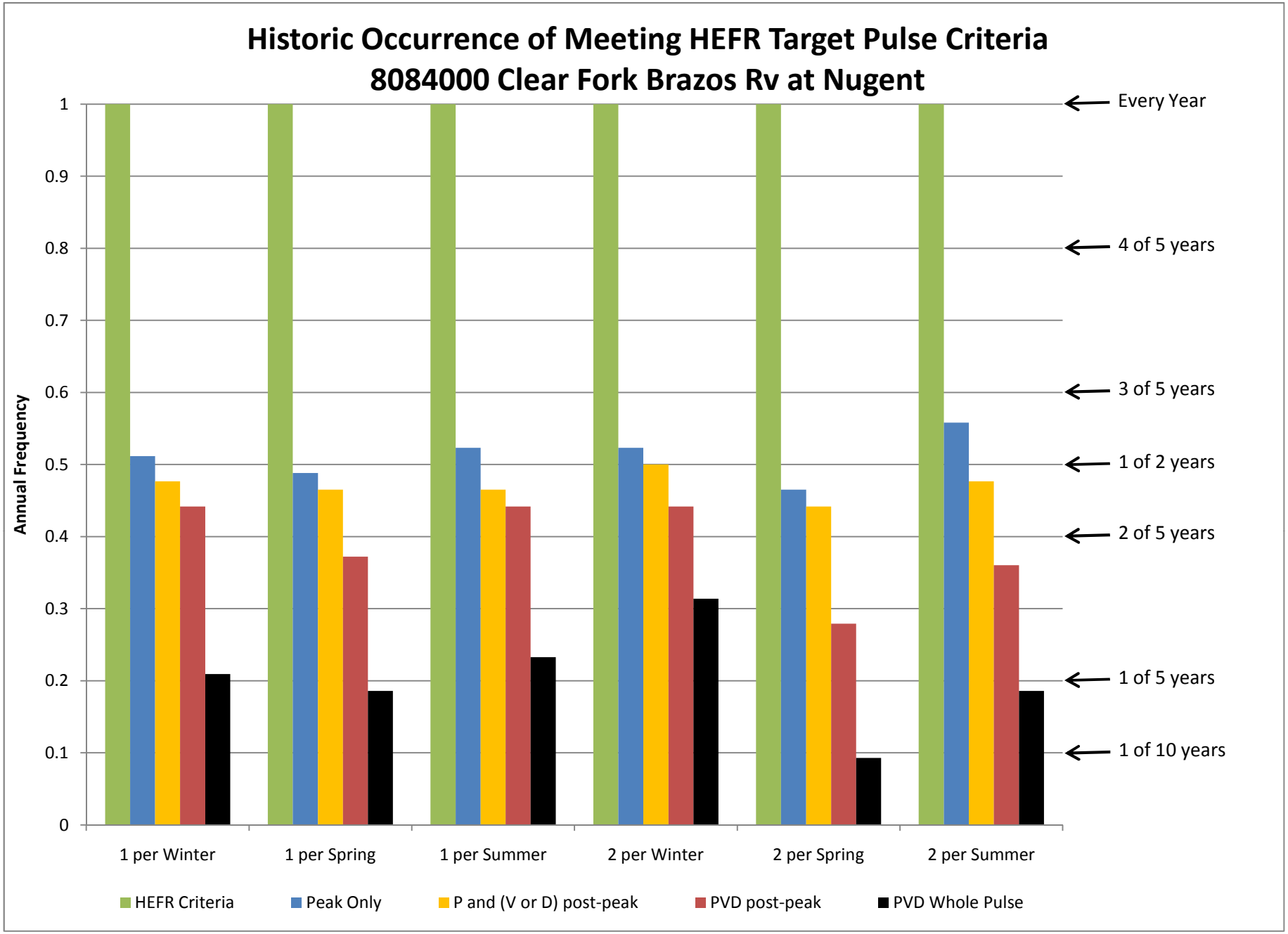
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1925 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0.1 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8084000 Clear Fork Brazos Rv at Nugent
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8084000 Clear Fork Brazos Rv at Nugent
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8085500 Clear Fork Brazos Rv nr Fort Griffin

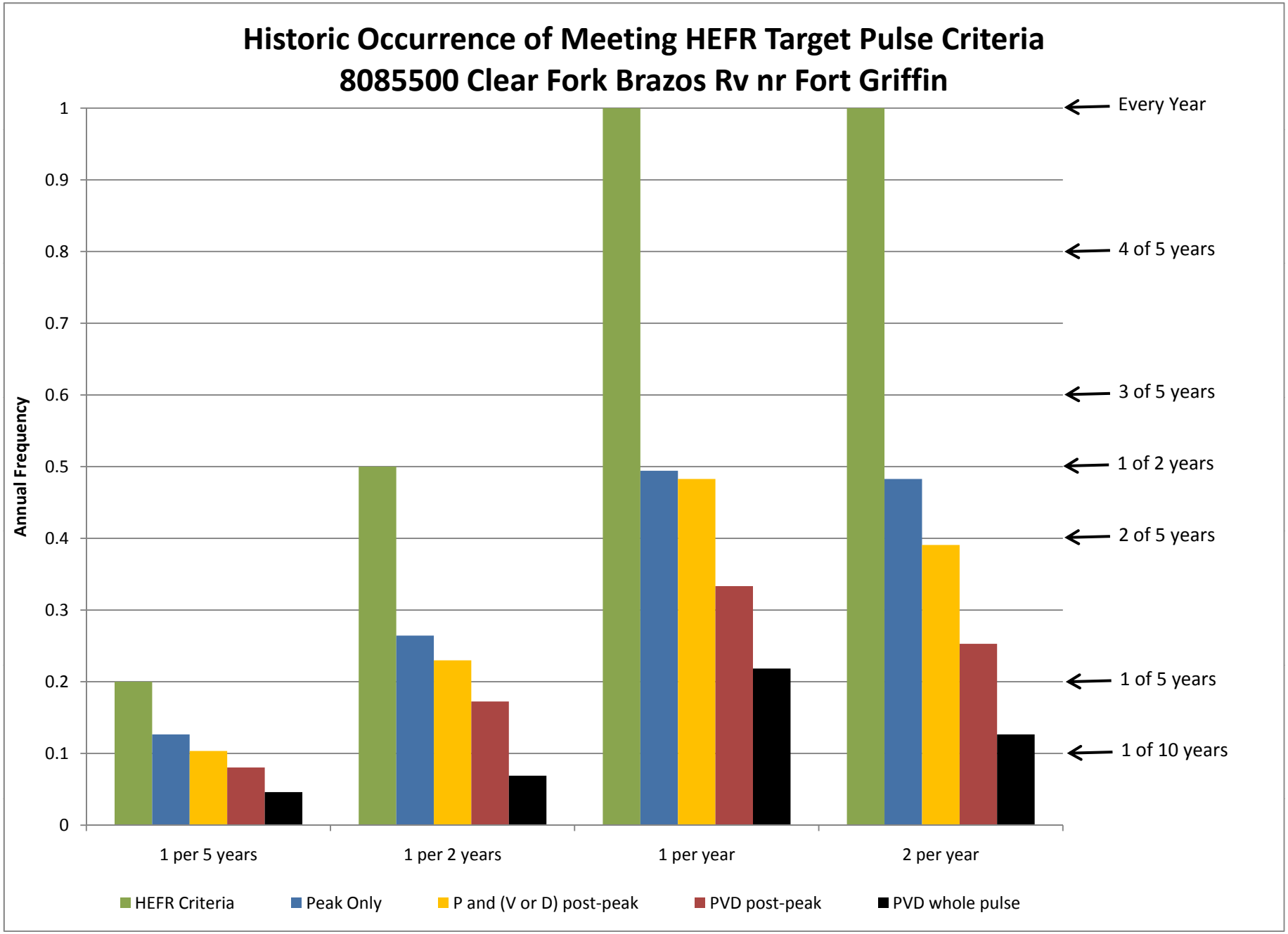
Overbank Flows	Qp: 13,600 cfs with Average Frequency 1 per 5 years Regressed Volume is 16,625 to 72,447 (34,705) Regressed Duration is 6 to 28 (13)		
High Flow Pulses	Qp: 8,630 cfs with Average Frequency 1 per 2 years Regressed Volume is 10,680 to 46,519 (22,289) Regressed Duration is 5 to 25 (11)		
	Qp: 4,970 cfs with Average Frequency 1 per year Regressed Volume is 6,243 to 27,179 (13,026) Regressed Duration is 5 to 21 (10)		
	Qp: 2,770 cfs with Average Frequency 2 per year Regressed Volume is 3,534 to 15,381 (7,373) Regressed Duration is 4 to 18 (8)		
	Qp: 235 cfs with Average Frequency 1 per season Regressed Volume is 384 to 1,898 (854) Regressed Duration is 2 to 12 (5)	Qp: 2,970 cfs with Average Frequency 1 per season Regressed Volume is 3,809 to 14,880 (7,528) Regressed Duration is 3 to 15 (7)	Qp: 1,980 cfs with Average Frequency 1 per season Regressed Volume is 2,391 to 10,611 (5,037) Regressed Duration is 4 to 18 (8)
	Qp: 61 cfs with Average Frequency 2 per season Regressed Volume is 94 to 463 (209) Regressed Duration is 1 to 7 (3)	Qp: 1,230 cfs with Average Frequency 2 per season Regressed Volume is 1,638 to 6,395 (3,237) Regressed Duration is 3 to 13 (6)	Qp: 700 cfs with Average Frequency 2 per season Regressed Volume is 856 to 3,796 (1,803) Regressed Duration is 3 to 13 (6)
Base Flows (cfs)	34(36.4%)	27(56.1%)	20(46.7%)
	17(56.6%)	13(72.1%)	5(64.1%)
	7.8(74.8%)	3.9(85.4%)	1.3(72.4%)
Subsistence Flows (cfs)	0(100.0%)	0(100.0%)	0(100.0%)

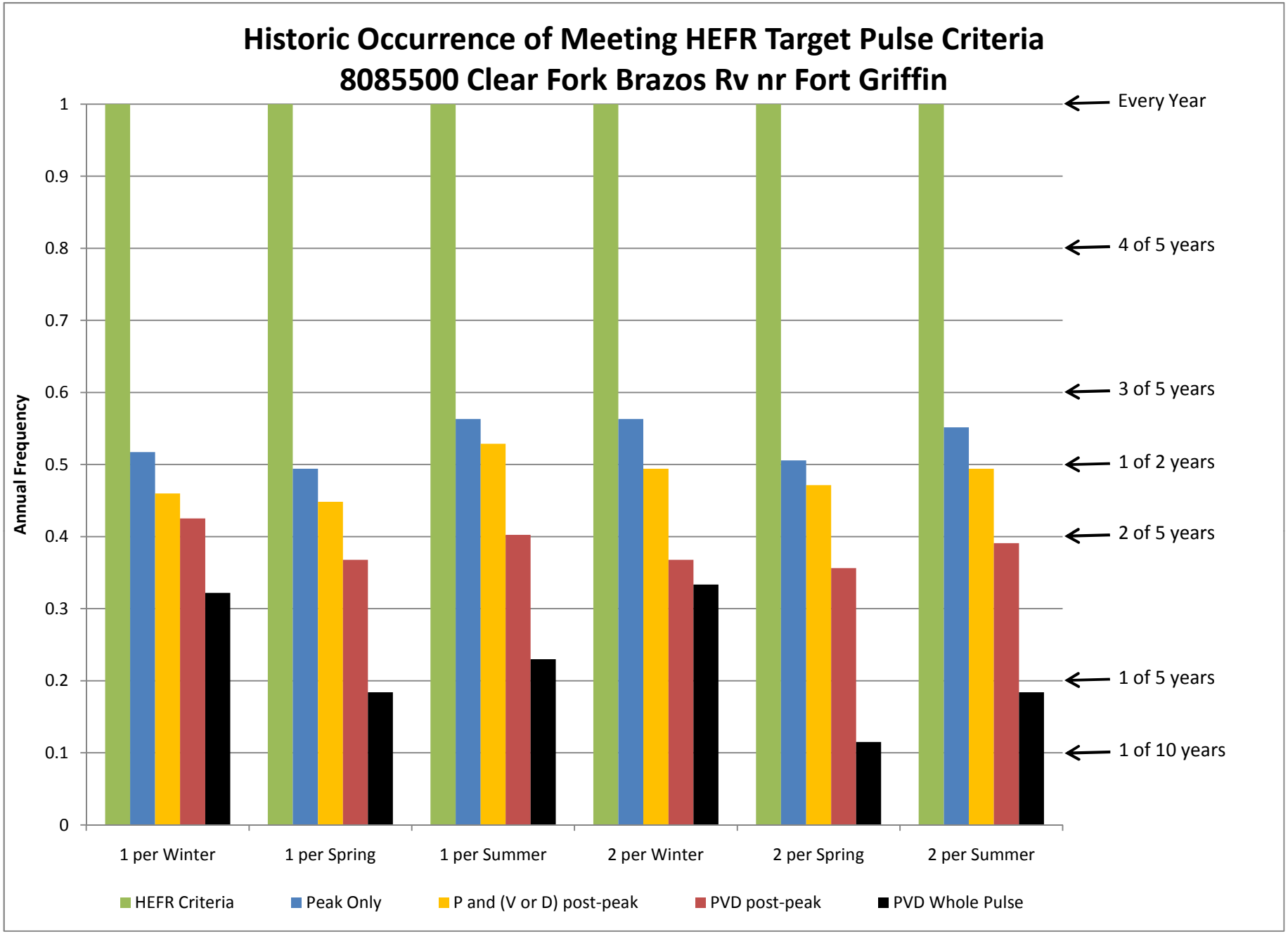
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 2/1/1924 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8085500 Clear Fork Brazos Rv nr Fort Griffin
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8085500 Clear Fork Brazos Rv nr Fort Griffin
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8088000 Brazos Rv nr South Bend

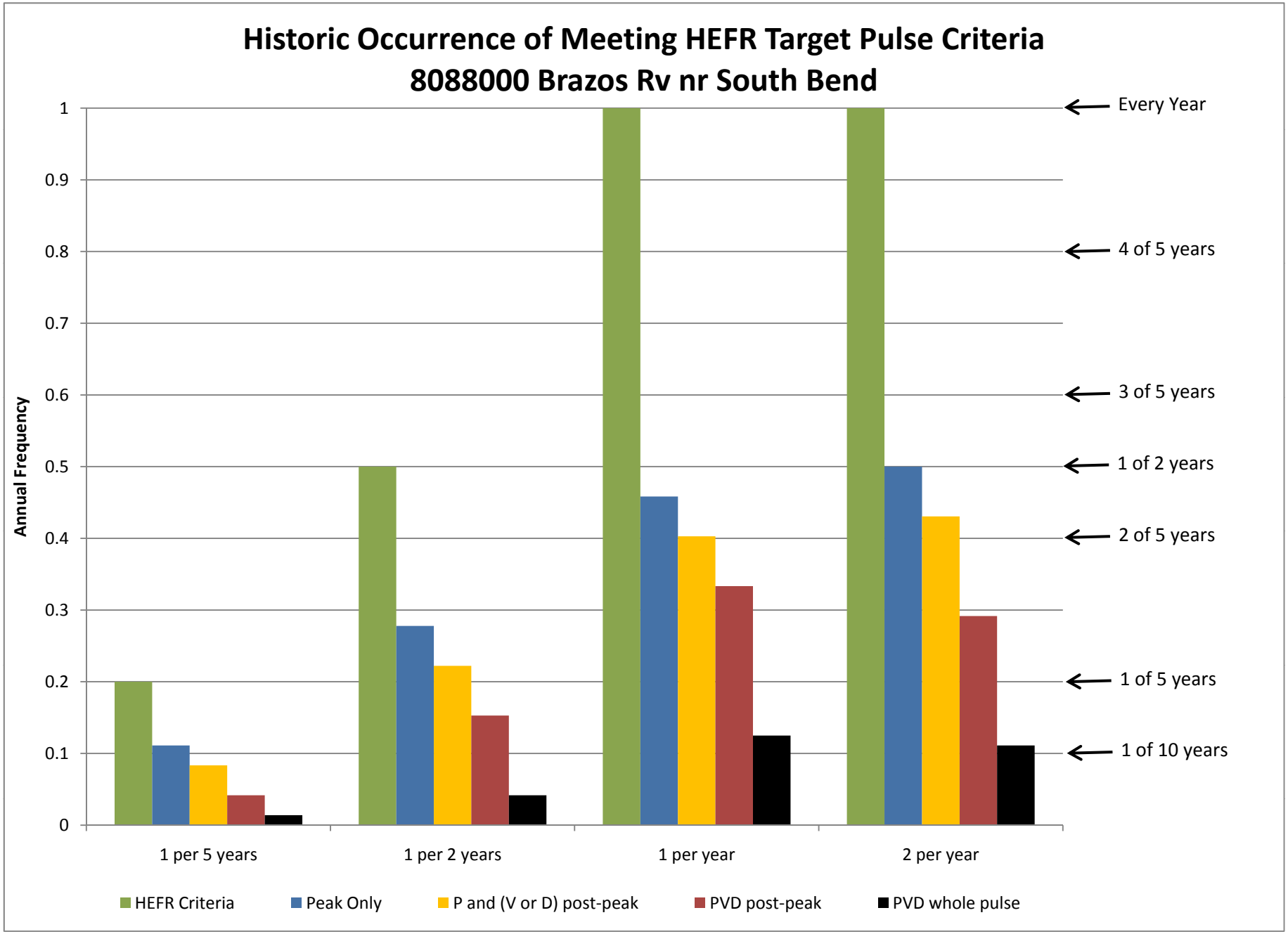
Overbank Flows	Qp: 34,500 cfs with Average Frequency 1 per 5 years Regressed Volume is 70,721 to 295,784 (144,632) Regressed Duration is 7 to 33 (15)		
High Flow Pulses	Qp: 25,400 cfs with Average Frequency 1 per 2 years Regressed Volume is 50,755 to 212,156 (103,769) Regressed Duration is 6 to 29 (14)		
	Qp: 15,800 cfs with Average Frequency 1 per year Regressed Volume is 30,345 to 126,745 (62,017) Regressed Duration is 5 to 24 (11)		
	Qp: 8,910 cfs with Average Frequency 2 per year Regressed Volume is 16,312 to 68,080 (33,324) Regressed Duration is 4 to 19 (9)		
	Qp: 962 cfs with Average Frequency 1 per season Regressed Volume is 1,691 to 7,908 (3,657) Regressed Duration is 2 to 9 (5)	Qp: 9,560 cfs with Average Frequency 1 per season Regressed Volume is 16,795 to 66,130 (33,326) Regressed Duration is 4 to 17 (8)	Qp: 7,440 cfs with Average Frequency 1 per season Regressed Volume is 13,806 to 57,256 (28,116) Regressed Duration is 4 to 19 (9)
	Qp: 268 cfs with Average Frequency 2 per season Regressed Volume is 384 to 1,803 (832) Regressed Duration is 1 to 5 (2)	Qp: 4,550 cfs with Average Frequency 2 per season Regressed Volume is 7,480 to 29,414 (14,833) Regressed Duration is 3 to 13 (6)	Qp: 2,560 cfs with Average Frequency 2 per season Regressed Volume is 4,342 to 17,974 (8,834) Regressed Duration is 3 to 12 (6)
Base Flows (cfs)	119(40.1%)	101(61.4%)	95(54.4%)
	73(58.7%)	60(73.5%)	46(66.1%)
	36(77.1%)	29(85.2%)	16(78.1%)
Subsistence Flows (cfs)	2.5(95.0%)	7(95.0%)	0.02(95.1%)

