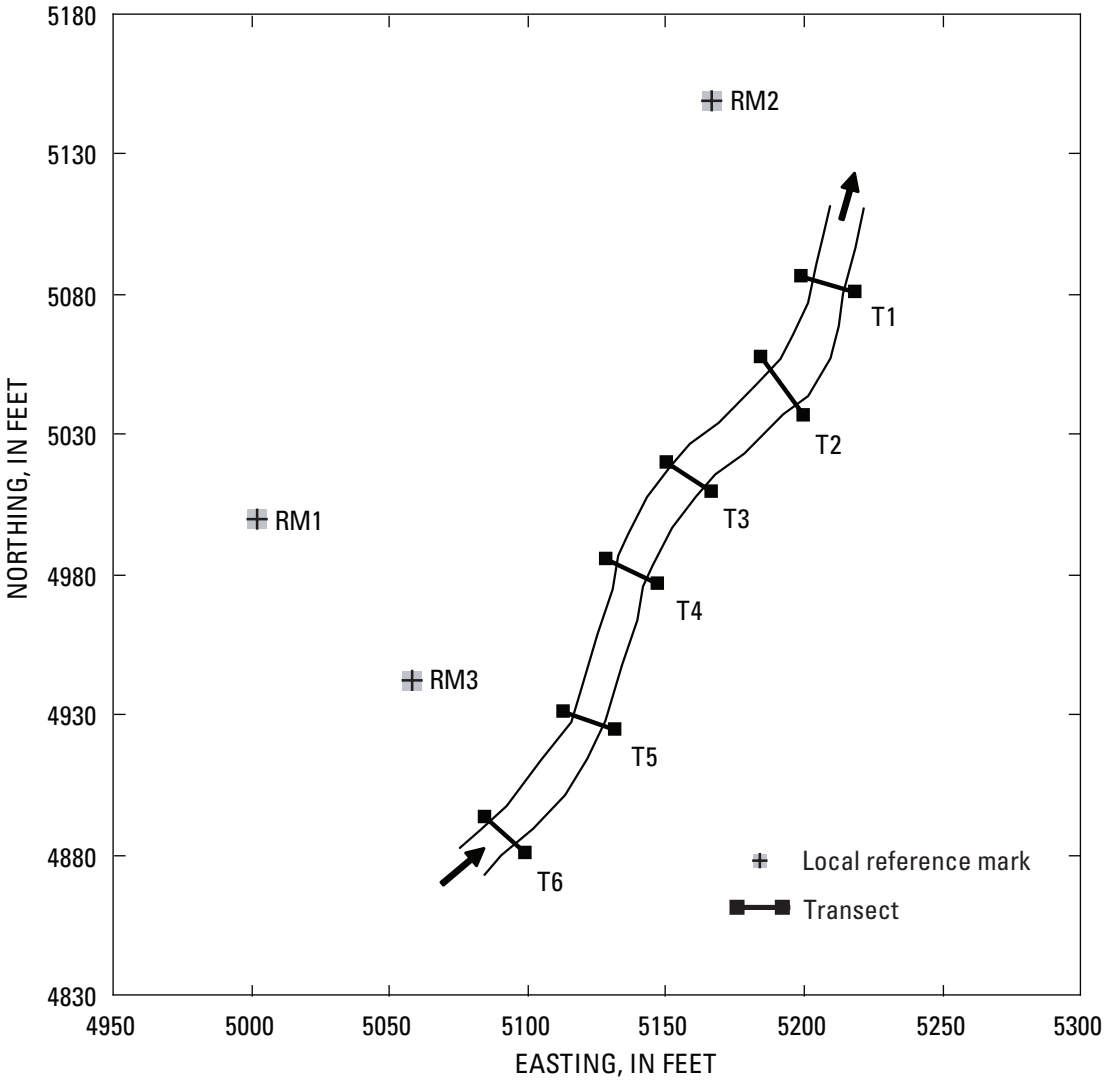
Appendix E. Plan view, weighted usable areas, and passage criteria assessments for bull trout, Chinook salmon, steelhead trout, and invertebrates for lower Mill Creek (ML1), upper Salmon River Basin, Idaho, 2005.



