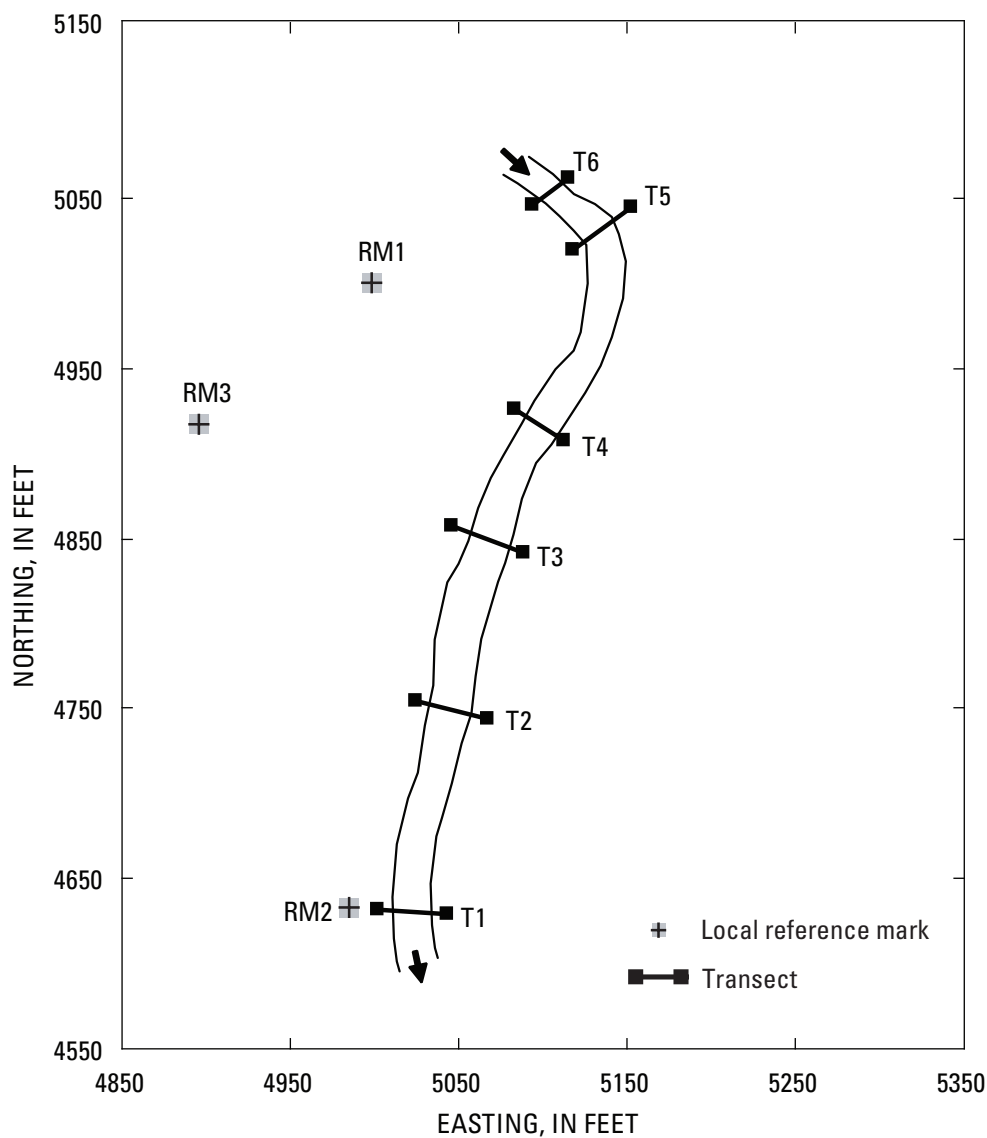


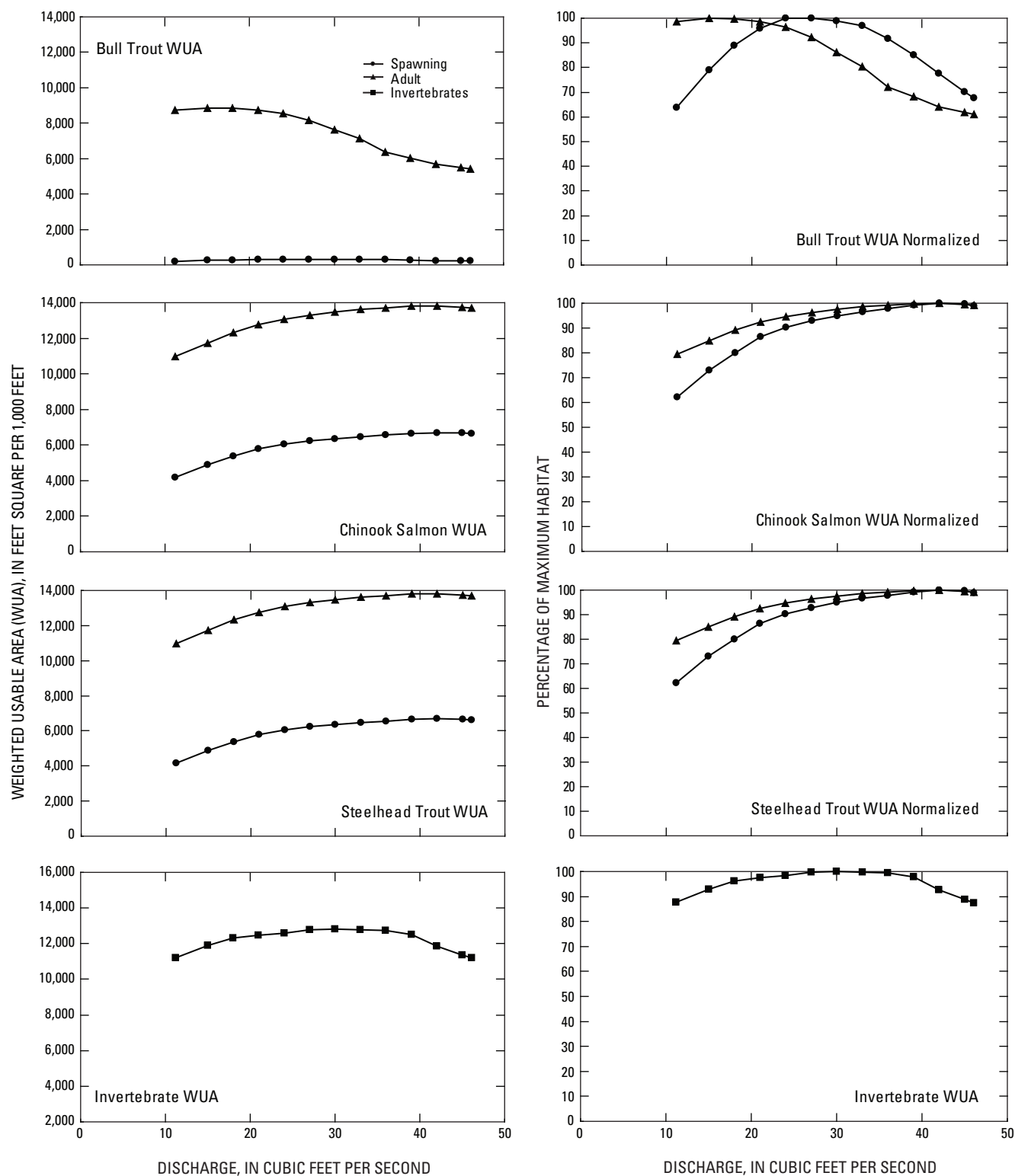
**Appendix H.** Plan view, weighted usable areas, and passage criteria assessments for bull trout, Chinook salmon, steelhead trout, and invertebrates for lower Morgan Creek (MC1), upper Salmon River Basin, Idaho, 2005.



Transect Endpoint Coordinates (NAD 83)			Transect Endpoint Coordinates (NAD 83)		
Point	Latitude	Longitude	Point	Latitude	Longitude
RH1	44° 34' 4.73" N	114° 10' 53.22" W	RH4	44° 34' 7.49" N	114° 10' 52.45" W
LH1	44° 34' 4.73" N	114° 10' 53.77" W	LH4	44° 34' 7.67" N	114° 10' 52.86" W
RH2	44° 34' 5.86" N	114° 10' 52.94" W	RH5	44° 34' 8.88" N	114° 10' 52.01" W
LH2	44° 34' 5.95" N	114° 10' 53.58" W	LH5	44° 34' 8.62" N	114° 10' 52.45" W
RH3	44° 34' 6.85" N	114° 10' 52.75" W	RH6	44° 34' 9.03" N	114° 10' 52.53" W
LH3	44° 34' 6.98" N	114° 10' 53.33" W	LH6	44° 34' 8.87" N	114° 10' 52.81" W

For reference only; stream schematic not to scale.