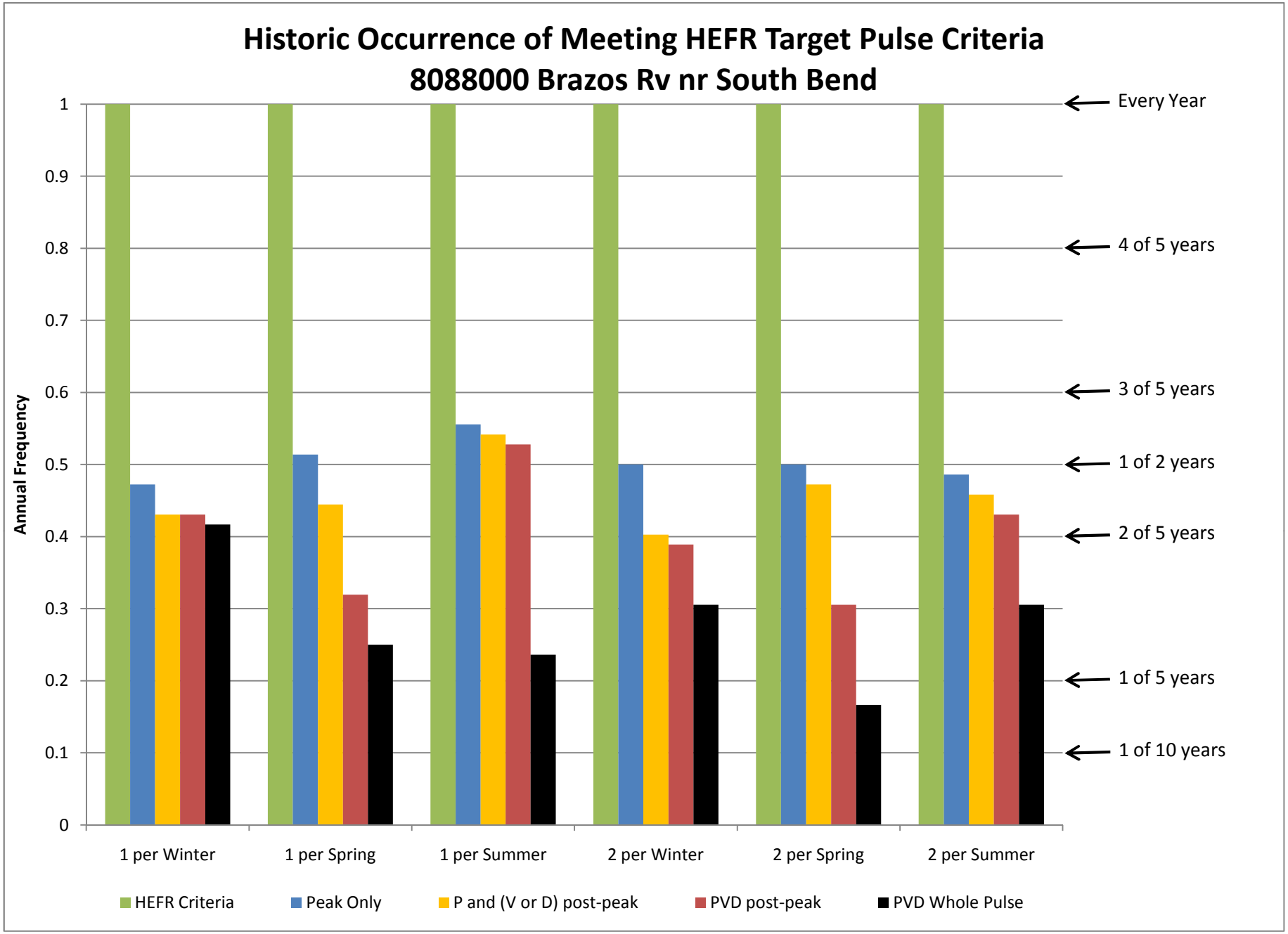
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1939 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 1.3 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8088000 Brazos Rv nr South Bend
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8088000 Brazos Rv nr South Bend
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8089000 Brazos Rv nr Palo Pinto

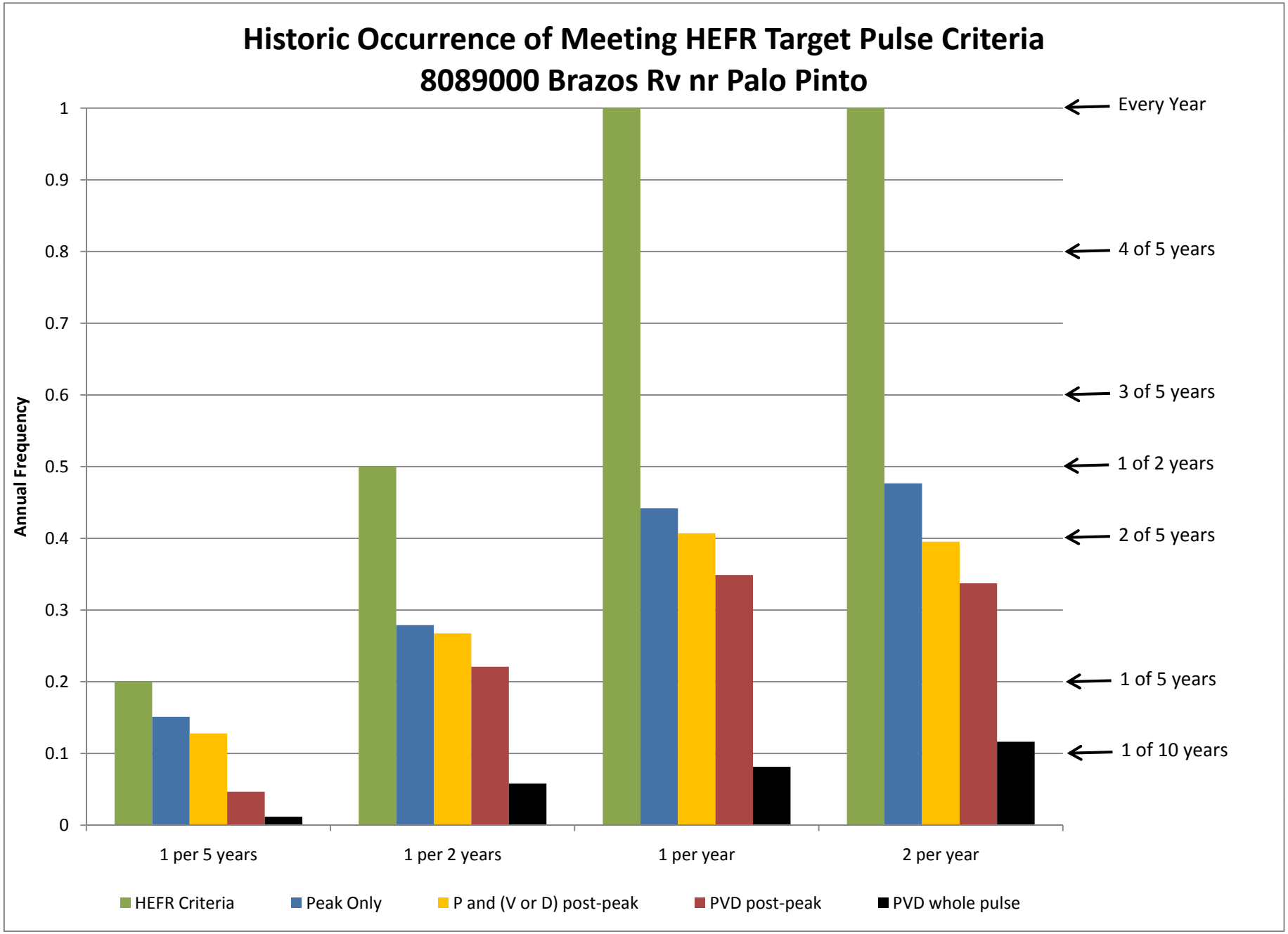
Overbank Flows	Qp: 38,200 cfs with Average Frequency 1 per 5 years Regressed Volume is 73,380 to 359,022 (162,311) Regressed Duration is 6 to 22 (12)		
High Flow Pulses	Qp: 25,800 cfs with Average Frequency 1 per 2 years Regressed Volume is 45,760 to 223,727 (101,182) Regressed Duration is 5 to 18 (10)		
	Qp: 17,500 cfs with Average Frequency 1 per year Regressed Volume is 28,682 to 140,145 (63,401) Regressed Duration is 4 to 15 (8)		
	Qp: 9,820 cfs with Average Frequency 2 per year Regressed Volume is 14,309 to 69,863 (31,618) Regressed Duration is 3 to 11 (6)		
	Qp: 1,890 cfs with Average Frequency 1 per season Regressed Volume is 2,115 to 8,546 (4,252) Regressed Duration is 2 to 5 (3)	Qp: 10,700 cfs with Average Frequency 1 per season Regressed Volume is 13,869 to 79,022 (33,105) Regressed Duration is 3 to 12 (6)	Qp: 7,440 cfs with Average Frequency 1 per season Regressed Volume is 10,892 to 52,555 (23,925) Regressed Duration is 3 to 10 (5)
	Qp: 1,390 cfs with Average Frequency 2 per season Regressed Volume is 1,447 to 5,840 (2,907) Regressed Duration is 1 to 4 (2)	Qp: 3,370 cfs with Average Frequency 2 per season Regressed Volume is 3,514 to 19,977 (8,379) Regressed Duration is 2 to 7 (3)	Qp: 2,260 cfs with Average Frequency 2 per season Regressed Volume is 2,620 to 12,617 (5,750) Regressed Duration is 2 to 6 (3)
Base Flows (cfs)	102(51.1%)	116(61.8%)	123(61.6%)
	61(65.8%)	75(72.9%)	72(72.5%)
	40(80.3%)	39(84.3%)	40(83.2%)
Subsistence Flows (cfs)	18(95.1%)	19(95.3%)	16(95.1%)

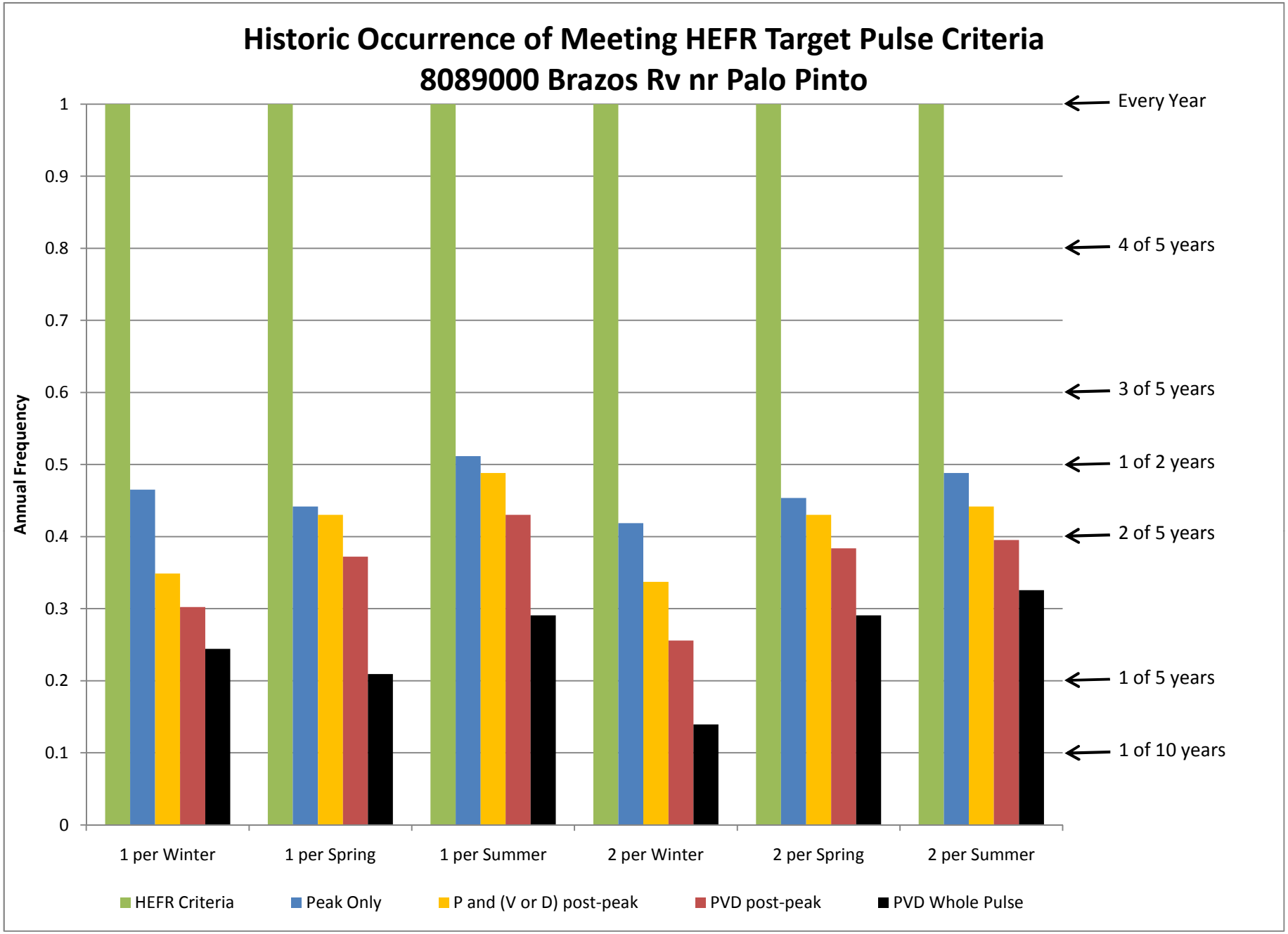
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1925 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 17 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8089000 Brazos Rv nr Palo Pinto
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8089000 Brazos Rv nr Palo Pinto
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8091000 Brazos Rv nr Glen Rose

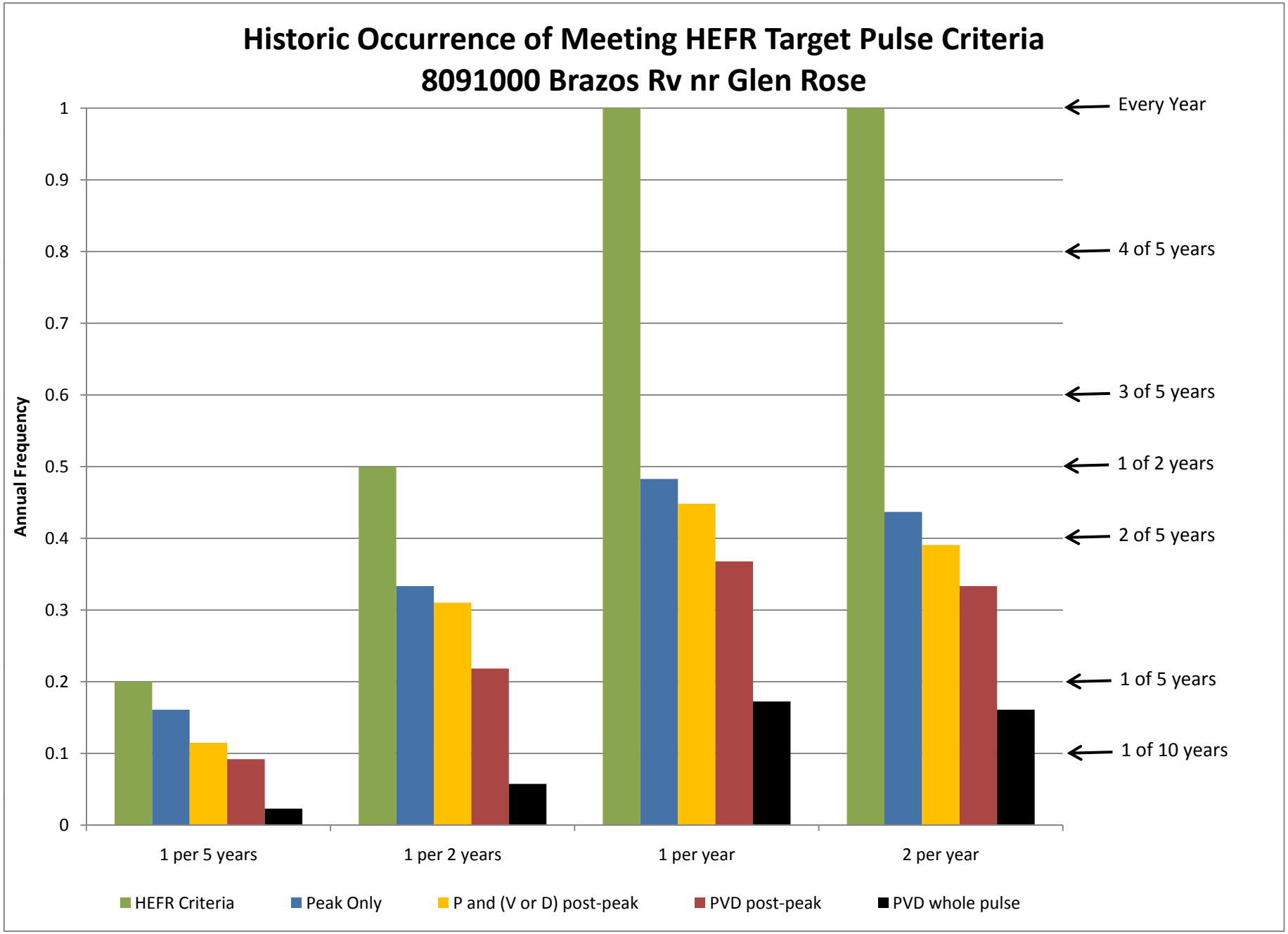
Overbank Flows	Qp: 48,900 cfs with Average Frequency 1 per 5 years Regressed Volume is 101,604 to 460,473 (216,301) Regressed Duration is 6 to 24 (12)		
High Flow Pulses	Qp: 33,600 cfs with Average Frequency 1 per 2 years Regressed Volume is 66,304 to 300,331 (141,114) Regressed Duration is 5 to 21 (10)		
	Qp: 22,200 cfs with Average Frequency 1 per year Regressed Volume is 41,380 to 187,340 (88,046) Regressed Duration is 4 to 18 (9)		
	Qp: 12,500 cfs with Average Frequency 2 per year Regressed Volume is 21,528 to 97,407 (45,793) Regressed Duration is 3 to 14 (7)		
	Qp: 3,230 cfs with Average Frequency 1 per season Regressed Volume is 4,515 to 21,629 (9,882) Regressed Duration is 2 to 9 (4)	Qp: 13,400 cfs with Average Frequency 1 per season Regressed Volume is 22,694 to 105,380 (48,903) Regressed Duration is 3 to 14 (7)	Qp: 7,760 cfs with Average Frequency 1 per season Regressed Volume is 13,469 to 56,475 (27,580) Regressed Duration is 3 to 11 (6)
	Qp: 1,700 cfs with Average Frequency 2 per season Regressed Volume is 2,206 to 10,558 (4,827) Regressed Duration is 2 to 6 (3)	Qp: 6,480 cfs with Average Frequency 2 per season Regressed Volume is 9,837 to 45,625 (21,185) Regressed Duration is 2 to 10 (5)	Qp: 3,090 cfs with Average Frequency 2 per season Regressed Volume is 4,677 to 19,580 (9,569) Regressed Duration is 2 to 8 (4)
Base Flows (cfs)	164(55.5%)	171(68.2%)	161(61.4%)
	77(69.6%)	92(77.7%)	70(71.5%)
	42(83.8%)	47(87.2%)	37(81.2%)
Subsistence Flows (cfs)	23(95.3%)	23(95.1%)	11(95.1%)