Transect Endpoint Coordinates (NAD 83)

Point	Latitude	Longitude
RH1	44° 33' 36.5" N	114° 16' 30.86" W
LH1	44° 33' 36.46" N	114° 16' 30.58" W
RH2	44° 33' 36.2" N	114° 16' 31.05" W
LH2	44° 33' 36.02" N	114° 16' 30.8" W
RH3	44° 33' 35.81" N	114° 16' 31.46" W
LH3	44° 33' 35.72" N	114° 16' 31.21" W

Transect Endpoint Coordinates (NAD 83)

Point	Latitude	Longitude
LH4	44° 33' 35.39" N	114° 16' 31.46" W
RH5	44° 33' 34.91" N	114° 16' 31.87" W
LH5	44° 33' 34.85" N	114° 16' 31.6" W
RH6	44° 33' 34.51" N	114° 16' 32.23" W
LH6	44° 33' 34.4" N	114° 16' 32.01" W

For reference only; stream schematic not to scale.

Figure E1. Plan view of upper lower Mill Creek (ML1), upper Salmon River Basin, Idaho, 2005.

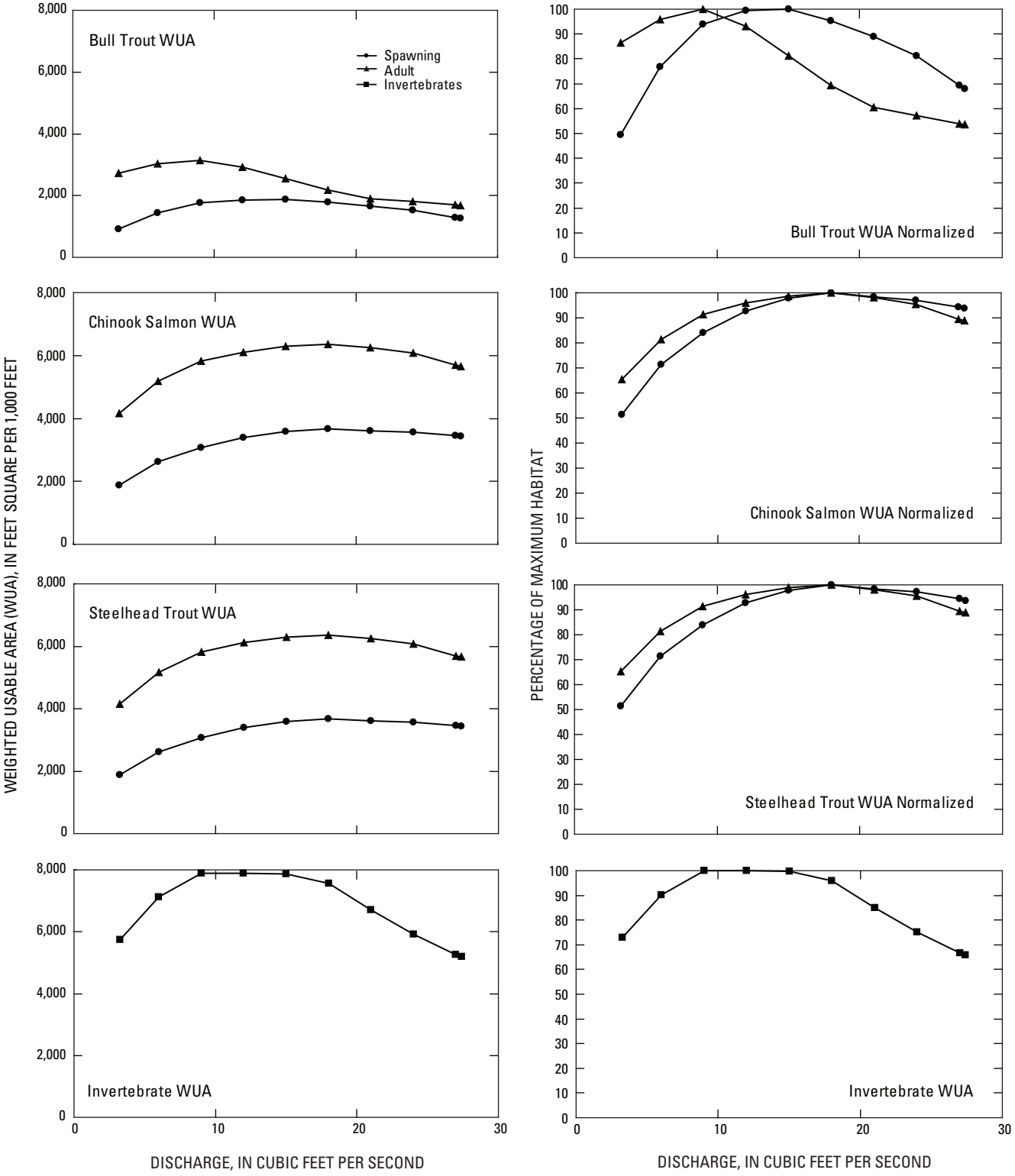


Figure E2. Weighted usable area and percentage of maximum habitat for bull trout, Chinook salmon, steelhead trout, and invertebrates, lower Mill Creek (ML1), upper Salmon River Basin, Idaho, 2005.

Table E1. Weighted usable area for bull trout, Chinook salmon, steelhead trout life stages, and Ephemeroptera, Plecoptera, and Trichoptera (EPT) invertebrates, site ML1, lower Mill Creek, upper Salmon River Basin, Idaho, 2005.

[Site location shown in figure 8. **Abbreviations**: WUA, weighted usable area; ft^3/s, cubic foot per second; ft^2, square foot; $ft^2/1{,}000$ ft, square foot per 1,000 feet]

