

Parameter	Caterpillar Creek Upper		Caterpillar Creek Middle		Caterpillar Creek Lower		Caterpillar Creek Confluence	
	Min	Max	Min	Max	Min	Max	Min	Max
Stream Type	C4		C4		C4		C4	
Drainage Area (sq. mi.)	0.4		0.49		0.51		0.51	
Bankfull Width Target (Wbkf) ft	8		8		9		9	
Bankfull Width Range (Wbkf) ft	6.4	9.6	6.4	9.6	7.2	10.8	7.2	10.8
Bankfull Mean Depth Target (dbkf) ft	0.75		0.75		0.78		0.78	
Bankfull Mean Depth Range (dbkf) ft	0.60	0.90	0.60	0.90	0.62	0.93	0.62	0.93
Width/Depth Ratio Target (Wbkf/dbkf)	10.7		10.7		11.6		11.6	
Width/Depth Ratio Range (Wbkf/dbkf)	8.9	13.3	8.9	13.3	9.6	14.5	9.6	14.5
Bankfull Cross-Sectional Area Target (Abkf) sq ft	6		6		7		7	
Bankfull Cross-Sectional Area Range (Abkf) sq ft	4.8	7.2	4.8	7.2	5.6	8.4	5.6	8.4
Median Annual Peak Flow (Q2) cfs	175		385		403		403	
Bankfull Mean Velocity Target (Vbkf) fps	1.9		0.9		0.7		2.7	
Bankfull Mean Velocity Range (Vbkf) fps	1.6	2.4	0.7	1.1	0.6	0.9	2.3	3.4
Bankfull Discharge (Qbkf) cfs	11.5		5.3		5		19.1	
Maximum Bankfull Depth Target (dmax) ft	1		1		1		1	
Maximum Bankfull Depth Range (dmax) ft	0.75	1.25	0.75	1.25	0.75	1.25	0.75	1.25
Ratio of Low Bank Height to Maximum Bankfull Depth Target (lbh/dmax)	1		1		1		1	
Ratio of Low Bank Height to Maximum Bankfull Depth Range (lbh/dmax)	1	1.25	1	1.25	1	1.25	1	1.25
Width Flood Prone Area (Wfpa) ft	> 22		> 22		> 24		> 24	
Entrenchment Ratio (Wfpa/Wbkf)	> 2.2		> 2.2		> 2.2		> 2.2	
Meander Length (Lm) ft	105	175	95	180	134	244	218	363
Ratio of Meander Length to Bankfull Width (Lm/Wbkf)	13.1	21.9	11.9	22.5	14.9	27.1	24.2	40.3
Radius of Curvature (Rc) ft	40	152	36	122	50	170	200	250
Ratio of Radius of Curvature to Bankfull Width (Rc/Wbkf)	5.0	19.0	4.5	15.3	5.6	18.9	22.2	27.8
Belt Width (Wblt) ft	27	54	33.5	67	33.5	67	16	32
Meander Width Ratio (Wblt/Wbkf)	3.4	6.8	4.2	8.4	3.7	7.4	1.8	3.6
Sinuosity (K)	1.06	1.23	1.04	1.20	1.09	1.26	1.00	1.12
Maximum Pool Depth (dpool) ft	1	3	1	3	1	3	1	3
Ratio of Maximum Pool Depth to Bankfull Mean Depth (dpool/dbkf)	1.3	4.0	1.3	4.0	1.3	3.9	1.3	3.9
Pool Width (Wpool) ft	8	10.4	8	10.4	9	11.7	9	11.7
Ratio of Pool Width to Bankfull Width (Wpool/Wbkf)	1.00	1.30	1.00	1.30	1.00	1.30	1.00	1.30
Bankfull Cross-sectional Area at Pool (Apool) sq ft	6	24	6	24	7	27	7	27
Ratio of Pool Area to Bankfull Area (Apool/Abkf)	1.0	4.0	1.0	4.0	1.0	3.9	1.0	3.9
Pool-to-Pool Spacing (p-p) ft	24	64	24	64	27	72	27	72
