Table 1: Percent of Time Flow Criteria Were Met at Cleveland

Cleveland	Development Data 1940-2007				WAM 3: Full 1940-1995				WAM 8: Current 1940-1995				WAM 9: Future 1940-1995			
	Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		se Flow		Peak, Volume and Duration		Peak Only	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Overbank	21	31%	42	62%	15	27%	21	38%	15	27%	21	38%	15	27%	21	38%
Annual High 1	48	71%	54	79%	30	54%	40	71%	30	54%	40	71%	30	54%	40	71%
Annual High 2	25	37%	40	59%	11	20%	27	48%	11	20%	27	48%	11	20%	27	48%
Winter High	40	59%	46	68%	24	43%	33	59%	24	43%	33	59%	24	43%	33	59%
Winter Low 1	53	78%	59	87%	37	66%	45	80%	37	66%	45	80%	37	66%	45	80%
Winter Low 2	38	56%	47	69%	17	30%	32	57%	17	30%	32	57%	17	30%	32	57%
Spring High	29	43%	39	57%	26	46%	32	57%	26	46%	32	57%	26	46%	32	57%
Spring Low 1	54	79%	58	85%	35	63%	45	80%	35	63%	45	80%	35	63%	45	80%
Spring Low 2	36	53%	41	60%	20	36%	31	55%	20	36%	31	55%	20	36%	31	55%
Summer High	33	49%	37	54%	15	27%	36	64%	15	27%	36	64%	15	27%	36	64%
Summer Low 1	46	68%	47	69%	30	54%	36	64%	30	54%	36	64%	30	54%	36	64%
Summer Low 2	30	44%	30	44%	17	30%	22	39%	17	30%	22	39%	17	30%	22	39%
Fall High	31	46%	32	47%	12	21%	25	45%	12	21%	25	45%	12	21%	25	45%
Fall Low 1	48	71%	53	78%	22	39%	26	46%	22	39%	26	46%	22	39%	26	46%
Fall Low 2	32	47%	36	53%	8	14%	12	21%	8	14%	12	21%	8	14%	12	21%
Total Number of Pulses	564		661		319		463		319		463		319		463	
Number of Years for this Condition	68				56				56				56			

Table 2: Attainment Frequencies of Subsistence and Base Flow Recommendations for Cleveland in the Development Time Period and WAM 3, 8 and 9.

Season	Condition	Recommended Flow (cfs)	Recommended Frequency	Development 1940-2008	Full WAM 3 1940-1996	Current WAM 8 1940-1996	Future WAM 9 1940-1996
Winter	Subsistence	22	95%	95%	91%	91%	91%
	Dry	30	88%	88%	85%	85%	85%
	Average	43	77%	77%	76%	76%	76%
	Wet	80	62%	62%	61%	61%	61%
Spring	Subsistence	18	96%	96%	89%	89%	89%
	Dry	28	86%	86%	80%	80%	80%
	Average	42	72%	72%	72%	72%	72%
	Wet	64	56%	56%	62%	61%	62%
Summer	Subsistence	8	95%	95%	74%	74%	74%
	Dry	18	68%	68%	50%	50%	50%
	Average	24	52%	52%	42%	42%	42%
	Wet	34	33%	33%	34%	34%	34%
Fall	Subsistence	10	95%	94%	87%	87%	87%
	Dry	19	75%	75%	65%	65%	65%
	Average	27	57%	57%	53%	53%	53%
	Wet	38	41%	41%	44%	44%	44%