**Figure H1.** Plan view of lower Morgan Creek (MC1), upper Salmon River Basin, Idaho, 2005.

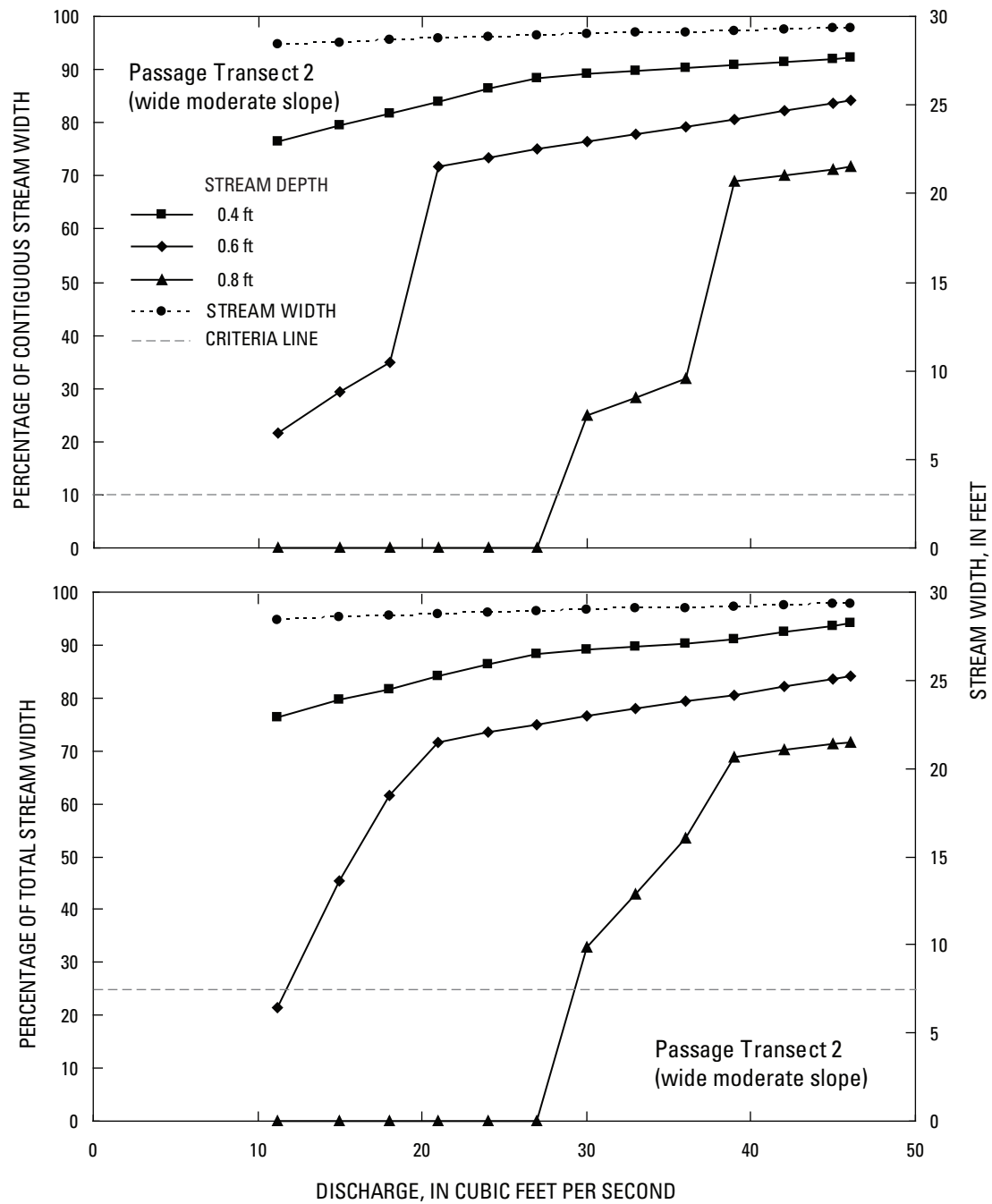


**Figure H2.** Weighted usable area and percentage of maximum habitat for bull trout, Chinook salmon, steelhead trout, and invertebrates, lower Morgan Creek (MC1), upper Salmon River Basin, Idaho, 2005.