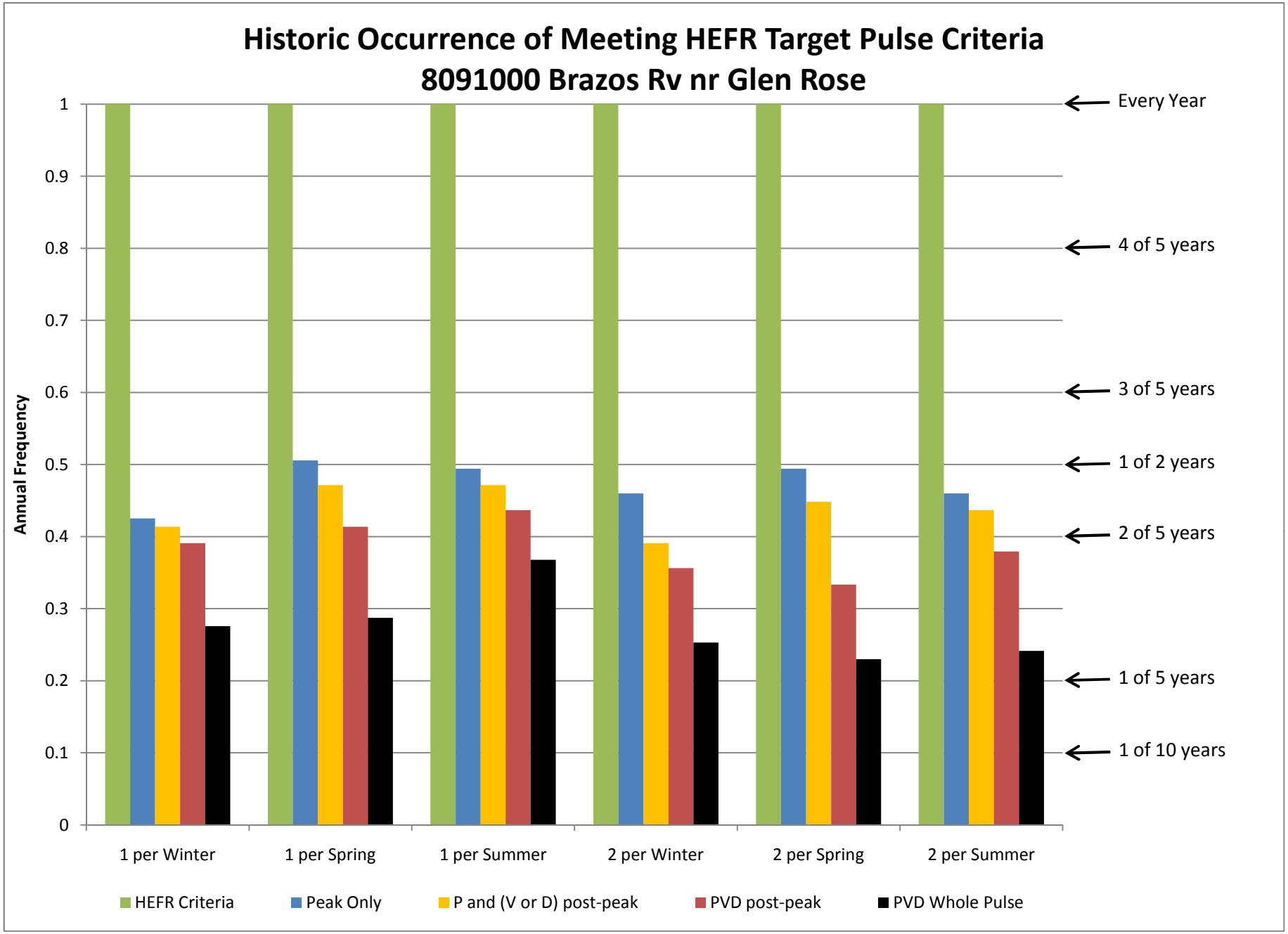
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1924 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 18 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8091000 Brazos Rv nr Glen Rose
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8091000 Brazos Rv nr Glen Rose
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8096500 Brazos Rv nr Waco

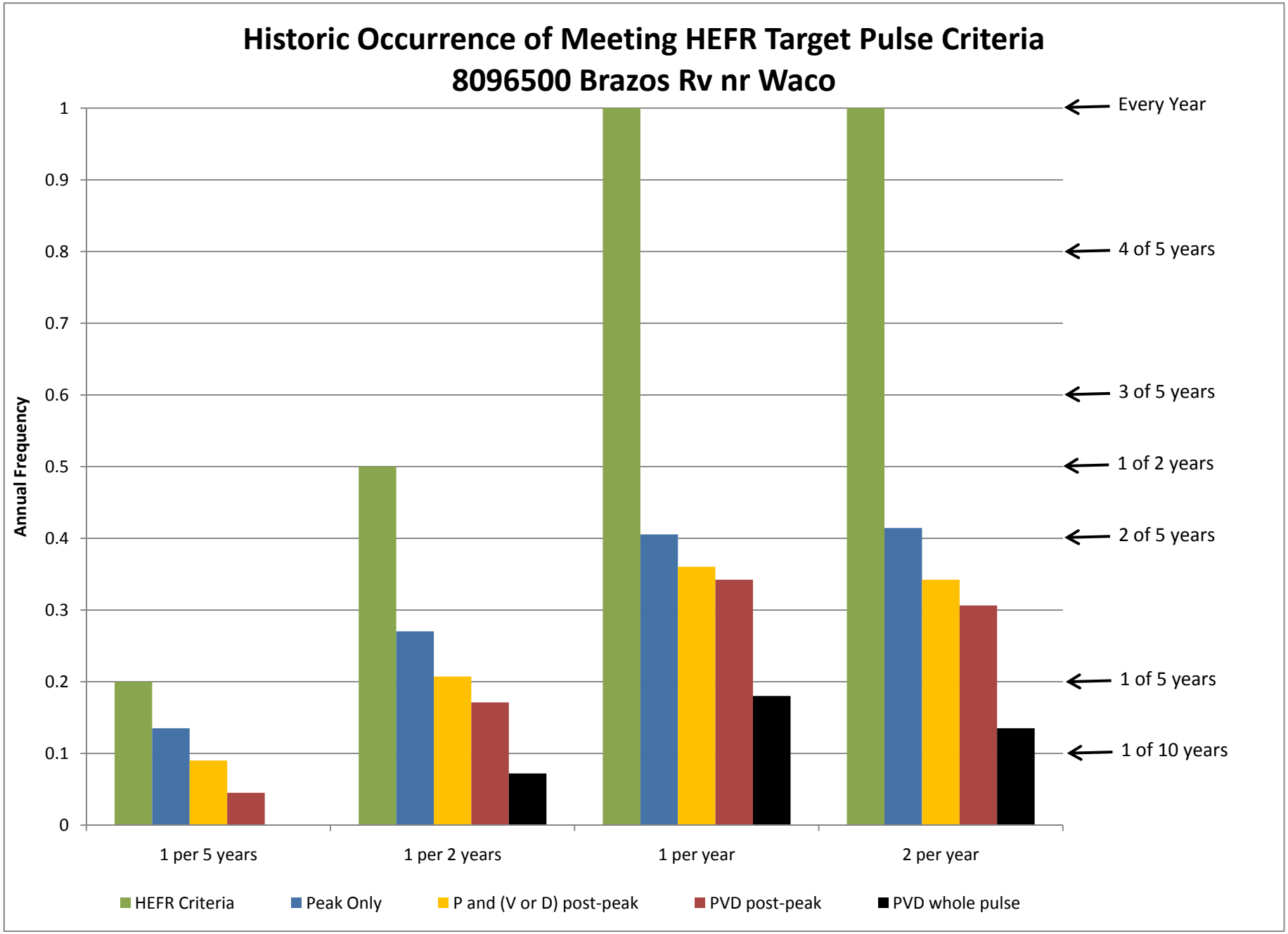
	Winter	Spring	Summer
Overbank Flows	Qp: 68,400 cfs with Average Frequency 1 per 5 years Regressed Volume is 168,393 to 778,910 (362,164) Regressed Duration is 6 to 24 (12)		
High Flow Pulses	Qp: 42,600 cfs with Average Frequency 1 per 2 years Regressed Volume is 93,743 to 433,408 (201,566) Regressed Duration is 5 to 19 (10)		
	Qp: 30,800 cfs with Average Frequency 1 per year Regressed Volume is 62,761 to 290,083 (134,929) Regressed Duration is 4 to 16 (8)		
	Qp: 21,200 cfs with Average Frequency 2 per year Regressed Volume is 39,537 to 182,692 (84,989) Regressed Duration is 3 to 14 (7)		
	Qp: 8,450 cfs with Average Frequency 1 per season Regressed Volume is 13,264 to 58,898 (27,950) Regressed Duration is 2 to 9 (5)	Qp: 23,500 cfs with Average Frequency 1 per season Regressed Volume is 42,253 to 208,983 (93,969) Regressed Duration is 3 to 13 (6)	Qp: 10,000 cfs with Average Frequency 1 per season Regressed Volume is 16,484 to 73,381 (34,779) Regressed Duration is 3 to 11 (5)
	Qp: 4,180 cfs with Average Frequency 2 per season Regressed Volume is 5,502 to 24,407 (11,588) Regressed Duration is 2 to 6 (3)	Qp: 13,600 cfs with Average Frequency 2 per season Regressed Volume is 21,444 to 105,988 (47,674) Regressed Duration is 2 to 10 (5)	Qp: 4,160 cfs with Average Frequency 2 per season Regressed Volume is 5,553 to 24,690 (11,709) Regressed Duration is 2 to 7 (3)
Base Flows (cfs)	480(54.7%)	687(64.0%)	590(54.3%)
	213(71.8%)	271(81.6%)	246(74.9%)
	117(83.3%)	146(89.6%)	137(84.8%)
Subsistence Flows (cfs)	56(92.5%)	76(95.1%)	56(93.2%)

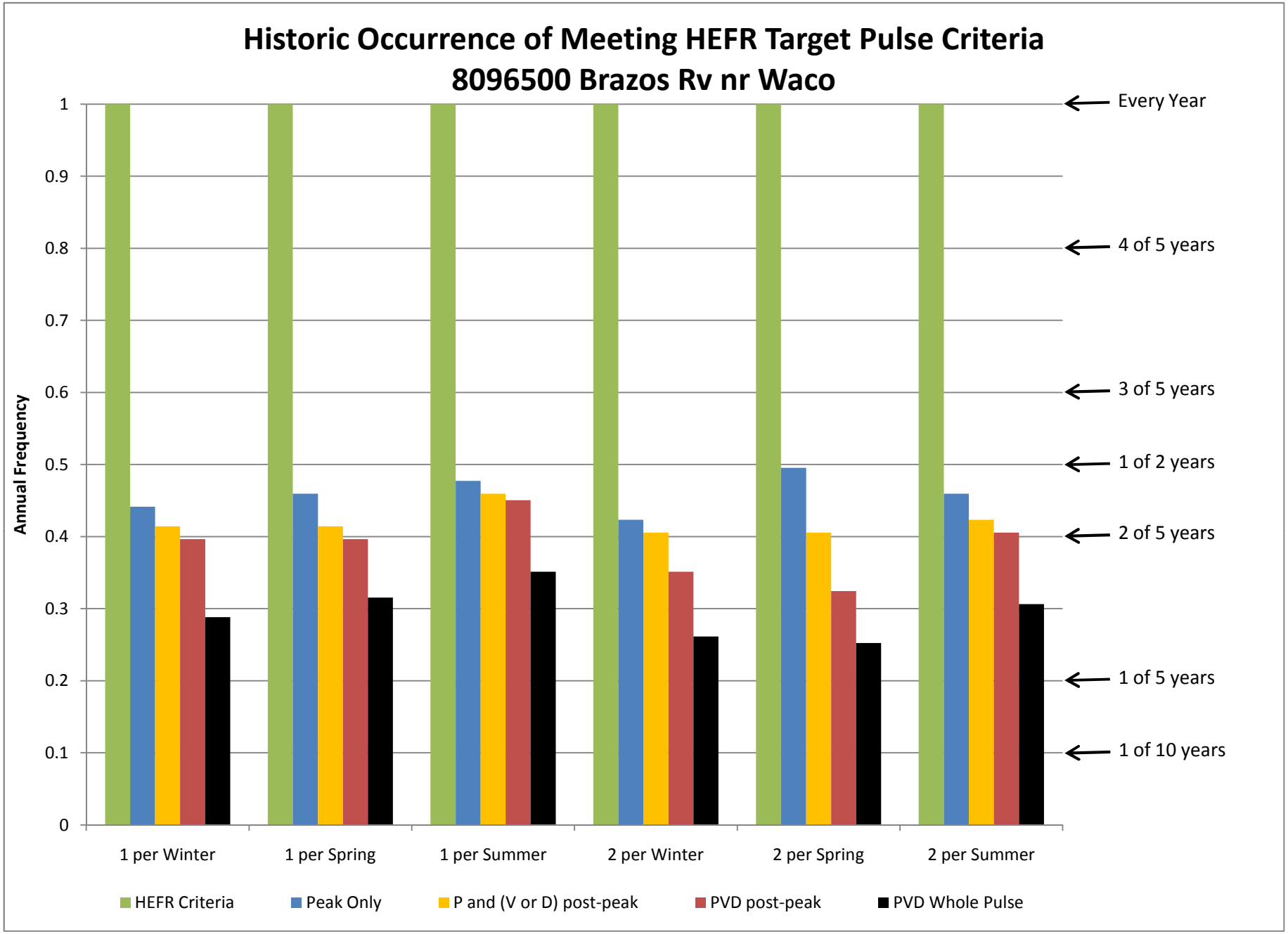
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1900 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 47 cfs. Water Quality Protection Flow entered by user is 56 cfs.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8096500 Brazos Rv nr Waco
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8096500 Brazos Rv nr Waco
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8108700 Brazos Rv nr Bryan

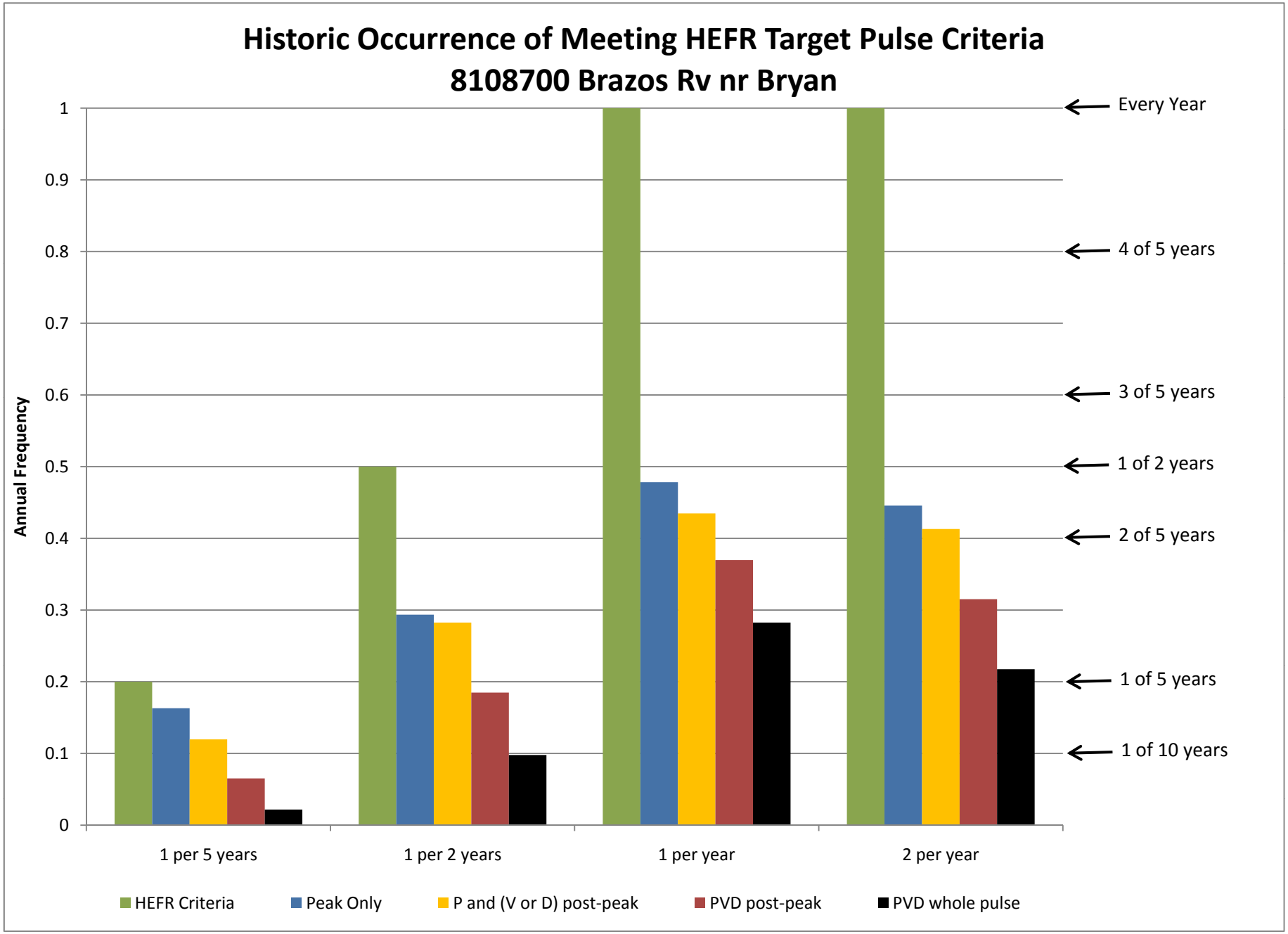
Overbank Flows	Qp: 86,957 cfs with Average Frequency 1 per 5 years Regressed Volume is 446,352 to 1,500,647 (818,423) Regressed Duration is 9 to 32 (17)		
High Flow Pulses	Qp: 66,900 cfs with Average Frequency 1 per 2 years Regressed Volume is 316,857 to 1,064,967 (580,898) Regressed Duration is 8 to 28 (15)		
	Qp: 49,370 cfs with Average Frequency 1 per year Regressed Volume is 213,013 to 715,727 (390,460) Regressed Duration is 7 to 23 (12)		
	Qp: 32,710 cfs with Average Frequency 2 per year Regressed Volume is 124,380 to 417,771 (227,952) Regressed Duration is 5 to 18 (10)		
	Qp: 22,552 cfs with Average Frequency 1 per season Regressed Volume is 77,513 to 244,479 (137,660) Regressed Duration is 5 to 15 (8)	Qp: 33,015 cfs with Average Frequency 1 per season Regressed Volume is 130,500 to 465,575 (246,491) Regressed Duration is 5 to 19 (10)	Qp: 14,222 cfs with Average Frequency 1 per season Regressed Volume is 38,737 to 129,190 (70,742) Regressed Duration is 3 to 11 (6)
	Qp: 11,276 cfs with Average Frequency 2 per season Regressed Volume is 31,526 to 99,340 (55,963) Regressed Duration is 3 to 10 (6)	Qp: 18,996 cfs with Average Frequency 2 per season Regressed Volume is 62,453 to 222,629 (117,915) Regressed Duration is 4 to 14 (7)	Qp: 5,600 cfs with Average Frequency 2 per season Regressed Volume is 11,919 to 39,701 (21,753) Regressed Duration is 2 to 7 (4)
Base Flows (cfs)	1739(47.9%)	2621(56.6%)	1492(43.2%)
	825(69.3%)	1330(73.0%)	912(65.9%)
	520(81.6%)	726(87.4%)	605(80.7%)
Subsistence Flows (cfs)	274(95.0%)	387(95.0%)	264(95.1%)

