

Rapid Creek - Johnson County

In-Stream Assessment Summary

Stream Miles Assessed: 18.50

Flow at time of survey			Left Riparian Zone Width		
	<i>Stream Miles</i>	<i>% of Total</i>		<i>Stream Miles</i>	<i>% of Total</i>
Normal	11.39	61.6%	< 10 Feet	12.00	64.9%
High	5.77	31.2%	10-30 Feet	3.68	19.9%
Low	1.16	6.3%	30-60 Feet	2.45	13.2%
No Flow	0.18	1.0%	> 60 Feet	0.00	0.0%
Hydrologic Variability			Right Riparian Zone Width		
Dry Channel	0.00	0.0%	< 10 Feet	10.96	59.2%
Pond	0.16	0.8%	10-30 Feet	4.00	21.6%
Pool/Glide	13.00	70.3%	30-60 Feet	3.06	16.6%
Riffle	0.64	3.5%	> 60 Feet	0.00	0.0%
Run	4.70	25.4%			
Substrate			Left Riparian Zone Cover		
Bedrock	0.04	0.2%	Grass	7.82	42.3%
Boulder	0.80	4.3%	Trees	9.56	51.7%
Cobble	2.64	14.2%	Pasture	1.08	5.8%
Gravel	5.24	28.3%	CRP-Trees	0.05	0.3%
Sand	2.16	11.7%	CRP-Grass	0.00	0.0%
Silt/Mud	6.92	37.4%	Residential	0.00	0.0%
Clay/Hard Pan	0.00	0.0%	Commercial	0.00	0.0%
Sediment Coverage			Right Riparian Zone Cover		
Entire Segment	8.25	44.6%	Grass	8.17	44.2%
75-90% of Segment	4.92	26.6%	Trees	7.76	41.9%
50-75% of Segment	2.69	14.5%	Pasture	2.19	11.9%
25-50% of Segment	1.82	9.8%	CRP-Trees	0.00	0.0%
0-25% of Segment	0.83	4.5%	CRP-Grass	0.38	2.1%
			Residential	0.00	0.0%
			Commercial	0.00	0.0%
Pool Frequency			Left Adjacent Land Cover		
None	5.75	31.1%	Row Crop	6.65	36.0%
1 Pool	2.95	15.9%	Trees	3.04	16.4%
2 Pools	1.35	7.3%	Grass	2.67	14.4%
3 Pools	2.01	10.9%	Pasture	3.39	18.3%
4 Pool	0.74	4.0%	CRP	0.55	3.0%
5 or More	5.70	30.8%	Residential	0.46	2.5%
			Commercial	0.99	5.3%
Riffle Frequency			Open Feedlot	0.00	0.0%
None	4.47	24.1%	Farmstead	0.00	0.0%
1 Riffle	1.78	9.6%	Cliff	0.00	0.0%
2 Riffles	4.92	26.6%	Other	0.11	0.6%
3 Riffles	1.61	8.7%			
4 Riffles	0.69	3.7%	Right Adjacent Land Cover		
5 or More	5.04	27.2%	Row Crop	6.69	36.2%
			Trees	1.88	10.2%
Losing Flow			Grass	2.78	15.0%
Yes	0.00	0.0%	Pasture	3.45	18.6%
No	18.50	100.0%	CRP	0.88	4.8%
			Residential	0.98	5.3%
Stream Habitat			Commercial	0.00	0.0%
Poor	8.14	44.0%	Open Feedlot	0.00	0.0%
Average	8.48	45.8%	Farmstead	0.00	0.0%
Excellent	1.88	10.2%	Cliff	0.00	0.0%
			Other	1.00	5.4%

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Bank Stability

Stable	3.23	17.5%
Moderately Stable	13.73	74.2%
Moderately Unstable	1.04	5.6%
Unstable	0.22	1.2%
Artificially Stable	0.00	0.0%

Canopy Cover

0-10%	2.15	11.6%
10-25%	2.45	13.3%
25-50%	2.04	11.0%
50-75%	5.91	32.0%
75-100%	5.95	32.1%

Bank Height

0 - 3'	2.83	15.3%
3 - 6'	4.28	23.1%
6 - 10'	6.26	33.8%
10 - 15'	4.48	24.2%
15' +	0.35	1.9%

Right Livestock Access

Yes	4.78	25.9%
No	13.72	74.1%

Left Livestock Access

Yes	5.13	27.7%
No	13.37	72.3%

Bank Erosion

None	1.20	6.5%
Both Banks	8.63	46.6%
Alternate Banks	5.12	27.7%
Random	2.73	14.8%

Channel Pattern

Straight	3.15	17.0%
Meandering	15.15	81.9%
Braided	0.21	1.1%

Bank Material

Rock/RipRap	0.00	0.0%
Soil/Silt	16.98	91.8%
Cobble/Gravel	0.00	0.0%
Sand	0.21	1.1%

Channel Condition

Altered Channel	0.00	0.0%
Natural Channel	14.01	75.7%
Past Channel Alteration	4.49	24.3%
Recent Alteration	0.00	0.0%

Bank Vegetation

None	0.11	0.6%
Overhanging Only	0.81	4.4%
Dislodged	0.00	0.0%
Partially Established	1.67	9.0%
Well Established	15.44	83.4%