

Appendix 3D. Transect-scale stream-habitat data for Bull Creek at Ash Hill, North Carolina, 2004-2006. [% , percent; m³/s, cubic meter per second;<. less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in Appendix 3A]

August 26, 2004								
Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left Edge of Water	False	--	--	--	--	No obs.
1	2	In Stream	False	0.21	0.140	Sand (>0.063-2 mm)	--	True
1	3	In Stream	False	0.37	0.458	Sand (>0.063-2 mm)	--	True
1	4	In Stream	True	0.53	0.098	Sand (>0.063-2 mm)	--	True
1	5	Right Edge of Water	False	--	--	--	--	No obs.
2	1	Left Edge of Water	False	--	--	--	--	No obs.
2	2	In Stream	False	0.06	1.05	Very coarse, large cobble (>128-256 mm)	10	True
2	3	In Stream	True	0.15	2.07	Small boulder (>256-512 mm)	20	True
2	4	In Stream	False	0.06	0.553	Small boulder (>256-512 mm)	10	True
2	5	Right Edge of Water	False	--	--	--	--	No obs.
3	1	Left Edge of Water	False	--	--	--	--	No obs.
3	2	In Stream	False	0.11	0.784	Sand (>0.063-2 mm)	--	True
3	3	In Stream	False	0.06	0.815	Sand (>0.063-2 mm)	--	True
3	4	In Stream	True	0.15	0.565	Sand (>0.063-2 mm)	--	True
3	5	Right Edge of Water	False	--	--	--	--	No obs.
4	1	Left Edge of Water	False	--	--	--	--	No obs.
4	2	In Stream	False	0.27	0.089	Sand (>0.063-2 mm)	--	True
4	3	In Stream	False	0.30	0.314	Very coarse, large cobble (>128-256 mm)	30	True
4	4	In Stream	True	0.30	0.223	Very coarse gravel (>32-64 mm)	--	True
4	5	Right Edge of Water	False	--	--	--	--	No obs.
5	1	Left Edge of Water	False	--	--	--	--	No obs.
5	2	In Stream	False	0.12	0.489	Sand (>0.063-2 mm)	--	True
5	3	In Stream	False	0.12	0.468	Sand (>0.063-2 mm)	--	True
5	4	In Stream	False	0.12	0.143	Very coarse, large cobble (>128-256 mm)	40	True
5	5	Right Edge of Water	False	--	--	--	--	No obs.
6	1	Left Edge of Water	False	--	--	--	--	No obs.
6	2	In Stream	False	0.21	0.240	Sand (>0.063-2 mm)	--	True
6	3	In Stream	False	0.21	0.344	Sand (>0.063-2 mm)	--	True
6	4	In Stream	True	0.26	0.383	Sand (>0.063-2 mm)	--	True
6	5	Right Edge of Water	False	--	--	--	--	No obs.
7	1	Left Edge of Water	False	--	--	--	--	No obs.
7	2	In Stream	False	0.07	1.34	Small cobble (>64-128 mm)	--	True
7	3	In Stream	False	0.11	1.31	Fine/medium gravel (>2-16 mm)	--	True
7	4	In Stream	True	0.12	0.553	Sand (>0.063-2 mm)	--	True
7	5	Right Edge of Water	False	--	--	--	--	No obs.
8	1	Left Edge of Water	False	--	--	--	--	No obs.
8	2	In Stream	False	0.06	0.849	Sand (>0.063-2 mm)	--	True
8	3	In Stream	False	0.09	0.458	Fine/medium gravel (>2-16 mm)	--	True
8	4	In Stream	False	0.09	2.12	Very coarse gravel (>32-64 mm)	10	True
8	5	Right Edge of Water	False	--	--	--	--	No obs.
9	1	Left Edge of Water	False	--	--	--	--	No obs.
9	2	In Stream	False	0.12	0.658	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	50	True
9	3	In Stream	True	0.27	0.249	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	50	True
9	4	In Stream	False	0.15	0.288	Fine/medium gravel (>2-16 mm)	--	True
9	5	Right Edge of Water	False	--	--	--	--	No obs.
10	1	Left Edge of Water	False	--	--	--	--	No obs.
10	2	In Stream	False	0.06	1.15	Very coarse, large cobble (>128-256 mm)	10	True
10	3	In Stream	False	0.09	1.10	Very coarse, large cobble (>128-256 mm)	10	True
10	4	In Stream	False	0.09	1.40	Very coarse, large cobble (>128-256 mm)	30	True
10	5	Right Edge of Water	False	--	--	--	--	No obs.
11	1	Left Edge of Water	False	--	--	--	--	No obs.
11	2	In Stream	False	0.12	.885	Very coarse, large cobble (>128-256 mm)	10	True
11	3	In Stream	False	0.12	0.59	Very coarse, large cobble (>128-256 mm)	10	True
11	4	In Stream	False	0.09	0.303	Coarse gravel (>16-32 mm)	--	True
11	5	Right Edge of Water	False	--	--	--	--	No obs.