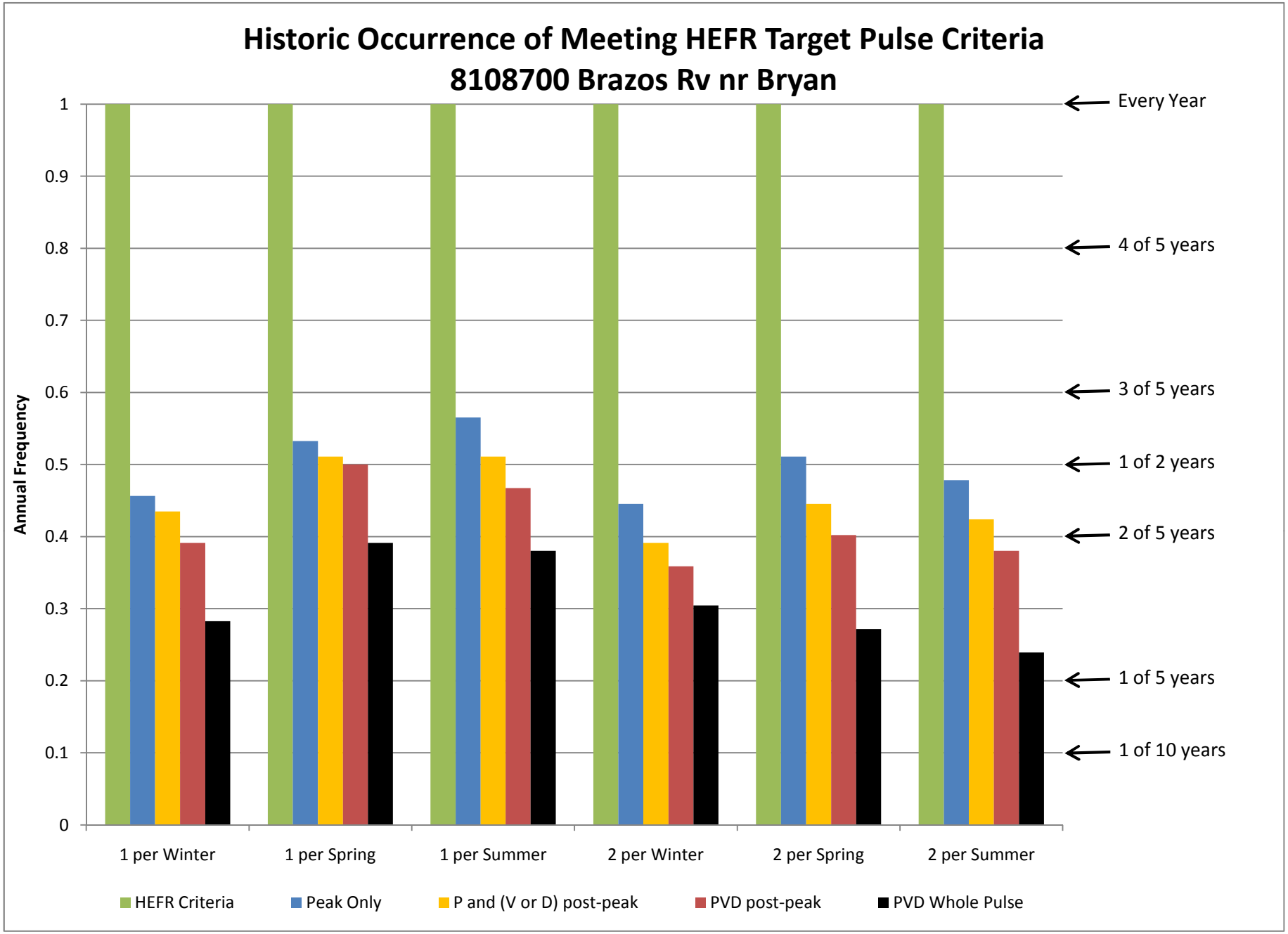
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1919 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 288.100121901666 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8108700 Brazos Rv nr Bryan
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8108700 Brazos Rv nr Bryan
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8111500 Brazos Rv nr Hempstead

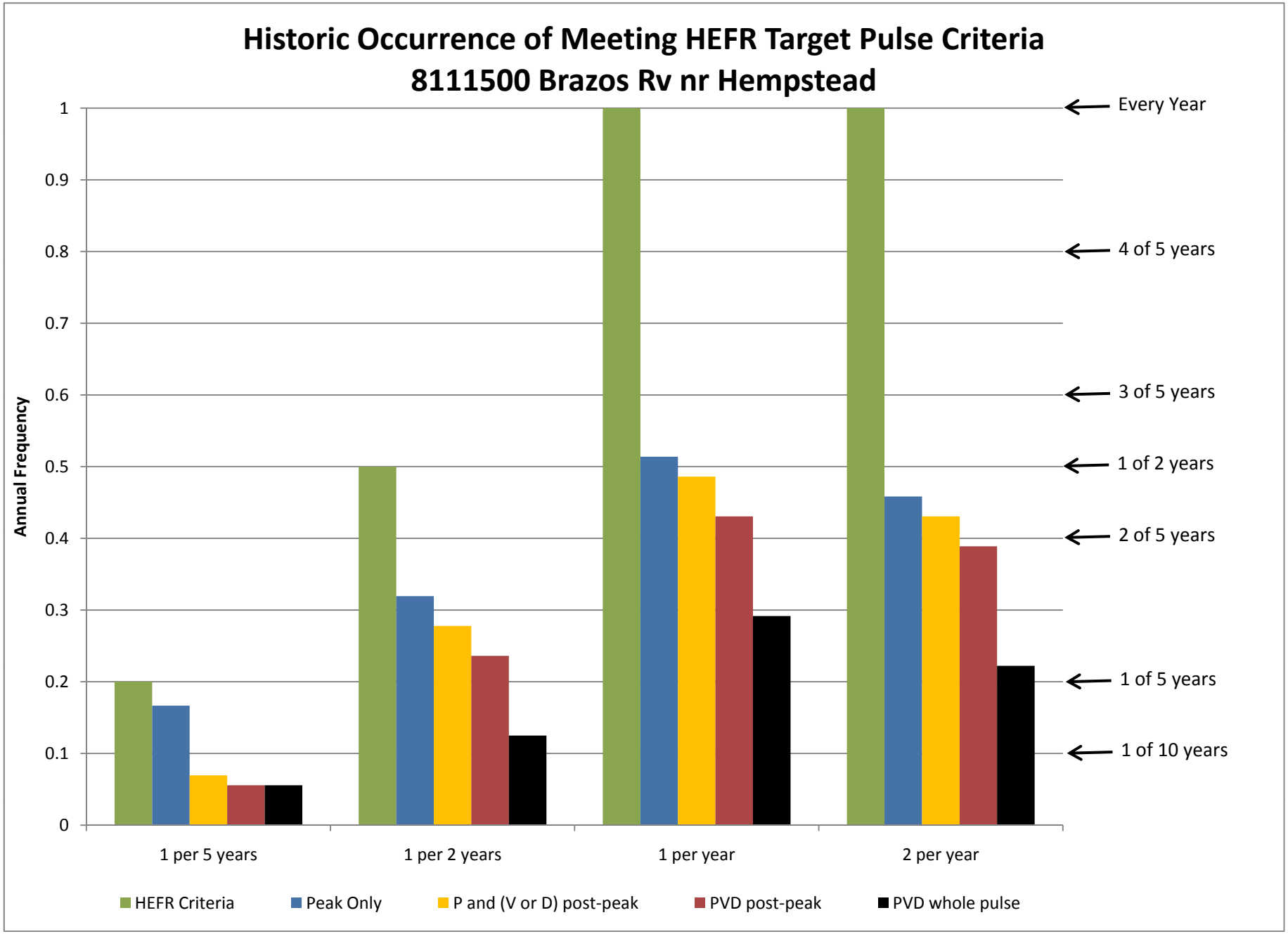
Overbank Flows	Qp: 80,300 cfs with Average Frequency 1 per 5 years Regressed Volume is 682,810 to 2,117,678 (1,202,485) Regressed Duration is 12 to 40 (22)		
High Flow Pulses	Qp: 63,900 cfs with Average Frequency 1 per 2 years Regressed Volume is 489,293 to 1,516,869 (861,507) Regressed Duration is 10 to 34 (18)		
	Qp: 50,000 cfs with Average Frequency 1 per year Regressed Volume is 342,102 to 1,060,134 (602,224) Regressed Duration is 8 to 29 (16)		
	Qp: 33,600 cfs with Average Frequency 2 per year Regressed Volume is 191,553 to 593,278 (337,111) Regressed Duration is 6 to 22 (12)		
	Qp: 24,800 cfs with Average Frequency 1 per season Regressed Volume is 126,414 to 381,998 (219,749) Regressed Duration is 5 to 18 (10)	Qp: 34,200 cfs with Average Frequency 1 per season Regressed Volume is 204,222 to 661,475 (367,542) Regressed Duration is 6 to 24 (12)	Qp: 10,300 cfs with Average Frequency 1 per season Regressed Volume is 32,108 to 96,036 (55,529) Regressed Duration is 3 to 9 (5)
	Qp: 11,200 cfs with Average Frequency 2 per season Regressed Volume is 39,489 to 119,173 (68,601) Regressed Duration is 3 to 10 (6)	Qp: 16,800 cfs with Average Frequency 2 per season Regressed Volume is 70,005 to 226,432 (125,902) Regressed Duration is 4 to 14 (7)	Qp: 5,090 cfs with Average Frequency 2 per season Regressed Volume is 12,218 to 36,516 (21,122) Regressed Duration is 2 to 6 (3)
Base Flows (cfs)	2890(48.2%)	3435(58.5%)	2050(39.6%)
	1440(66.9%)	1900(73.8%)	1330(61.1%)
	920(79.8%)	1130(87.6%)	954(77.8%)
Subsistence Flows (cfs)	442(95.0%)	718(95.0%)	478(95.0%)

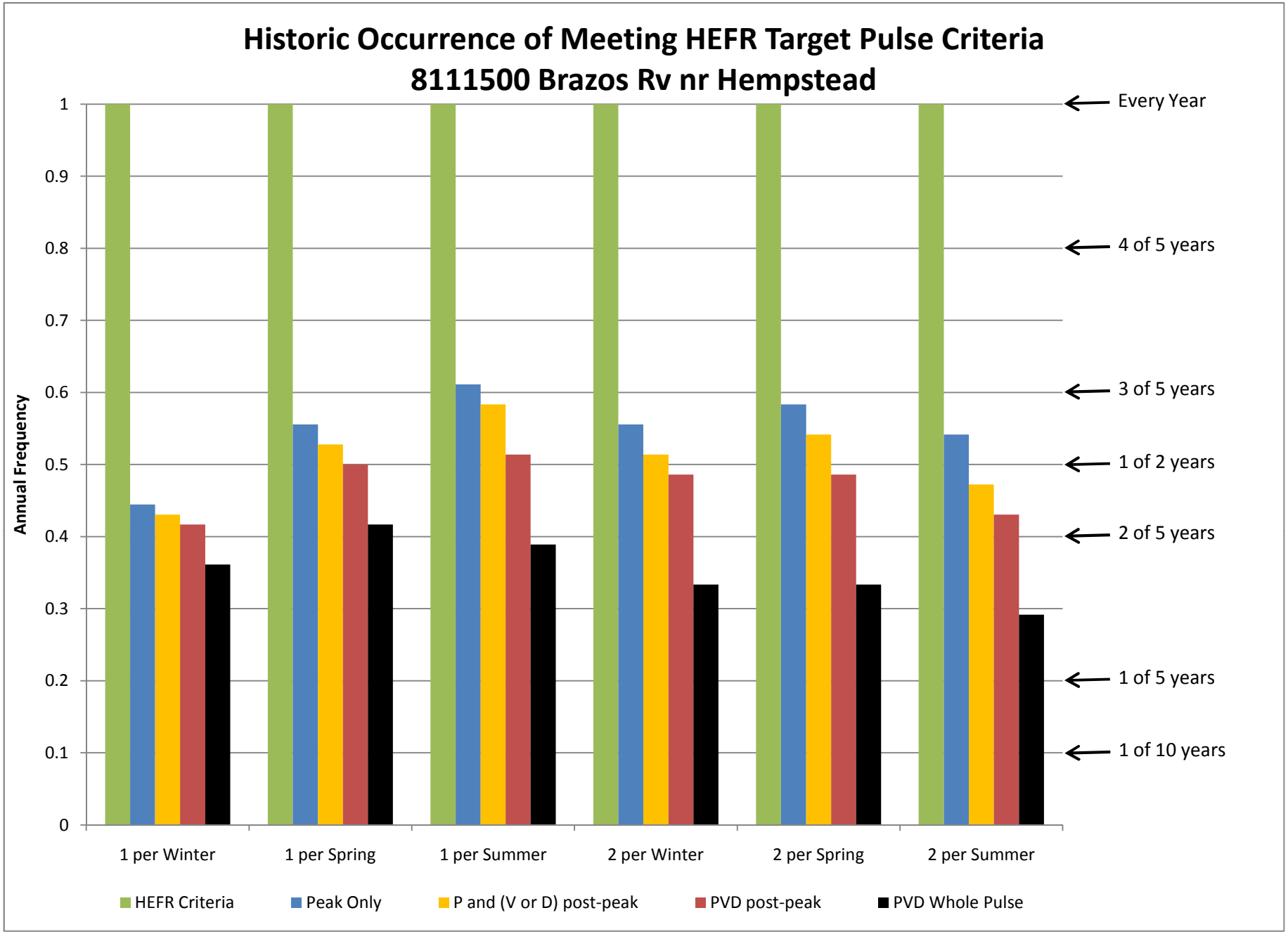
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1939 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 507 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8111500 Brazos Rv nr Hempstead
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8111500 Brazos Rv nr Hempstead
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8114000 Brazos River at Richmond

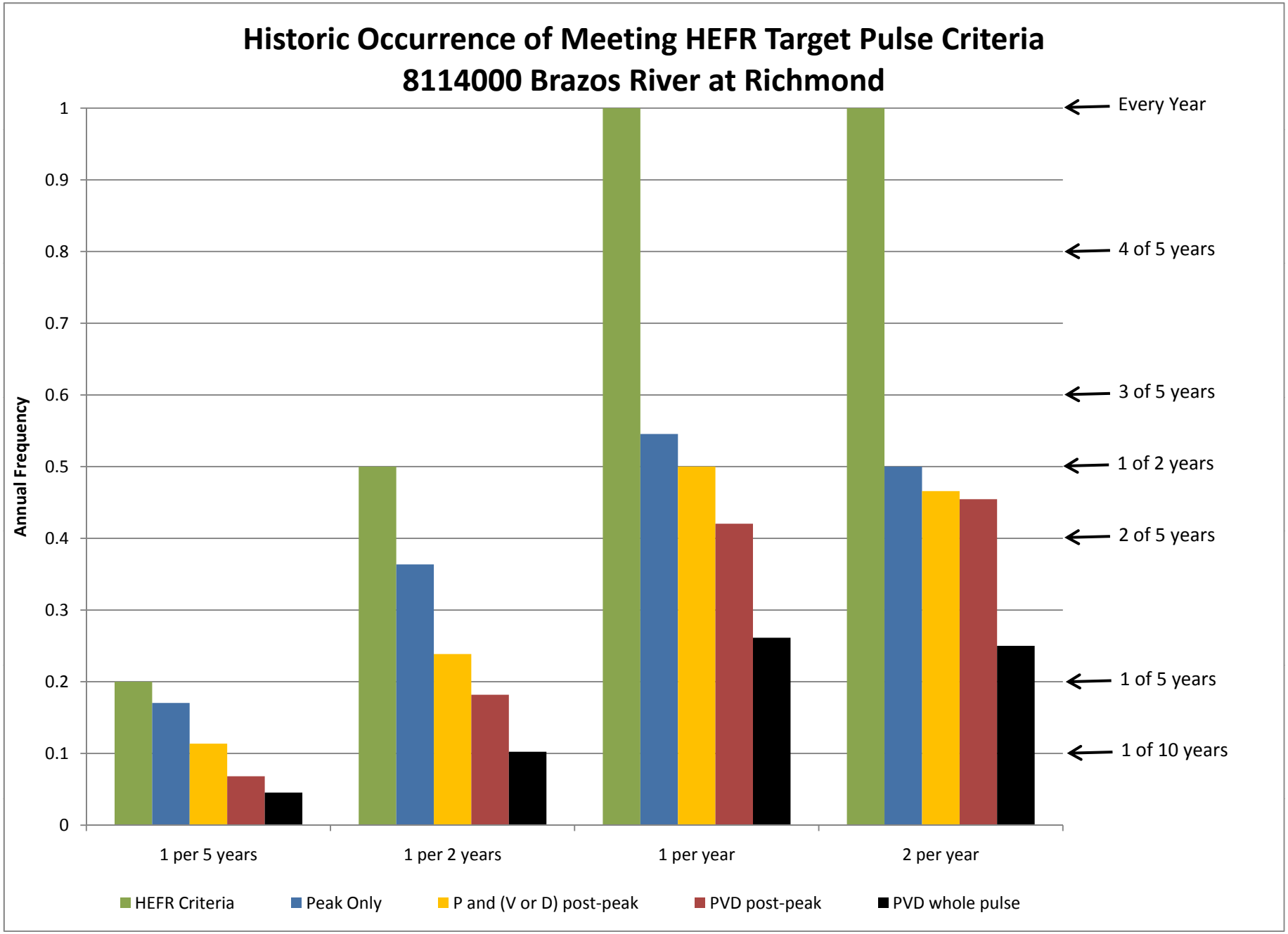
Overbank Flows	Qp: 80,500 cfs with Average Frequency 1 per 5 years Regressed Volume is 706,568 to 2,185,778 (1,242,740) Regressed Duration is 12 to 41 (22)		
High Flow Pulses	Qp: 68,100 cfs with Average Frequency 1 per 2 years Regressed Volume is 554,804 to 1,715,835 (975,680) Regressed Duration is 10 to 36 (19)		
	Qp: 51,600 cfs with Average Frequency 1 per year Regressed Volume is 371,492 to 1,148,453 (653,178) Regressed Duration is 9 to 30 (16)		
	Qp: 34,400 cfs with Average Frequency 2 per year Regressed Volume is 206,714 to 638,746 (363,370) Regressed Duration is 6 to 23 (12)		
	Qp: 24,600 cfs with Average Frequency 1 per season Regressed Volume is 135,624 to 394,150 (231,205) Regressed Duration is 5 to 18 (10)	Qp: 35,000 cfs with Average Frequency 1 per season Regressed Volume is 213,377 to 705,019 (387,859) Regressed Duration is 7 to 24 (13)	Qp: 12,900 cfs with Average Frequency 1 per season Regressed Volume is 46,237 to 140,520 (80,606) Regressed Duration is 3 to 11 (6)
	Qp: 12,400 cfs with Average Frequency 2 per season Regressed Volume is 49,604 to 144,032 (84,526) Regressed Duration is 3 to 11 (6)	Qp: 16,300 cfs with Average Frequency 2 per season Regressed Volume is 69,261 to 228,577 (125,824) Regressed Duration is 4 to 14 (7)	Qp: 5,430 cfs with Average Frequency 2 per season Regressed Volume is 14,151 to 42,974 (24,660) Regressed Duration is 2 to 6 (4)
Base Flows (cfs)	3310(49.4%)	3980(58.3%)	2190(39.8%)
	1650(67.6%)	2140(73.6%)	1330(61.0%)
	991(82.1%)	1190(86.6%)	932(76.4%)
Subsistence Flows (cfs)	570(95.0%)	700(95.1%)	550(92.7%)