Table 3: Percent of Time Flow Criteria Were Met at Conroe

Conroe	Development Data 1941-1973				WAM 3: Full 1940-1995				WAM 8: Current 1940-1995				WAM 9: Future 1940-1995			
	Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Overbank	2	6%	8	24%	2	4%	8	14%	1	2%	11	20%	2	4%	8	14%
Annual High 1	20	61%	23	70%	23	41%	41	73%	28	50%	45	80%	23	41%	42	75%
Annual High 2	15	45%	19	58%	12	21%	25	45%	16	29%	30	54%	13	23%	25	45%
Winter High	19	58%	23	70%	22	39%	31	55%	29	52%	36	64%	23	41%	32	57%
Winter Low 1	28	85%	28	85%	46	82%	48	86%	44	79%	49	88%	47	84%	51	91%
Winter Low 2	24	73%	24	73%	35	63%	42	75%	32	57%	44	79%	34	61%	44	79%
Spring High	18	55%	20	61%	17	30%	33	59%	19	34%	36	64%	16	29%	34	61%
Spring Low 1	30	91%	31	94%	36	64%	47	84%	38	68%	48	86%	36	64%	48	86%
Spring Low 2	15	45%	18	55%	24	43%	31	55%	24	43%	35	63%	23	41%	32	57%
Summer High	17	52%	19	58%	25	45%	30	54%	25	45%	32	57%	23	41%	29	52%
Summer Low 1	23	70%	27	82%	27	48%	31	55%	27	48%	32	57%	26	46%	29	52%
Summer Low 2	14	42%	15	45%	14	25%	17	30%	14	25%	15	27%	14	25%	16	29%
Fall High	14	42%	14	42%	20	36%	23	41%	21	38%	24	43%	21	38%	24	43%
Fall Low 1	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Fall Low 2	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%	0	0%
Total Number of Pulses	239		269		303		407		318		437		301		414	
Number of Years for this Condition	33				56				56				56			

Table 4: Attainment Frequencies of Subsistence and Base Flow Recommendations for Conroe in the Development Time Period and WAM 3, 8 and 9.

Season	Condition	Recommended Flow (cfs)	Recommended Frequency	Development 1940-1973	Full WAM 3 1940-1996	Current WAM 8 1940-1996	Future WAM 9 1940-1996
Winter	Subsistence	23	95%	95%	96%	98%	98%
	Dry	36	86%	88%	88%	92%	92%
	Average	58	77%	77%	72%	75%	77%
	Wet	111	61%	61%	51%	55%	53%
Spring	Subsistence	24	96%	95%	91%	95%	94%
	Dry	37	87%	87%	78%	82%	82%
	Average	56	74%	74%	61%	67%	66%
	Wet	88	59%	59%	46%	50%	49%
Summer	Subsistence	9	95%	94%	83%	92%	90%
	Dry	18	67%	67%	62%	78%	69%
	Average	26	49%	49%	46%	56%	43%
	Wet	38	32%	32%	28%	34%	27%
Fall	Subsistence	9	95%	97%	84%	90%	91%
	Dry	22	71%	72%	64%	70%	70%
	Average	29	57%	58%	52%	59%	60%
	Wet	47	42%	42%	36%	38%	39%

Table 5: Percent of Time Flow Criteria Were Met at Spring Creek

Spring	Development Data 1940-2007				WAM 3: Full 1940-1995				WAM 8: Current 1940-1995				WAM 9: Future 1940-1995			
	Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Overbank	17	25%	35	51%	12	21%	28	50%	12	21%	28	50%	12	21%	28	50%
Annual High 1	40	59%	52	76%	26	46%	42	75%	26	46%	43	77%	26	46%	43	77%
Annual High 2	21	31%	35	51%	11	20%	25	45%	11	20%	27	48%	11	20%	27	48%
Winter High	39	57%	45	66%	28	50%	36	64%	28	50%	36	64%	28	50%	36	64%
Winter Low 1	57	84%	59	87%	40	71%	48	86%	40	71%	49	88%	40	71%	49	88%
Winter Low 2	41	60%	45	66%	29	52%	36	64%	30	54%	37	66%	30	54%	37	66%
Spring High	31	46%	43	63%	21	38%	36	64%	23	41%	37	66%	23	41%	37	66%
Spring Low 1	52	76%	55	81%	37	66%	47	84%	38	68%	47	84%	38	68%	47	84%
Spring Low 2	33	49%	38	56%	23	41%	29	52%	25	45%	33	59%	25	45%	33	59%
Summer High	29	43%	34	50%	18	32%	20	36%	19	34%	23	41%	19	34%	23	41%
Summer Low 1	43	63%	50	74%	26	46%	37	66%	29	52%	44	79%	29	52%	44	79%
Summer Low 2	30	44%	37	54%	16	29%	25	45%	16	29%	27	48%	16	29%	27	48%
Fall High	35	51%	39	57%	21	38%	29	52%	21	38%	30	54%	22	39%	30	54%
Fall Low 1	52	76%	57	84%	35	63%	41	73%	37	66%	43	77%	37	66%	43	77%
Fall Low 2	31	46%	41	60%	20	36%	32	57%	23	41%	33	59%	23	41%	33	59%
Total Number of Pulses	551		665		363		511		378		537		379		537	
Number of Years for this Condition	68				56				56				56			

Table 6: Attainment Frequencies of Subsistence and Base Flow Recommendations for Spring Creek in the Development Time Period and WAM 3, 8 and 9.