Appendix 3D. Transect-scale stream-habitat data for Bull Creek at Ash Hill, North Carolina, 2004-2006. [% , percent; m3/s, cubic meter per second;<. less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in Appendix 3A]--continued

August 26, 2004									
Transect number	Point on transect	Presence of habitat cover							
		Natural woody debris	Overhanging vegetation (terrestrial)	Undercut banks	Boulders	Aquatic macrophytes (emergent, submergent, and floating)	Manmade structure	Too turbid to determine	None
1	1	False	False	False	False	False	False	False	True
1	2	False	False	False	False	False	False	False	True
1	3	False	True	False	False	False	False	False	False
1	4	False	True	False	False	False	False	False	False
1	5	False	True	False	False	False	False	False	False
2	1	False	True	False	False	False	False	False	False
2	2	False	False	False	True	False	False	False	False
2	3	False	False	False	True	False	False	False	False
2	4	False	False	False	True	False	False	False	False
2	5	False	False	False	True	False	False	False	False
3	1	False	False	False	True	False	False	False	False
3	2	False	False	False	False	False	False	False	True
3	3	True	False	False	False	False	False	False	False
3	4	False	False	False	False	False	False	False	True
3	5	False	False	False	False	False	False	False	True
4	1	True	True	True	False	False	False	False	False
4	2	True	False	False	False	False	False	False	False
4	3	True	False	False	False	False	False	False	False
4	4	False	False	False	False	False	False	False	True
4	5	False	False	False	False	False	False	False	True
5	1	False	False	False	False	False	False	False	True
5	2	True	False	False	False	False	False	False	False
5	3	False	False	False	False	False	False	False	True
5	4	True	False	False	False	False	False	False	False
5	5	True	False	False	False	False	False	False	False
6	1	False	False	False	False	False	False	False	True
6	2	False	False	False	False	False	False	False	True
6	3	False	False	False	False	False	False	False	True
6	4	False	False	False	False	False	False	False	True
6	5	True	True	True	False	False	False	False	False
7	1	False	False	False	False	False	False	False	True
7	2	False	False	False	False	False	False	False	True
7	3	False	False	False	False	False	False	False	True
7	4	False	False	False	False	False	False	False	True
7	5	False	False	False	False	False	False	False	True
8	1	False	False	False	False	False	False	False	True
8	2	False	False	False	False	False	False	False	True
8	3	False	False	False	False	False	False	False	True
8	4	False	False	False	False	False	False	False	True
8	5	True	False	False	False	False	False	False	False
9	1	False	False	False	False	False	False	False	True
9	2	False	True	False	False	False	False	False	False
9	3	False	True	False	False	False	False	False	False
9	4	False	True	False	False	False	False	False	False
9	5	False	False	False	False	False	False	False	True
10	1	False	False	False	True	False	False	False	False
10	2	False	False	False	True	False	False	False	False
10	3	False	False	False	True	False	False	False	False
10	4	False	False	False	True	False	False	False	False
10	5	False	False	False	True	False	False	False	False
11	1	False	False	False	False	False	False	False	True
11	2	False	False	False	True	False	False	False	False
11	3	False	False	False	True	False	False	False	False
11	4	False	False	False	True	False	False	False	False
11	5	False	False	False	True	False	False	False	False