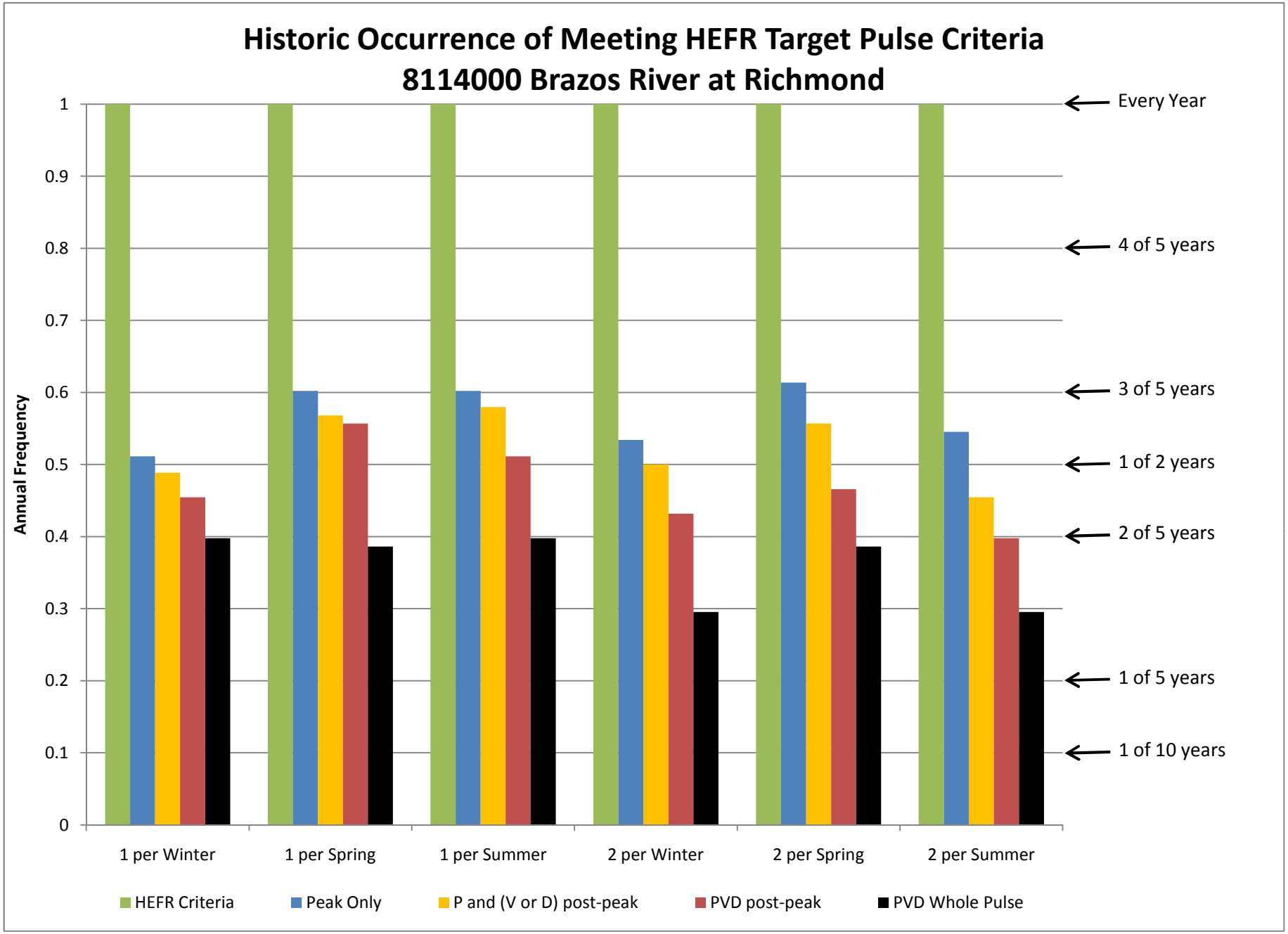
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1923 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 550 cfs. Water Quality Protection Flow entered by user is 550 cfs.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8114000 Brazos River at Richmond
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8114000 Brazos River at Richmond
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

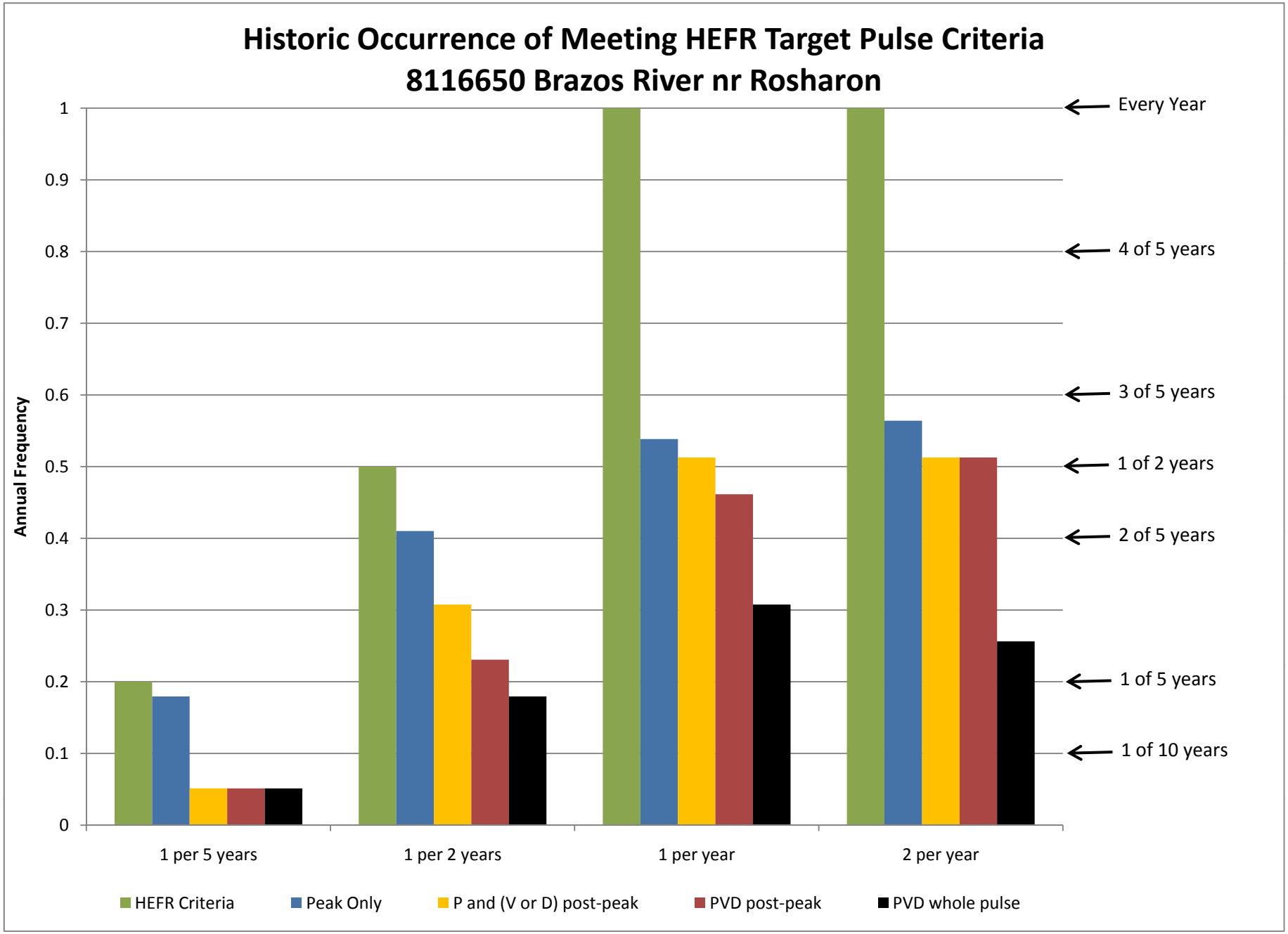
8116650 Brazos River nr Rosharon

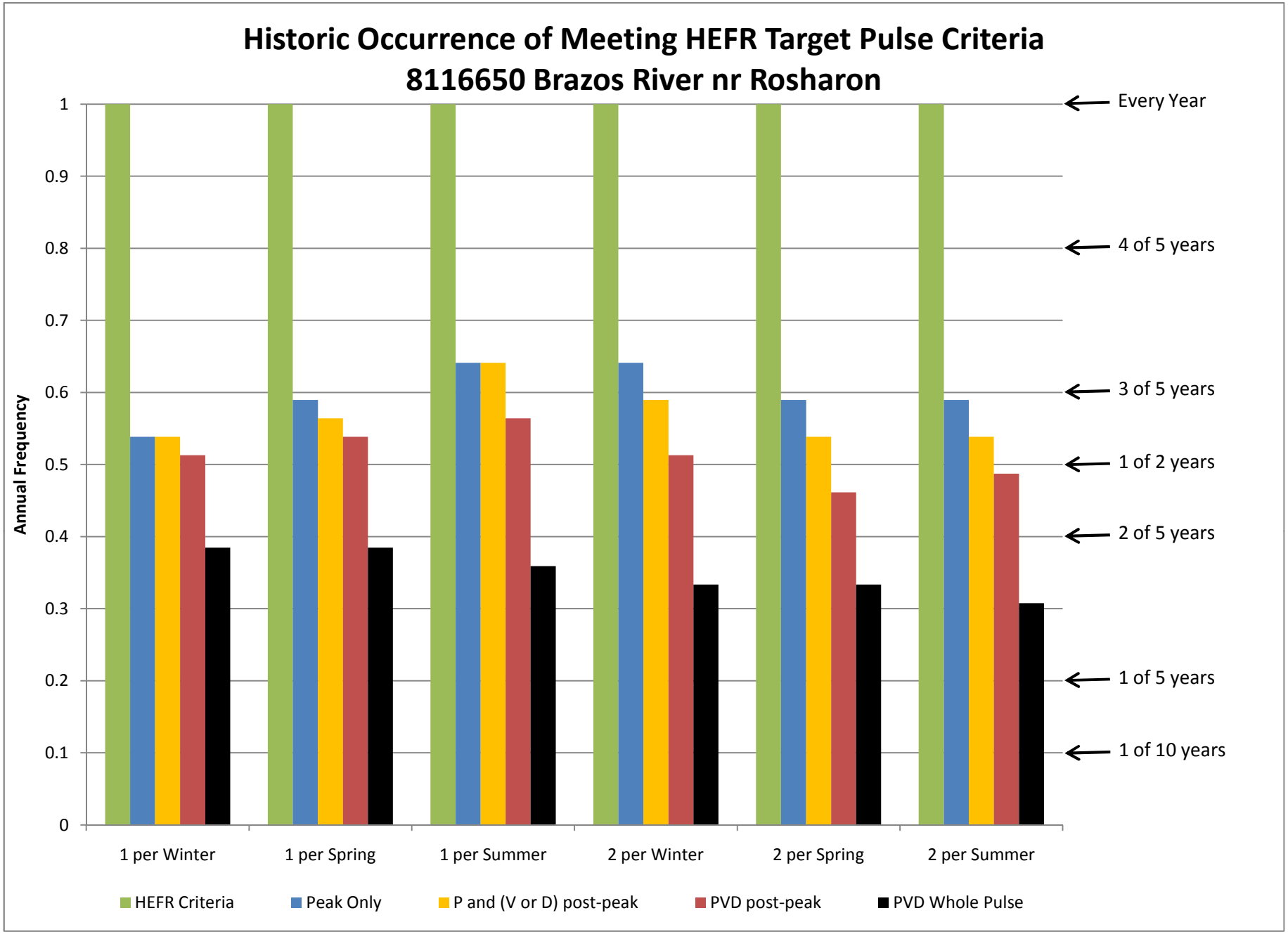
Overbank Flows	Qp: 74,800 cfs with Average Frequency 1 per 5 years Regressed Volume is 705,805 to 2,170,522 (1,237,726) Regressed Duration is 11 to 38 (21)		
High Flow Pulses	Qp: 60,900 cfs with Average Frequency 1 per 2 years Regressed Volume is 517,240 to 1,589,434 (906,708) Regressed Duration is 10 to 33 (18)		
	Qp: 51,000 cfs with Average Frequency 1 per year Regressed Volume is 395,538 to 1,214,735 (693,162) Regressed Duration is 9 to 29 (16)		
	Qp: 35,100 cfs with Average Frequency 2 per year Regressed Volume is 224,795 to 689,640 (393,735) Regressed Duration is 7 to 22 (12)		
	Qp: 25,700 cfs with Average Frequency 1 per season Regressed Volume is 145,440 to 425,721 (248,831) Regressed Duration is 5 to 18 (10)	Qp: 33,700 cfs with Average Frequency 1 per season Regressed Volume is 216,066 to 726,666 (396,242) Regressed Duration is 6 to 24 (12)	Qp: 13,300 cfs with Average Frequency 1 per season Regressed Volume is 48,712 to 141,067 (82,895) Regressed Duration is 3 to 10 (6)
	Qp: 13,600 cfs with Average Frequency 2 per season Regressed Volume is 55,081 to 160,919 (94,146) Regressed Duration is 3 to 11 (6)	Qp: 14,200 cfs with Average Frequency 2 per season Regressed Volume is 56,045 to 187,901 (102,620) Regressed Duration is 3 to 12 (6)	Qp: 4,980 cfs with Average Frequency 2 per season Regressed Volume is 12,162 to 35,170 (20,682) Regressed Duration is 2 to 5 (3)
Base Flows (cfs)	4700(49.8%)	4740(56.3%)	2630(37.9%)
	2090(69.4%)	2565(70.7%)	1420(59.7%)
	1140(84.3%)	1250(84.5%)	932(75.8%)
Subsistence Flows (cfs)	566(95.0%)	413(95.0%)	345(95.1%)
	Nov, Dec, Jan, Feb	Mar, Apr, May, Jun	Jul, Aug, Sep, Oct
	Winter	Spring	Summer

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

Notes:

1. Period of Record used : 1/1/1972 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 428 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8116650 Brazos River nr Rosharon
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8116650 Brazos River nr Rosharon
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8095000 North Bosque Rv at Clifton