**Table H1.** Weighted usable area for bull trout, Chinook salmon, steelhead trout life stages, and Ephemeroptera, Plecoptera, and Trichoptera (EPT) invertebrates, site MC1, lower Morgan Creek, upper Salmon River Basin, Idaho, 2005.

[Site location shown in [figure 12](#). **Abbreviations:** WUA, weighted usable area; ft<sup>3</sup>/s, cubic foot per second; ft<sup>2</sup>, square foot; ft<sup>2</sup>/1,000 ft, square foot per 1,000 feet]

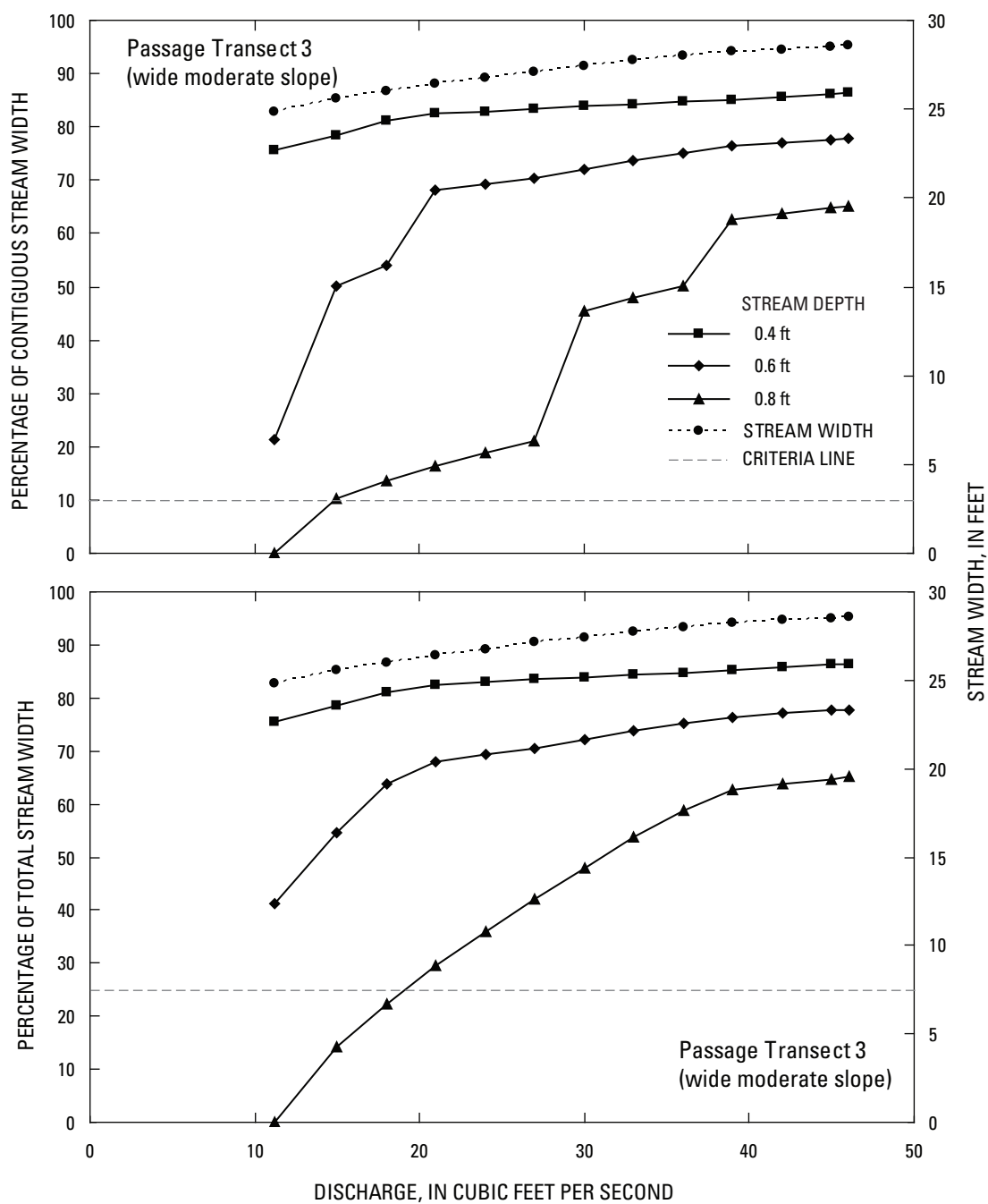
Discharge (ft <sup>3</sup> /s)	Total area (ft <sup>2</sup> )	Summary of WUA (ft <sup>2</sup> /1,000 ft)		Percentage of maximum habitat		Discharge (ft <sup>3</sup> /s)	Total area (ft <sup>2</sup> )	Summary of WUA (ft <sup>2</sup> /1,000 ft)		Percentage of maximum habitat	
		Adult	Spawning	Adult	Spawning			Adult	Spawning	Adult	Spawning
Bull trout						Steelhead trout					
11.2	22,018	8,724	200	98.6	63.8	11.2	22,018	10,984	4,170	79.5	62.2
15	22,462	8,851	248	100.0	79.0	15	22,462	11,740	4,895	84.9	73.1
18	22,762	8,835	279	99.8	88.9	18	22,762	12,317	5,367	89.1	80.1
21	23,024	8,727	301	98.6	95.8	21	23,024	12,770	5,789	92.4	86.4
24	23,261	8,527	314	96.3	100.0	24	23,261	13,079	6,044	94.6	90.2
27	23,478	8,164	314	92.2	100.0	27	23,478	13,306	6,225	96.3	92.9
30	23,680	7,638	311	86.3	99.0	30	23,680	13,479	6,363	97.5	95.0
33	23,865	7,115	305	80.4	97.1	33	23,865	13,635	6,470	98.6	96.6
36	24,039	6,373	288	72.0	91.7	36	24,039	13,706	6,554	99.2	97.8
39	24,195	6,034	267	68.2	85.1	39	24,195	13,802	6,650	99.9	99.3