Appendix 3D. Transect-scale stream-habitat data for Bull Creek at Ash Hill, North Carolina, 2004-2006. [% , percent; m³/s, cubic meter per second; <, less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in Appendix 3A]

August 19, 2005								
Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Substrate characteristics		
						Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left Edge of Water	False	--	--	Coarse gravel (>16-32 mm)	60	True
1	2	In Stream	False	0.16	0.859	Fine/medium gravel (>2-16 mm)	40	True
1	3	In Stream	False	0.14	1.09	Coarse gravel (>16-32 mm)	50	True
1	4	In Stream	True	0.21	0.139	Coarse gravel (>16-32 mm)	50	True
1	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
2	1	Left Edge of Water	False	--	--	Very coarse, large cobble (>128-256 mm)	50	True
2	2	In Stream	True	0.09	2.79	Very coarse, large cobble (>128-256 mm)	50	True
2	3	In Stream	False	0.05	0.614	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
2	4	In Stream	False	0.08	2.69	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
2	5	Right Edge of Water	False	--	--	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	--	True
3	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
3	2	In Stream	True	0.51	0.196	Fine/medium gravel (>2-16 mm)	50	True
3	3	In Stream	False	0.39	0.15	Fine/medium gravel (>2-16 mm)	50	True
3	4	In Stream	False	0.09	0.124	Fine/medium gravel (>2-16 mm)	50	True
3	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
4	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
4	2	In Stream	True	0.17	1.73	Small cobble (>64-128 mm)	50	True
4	3	In Stream	False	0.09	1.16	Very coarse gravel (>32-64 mm)	40	True
4	4	In Stream	False	0.06	2.47	Very coarse gravel (>32-64 mm)	50	True
4	5	Right Edge of Water	False	--	--	Fine/medium gravel (>2-16 mm)	60	True
5	1	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
5	2	In Stream	False	0.14	0.462	Sand (>0.063-2 mm)	--	True
5	3	In Stream	False	0.13	0.516	Sand (>0.063-2 mm)	--	True
5	4	In Stream	True	0.21	0.305	Very coarse gravel (>32-64 mm)	50	True
5	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
6	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
6	2	In Stream	False	0.11	0.571	Very coarse large cobble (>128-256 mm)	30	True
6	3	In Stream	True	0.21	0.516	Fine/medium gravel (>2-16 mm)	40	True
6	4	In Stream	False	0.13	0.216	Coarse gravel (>16-32 mm)	20	True
6	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
7	1	Left Edge of Water	False	--	--	Very coarse, large cobble (>128-256 mm)	50	True
7	2	In Stream	False	0.06	0.878	Very coarse, large cobble (>128-256 mm)	40	True
7	3	In Stream	False	0.15	0.981	Very coarse, large cobble (>128-256 mm)	40	True
7	4	In Stream	True	0.17	0.694	Very coarse gravel (>32-64 mm)	40	True
7	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
8	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
8	2	In Stream	False	0.06	0.493	Coarse gravel (>16-32 mm)	30	True
8	3	In Stream	False	0.07	1	Small boulder (>256-512 mm)	30	True
8	4	In Stream	True	0.09	0.81	Sand (>0.063-2 mm)	--	True
8	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
9	1	Left Edge of Water	False	--	--	Very coarse large cobble (>128-256 mm)	50	True
9	2	In Stream	False	0.04	0.159	Small cobble (>64-128 mm)	50	True
9	3	In Stream	True	0.12	1.09	Very coarse, large cobble (>128-256 mm)	50	True
9	4	In Stream	False	0.11	0.694	Very coarse gravel (>32-64 mm)	40	True
9	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
10	1	Left Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True
10	2	In Stream	False	0.02	.305	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	50	True
10	3	In Stream	True	0.13	0.842	Very coarse, large cobble (>128-256 mm)	40	True
10	4	In Stream	False	0.06	1.42	Very coarse, large cobble (>128-256 mm)	50	True
10	5	Right Edge of Water	False	--	--	Very coarse, large cobble (>128-256 mm)	50	True
11	1	Left Edge of Water	False	--	--	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	60	True
11	2	In Stream	False	0.10	0.859	Very coarse gravel (>32-64 mm)	40	True
11	3	In Stream	True	0.12	0.878	Very coarse, large cobble (>128-256 mm)	20	True
11	4	In Stream	False	0.06	0.453	Small cobble (>64-128 mm)	40	True
11	5	Right Edge of Water	False	--	--	Sand (>0.063-2 mm)	--	True