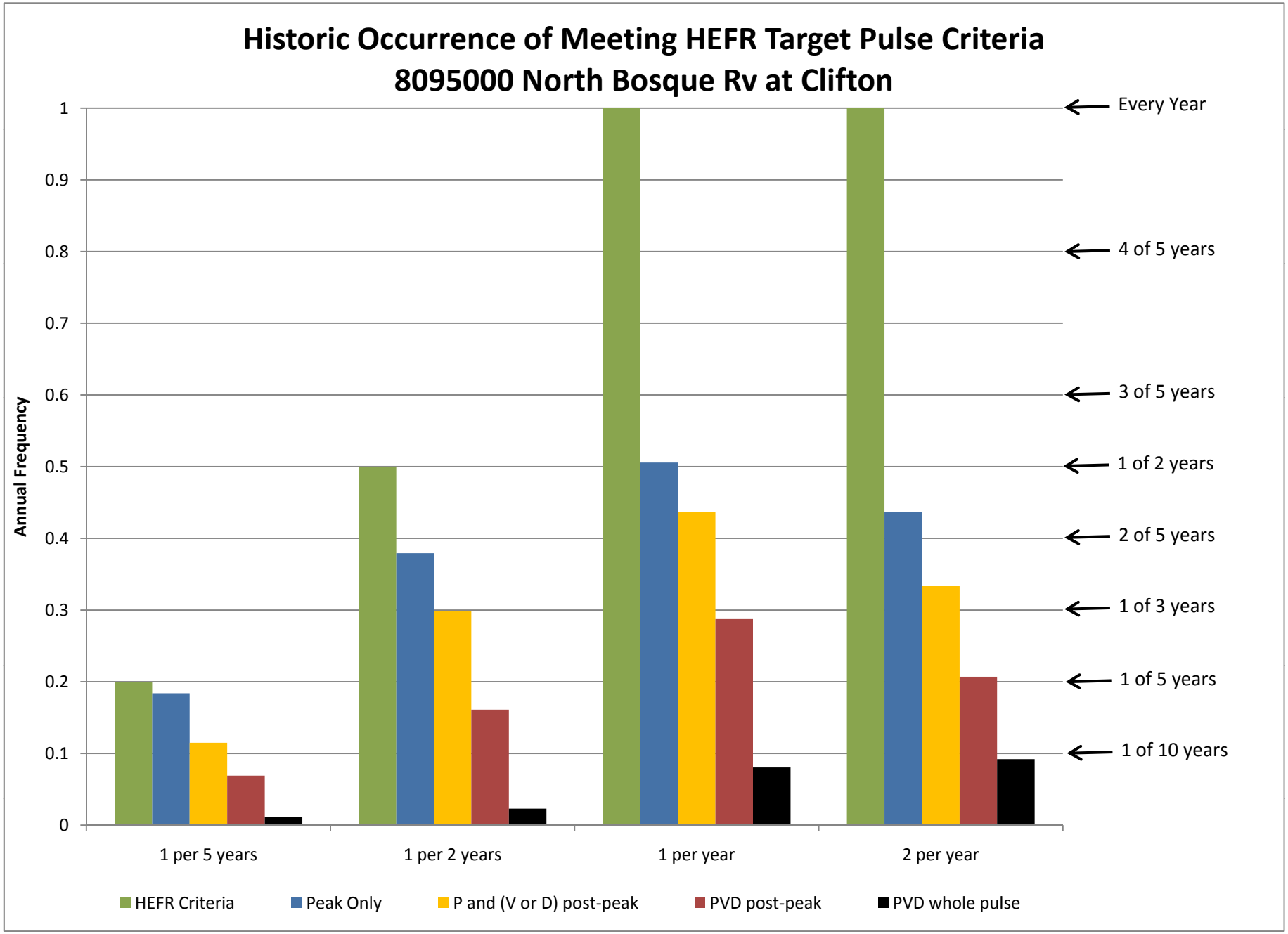
Overbank Flows	Qp: 19,800 cfs with Average Frequency 1 per 5 years Regressed Volume is 11,058 to 64,137 (26,632) Regressed Duration is 5 to 26 (12)		
High Flow Pulses	Qp: 13,900 cfs with Average Frequency 1 per 2 years Regressed Volume is 8,160 to 47,303 (19,647) Regressed Duration is 5 to 23 (11)		
	Qp: 8,650 cfs with Average Frequency 1 per year Regressed Volume is 5,429 to 31,451 (13,068) Regressed Duration is 4 to 21 (9)		
	Qp: 4,490 cfs with Average Frequency 2 per year Regressed Volume is 3,091 to 17,892 (7,437) Regressed Duration is 3 to 17 (8)		
	Qp: 1,490 cfs with Average Frequency 1 per season Regressed Volume is 1,792 to 9,873 (4,206) Regressed Duration is 3 to 16 (7)	Qp: 5,820 cfs with Average Frequency 1 per season Regressed Volume is 3,775 to 21,211 (8,949) Regressed Duration is 3 to 17 (7)	Qp: 1,080 cfs with Average Frequency 1 per season Regressed Volume is 657 to 3,187 (1,448) Regressed Duration is 2 to 10 (5)
	Qp: 418 cfs with Average Frequency 2 per season Regressed Volume is 562 to 3,093 (1,318) Regressed Duration is 2 to 11 (5)	Qp: 2,170 cfs with Average Frequency 2 per season Regressed Volume is 1,677 to 9,409 (3,973) Regressed Duration is 3 to 13 (6)	Qp: 347 cfs with Average Frequency 2 per season Regressed Volume is 258 to 1,250 (568) Regressed Duration is 2 to 7 (3)
Base Flows (cfs)	25(48.2%)	33(64.3%)	17(39.7%)
	12(65.8%)	16(77.0%)	8.4(54.3%)
	5(80.8%)	6.6(88.1%)	3.1(70.4%)
Subsistence Flows (cfs)	1(95.1%)	2.2(95.0%)	0(100.0%)

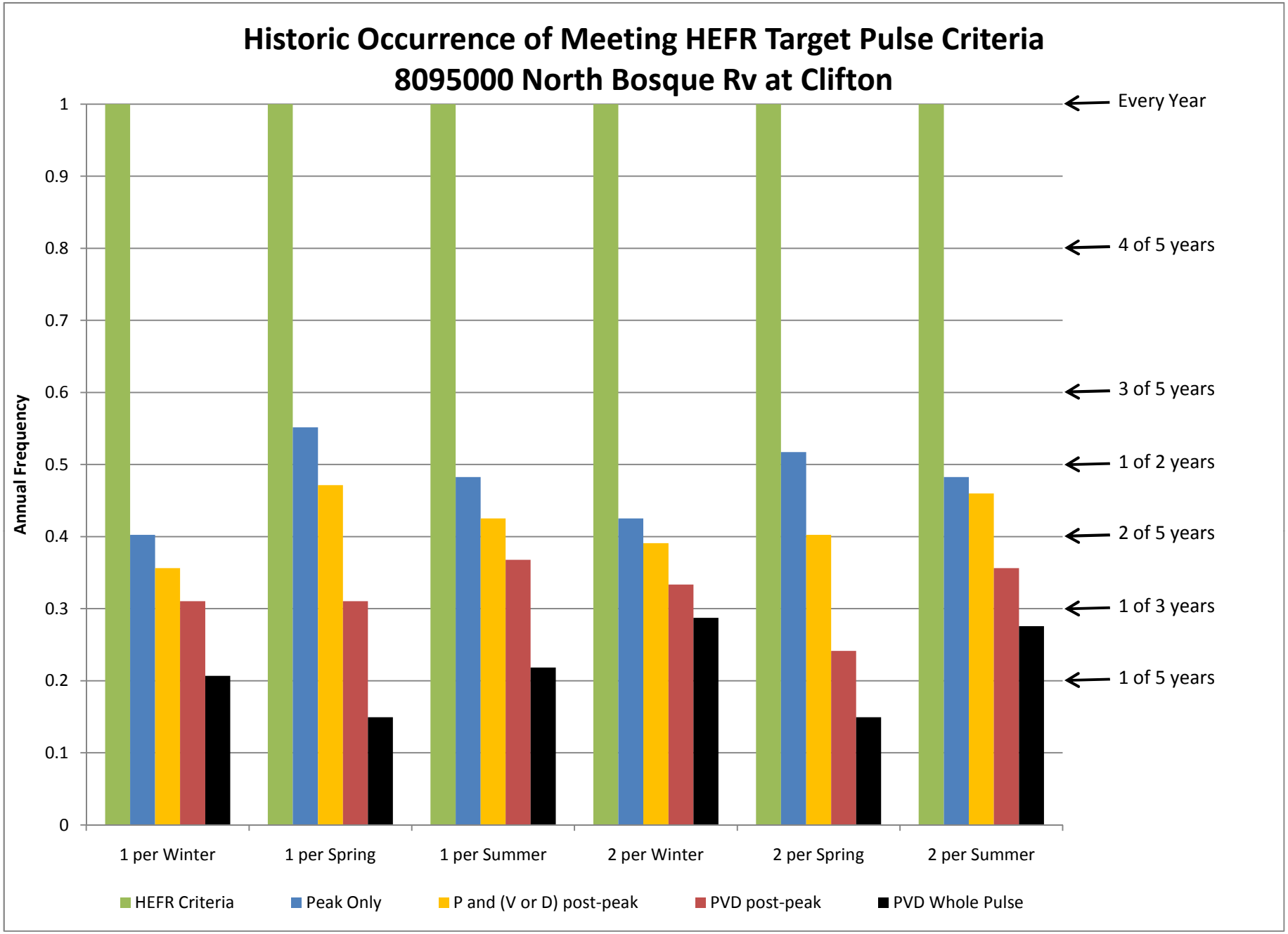
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1924 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0.4 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8095000 North Bosque Rv at Clifton
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 3 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8095000 North Bosque Rv at Clifton
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 3 years
1 of 5 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8100500 Leon Rv at Gatesville

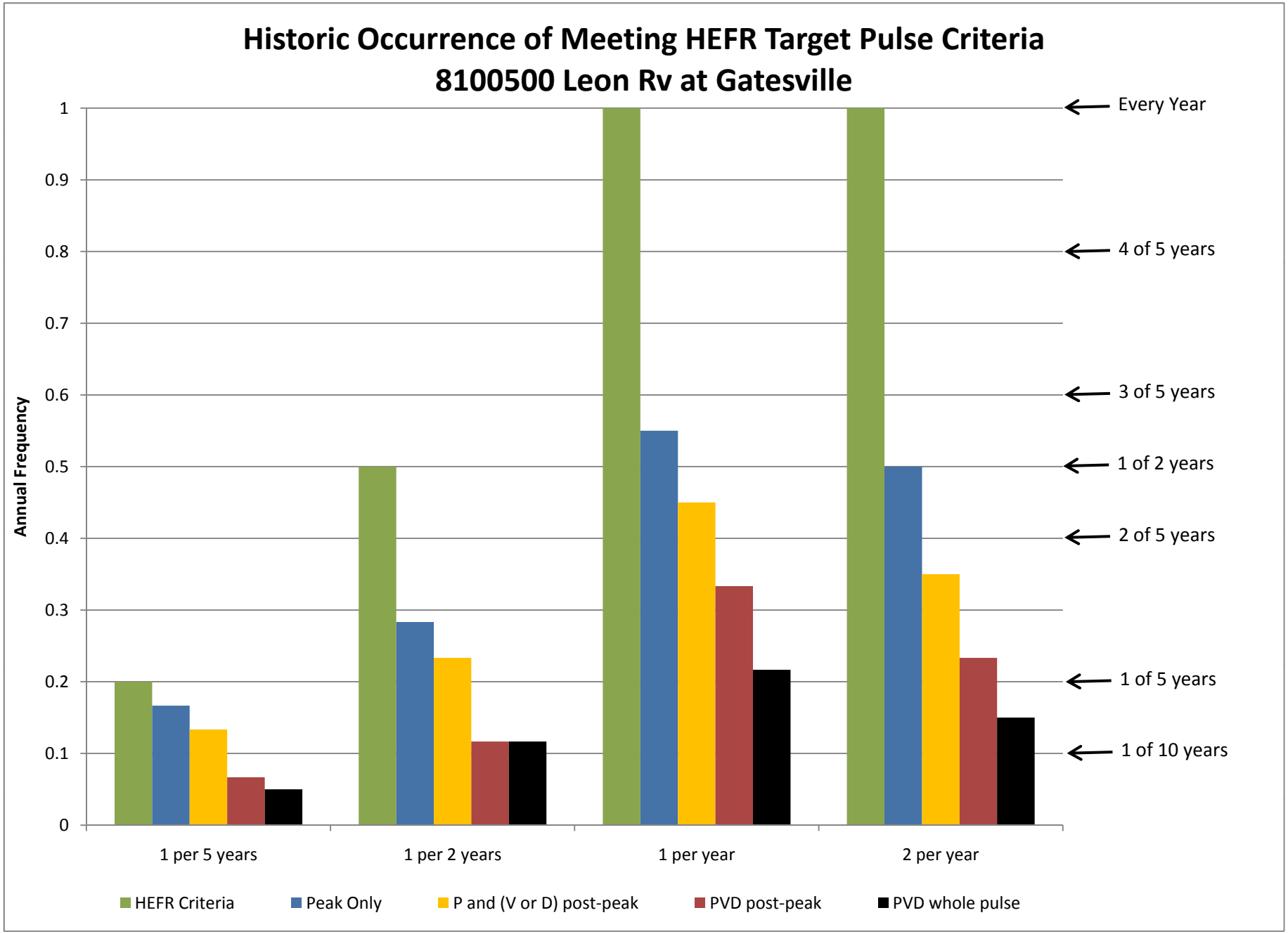
Overbank Flows	Qp: 11,400 cfs with Average Frequency 1 per 5 years Regressed Volume is 22,755 to 161,451 (60,612) Regressed Duration is 7 to 39 (17)		
High Flow Pulses	Qp: 7,580 cfs with Average Frequency 1 per 2 years Regressed Volume is 14,159 to 100,320 (37,689) Regressed Duration is 6 to 32 (14)		
	Qp: 5,300 cfs with Average Frequency 1 per year Regressed Volume is 9,340 to 66,106 (24,849) Regressed Duration is 5 to 27 (12)		
	Qp: 2,930 cfs with Average Frequency 2 per year Regressed Volume is 4,688 to 33,132 (12,463) Regressed Duration is 4 to 21 (9)		
	Qp: 1,010 cfs with Average Frequency 1 per season Regressed Volume is 2,173 to 11,956 (5,097) Regressed Duration is 3 to 14 (6)	Qp: 3,560 cfs with Average Frequency 1 per season Regressed Volume is 6,230 to 43,005 (16,368) Regressed Duration is 4 to 23 (10)	Qp: 1,010 cfs with Average Frequency 1 per season Regressed Volume is 907 to 7,042 (2,527) Regressed Duration is 2 to 11 (5)
	Qp: 268 cfs with Average Frequency 2 per season Regressed Volume is 433 to 2,381 (1,015) Regressed Duration is 2 to 8 (3)	Qp: 1,390 cfs with Average Frequency 2 per season Regressed Volume is 2,034 to 13,999 (5,336) Regressed Duration is 3 to 15 (6)	Qp: 315 cfs with Average Frequency 2 per season Regressed Volume is 259 to 2,011 (722) Regressed Duration is 1 to 6 (3)
Base Flows (cfs)	52(44.5%)	54(61.3%)	27(45.5%)
	20(62.5%)	24(74.6%)	12(59.4%)
	9.2(78.5%)	9.7(86.3%)	4.1(73.2%)
Subsistence Flows (cfs)	0.65(95.0%)	3(95.2%)	0.19(95.1%)

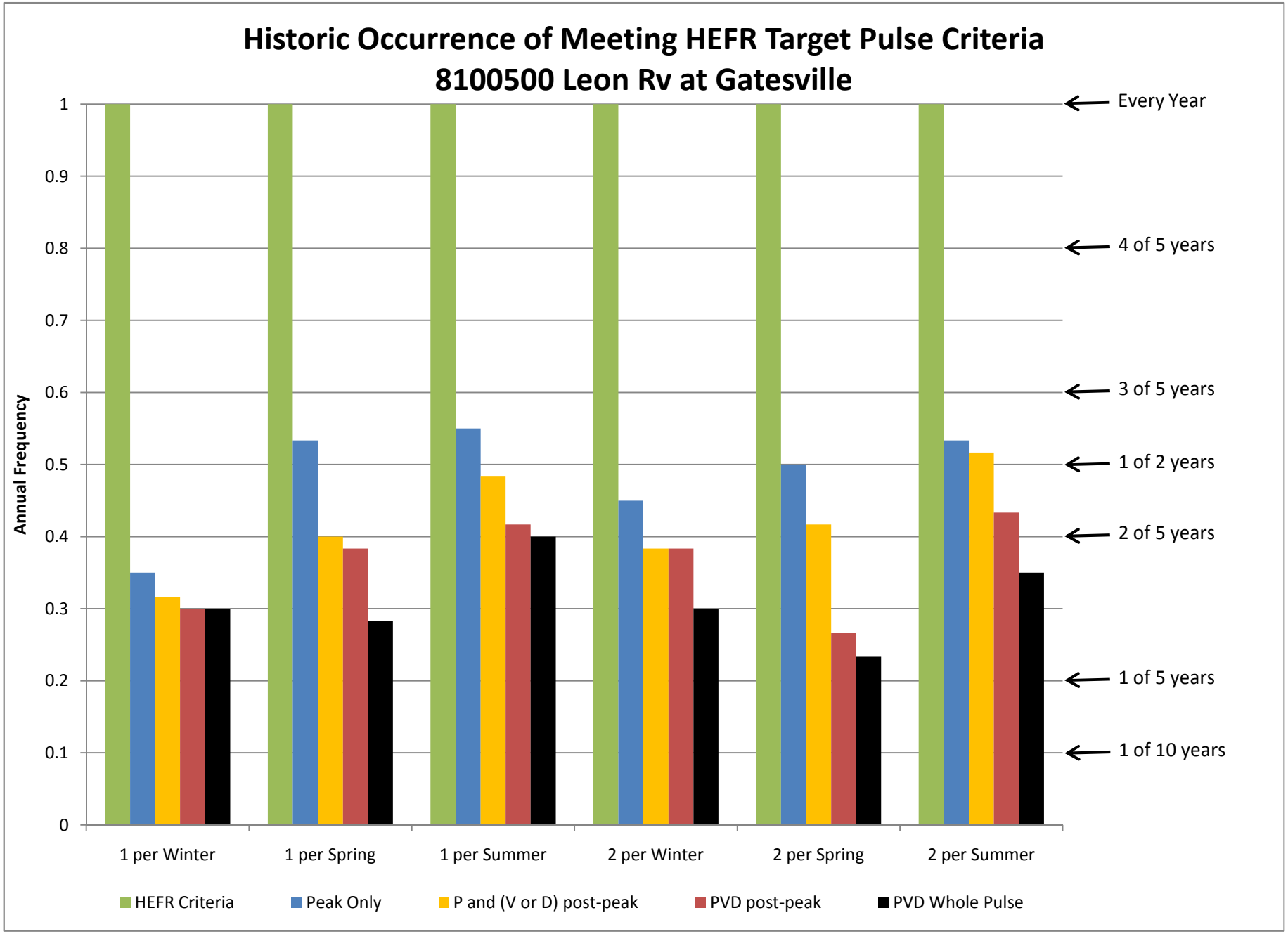
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1951 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0.4 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8100500 Leon Rv at Gatesville
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8100500 Leon Rv at Gatesville
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8103800 Lampasas Rv nr Kempner