Ratio of Pool-to-Pool Spacing to Bankfull Width (p-p/Wbkf)	3	8	3	8	3	8	3	8
Pool Length (Lp) ft	3	20.2	3	21.0	3	31.7	3	51.4
Ratio of Pool Length to Bankfull Width (Lp/Wbkf)	0.4	2.5	0.4	2.6	0.3	3.5	0.3	5.7
Maximum Riffle Depth (driff) ft	1		1		1		1	
Ratio of Maximum Riffle Depth to Bankfull Mean Depth (driff/dbkf)	1.11	1.67	1.11	1.67	1.07	1.61	1.07	1.61
Maximum Run Depth (drun) ft	1.50		1.50		1.50		1.50	
Ratio of Maximum Run Depth to Bankfull Mean Depth (drun/dbkf)	1.67	2.50	1.67	2.50	1.61	2.41	1.61	2.41
Maximum Glide Depth (dglide) ft	1.50		1.50		1.50		1.50	
Ratio of Glide Depth to Bankfull Mean Depth (dglide/dbkf)	1.67	2.50	1.67	2.50	1.61	2.41	1.61	2.41

Parameter	Corn Crib Creek Upper		Corn Crib Creek Lower		Massey Flats Middle		Massey Flats Lower	
	Min	Max	Min	Max	Min	Max	Min	Max
Stream Type	E5		E5		E5		E5	
Drainage Area (sq. mi.)	0.07		0.07		0.04		0.04	
Bankfull Width Target (Wbkf) ft	8		9		8		8	
Bankfull Width Range (Wbkf) ft	6.4	9.6	7.2	10.8	6.4	9.6	6.4	9.6
Bankfull Mean Depth Target (dbkf) ft	0.75		0.78		0.75		0.75	
Bankfull Mean Depth Range (dbkf) ft	0.60	0.90	0.62	0.93	0.60	0.90	0.60	0.90
Width/Depth Ratio Target (Wbkf/dbkf)	10.7		11.6		10.7		10.7	
Width/Depth Ratio Range (Wbkf/dbkf)	8.9	13.3	9.6	14.5	8.9	13.3	8.9	13.3
Bankfull Cross-Sectional Area Target (Abkf) sq ft	6		7		6		6	
Bankfull Cross-Sectional Area Range (Abkf) sq ft	4.8	7.2	5.6	8.4	4.8	7.2	4.8	7.2
Median Annual Peak Flow (Q2) cfs	72.1		72.1		52		52	
Bankfull Mean Velocity Target (Vbkf) fps	0.4		0.6		1.5		1.3	
Bankfull Mean Velocity Range (Vbkf) fps	0.3	0.4	0.5	0.8	1.2	1.8	1.0	1.6
Bankfull Discharge (Qbkf) cfs	2.1		4.3		8.8		7.5	
Maximum Bankfull Depth (dmax) ft	1		1		1		1	
Maximum Bankfull Depth Range (dmax) ft	0.75	1.25	0.75	1.25	0.75	1.25	0.75	1.25
Ratio of Low Bank Height to Maximum Bankfull Depth (lbh/dmax)	1		1		1		1	
Ratio of Low Bank Height to Maximum Bankfull Depth Range (lbh/dmax)	1	1.25	1	1.25	1	1.25	1	1.25
Width Flood Prone Area (Wfpa) ft	> 22		> 24		> 22		> 22	
Entrenchment Ratio (Wfpa/Wbkf)	> 2.2		> 2.2		> 2.2		> 2.2	
Meander Length (Lm) ft	57	148	68	96	75	190	74	116
Ratio of Meander Length to Bankfull Width (Lm/Wbkf)	7.1	18.5	7.6	10.7	9.4	23.8	9.3	14.5
Radius of Curvature (Rc) ft	24	48	25	41	28	66	28	87
Ratio of Radius of Curvature to Bankfull Width (Rc/Wbkf)	3.0	6.0	2.8	4.6	3.5	8.3	3.5	10.9
Belt Width (Wbtl) ft	20	60	20	60	20	60	20	60