Appendix 3D. Transect-scale stream-habitat data for Bull Creek at Ash Hill, North Carolina, 2004-2006. [% , percent; m³/s, cubic meter per second; <, less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in Appendix 3A]--continued

August 19, 2005									
Presence of habitat cover									
Transect number	Point on transect	Natural woody debris	Overhanging vegetation (terrestrial)	Undercut banks	Aquatic macrophytes		Manmade structure	Too turbid to determine	None
					(emergent, submergent,	Boulders			
1	1	False	True	False	False	False	False	False	False
1	2	False	True	False	False	False	False	False	False
1	3	False	True	False	False	False	False	False	False
1	4	False	True	False	False	False	False	False	False
1	5	False	False	False	False	False	False	False	True
2	1	False	False	False	False	False	False	False	True
2	2	False	False	False	True	False	False	False	False
2	3	False	True	False	True	False	False	False	False
2	4	False	True	False	True	False	False	False	False
2	5	False	True	False	True	False	False	False	False
3	1	True	False	False	False	False	False	False	False
3	2	True	False	False	False	False	False	False	False
3	3	True	False	False	False	False	False	False	False
3	4	True	False	False	False	False	False	False	False
3	5	True	False	False	False	False	False	False	False
4	1	True	False	False	False	False	False	False	False
4	2	True	False	False	False	False	False	False	False
4	3	False	False	False	False	False	False	False	True
4	4	False	False	False	False	False	False	False	True
4	5	False	False	False	False	False	False	False	True
5	1	True	False	False	False	False	False	False	False
5	2	True	False	False	False	False	False	False	False
5	3	False	False	False	False	False	False	False	True
5	4	False	False	False	False	False	False	False	True
5	5	True	False	True	False	False	False	False	False
6	1	False	True	False	False	False	False	False	False
6	2	False	True	False	False	False	False	False	False
6	3	False	False	False	False	False	False	False	True
6	4	False	False	False	False	False	False	False	True
6	5	False	False	False	False	False	False	False	True
7	1	False	False	False	False	False	False	False	True
7	2	False	False	False	False	False	False	False	True
7	3	False	False	False	False	False	False	False	True
7	4	True	False	False	False	False	False	False	False
7	5	True	False	False	False	False	False	False	False
8	1	False	True	False	False	False	False	False	False
8	2	False	False	False	False	False	False	False	True
8	3	False	False	False	True	False	False	False	False
8	4	False	False	False	False	False	False	False	True
8	5	False	True	False	False	False	False	False	False
9	1	True	True	False	False	False	False	False	False
9	2	True	False	False	False	False	False	False	False
9	3	True	False	False	False	False	False	False	False
9	4	False	False	False	False	False	False	False	True
9	5	False	False	False	False	False	False	False	True
10	1	False	False	False	False	False	False	False	True
10	2	False	False	False	False	False	False	False	True
10	3	False	False	False	True	False	False	False	False
10	4	True	False	False	False	False	False	False	False
10	5	False	False	False	False	False	False	False	True
11	1	False	True	False	True	False	False	False	False
11	2	False	False	False	False	False	False	False	True
11	3	False	False	False	False	False	False	False	True
11	4	False	False	False	False	False	False	False	True
11	5	True	False	False	False	False	False	False	False