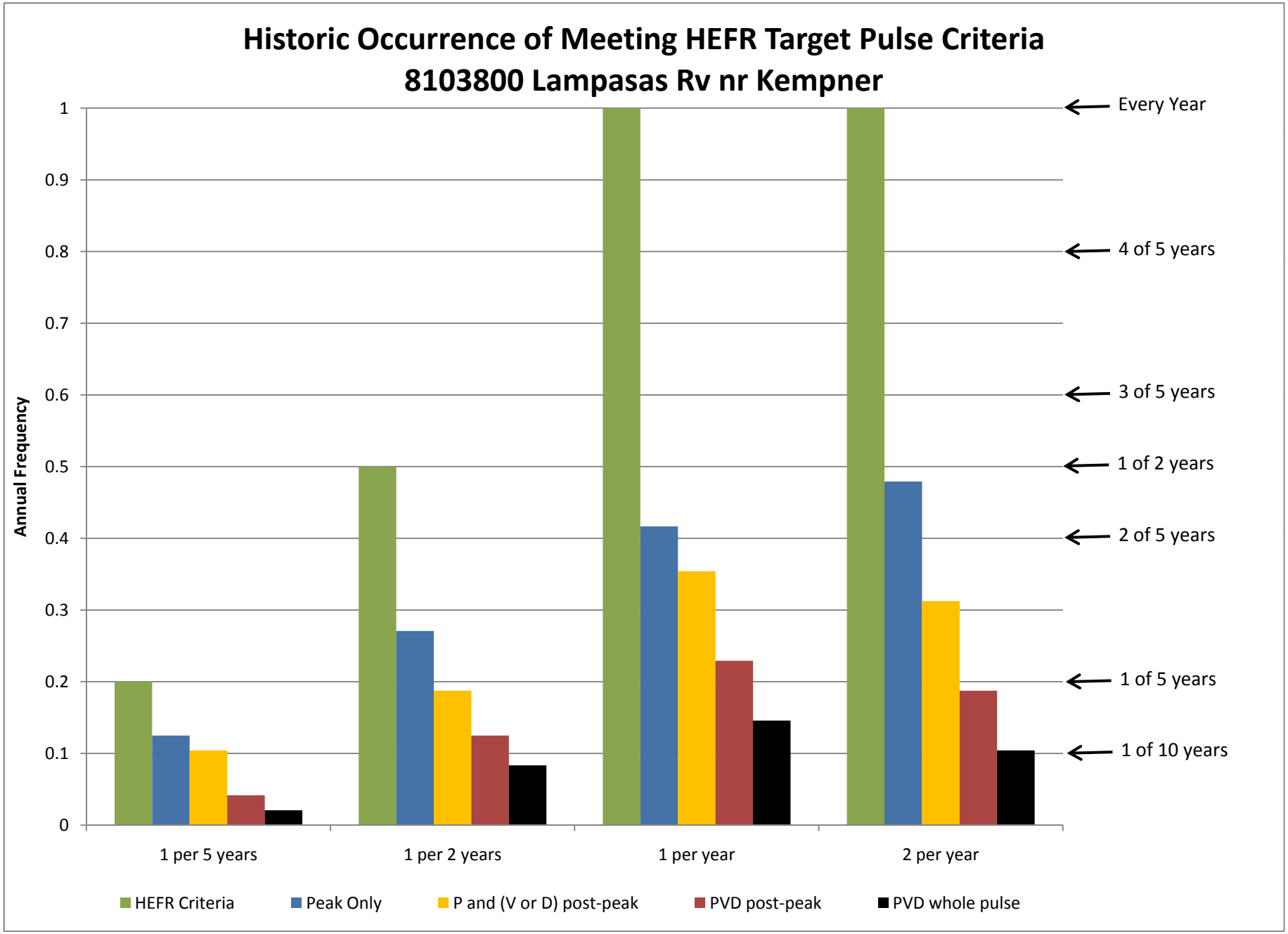
Overbank Flows	Qp: 13,000 cfs with Average Frequency 1 per 5 years Regressed Volume is 8,609 to 65,742 (23,791) Regressed Duration is 5 to 31 (13)		
High Flow Pulses	Qp: 7,960 cfs with Average Frequency 1 per 2 years Regressed Volume is 5,547 to 42,261 (15,311) Regressed Duration is 5 to 26 (11)		
	Qp: 4,690 cfs with Average Frequency 1 per year Regressed Volume is 3,452 to 26,247 (9,519) Regressed Duration is 4 to 22 (9)		
	Qp: 2,390 cfs with Average Frequency 2 per year Regressed Volume is 1,886 to 14,308 (5,194) Regressed Duration is 3 to 17 (7)		
	Qp: 740 cfs with Average Frequency 1 per season Regressed Volume is 978 to 7,662 (2,738) Regressed Duration is 2 to 16 (6)	Qp: 2,650 cfs with Average Frequency 1 per season Regressed Volume is 2,165 to 16,108 (5,905) Regressed Duration is 3 to 18 (7)	Qp: 541 cfs with Average Frequency 1 per season Regressed Volume is 361 to 1,930 (835) Regressed Duration is 2 to 7 (4)
	Qp: 191 cfs with Average Frequency 2 per season Regressed Volume is 256 to 2,009 (718) Regressed Duration is 1 to 9 (4)	Qp: 1,310 cfs with Average Frequency 2 per season Regressed Volume is 1,148 to 8,519 (3,127) Regressed Duration is 2 to 14 (6)	Qp: 184 cfs with Average Frequency 2 per season Regressed Volume is 161 to 860 (372) Regressed Duration is 1 to 5 (2)
Base Flows (cfs)	39(46.1%)	43(60.9%)	32(35.2%)
	27(62.9%)	29(72.8%)	23(51.2%)
	18(81.7%)	21(84.9%)	16(69.3%)
Subsistence Flows (cfs)	13(95.2%)	12(95.4%)	7.3(95.2%)

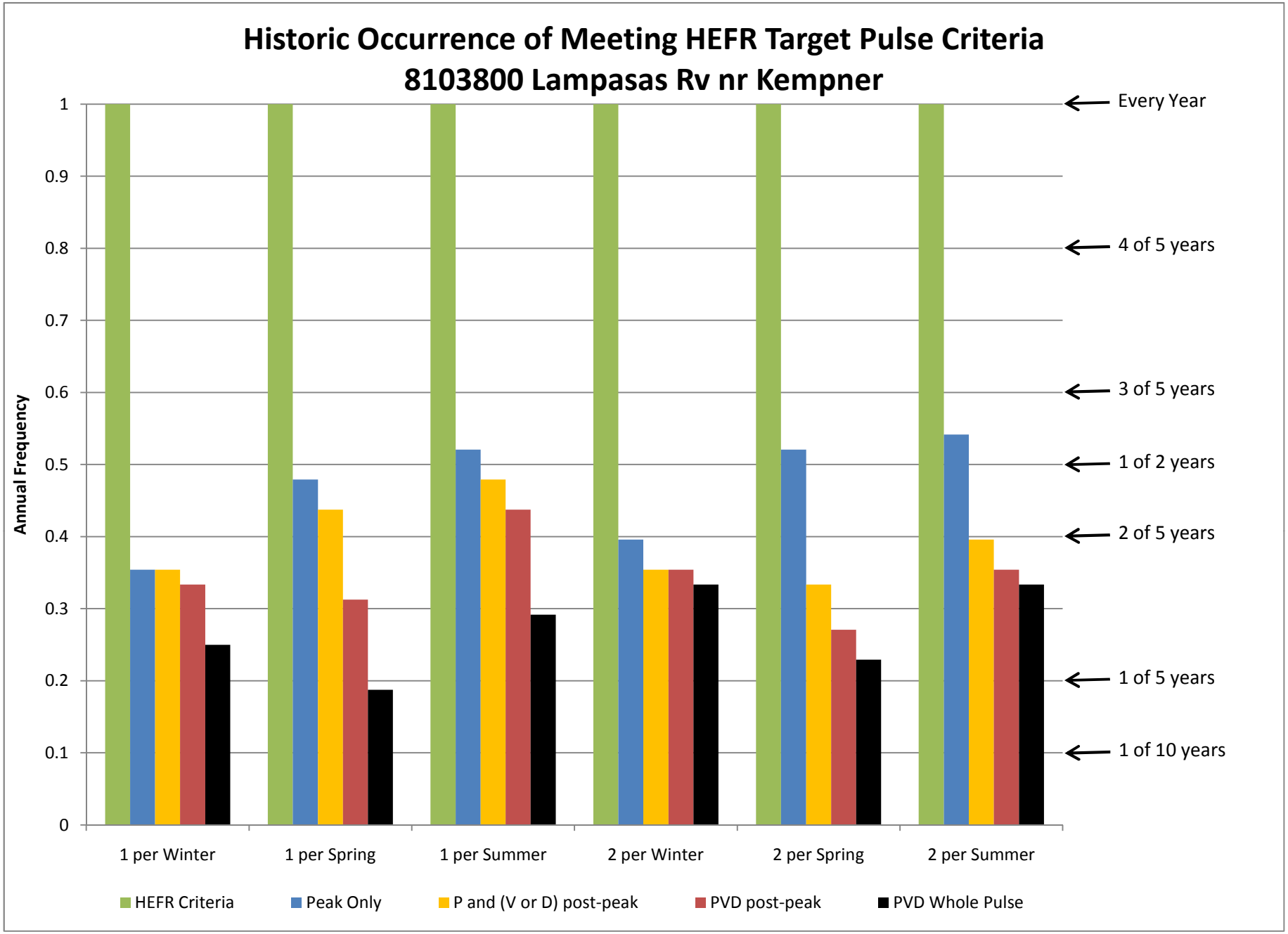
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1963 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 9.8 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8103800 Lampasas Rv nr Kempner
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8103800 Lampasas Rv nr Kempner
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8104500 Little River nr Little River

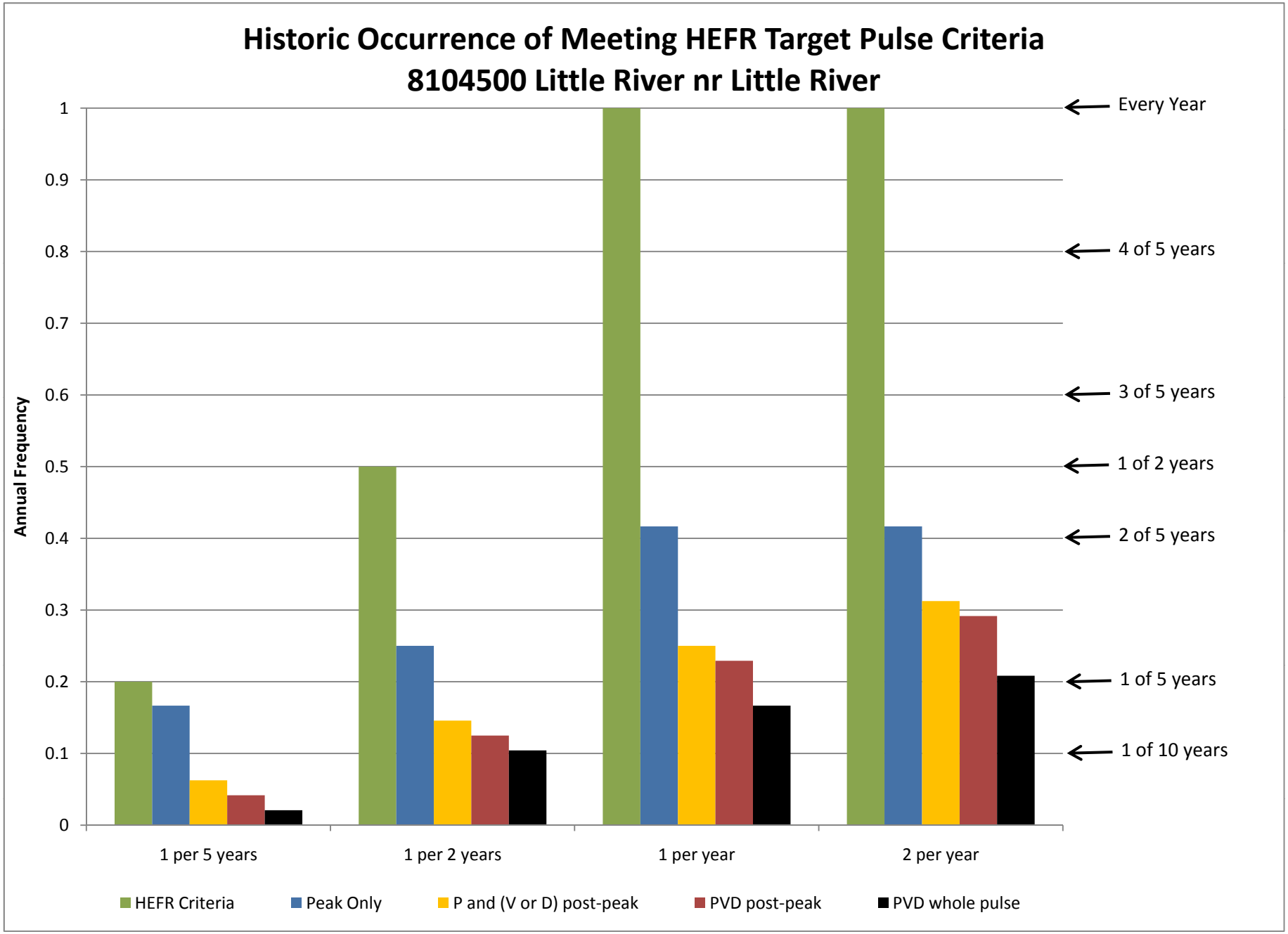
Overbank Flows	Qp: 11,700 cfs with Average Frequency 1 per 5 years Regressed Volume is 20,969 to 194,848 (63,919) Regressed Duration is 4 to 21 (9)		
High Flow Pulses	Qp: 8,890 cfs with Average Frequency 1 per 2 years Regressed Volume is 14,875 to 137,994 (45,307) Regressed Duration is 3 to 18 (8)		
	Qp: 6,740 cfs with Average Frequency 1 per year Regressed Volume is 10,523 to 97,471 (32,026) Regressed Duration is 3 to 15 (7)		
	Qp: 5,080 cfs with Average Frequency 2 per year Regressed Volume is 7,388 to 68,350 (22,472) Regressed Duration is 2 to 13 (6)		
	Qp: 2,960 cfs with Average Frequency 1 per season Regressed Volume is 4,356 to 34,072 (12,183) Regressed Duration is 2 to 10 (4)	Qp: 5,310 cfs with Average Frequency 1 per season Regressed Volume is 7,266 to 77,126 (23,673) Regressed Duration is 2 to 14 (6)	Qp: 2,470 cfs with Average Frequency 1 per season Regressed Volume is 2,818 to 25,211 (8,429) Regressed Duration is 2 to 8 (4)
	Qp: 1,600 cfs with Average Frequency 2 per season Regressed Volume is 2,037 to 15,892 (5,690) Regressed Duration is 1 to 7 (3)	Qp: 3,290 cfs with Average Frequency 2 per season Regressed Volume is 3,995 to 42,272 (12,996) Regressed Duration is 2 to 11 (4)	Qp: 1,050 cfs with Average Frequency 2 per season Regressed Volume is 958 to 8,552 (2,863) Regressed Duration is 1 to 5 (2)
Base Flows (cfs)	191(48.6%)	335(63.3%)	198(43.2%)
	112(64.3%)	148(76.8%)	121(58.8%)
	82(79.1%)	95(87.4%)	84(74.4%)
Subsistence Flows (cfs)	56(95.3%)	70(95.2%)	45(95.1%)

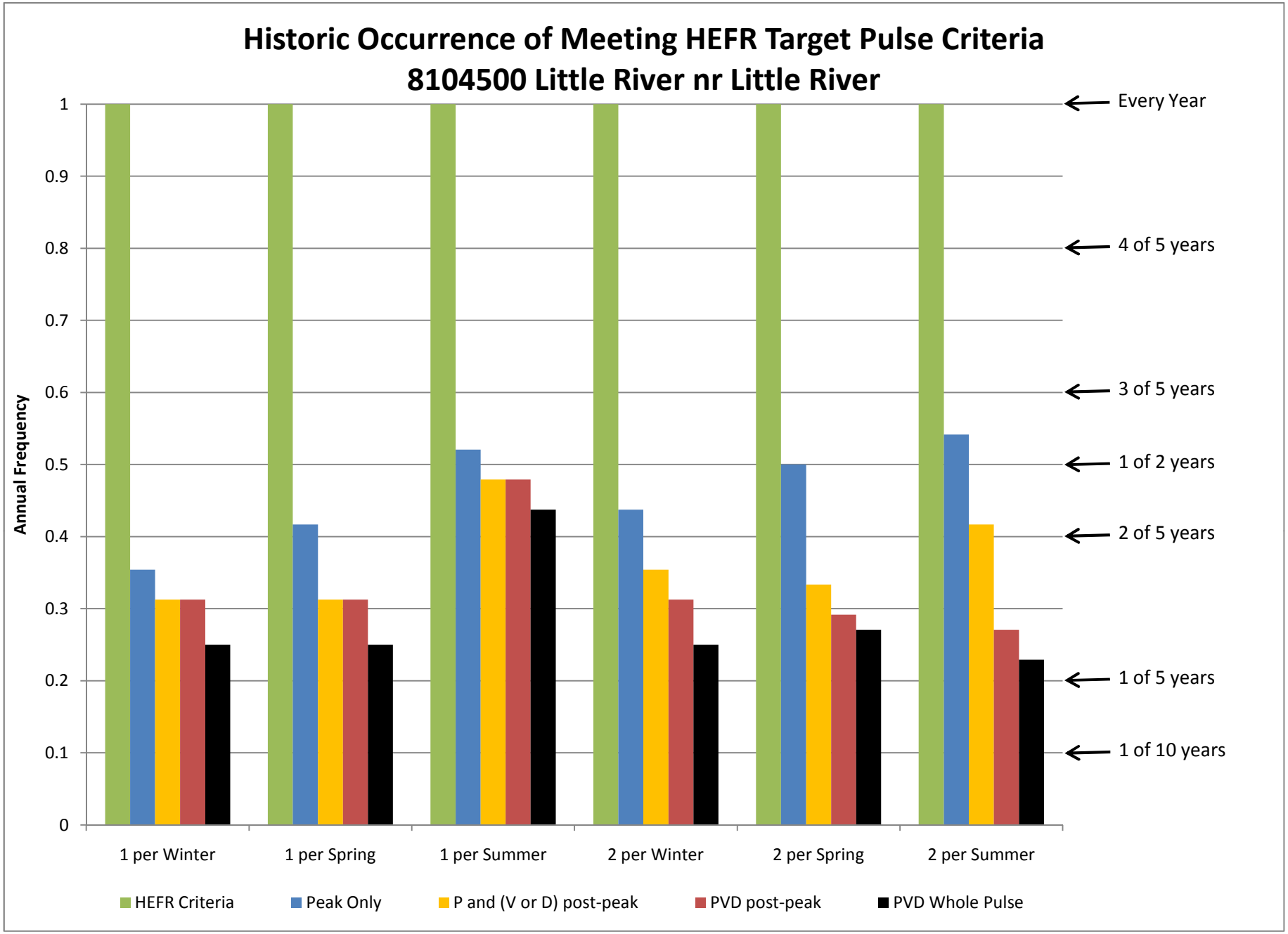
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1963 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 55 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8104500 Little River nr Little River
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8104500 Little River nr Little River
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8106500 Little River nr Cameron