Season	Condition	Recommended Flow	Recommended Frequency	Development 1940-2007	Full WAM 3 1940-1996	Current WAM 8 1940-1996	Future WAM 9 1940-1996
Winter	Subsistence	14	95%	96%	94%	98%	98%
	Dry	22	86%	86%	83%	92%	92%
	Average	36	74%	74%	70%	74%	75%
	Wet	59	60%	60%	56%	58%	59%
Spring	Subsistence	14	96%	96%	94%	98%	98%
	Dry	24	86%	86%	81%	89%	89%
	Average	36	72%	72%	67%	74%	74%
	Wet	52	57%	57%	53%	58%	58%
Summer	Subsistence	6	95%	94%	93%	100%	99%
	Dry	17	71%	71%	62%	83%	83%
	Average	24	56%	56%	47%	65%	64%
	Wet	35	39%	39%	31%	42%	41%
Fall	Subsistence	6	95%	95%	93%	100%	100%
	Dry	17	75%	75%	66%	84%	84%
	Average	24	61%	61%	52%	68%	68%
	Wet	37	45%	45%	38%	45%	45%

Table 7: Percent of Time Flow Criteria Were Met at Piney Point

Piney Point	Development Data 1964-1975				WAM 3: Full 1964-1976 and 1985-1995				WAM 8: Current 1964-1976 and 1984-1995				WAM 9: Future 1964-1976 and 1984-1995			
	Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Overbank	6	50%	8	67%	7	29%	10	42%	8	32%	11	44%	8	32%	11	44%
Annual High 1	10	83%	11	92%	20	83%	20	83%	20	80%	20	80%	20	80%	20	80%
Annual High 2	5	42%	7	58%	7	29%	10	42%	8	32%	11	44%	8	32%	11	44%
Winter High	8	67%	9	75%	19	79%	20	83%	19	76%	20	80%	19	76%	20	80%
Winter Low 1	9	75%	11	92%	20	83%	20	83%	21	84%	23	92%	21	84%	23	92%
Winter Low 2	7	58%	8	67%	6	25%	7	29%	7	28%	10	40%	7	28%	10	40%
Spring High	6	50%	6	50%	12	50%	12	50%	13	52%	13	52%	13	52%	13	52%
Spring Low 1	8	67%	9	75%	17	71%	20	83%	18	72%	22	88%	18	72%	22	88%
Spring Low 2	5	42%	8	67%	5	21%	7	29%	6	24%	10	40%	6	24%	10	40%
Summer High	6	50%	8	67%	9	38%	10	42%	9	36%	10	40%	9	36%	10	40%
Summer Low 1	8	67%	10	83%	14	58%	15	63%	17	68%	17	68%	17	68%	17	68%
Summer Low 2	5	42%	6	50%	3	13%	5	21%	4	16%	8	32%	4	16%	8	32%
Fall High	7	58%	8	67%	2	8%	3	13%	6	24%	9	36%	6	24%	9	36%
Fall Low 1	9	75%	9	75%	11	46%	11	46%	15	60%	15	60%	15	60%	15	60%
Fall Low 2	6	50%	6	50%	3	13%	3	13%	6	24%	7	28%	6	24%	7	28%
Total Number of Pulses	105		124		155		173		177		206		177		206	
Number of Years for this Condition	12				24				25				25			

Table 8: Attainment Frequencies of Subsistence and Base Flow Recommendations for Piney Point in the Development Time Period and WAM 3, 8 and 9.