Appendix 3D. Transect-scale stream-habitat data for Bull Creek at Ash Hill, North Carolina, 2004-2006. [% , percent; m³/s, cubic meter per second; <, less than; >, greater than; --, not determined; mm, millimeter; algorithms used in this appendix are defined in Appendix 3A]--continued

August 22, 2006								
							Substrate characteristics	
Transect number	Point on transect	Position on transect	Thalweg	Depth (meter)	Velocity (m ³ /s)	Streambed substrate	Embedded substrate (%)	Presence of silt
1	1	Left Edge of Water	False	--	--	--	--	No obs.
1	2	In Stream	True	0.13	1.14	Sand (>0.063-2 mm)	--	True
1	3	In Stream	False	0.09	.385	Sand (>0.063-2 mm)	--	True
1	4	In Stream	False	0.09	.958	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	40	True
1	5	Right Edge of Water	False	--	--	--	--	No obs.
2	1	Left Edge of Water	False	--	--	--	--	No obs.
2	2	In Stream	False	0.27	.126	Small cobble (>64-128 mm)	50	True
2	3	In Stream	True	0.33	.205	Very coarse, large cobble (>128-256 mm)	50	True
2	4	In Stream	False	0.15	.079	Small cobble (>64-128 mm)	40	True
2	5	Right Edge of Water	False	--	--	--	--	No obs.
3	1	Left Edge of Water	False	--	--	--	--	No obs.
3	2	In Stream	True	0.30	.285	Very coarse, large cobble (>128-256 mm)	60	True
3	3	In Stream	False	0.25	.144	Very coarse, large cobble (>128-256 mm)	60	True
3	4	In Stream	False	0.18	.444	Small cobble (>64-128 mm)	60	True
3	5	Right Edge of Water	False	--	--	--	--	No obs.
4	1	Left Edge of Water	False	--	--	--	--	No obs.
4	2	In Stream	True	0.09	1.36	Very coarse, large cobble (>128-256 mm)	50	True
4	3	In Stream	False	0.08	.916	Sand (>0.063-2 mm)	--	True
4	4	In Stream	False	0.08	.743	Very coarse, large cobble (>128-256 mm)	50	True
4	5	Right Edge of Water	False	--	--	--	--	No obs.
5	1	Left Edge of Water	False	--	--	--	--	No obs.
5	2	In Stream	True	0.44	.157	Sand (>0.063-2 mm)	--	True
5	3	In Stream	False	0.35	.075	Sand (>0.063-2 mm)	--	True
5	4	In Stream	False	0.27	.030	Sand (>0.063-2 mm)	--	True
5	5	Right Edge of Water	False	--	--	--	--	True
6	1	Left Edge of Water	False	--	--	--	--	No obs.
6	2	In Stream	True	0.15	0.31	Sand (>0.063-2 mm)	--	True
6	3	In Stream	False	0.13	.361	Sand (>0.063-2 mm)	--	True
6	4	In Stream	False	0.14	.168	Small cobble (>64-128 mm)	40	True
6	5	Right Edge of Water	False	--	--	--	--	No obs.
7	1	Left Edge of Water	False	--	--	--	--	No obs.
7	2	In Stream	True	0.18	.516	Very coarse, large cobble (>128-256 mm)	50	True
7	3	In Stream	False	0.09	.493	Small cobble (>64-128 mm)	50	True
7	4	In Stream	False	0.08	.385	Very coarse, large cobble (>128-256 mm)	40	True
7	5	Right Edge of Water	False	--	--	--	--	No obs.
8	1	Left Edge of Water	False	--	--	--	--	No obs.
8	2	In Stream	True	0.19	.250	Very coarse, large cobble (>128-256 mm)	40	True
8	3	In Stream	False	0.14	.191	Very coarse, large cobble (>128-256 mm)	50	True
8	4	In Stream	False	0.09	0.285	Sand (>0.063-2 mm)	--	True
8	5	Right Edge of Water	False	--	--	--	--	No obs.
9	1	Right Edge of Water	False	--	--	--	--	No obs.
9	2	In Stream	True	0.11	1.09	Small boulder (>256-512 mm)	40	True
9	3	In Stream	False	0.09	.958	Small boulder (>256-512 mm)	40	True
9	4	In Stream	False	0.07	0.694	Small boulder (>256-512 mm)	60	True
9	5	Right Edge of Water	False	--	--	--	--	No obs.
10	1	Left Edge of Water	False	--	--	--	--	No obs.
10	2	In Stream	True	0.11	.937	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	50	True
10	3	In Stream	False	0.04	.878	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	40	True
10	4	In Stream	False	0.09	1.16	Large boulder, irregular bedrock, irregular hardpan (>512 mm)	40	True
10	5	Right Edge of Water	False	--	--	--	--	No obs.
11	1	Right Edge of Water	False	--	--	--	--	No obs.
11	2	In Stream	True	0.16	.361	Very coarse, large cobble (>128-256 mm)	40	True
11	3	In Stream	False	0.11	.435	--	--	True
11	4	In Stream	False	0.07	.278	--	--	True
11	5	Right Edge of Water	False	--	--	--	--	True