Discharge (ft^3/s)	Total area (ft^2)	Summary of WUA (ft^2/1,000 ft)		Percentage of maximum habitat	
		Adult	Spawning	Adult	Spawning
Bull trout					
3.3	11,523	2,725	924	86.6	49.5
6	11,902	3,020	1,435	96.0	76.9
9	12,149	3,147	1,756	100.0	94.0
12	12,328	2,926	1,857	93.0	99.4
15	12,479	2,559	1,867	81.3	100.0
18	12,613	2,181	1,780	69.3	95.3
21	12,732	1,901	1,661	60.4	89.0
24	12,839	1,799	1,519	57.2	81.3
27	12,937	1,696	1,293	53.9	69.3
27.400	12,951	1,683	1,268	53.5	67.9
Chinook salmon					
3.3	11,523	4,159	1,886	65.4	51.4
6	11,902	5,178	2,617	81.4	71.4
9	12,149	5,814	3,079	91.4	83.9
12	12,328	6,110	3,402	96.0	92.8
15	12,479	6,284	3,589	98.8	97.9
18	12,613	6,362	3,667	100.0	100.0
21	12,732	6,247	3,606	98.2	98.3
24	12,839	6,077	3,562	95.5	97.1
27	12,937	5,692	3,459	89.5	94.3
27.400	12,951	5,657	3,437	88.9	93.7

Discharge (ft^3/s)	Total area (ft^2)	Summary of WUA (ft^2/1,000 ft)		Percentage of maximum habitat	
		Adult	Spawning	Adult	Spawning
Steelhead trout					
3.3	11,523	4,159	1,886	65.4	51.4
6	11,902	5,178	2,617	81.4	71.4
9	12,149	5,814	3,079	91.4	83.9
12	12,328	6,110	3,402	96.0	92.8
15	12,479	6,284	3,589	98.8	97.9
18	12,613	6,362	3,667	100.0	100.0
21	12,732	6,247	3,606	98.2	98.3
24	12,839	6,077	3,562	95.5	97.1
27	12,937	5,692	3,459	89.5	94.3
27.400	12,951	5,657	3,437	88.9	93.7