Meander Width Ratio (Wbtl/Wbkf)	2.5	7.5	2.2	6.7	2.5	7.5	2.5	7.5
Sinuosity (K)	1.10	1.27	1.13	1.31	1.10	1.27	1.24	1.43
Maximum Pool Depth (dpool) ft	1	3	1	3	1	3	1	3
Ratio of Maximum Pool Depth to Bankfull Mean Depth (dpool/dbkf)	1.3	4.0	1.3	3.9	1.3	4.0	1.3	4.0
Pool Width (Wpool) ft	8	10.4	9	11.7	8	10.4	8	10.4
Ratio of Pool Width to Bankfull Width (Wpool/Wbkf)	1.00	1.30	1.00	1.30	1.00	1.30	1.00	1.30
Bankfull Cross-sectional Area at Pool (Apool) sq ft	6	24	7	27	6	24	6	24
Ratio of Pool Area to Bankfull Area (Apool/Abkf)	1.0	4.0	1.0	3.9	1.0	4.0	1.0	4.0
Pool-to-Pool Spacing (p-p) ft	24	64	27	72	24	64	24	64
Ratio of Pool-to-Pool Spacing to Bankfull Width (p-p/Wbkf)	3	8	3	8	3	8	3	8
Pool Length (Lp) ft	3	15.7	3	7.0	3	22.7	3	10.3
Ratio of Pool Length to Bankfull Width (Lp/Wbkf)	0.4	2.0	0.3	0.8	0.4	2.8	0.4	1.3
Maximum Riffle Depth (driff) ft	1		1		1		1	
Ratio of Maximum Riffle Depth to Bankfull Mean Depth (driff/dbkf)	1.11	1.67	1.07	1.61	1.11	1.67	1.11	1.67
Maximum Run Depth (drun) ft	1.50		1.50		1.50		1.50	
Ratio of Maximum Run Depth to Bankfull Mean Depth (drun/dbkf)	1.67	2.50	1.61	2.41	1.67	2.50	1.67	2.50
Maximum Glide Depth (dglide) ft	1.50		1.50		1.50		1.50	
Ratio of Glide Depth to Bankfull Mean Depth (dglide/dbkf)	1.67	2.50	1.61	2.41	1.67	2.50	1.67	2.50

Parameter	Bobcat Run Upper		Bobcat Run Lower		Deere Draw		Deere Draw Confluence	
	Min	Max	Min	Max	Min	Max	Min	Max
Stream Type	B4		E4		C4		C4	
Drainage Area (sq. mi.)	0.04		0.04		0.91		0.91	
Bankfull Width Target (Wbkf) ft	8		8		11.5		11.5	
Bankfull Width Range (Wbkf) ft	6.4	9.6	6.4	9.6	9.2	13.8	9.2	13.8
Bankfull Mean Depth Target (dbkf) ft	0.75		0.75		0.98		0.98	
Bankfull Mean Depth Range (dbkf) ft	0.60	0.90	0.60	0.90	0.79	1.18	0.79	1.18
Width/Depth Ratio Target (Wbkf/dbkf)	10.7		10.7		11.7		11.7	
Width/Depth Ratio Range (Wbkf/dbkf)	8.9	13.3	8.9	13.3	9.8	14.6	9.8	14.6
Bankfull Cross-Sectional Area Target (Abkf) sq ft	6		6		11.3		11.3	
Bankfull Cross-Sectional Area Range (Abkf) sq ft	4.8	7.2	4.8	7.2	9.04	13.56	9.04	13.56
Median Annual Peak Flow (Q2) cfs	18.7		18.7		426		426	
Bankfull Mean Velocity Target (Vbkf) fps	5.0		2.2		1.7		4.1	
Bankfull Mean Velocity Range (Vbkf) fps	4.1	6.2	1.8	2.8	1.4	2.1	3.4	5.1
Bankfull Discharge (Qbkf) cfs	29.7		13.3		19.3		46.1	
Maximum Bankfull Depth (dmax) ft	1		1		1.25		1.25	
Maximum Bankfull Depth Range (dmax) ft	0.75	1.25	0.75	1.25	1	1.5	1	1.5
