

**Appendix 1.** Soil descriptions, parent materials, and productivity data for the Waynesville watershed.

Soil Map Unit	Series Name	Description	Parent Material	Site Index						
				Northern Red Oak	Red Spruce	Eastern White pine	Chestnut Oak	Yellow Poplar	Scarlet Oak	Black Cherry
BuD	Burton	Moderately deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	40	--	--	--	--	--	--
BuD	Craggey	Shallow, somewhat excessively drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	40	--	--	--	--	--	--
CtE	Cullasaja	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	--	--	--	--	109	--	--
CxA	Cullowhee	Somewhat poorly drained, moderately rapidly permeable on flood plains	Formed in recent alluvium, loamy in the upper part and is moderately deep to sandy	--	--	100	--	103	--	--
CxA	Nikwasi	Poorly to very poorly drained, moderately rapidly permeable on flood plains	Formed in recent alluvium of loamy material that is moderately deep to sandy	--	--	86	--	88	--	--
DeA	Dellwood	Moderately well drained, rapidly permeable	Formed in dominantly coarse textured alluvium	--	--	91	--	100	--	--

Soil Map Unit	Series Name	Description	Parent Material	Site Index						
				Northern Red Oak	Red Spruce	Eastern White pine	Chestnut Oak	Yellow Poplar	Scarlet Oak	Black Cherry
EdC	Edneyville	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	80	--	90	--	98	73	--
EdC	Chestnut	Moderately deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	76	--	78	69	97	68	--
EdD	Edneyville	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	80	--	90	--	98	--	--
EdD	Chestnut	Moderately deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	76	--	78	69	97	68	--
EdE EdF	Edneyville	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	80	--	90	--	98	--	--
EdE EdF	Chestnut	Moderately deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	76	--	78	69	97	68	--
EvD	Evard	Very deep, well drained, moderately permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	--	--	93	77	95	--	--

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EvD	Cowee	Moderately deep, well drained, moderately permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	--	--	78	55	80	54	--
EvE EwF	Evard	Very deep, well drained, moderately permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	--	--	93	77	95	--	--
EvE EwF	Cowee	Moderately deep, well drained, moderately permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	--	--	78	55	80	54	--
PwC	Plott	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	85	--	--	--	113	--	87
PwD	Plott	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	85	--	--	--	113	--	87
PwE PwF	Plott	Very deep, well drained, moderately rapidly permeable	Very deep, well drained, moderately rapidly permeable	85	--	--	--	113	--	87
SdC	Saunook	Very deep, well drained, moderately rapidly permeable	Formed in colluvium derived from weathered felsic to mafic high-grade metamorphic or igneous rock	--	--	104	--	107	--	--

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SdD	Saunook	Very deep, well drained, moderately rapidly permeable	Formed in colluvium derived from weathered felsic to mafic high-grade metamorphic or igneous rock	--	--	104	--	107	--	--
TcD	Balsam	Very deep, well drained, moderately rapidly permeable	Formed in colluvium derived from weathered felsic to mafic high-grade metamorphic or igneous rock	--	64	--	--	--	--	--
TcE	Tanasee	Very deep, well drained, moderately rapidly permeable	Formed in colluvium derived from weathered felsic to mafic high-grade metamorphic or igneous rock	--	64	--	--	--	--	--
TcE	Balsam	Very deep, well drained, moderately rapidly permeable	Formed in colluvium derived from weathered felsic to mafic high-grade metamorphic or igneous rock	--	64	--	--	--	--	--
TrE TrF	Trimont	Very deep, well drained, moderately permeable	Very deep, well drained, moderately rapidly permeable	94	--	--	--	102	--	--
TuD	Tuckasegee	Very deep, well drained, moderately rapidly permeable	Formed in colluvium derived from weathered felsic to mafic high-grade metamorphic or igneous rock	--	--	98	--	109	--	--
TuD	Cullasaja	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	--	--	--	--	109	--	--

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				Northern Red Oak	Red Spruce	Eastern White pine	Chestnut Oak	Yellow Poplar	Scarlet Oak	Black Cherry
TvE	Tuckasegee	Very deep, well drained, moderately rapidly permeable	Formed in colluvium derived from weathered felsic to mafic high-grade metamorphic or igneous rock	--	--	98	--	109	--	--
TvE	Cullasaja	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	--	--	--	--	109	--	--
WaD	Wayah	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	72	57	--	--	--	--	72
WaE WaF	Wayah	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	72	57	--	--	--	--	72
WeC	Wayah	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	43	--	--	--	--	--	--
WeD	Wayah	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	43	--	--	--	--	--	--
WeE	Wayah	Very deep, well drained, moderately rapidly permeable	Formed in residuum weathered from felsic to mafic high-grade metamorphic or igneous rock	43	--	--	--	--	--	--