Discharge (ft^3/s)	Total area (ft^2)	Summary of WUA (ft^2/1,000 ft)	Percentage of maximum habitat
EPT Invertebrates			
3.25	11,523	5,753	72.9
6	11,902	7,123	90.3
9	12,149	7,890	100.0
12	12,328	7,883	99.9
15	12,479	7,865	99.7
18	12,613	7,565	95.9
21	12,732	6,706	85.0
24	12,839	5,927	75.1
27	12,937	5,266	66.7
27.400	12,951	5,198	65.9

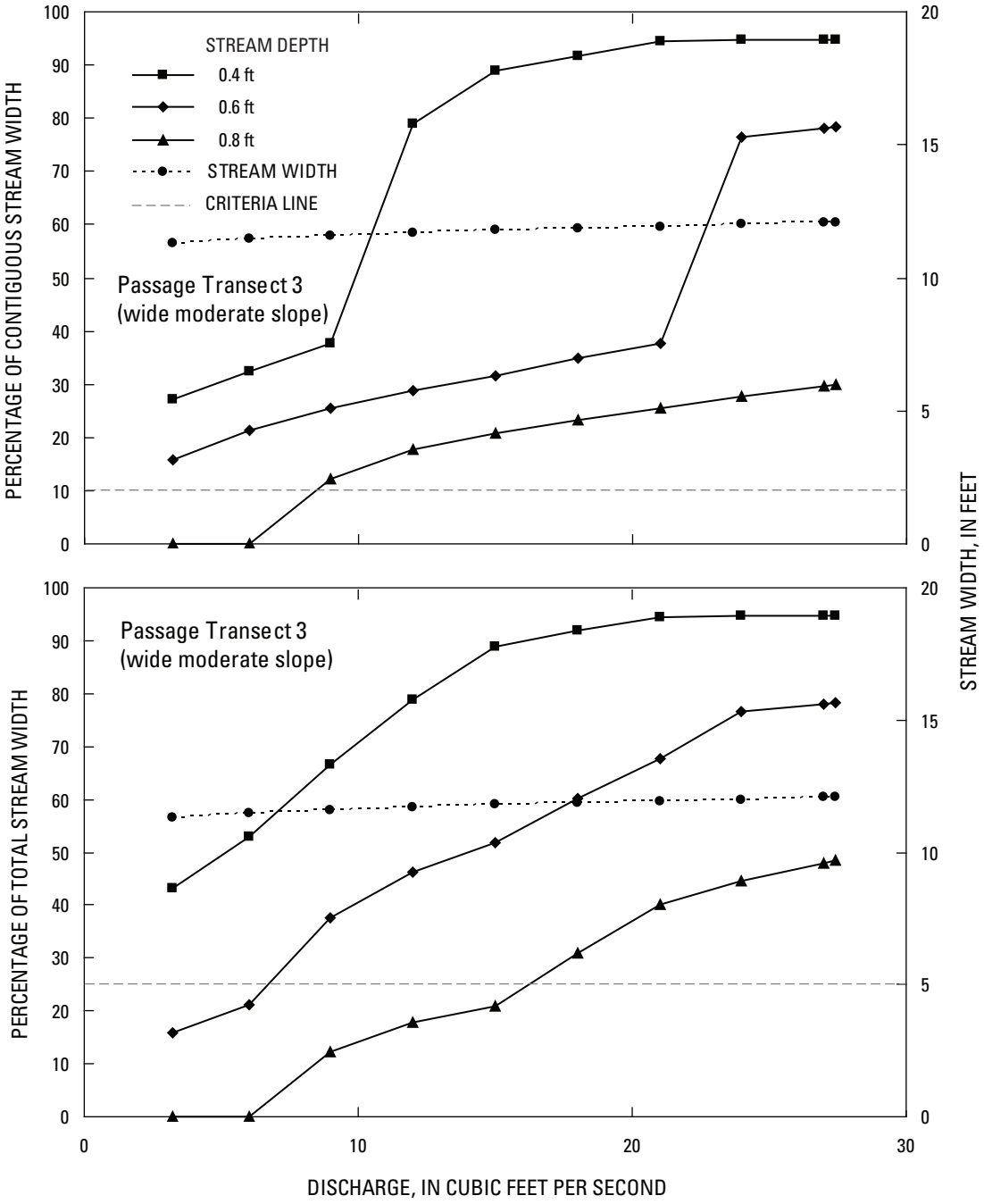


Figure E3. Percentages of contiguous and total stream width for passage transect 3, lower Mill Creek (ML1), upper Salmon River Basin, Idaho, 2005.

Table E2. Passage criteria assessment for transect 3 (wide moderate slope), site ML1, lower Mill Creek, upper Salmon River Basin, Idaho, 2005.

[Site location shown in figure 8. **Abbreviations**: ft, foot; ft^3/s, cubic foot per second]

Discharge (ft^3/s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous
		Stream widths greater than 0.4-ft depth			
3.3	11.3	4.9	43.2	3.1	27.2