42	24,314	5,683	244	64.2	77.6	42	24,314	13,821	6,700	100.0	100.0
45	24,429	5,483	220	61.9	70.1	45	24,429	13,754	6,674	99.5	99.6
46.100	24,471	5,412	213	61.1	67.8	46.100	24,471	13,705	6,628	99.2	98.9
Chinook salmon						Discharge (ft <sup>3</sup> /s)	Total area (ft <sup>2</sup> )	Summary of WUA (ft <sup>2</sup> /1,000 ft)	Percentage of maximum habitat		
11.2	22,018	10,984	4,170	79.5	62.2						
15	22,462	11,740	4,895	84.9	73.1						
18	22,762	12,317	5,367	89.1	80.1						
21	23,024	12,770	5,789	92.4	86.4						
24	23,261	13,079	6,044	94.6	90.2						
27	23,478	13,306	6,225	96.3	92.9						
30	23,680	13,479	6,363	97.5	95.0						
33	23,865	13,635	6,470	98.6	96.6						
36	24,039	13,706	6,554	99.2	97.8						
39	24,195	13,802	6,650	99.9	99.3						
42	24,314	13,821	6,700	100.0	100.0						
45	24,429	13,754	6,674	99.5	99.6						
46.100	24,471	13,705	6,628	99.2	98.9						
						EPT Invertebrates					
						11.2	22,018	11,220		87.6	
						15	22,462	11,894		92.9	
						18	22,762	12,313		96.2	
						21	23,024	12,482		97.5	
						24	23,261	12,586		98.3	
						27	23,478	12,768		99.7	
						30	23,680	12,802		100.0	
						33	23,865	12,775		99.8	
						36	24,039	12,723		99.4	
						39	24,195	12,506		97.7	
						42	24,314	11,846		92.5	
						45	24,429	11,370		88.8	
						46.100	24,471	11,209		87.6	



**Figure H3.** Percentages of contiguous and total stream width for passage transect 2, lower Morgan Creek (MC1), upper Salmon River Basin, Idaho, 2005.