Ratio of Low Bank Height to Maximum Bankfull Depth (lbh/dmax)	1		1		1		1	
Ratio of Low Bank Height to Maximum Bankfull Depth Range (lbh/dmax)	1	1.25	1	1.25	1	1.25	1	1.25
Width Flood Prone Area (Wfpa) ft	> 22		> 22		> 31		> 31	
Entrenchment Ratio (Wfpa/Wbkf)	> 2.2		> 2.2		> 2.2		> 2.2	
Meander Length (Lm) ft	250	400	80	130	168	366	174	290
Ratio of Meander Length to Bankfull Width (Lm/Wbkf)	31.3	50.0	10.0	16.3	14.6	31.8	15.1	25.2
Radius of Curvature (Rc) ft	108	360	28	56	60	156	200	250
Ratio of Radius of Curvature to Bankfull Width (Rc/Wbkf)	13.5	45.0	3.5	7.0	5.2	13.6	17.4	21.7
Belt Width (Wbtl) ft	20	60	24	88	49	98	6	30
Meander Width Ratio (Wbtl/Wbkf)	2.5	7.5	3.0	11.0	4.3	8.5	0.5	2.6
Sinuosity (K)	1.00	1.10	1.12	1.29	1.08	1.25	1.00	1.12
Maximum Pool Depth (dpool) ft	1	3	1	3	1.25	3.75	1.25	3.75
Ratio of Maximum Pool Depth to Bankfull Mean Depth (dpool/dbkf)	1.3	4.0	1.3	4.0	1.3	3.8	1.3	3.8
Pool Width (Wpool) ft	8	10.4	8	10.4	11.5	14.95	11.5	14.95
Ratio of Pool Width to Bankfull Width (Wpool/Wbkf)	1.00	1.30	1.00	1.30	1.00	1.30	1.00	1.30
Bankfull Cross-sectional Area at Pool (Apool) sq ft	6	24	6	24	11.3	34.5	11.3	34.5
Ratio of Pool Area to Bankfull Area (Apool/Abkf)	1.0	4.0	1.0	4.0	1.0	3.1	1.0	3.1
Pool-to-Pool Spacing (p-p) ft	24	64	24	64	34.5	92	34.5	92
Ratio of Pool-to-Pool Spacing to Bankfull Width (p-p/Wbkf)	3	8	3	8	3	8	3	8
Pool Length (Lp) ft	3	57.7	3	12.7	3	52.0	3	39.3
Ratio of Pool Length to Bankfull Width (Lp/Wbkf)	0.4	7.2	0.4	1.6	0.3	4.5	0.3	3.4
Maximum Riffle Depth (driff) ft	1		1		1.25		1.25	
Ratio of Maximum Riffle Depth to Bankfull Mean Depth (driff/dbkf)	1.11	1.67	1.11	1.67	1.06	1.59	1.06	1.59
Maximum Run Depth (drun) ft	1.50		1.50		1.88		1.88	
Ratio of Maximum Run Depth to Bankfull Mean Depth (drun/dbkf)	1.67	2.50	1.67	2.50	1.59	2.39	1.59	2.39
Maximum Glide Depth (dglide) ft	1.50		1.50		1.88		1.88	
Ratio of Glide Depth to Bankfull Mean Depth (dglide/dbkf)	1.67	2.50	1.67	2.50	1.59	2.39	1.59	2.39

Parameter	Bulldozer Branch Lower		Case Creek		Case Creek Confluence	
	Min	Max	Min	Max	Min	Max
Stream Type	E5		C4		C4	
Drainage Area (sq. mi.)	0.13		0.94		0.94	
Bankfull Width Target (Wbkf) ft	10.5		11.5		11.5	
Bankfull Width Range (Wbkf) ft	8.4	12.6	9.2	13.8	9.2	13.8
Bankfull Mean Depth Target (dbkf) ft	0.95		0.98		0.98	
Bankfull Mean Depth Range (dbkf) ft	0.76	1.14	0.79	1.18	0.79	1.18