6	11.5	6.1	52.9	3.7	32.4
9	11.6	7.7	66.6	4.4	37.7
12	11.7	9.2	78.9	9.2	78.9
15	11.8	10.5	88.8	10.5	88.8
18	11.9	10.9	91.8	10.9	91.8
21	11.9	11.3	94.5	11.3	94.5
24	12.0	11.4	94.8	11.4	94.8
27	12.1	11.4	94.8	11.4	94.8
27	12.1	11.4	94.8	11.4	94.8
		Stream widths greater than 0.6-ft depth			
3.3	11.3	1.8	15.9	1.8	15.9
6	11.5	2.4	21.2	2.4	21.2
9	11.6	4.4	37.7	3.0	25.4
12	11.7	5.4	46.3	3.4	28.8
15	11.8	6.1	51.7	3.7	31.6
18	11.9	7.1	60.0	4.1	34.9
21	11.9	8.1	67.6	4.5	37.8
24	12.0	9.2	76.6	9.2	76.6
27	12.1	9.4	78.1	9.4	78.1
27	12.1	9.4	78.3	9.4	78.3

Discharge (ft^3/s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous
		Stream widths greater than 0.8-ft depth			
3.3	11.3	0.0	0.0	0.0	0.0
6	11.5	0.0	0.0	0.0	0.0
9	11.6	1.4	12.3	1.4	12.3
12	11.7	2.1	17.8	2.1	17.8
15	11.8	2.5	20.9	2.4	20.7
18	11.9	3.7	30.9	2.8	23.3
21	11.9	4.8	40.0	3.1	25.6
24	12.0	5.3	44.4	3.3	27.7
27	12.1	5.8	48.0	3.6	29.6
27	12.1	5.8	48.4	3.6	29.8