**Table H2.** Passage criteria assessment for transect 2 (wide moderate slope), site MC1, lower Morgan Creek, upper Salmon River Basin, Idaho, 2005.[Site location shown in [figure 12](#). Abbreviations: ft, foot; ft<sup>3</sup>/s, cubic foot per second]

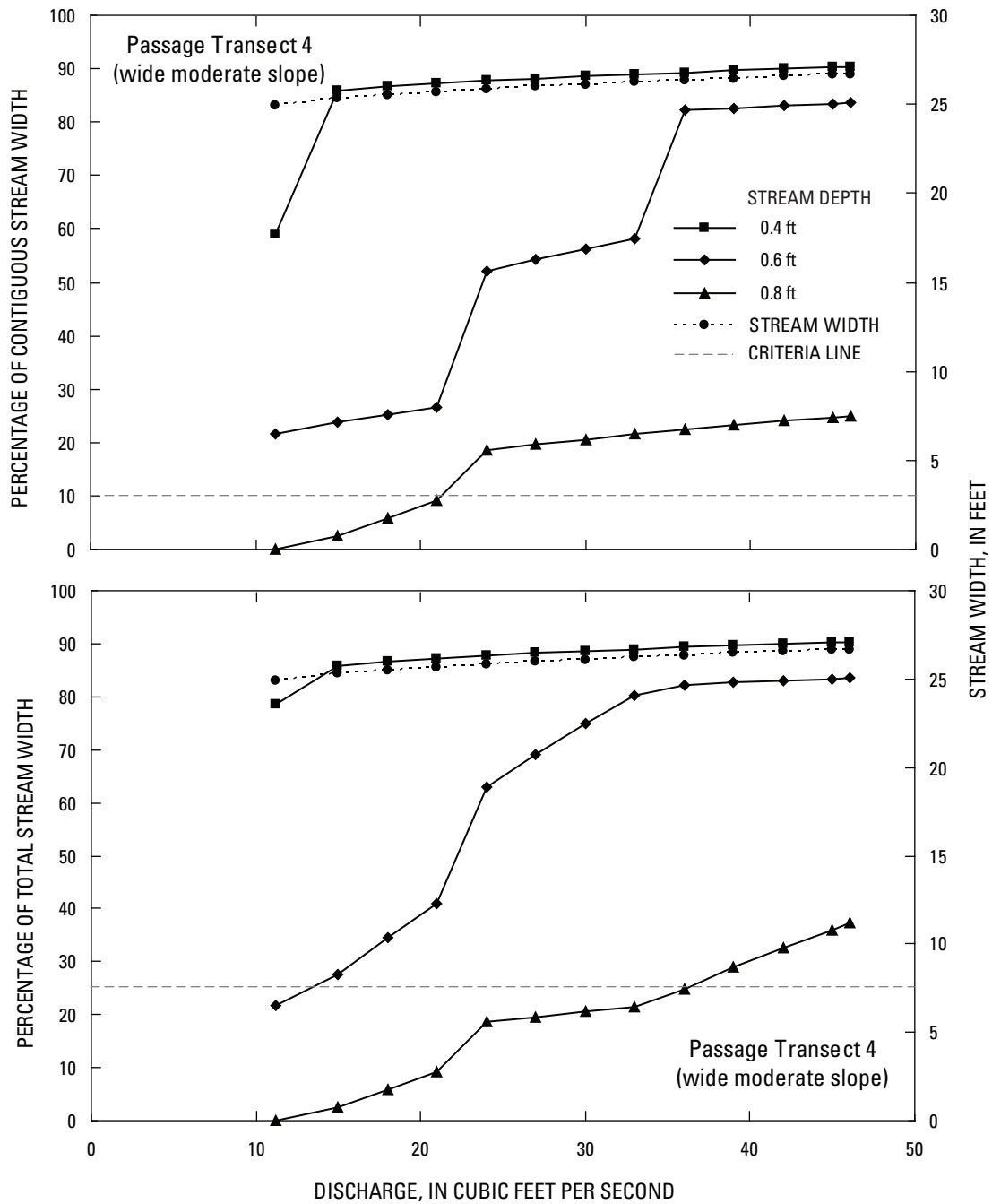
Discharge (ft³/s)	Stream width (ft)	Passage criteria assessment				Discharge (ft³/s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous			Total	Percentage	Contiguous	Percentage contiguous
Stream widths greater than 0.4-ft depth						Stream widths greater than 0.8-ft depth					
11.2	28.4	21.7	76.4	21.7	76.4	11.2	28.4	0.0	0.0	0.0	0.0
15	28.5	22.7	79.5	22.7	79.5	15	28.5	0.0	0.0	0.0	0.0
18	28.6	23.4	81.6	23.4	81.6	18	28.6	0.0	0.0	0.0	0.0
21	28.7	24.2	84.1	24.2	84.1	21	28.7	0.0	0.0	0.0	0.0
24	28.8	24.9	86.3	24.9	86.3	24	28.8	0.0	0.0	0.0	0.0
27	28.9	25.5	88.4	25.5	88.4	27	28.9	0.0	0.0	0.0	0.0
30	29.0	25.8	89.1	25.8	89.1	30	29.0	9.5	32.8	7.2	25.0
33	29.1	26.1	89.7	26.1	89.7	33	29.1	12.5	43.0	8.2	28.4
36	29.1	26.3	90.3	26.3	90.3	36	29.1	15.6	53.5	9.3	31.9
39	29.2	26.6	91.1	26.5	90.9	39	29.2	20.1	68.8	20.1	68.8
42	29.2	27.0	92.4	26.7	91.4	42	29.2	20.5	70.1	20.5	70.1
45	29.3	27.5	93.7	26.9	92.0	45	29.3	20.9	71.3	20.9	71.3
46	29.3	27.6	94.2	27.0	92.1	46	29.3	21.0	71.7	21.0	71.7
Stream widths greater than 0.6-ft depth											
11.2	28.4	6.1	21.5	6.1	21.5						
15	28.5	12.9	45.3	8.4	29.4						
18	28.6	17.6	61.5	10.0	34.8						
21	28.7	20.6	71.7	20.6	71.7						
24	28.8	21.2	73.4	21.2	73.4						
27	28.9	21.7	75.0	21.7	75.0						
30	29.0	22.2	76.6	22.2	76.6						
33	29.1	22.6	77.9	22.6	77.9						
36	29.1	23.1	79.3	23.1	79.3						
39	29.2	23.5	80.6	23.5	80.6						
42	29.2	24.0	82.2	24.0	82.2						
45	29.3	24.5	83.7	24.5	83.7						
46	29.3	24.7	84.2	24.7	84.2						