Width/Depth Ratio Target (Wbkf/dbkf)	11.0		11.7		11.7	
Width/Depth Ratio Range (Wbkf/dbkf)	9.2	13.8	9.8	14.6	9.8	14.6
Bankfull Cross-Sectional Area Target (Abkf) sq ft	10		11.3		11.3	
Bankfull Cross-Sectional Area Range (Abkf) sq ft	8	12	9.04	13.56	9.04	13.56
Median Annual Peak Flow (Q2) cfs	177		267		267	
Bankfull Mean Velocity Target (Vbkf) fps	0.9		2.2		3.4	
Bankfull Mean Velocity Range (Vbkf) fps	0.7	1.1	1.8	2.7	2.8	4.2
Bankfull Discharge (Qbkf) cfs	8.7		24.6		38.1	
Maximum Bankfull Depth (dmax) ft	1.25		1.25		1.25	
Maximum Bankfull Depth Range (dmax) ft	1	1.5	1	1.5	1	1.5
Ratio of Low Bank Height to Maximum Bankfull Depth (lbh/dmax)	1		1		1	
Ratio of Low Bank Height to Maximum Bankfull Depth Range (lbh/dmax)	1	1.25	1	1.25	1	1.25
Width Flood Prone Area (Wfpa) ft	> 28		> 31		> 31	
Entrenchment Ratio (Wfpa/Wbkf)	> 2.2		> 2.2		> 2.2	
Meander Length (Lm) ft	60	100	125	235	416	693
Ratio of Meander Length to Bankfull Width (Lm/Wbkf)	5.7	9.5	10.9	20.4	36.1	60.2
Radius of Curvature (Rc) ft	16	38	45	87	240	275
Ratio of Radius of Curvature to Bankfull Width (Rc/Wbkf)	1.5	3.6	3.9	7.6	20.9	23.9
Belt Width (Wblt) ft	24	96	39	78	25	78
Meander Width Ratio (Wblt/Wbkf)	2.3	9.1	3.4	6.8	2.2	6.8
Sinuosity (K)	1.26	1.46	1.10	1.27	1.00	1.14
Maximum Pool Depth (dpool) ft	1.25	3.75	1.25	3.75	1.25	3.75
Ratio of Maximum Pool Depth to Bankfull Mean Depth (dpool/dbkf)	1.3	3.9	1.3	3.8	1.3	3.8
Pool Width (Wpool) ft	10.5	13.65	11.5	14.95	11.5	14.95
Ratio of Pool Width to Bankfull Width (Wpool/Wbkf)	1.00	1.30	1.00	1.30	1.00	1.30
Bankfull Cross-sectional Area at Pool (Apool) sq ft	10	31.5	11.3	34.5	11.3	34.5
Ratio of Pool Area to Bankfull Area (Apool/Abkf)	1.0	3.2	1.0	3.1	1.0	3.1
Pool-to-Pool Spacing (p-p) ft	31.5	84	34.5	92	34.5	92
Ratio of Pool-to-Pool Spacing to Bankfull Width (p-p/Wbkf)	3	8	3	8	3	8
Pool Length (Lp) ft	3	7.7	3	30.2	3	106.4
Ratio of Pool Length to Bankfull Width (Lp/Wbkf)	0.3	0.7	0.3	2.6	0.3	9.3
Maximum Riffle Depth (driff) ft	1.25		1.25		1.25	
Ratio of Maximum Riffle Depth to Bankfull Mean Depth (driff/dbkf)	1.09	1.64	1.06	1.59	1.06	1.59
Maximum Run Depth (drun) ft	1.88		1.88		1.88	
Ratio of Maximum Run Depth to Bankfull Mean Depth (drun/dbkf)	1.64	2.46	1.59	2.39	1.59	2.39
Maximum Glide Depth (dglide) ft	1.88		1.88		1.88	
Ratio of Glide Depth to Bankfull Mean Depth (dglide/dbkf)	1.64	2.46	1.59	2.39	1.59	2.39