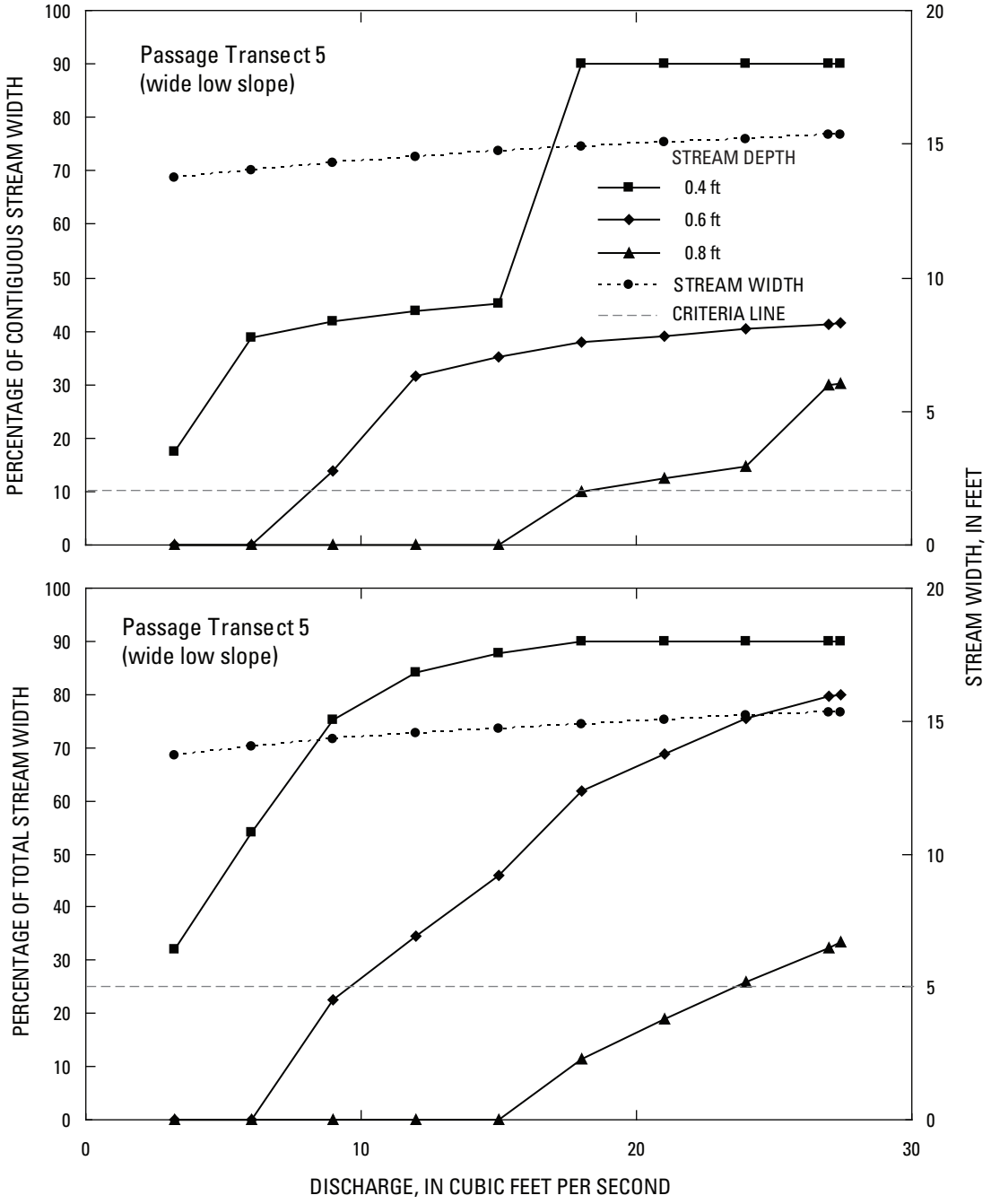


Figure E4. Percentages of contiguous and total stream width for passage transect 5, lower Mill Creek (ML1), upper Salmon River Basin, Idaho, 2005.

Table E3. Passage criteria assessment for transect 5 (wide low slope), site ML1 lower Mill Creek, upper Salmon River Basin, Idaho, 2005.