**Figure H4.** Percentages of contiguous and total stream width for passage transect 3, lower Morgan Creek (MC1), upper Salmon River Basin, Idaho, 2005.

**Table H3.** Passage criteria assessment for transect 3 (wide moderate slope), site MC1, lower Morgan Creek, upper Salmon River Basin, Idaho, 2005.[Site location shown in [figure 12](#). Abbreviations: ft, foot; ft<sup>3</sup>/s, cubic foot per second]

Discharge (ft <sup>3</sup> /s)	Stream width (ft)	Passage criteria assessment				Discharge (ft <sup>3</sup> /s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous			Total	Percentage	Contiguous	Percentage contiguous
Stream widths greater than 0.4-ft depth						Stream widths greater than 0.8-ft depth					
11.2	24.8	18.7	75.5	18.7	75.5	11.2	24.8	0.0	0.0	0.0	0.0
15	25.6	20.1	78.5	20.1	78.5	15	25.6	3.7	14.3	2.6	10.3
18	26.0	21.1	81.1	21.1	81.1	18	26.0	5.8	22.4	3.6	13.6
21	26.4	21.8	82.4	21.8	82.4	21	26.4	7.8	29.6	4.4	16.5
24	26.8	22.2	83.0	22.2	83.0	24	26.8	9.6	36.0	5.1	18.9
27	27.1	22.6	83.5	22.6	83.5	27	27.1	11.4	42.0	5.7	21.2
30	27.4	23.0	83.9	23.0	83.9	30	27.4	13.2	48.0	12.5	45.4
33	27.7	23.4	84.3	23.4	84.3	33	27.7	14.9	53.6	13.3	47.8
36	28.0	23.7	84.7	23.7	84.7	36	28.0	16.4	58.7	14.0	50.0
39	28.2	24.0	85.1	24.0	85.1	39	28.2	17.7	62.7	17.7	62.7
42	28.4	24.3	85.7	24.3	85.7	42	28.4	18.1	63.7	18.1	63.7
45	28.5	24.6	86.3	24.6	86.3	45	28.5	18.5	64.7	18.5	64.7
46	28.6	24.7	86.5	24.7	86.5	46	28.6	18.6	65.0	18.6	65.0
Stream widths greater than 0.6-ft depth											
11.2	24.8	10.3	41.3	5.3	21.3						
15	25.6	14.0	54.6	12.8	50.2						
18	26.0	16.6	63.8	14.1	54.1						
21	26.4	18.0	68.0	18.0	68.0						
24	26.8	18.6	69.3	18.6	69.3						
27	27.1	19.1	70.4	19.1	70.4						
30	27.4	19.8	72.0	19.8	72.0						
33	27.7	20.4	73.7	20.4	73.7						
36	28.0	21.0	75.1	21.0	75.1						
39	28.2	21.6	76.4	21.6	76.4						
42	28.4	21.9	77.0	21.9	77.0						
45	28.5	22.1	77.6	22.1	77.6						
46	28.6	22.2	77.8	22.2	77.8						