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August 22, 2006									
Presence of habitat cover									
Transect number	Point on transect	Natural woody debris	Overhanging vegetation (terrestrial)	Undercut banks	Aquatic macrophytes (emergent, submergent, and floating)		Manmade structure	Too turbid to determine	None
					Boulders				
1	1	False	True	False	False	False	False	False	False
1	2	False	False	False	False	False	False	False	True
1	3	False	False	False	True	False	False	False	False
1	4	False	False	False	True	False	False	False	False
1	5	False	False	True	True	False	False	False	False
2	1	False	False	False	False	False	False	False	True
2	2	False	False	False	False	False	False	False	True
2	3	False	False	False	False	False	False	False	True
2	4	False	False	False	False	False	False	False	True
2	5	True	True	True	False	False	False	False	False
3	1	False	True	False	False	False	False	False	False
3	2	False	False	False	False	False	False	False	True
3	3	False	False	False	False	False	False	False	True
3	4	False	False	False	False	False	False	False	True
3	5	False	False	False	False	False	False	False	True
4	1	False	True	False	False	False	False	False	False
4	2	False	False	False	False	False	False	False	True
4	3	False	False	False	False	False	False	False	True
4	4	False	False	False	False	False	False	False	True
4	5	False	False	True	False	False	False	False	False
5	1	False	False	False	False	False	False	False	True
5	2	False	False	False	False	False	False	False	True
5	3	False	False	False	False	False	False	False	True
5	4	False	False	False	False	False	False	False	True
5	5	False	True	False	False	False	False	False	False
6	1	True	False	False	False	False	False	False	False
6	2	False	False	False	False	False	False	False	True
6	3	False	False	False	False	False	False	False	True
6	4	False	False	False	False	False	False	False	True
6	5	False	False	False	True	False	False	False	False
7	1	False	False	False	False	False	False	False	True
7	2	False	False	False	False	False	False	False	True
7	3	False	False	False	False	False	False	False	True
7	4	False	False	False	False	False	False	False	True
7	5	False	False	False	False	False	False	False	True
8	1	False	True	True	False	False	False	False	False
8	2	False	True	False	False	False	False	False	False
8	3	False	True	False	True	False	False	False	False
8	4	False	False	False	False	False	False	False	True
8	5	False	False	False	False	False	False	False	True
9	1	True	False	False	True	False	False	False	False
9	2	False	False	False	True	False	False	False	False
9	3	False	False	False	True	False	False	False	False
9	4	False	False	False	True	False	False	False	False
9	5	False	False	False	True	False	False	False	False
10	1	False	False	False	True	False	False	False	False
10	2	False	False	False	True	False	False	False	False
10	3	False	False	False	True	False	False	False	False
10	4	False	False	False	True	False	False	False	False
10	5	False	False	False	True	False	False	False	False
11	1	False	False	False	True	False	False	False	False
11	2	False	False	False	True	False	False	False	False
11	3	False	False	False	True	False	False	False	False
11	4	False	False	False	True	False	False	False	False
11	5	False	False	False	True	False	False	False	False