[Site location shown in figure 8. **Abbreviations**: ft, foot; ft^3/s, cubic foot per second]

Discharge (ft^3/s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous
		Stream widths greater than 0.4-ft depth			
3.3	13.7	4.4	32.0	2.4	17.4
6	14.0	7.6	54.1	5.5	38.9
9	14.3	10.8	75.2	6.0	41.8
12	14.5	12.2	84.1	6.3	43.7
15	14.7	12.9	87.7	6.7	45.2
18	14.9	13.4	90.0	13.4	90.0
21	15.1	13.5	90.0	13.5	90.0
24	15.2	13.7	90.0	13.7	90.0
27	15.3	13.8	90.0	13.8	90.0
27	15.3	13.8	90.0	13.8	90.0
		Stream widths greater than 0.6-ft depth			
3.3	13.7	0.0	0.0	0.0	0.0
6	14.0	0.0	0.0	0.0	0.0
9	14.3	3.2	22.4	2.0	14.0
12	14.5	5.0	34.6	4.6	31.7
15	14.7	6.8	46.1	5.2	35.2
18	14.9	9.2	61.7	5.7	38.0
21	15.1	10.4	68.9	5.9	39.2
24	15.2	11.5	75.6	6.1	40.4
27	15.3	12.2	79.7	6.3	41.4
27	15.3	12.3	80.0	6.4	41.5

Discharge (ft^3/s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous
		Stream widths greater than 0.8-ft depth			
3.3	13.7	0.0	0.0	0.0	0.0
6	14.0	0.0	0.0	0.0	0.0
9	14.3	0.0	0.0	0.0	0.0
12	14.5	0.0	0.0	0.0	0.0
15	14.7	0.0	0.0	0.0	0.0
18	14.9	1.7	11.4	1.5	10.1
21	15.1	2.8	18.8	1.9	12.5
24	15.2	3.9	25.8	2.2	14.7
27	15.3	5.0	32.4	4.6	29.9
27	15.3	5.1	33.3	4.6	30.2