**Figure H5.** Percentages of contiguous and total stream width for passage transect 4, lower Morgan Creek (MC1), upper Salmon River Basin, Idaho, 2005.



**Table H4.** Passage criteria assessment for transect 4 (wide moderate slope), site MC1, lower Morgan Creek, upper Salmon River Basin, Idaho, 2005.[Site location shown in [figure 12](#). Abbreviations: ft, foot; ft<sup>3</sup>/s, cubic foot per second]

Discharge (ft <sup>3</sup> /s)	Stream width (ft)	Passage criteria assessment				Discharge (ft <sup>3</sup> /s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous			Total	Percentage	Contiguous	Percentage contiguous
Stream widths greater than 0.4-ft depth						Stream widths greater than 0.8-ft depth					
11.2	24.9	19.6	78.4	14.7	58.9	11.2	24.9	0.0	0.0	0.0	0.0
15	25.3	21.7	85.8	21.7	85.8	15	25.3	0.6	2.4	0.6	2.4
18	25.5	22.1	86.6	22.1	86.6	18	25.5	1.5	5.9	1.5	5.9
21	25.7	22.4	87.2	22.4	87.2	21	25.7	2.3	9.1	2.3	9.1
24	25.8	22.7	87.8	22.7	87.8	24	25.8	4.8	18.5	4.8	18.5
27	26.0	22.9	88.2	22.9	88.2	27	26.0	5.1	19.6	5.1	19.6
30	26.1	23.1	88.6	23.1	88.6	30	26.1	5.4	20.6	5.4	20.6
33	26.2	23.3	89.0	23.3	89.0	33	26.2	5.7	21.6	5.7	21.6
36	26.3	23.5	89.3	23.5	89.3	36	26.3	6.5	24.8	5.9	22.4
39	26.5	23.7	89.7	23.7	89.7	39	26.5	7.6	28.9	6.2	23.3
42	26.6	23.9	90.0	23.9	90.0	42	26.6	8.7	32.6	6.4	24.0
45	26.7	24.1	90.3	24.1	90.3	45	26.7	9.6	36.0	6.6	24.7
46	26.7	24.1	90.4	24.1	90.4	46	26.7	9.9	37.2	6.7	25.0
Stream widths greater than 0.6-ft depth											
11.2	24.9	5.4	21.6	5.4	21.6						
15	25.3	7.0	27.5	6.0	23.7						
18	25.5	8.8	34.7	6.4	25.2						
21	25.7	10.5	41.0	6.8	26.5						
24	25.8	16.2	62.9	13.5	52.1						
27	26.0	18.0	69.1	14.1	54.3						
30	26.1	19.6	74.9	14.7	56.2						
33	26.2	21.1	80.3	15.2	58.1						
36	26.3	21.7	82.2	21.7	82.2						
39	26.5	21.9	82.6	21.9	82.6						
42	26.6	22.1	83.0	22.1	83.0						
45	26.7	22.2	83.4	22.2	83.4						
46	26.7	22.3	83.5	22.3	83.5						