Season	Condition	Recommended Flow (cfs)	Recommended Frequency	Development 1964-1975	Full WAM 3 1964-1975 and 1985-1996	Current WAM 8 1964-1975 and 1984-1996	Future WAM 9 1964-1975 and 1984-1996
Winter	Subsistence	11	96%	96%	91%	97%	97%
	Dry	25	80%	80%	77%	89%	89%
	Average	38	68%	68%	68%	76%	76%
	Wet	58	55%	55%	55%	61%	61%
Spring	Subsistence	13	95%	95%	91%	98%	98%
	Dry	26	81%	81%	75%	88%	88%
	Average	37	67%	67%	62%	74%	74%
	Wet	51	54%	54%	55%	60%	60%
Summer	Subsistence	26	95%	95%	87%	93%	93%
	Dry	45	87%	85%	68%	79%	79%
	Average	66	74%	72%	54%	61%	61%
	Wet	96	60%	58%	40%	47%	47%
Fall	Subsistence	13	96%	96%	94%	100%	100%
	Dry	33	81%	81%	72%	87%	86%
	Average	49	69%	69%	58%	67%	65%
	Wet	75	56%	56%	46%	49%	48%

Table 9: Percent of Time Flow Criteria Were Met at Houston

Houston	Development Data 1937-1960				WAM 3: Full 1940-1995				WAM 8: Current 1940-1995				WAM 9: Future 1940-1995			
	Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only		Peak, Volume and Duration		Peak Only	
	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%	Total	%
Overbank	1	4%	7	29%	10	18%	26	46%	0	0%	35	63%	0	0%	18	32%
Annual High 1	13	54%	16	67%	21	38%	48	86%	7	13%	56	100%	4	7%	36	64%
Annual High 2	8	33%	13	54%	7	13%	34	61%	1	2%	53	95%	0	0%	21	38%
Winter High	11	46%	15	63%	17	30%	43	77%	7	13%	55	98%	0	0%	45	80%
Winter Low 1	21	88%	22	92%	33	59%	54	96%	28	50%	56	100%	18	32%	56	100%
Winter Low 2	17	71%	18	75%	18	32%	46	82%	15	27%	56	100%	5	9%	56	100%
Spring High	13	54%	17	71%	17	30%	45	80%	11	20%	56	100%	6	11%	51	91%
Spring Low 1	21	88%	21	88%	34	61%	54	96%	36	64%	56	100%	31	55%	56	100%
Spring Low 2	9	38%	15	63%	19	34%	44	79%	19	34%	56	100%	12	21%	56	100%
Summer High	17	71%	18	75%	28	50%	50	89%	29	52%	56	100%	27	48%	56	100%
Summer Low 1	22	92%	23	96%	44	79%	54	96%	54	96%	56	100%	56	100%	56	100%
Summer Low 2	13	54%	14	58%	32	57%	50	89%	47	84%	56	100%	53	95%	56	100%
Fall High	9	38%	12	50%	20	36%	46	82%	17	30%	55	98%	14	25%	55	98%
Fall Low 1	20	83%	20	83%	46	82%	52	93%	55	98%	56	100%	56	100%	56	100%
Fall Low 2	12	50%	13	54%	39	70%	47	84%	49	88%	56	100%	56	100%	56	100%
Total Number of Pulses	207		244		385		693		375		814		338		730	
Number of Years for this Condition	24				56				56				56			

Table 10: Attainment Frequencies of Subsistence and Base Flow Recommendations for Houston in the Development Time Period and WAM 3, 8 and 9.

Season	Condition	Recommended Flow	Recommended Frequency	Development 1937-1960	Full WAM 3 1940-1996	Current WAM 8 1940-1996	Future WAM 9 1940-1996
Winter	Subsistence	3	95%	95%	99%	100%	100%
	Dry	6	84%	84%	94%	100%	98%
	Average	9	72%	72%	89%	99%	96%
	Wet	10	67%	67%	87%	99%	95%
Spring	Subsistence	1	97%	98%	99%	100%	100%
	Dry	5	79%	79%	94%	100%	98%
	Average	8	60%	60%	86%	98%	96%
	Wet	10	50%	50%	82%	98%	94%
Summer	Subsistence	1	97%	92%	99%	100%	100%
	Dry	5	72%	72%	92%	99%	98%
	Average	8	57%	57%	85%	99%	96%
	Wet	10	47%	47%	81%	98%	95%
Fall	Subsistence	1	95%	90%	99%	100%	100%
	Dry	5	71%	89%	91%	99%	98%
	Average	7	58%	79%	85%	98%	96%
	Wet	9	48%	72%	81%	98%	95%