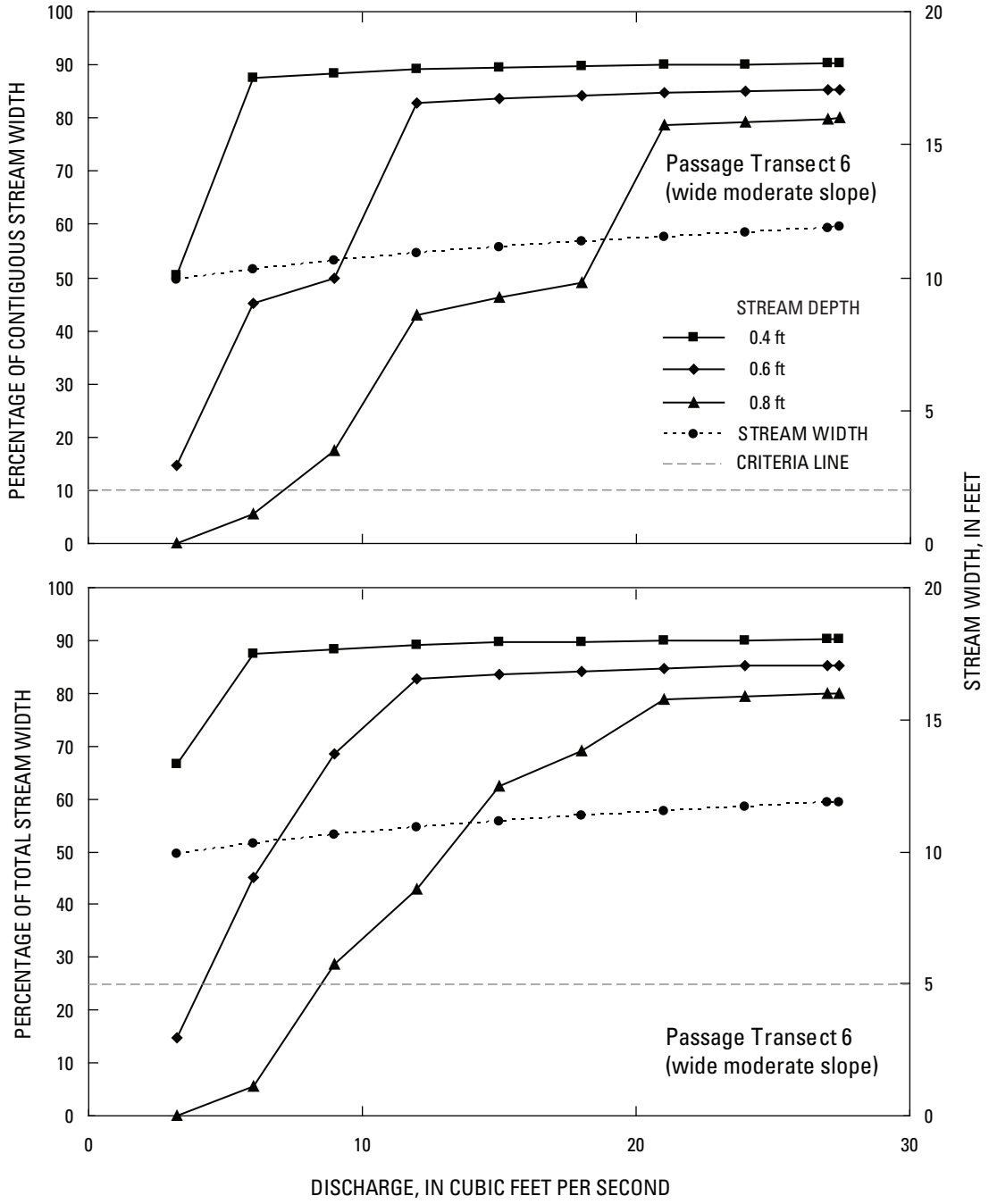


Figure E5. Percentages of contiguous and total stream width for passage transect 6, lower Mill Creek (ML1), upper Salmon River Basin, Idaho, 2005.

Table E4. Passage criteria assessment for transect 6 (wide moderate slope), site ML1 lower Mill Creek, upper Salmon River Basin, Idaho, 2005.

[Site location shown in figure 8. **Abbreviations**: ft, foot; ft^3/s, cubic foot per second]

Discharge (ft^3/s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous
		Stream widths greater than 0.4-ft depth			
3.3	9.9	6.6	66.7	5.0	50.5
6	10.3	9.0	87.4	9.0	87.4
9	10.6	9.4	88.4	9.4	88.4
12	10.9	9.7	89.1	9.7	89.1
15	11.2	10.0	89.6	10.0	89.6
18	11.4	10.2	89.8	10.2	89.8
21	11.5	10.4	89.9	10.4	89.9
24	11.7	10.5	90.1	10.5	90.1
27	11.9	10.7	90.2	10.7	90.2
27	11.9	10.7	90.2	10.7	90.2
		Stream widths greater than 0.6-ft depth			
3.3	9.9	1.5	14.7	1.5	14.6
6	10.3	4.7	45.2	4.7	45.2
9	10.6	7.3	68.4	5.3	49.9
12	10.9	9.0	82.8	9.0	82.8
15	11.2	9.3	83.6	9.3	83.6
18	11.4	9.6	84.2	9.6	84.2
21	11.5	9.8	84.7	9.8	84.7
24	11.7	10.0	85.1	10.0	85.1
27	11.9	10.1	85.3	10.1	85.3
27	11.9	10.1	85.3	10.1	85.3

Discharge (ft^3/s)	Stream width (ft)	Passage criteria assessment			
		Total	Percentage	Contiguous	Percentage contiguous
		Stream widths greater than 0.8-ft depth			
3.3	9.9	0.0	0.0	0.0	0.0
6	10.3	.6	5.6	.6	5.6
9	10.6	3.0	28.6	1.9	17.5
12	10.9	4.7	43.0	4.7	43.0
15	11.2	6.9	62.3	5.2	46.3
18	11.4	7.8	69.0	5.6	49.0
21	11.5	9.1	78.8	9.1	78.8
24	11.7	9.3	79.3	9.3	79.3
27	11.9	9.5	79.9	9.5	79.9
27	11.9	9.5	79.9	9.5	79.9