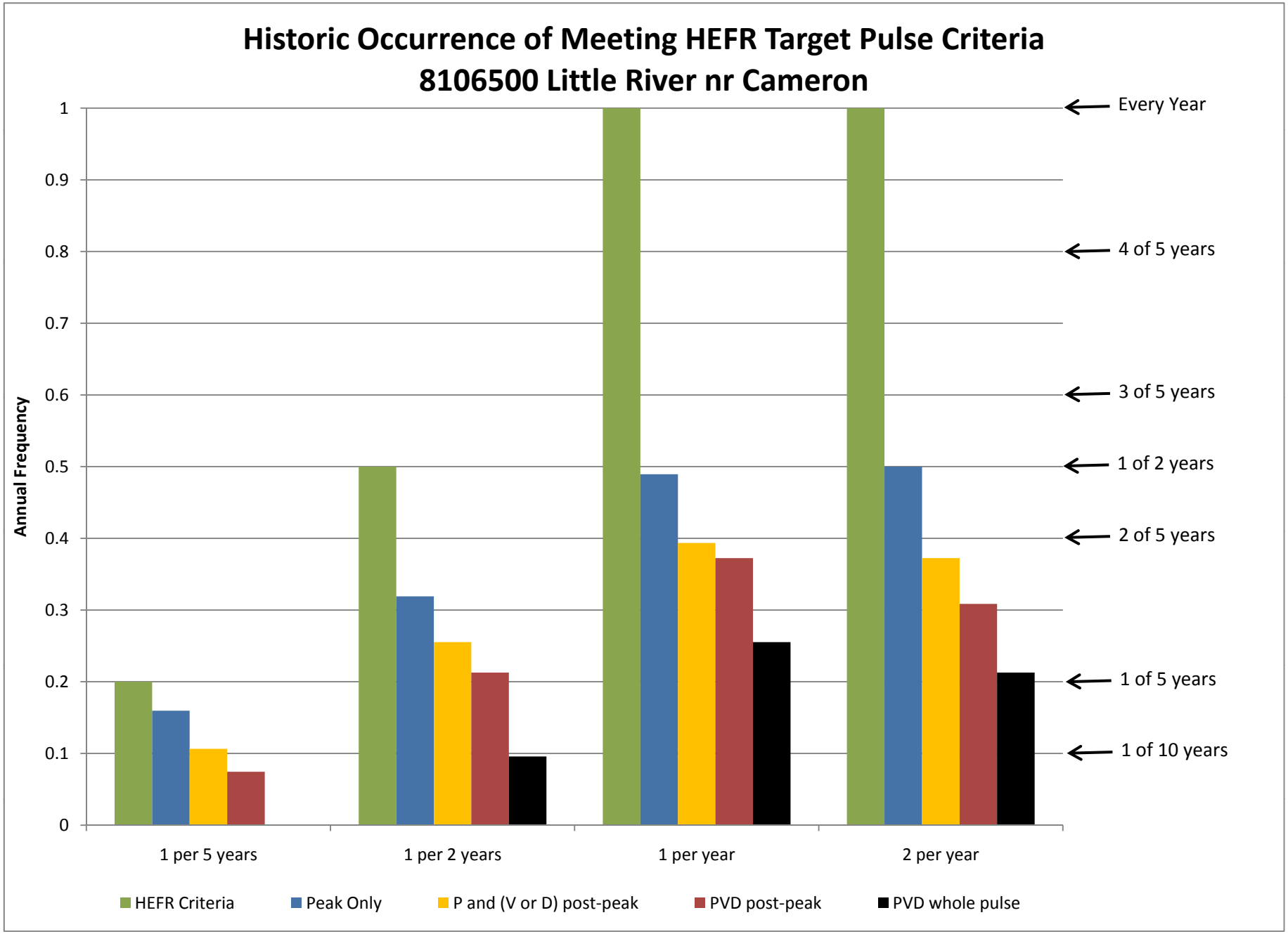
Overbank Flows	Qp: 56,000 cfs with Average Frequency 1 per 5 years Regressed Volume is 141,937 to 716,019 (318,794) Regressed Duration is 7 to 29 (14)		
High Flow Pulses	Qp: 29,900 cfs with Average Frequency 1 per 2 years Regressed Volume is 68,265 to 344,035 (153,250) Regressed Duration is 5 to 22 (11)		
	Qp: 19,700 cfs with Average Frequency 1 per year Regressed Volume is 41,956 to 211,333 (94,163) Regressed Duration is 4 to 19 (9)		
	Qp: 13,000 cfs with Average Frequency 2 per year Regressed Volume is 25,832 to 130,061 (57,963) Regressed Duration is 4 to 16 (8)		
	Qp: 9,550 cfs with Average Frequency 1 per season Regressed Volume is 19,265 to 92,708 (42,261) Regressed Duration is 3 to 14 (7)	Qp: 12,800 cfs with Average Frequency 1 per season Regressed Volume is 26,055 to 137,964 (59,956) Regressed Duration is 3 to 16 (7)	Qp: 4,800 cfs with Average Frequency 1 per season Regressed Volume is 6,932 to 33,265 (15,185) Regressed Duration is 2 to 10 (5)
	Qp: 4,630 cfs with Average Frequency 2 per season Regressed Volume is 8,314 to 39,962 (18,228) Regressed Duration is 3 to 10 (5)	Qp: 7,550 cfs with Average Frequency 2 per season Regressed Volume is 14,040 to 74,276 (32,293) Regressed Duration is 3 to 13 (6)	Qp: 2,070 cfs with Average Frequency 2 per season Regressed Volume is 2,695 to 12,921 (5,902) Regressed Duration is 2 to 7 (3)
Base Flows (cfs)	455(47.9%)	764(57.7%)	326(42.2%)
	190(67.8%)	307(75.8%)	161(61.2%)
	109(81.5%)	136(88.4%)	97(75.8%)
Subsistence Flows (cfs)	37(95.1%)	72(95.0%)	16(95.0%)

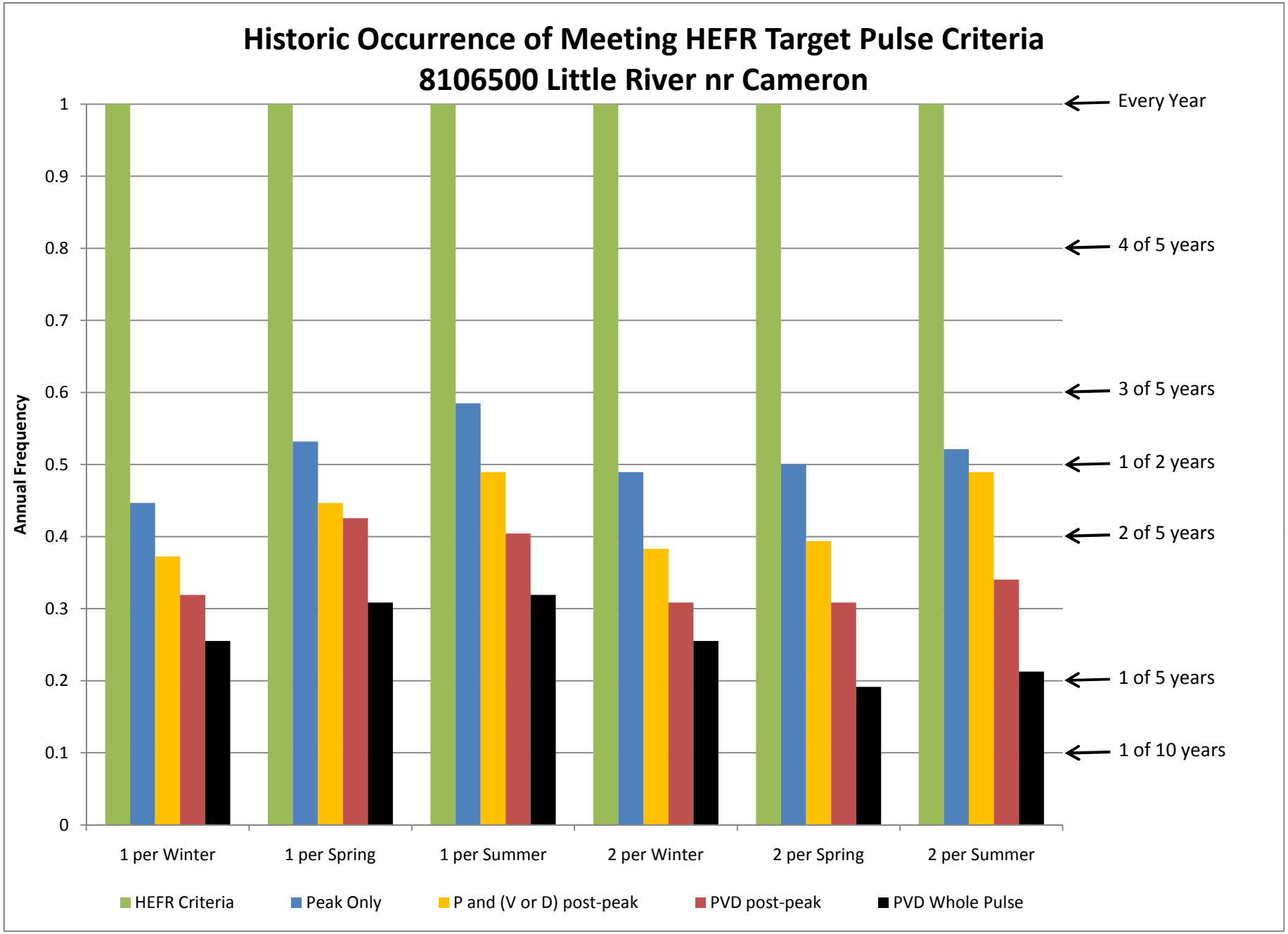
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1917 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 32 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8106500 Little River nr Cameron
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8106500 Little River nr Cameron
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 5 years
1 of 10 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse

8110500 Navasota Rv nr Easterly

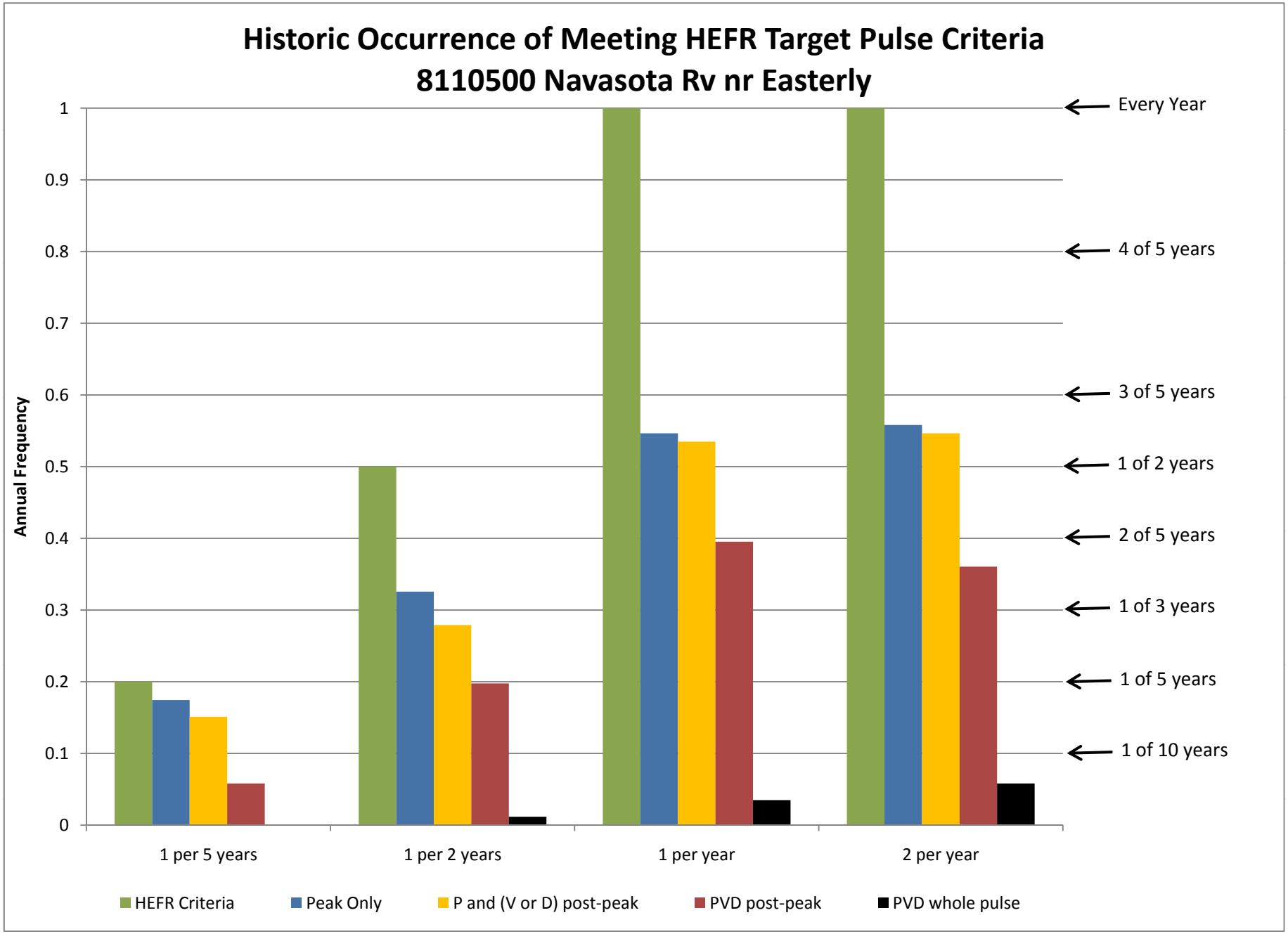
Overbank Flows	Qp: 26,900 cfs with Average Frequency 1 per 5 years Regressed Volume is 48,831 to 171,591 (91,536) Regressed Duration is 7 to 25 (14)		
High Flow Pulses	Qp: 16,700 cfs with Average Frequency 1 per 2 years Regressed Volume is 29,515 to 103,667 (55,315) Regressed Duration is 6 to 22 (12)		
	Qp: 10,800 cfs with Average Frequency 1 per year Regressed Volume is 18,626 to 65,397 (34,901) Regressed Duration is 6 to 19 (10)		
	Qp: 5,600 cfs with Average Frequency 2 per year Regressed Volume is 9,308 to 32,665 (17,437) Regressed Duration is 5 to 15 (8)		
	Qp: 4,390 cfs with Average Frequency 1 per season Regressed Volume is 8,070 to 25,537 (14,355) Regressed Duration is 5 to 15 (8)	Qp: 5,470 cfs with Average Frequency 1 per season Regressed Volume is 9,168 to 31,250 (16,926) Regressed Duration is 4 to 14 (8)	Qp: 413 cfs with Average Frequency 1 per season Regressed Volume is 454 to 1,910 (931) Regressed Duration is 2 to 6 (3)
	Qp: 1,700 cfs with Average Frequency 2 per season Regressed Volume is 3,025 to 9,563 (5,378) Regressed Duration is 3 to 11 (6)	Qp: 2,380 cfs with Average Frequency 2 per season Regressed Volume is 3,799 to 12,939 (7,011) Regressed Duration is 3 to 11 (6)	Qp: 118 cfs with Average Frequency 2 per season Regressed Volume is 123 to 519 (253) Regressed Duration is 1 to 4 (2)
Base Flows (cfs)	23(59.6%)	29(67.0%)	16(36.6%)
	14(74.1%)	19(77.8%)	8.4(52.0%)
	8.6(85.6%)	10(89.1%)	3.1(68.3%)
Subsistence Flows (cfs)	3.2(95.1%)	5.2(95.0%)	0.3(97.7%)

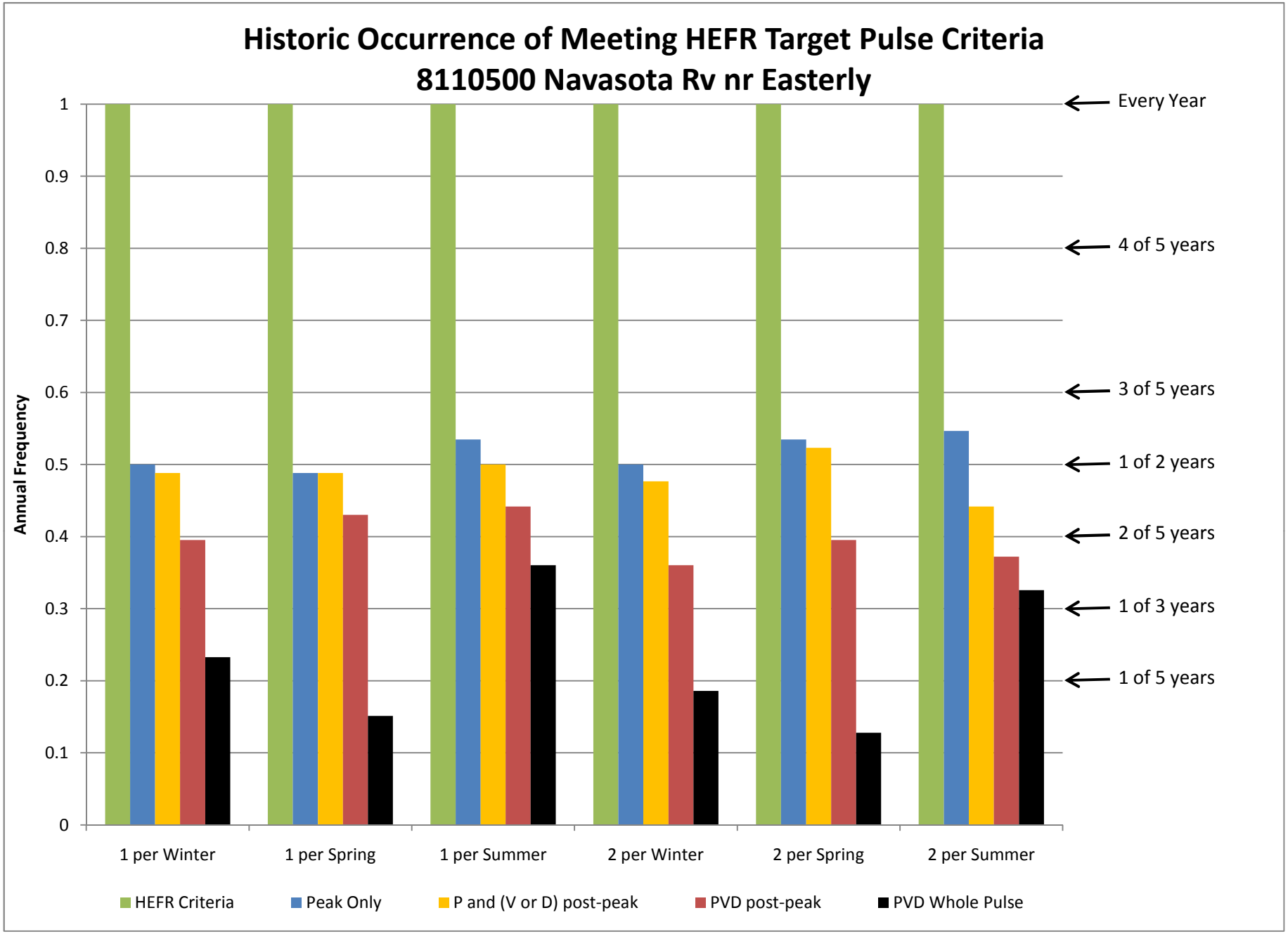
Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct
Winter				Spring				Summer			

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

Notes:

1. Period of Record used : 1/1/1925 to 12/31/2010.
2. Q95 calculation used for subsistence flows. Annual Q95 value is 0.9 cfs.
3. Subsistence and base flows calculated using non-zero flows only.


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8110500 Navasota Rv nr Easterly
Annual Frequency
1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 3 years
1 of 5 years
1 of 10 years
1 per 5 years
1 per 2 years
1 per year
2 per year
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD whole pulse


Historic Occurrence of Meeting HEFR Target Pulse Criteria
8110500 Navasota Rv nr Easterly
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0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0
Every Year
4 of 5 years
3 of 5 years
1 of 2 years
2 of 5 years
1 of 3 years
1 of 5 years
1 per Winter
1 per Spring
1 per Summer
2 per Winter
2 per Spring
2 per Summer
HEFR Criteria
Peak Only
P and (V or D) post-peak
PVD post-peak
PVD Whole Pulse