

Online Material

Table A. Amounts of throughfall (TF), stemflow (SF) and intercepted water (IW) as a percentage of total precipitations. TF values in italics were read in figures; IW values in italics were calculated for studies with only TF and SF values.

Reference	Species	TF	SF	IW	Region	Basal area (m ² ha ⁻¹)	Stand age (years)
Abrahamsen et al., 1976	<i>Betula</i> sp.	80.0			Norway (S)		
Abrahamsen et al., 1976	<i>Pinus</i> sp.	83.6			Norway (S)		
Abrahamsen et al., 1976	<i>Picea</i> sp.	58.2			Norway (S)		
Aussenac, 1968	<i>Pinus sylvestris</i> L.	67.6	1.6	30.8	France (E)	34.50	28
Aussenac, 1968	<i>Picea abies</i> (L.) Karst.	63.75	1.85	34.4	France (E)	24.43	30
Aussenac, 1968	<i>Abies grandis</i> (Dougl.) Lindl.	56.8	1.05	42.15	France (E)	44.71	35
Aussenac, 1968	<i>Fagus sylvatica</i> L.+ <i>Carpinus betulus</i> L.	76	7.1	16.9	France (E)	7.73	30
Aussenac, 1968	<i>Pinus sylvestris</i> L.	67.7	1	31.3	France (E)	34.50	28
Aussenac, 1968	<i>Picea abies</i> (L.) Karst.	66.3	1	32.8	France (E)	24.43	30
Aussenac, 1968	<i>Abies grandis</i> (Dougl.) Lindl.	55.1	0.8	44.1	France (E)	44.71	35
Aussenac, 1968	<i>Fagus sylvatica</i> L.+ <i>Carpinus betulus</i> L.	73.7	7.1	19.2	France (E)	7.73	30
Aussenac, 1968	<i>Pinus sylvestris</i> L.	61.7	1.9	36.4	France (E)	34.50	28
Aussenac, 1968	<i>Picea abies</i> (L.) Karst.	58.7	2.1	39.3	France (E)	24.43	30
Aussenac, 1968	<i>Abies grandis</i> (Dougl.) Lindl.	48.1	1.1	50.9	France (E)	44.71	35
Aussenac, 1968	<i>Fagus sylvatica</i> L.+ <i>Carpinus betulus</i> L.	78.7	7.6	13.7	France (E)	7.73	30
Aussenac and Boulangeat, 1980	<i>Fagus sylvatica</i> L.	80	5	15	France (NE)	27.3	80
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	61	4	35	France (NE)	22.4	23
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	53	11	36	France (NE)	38.1	23
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	46	17	37	France (NE)	45.4	23
Aussenac and Boulangeat, 1980	<i>Fagus sylvatica</i> L.	76	3	21	France (NE)	27.3	80
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	61	3	36	France (NE)	22.4	23
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	53	11	36	France (NE)	38.1	23
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	47	16	37	France (NE)	45.4	23
Aussenac and Boulangeat, 1980	<i>Fagus sylvatica</i> L.	85	9	6	France (NE)	27.3	80
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	63	5	32	France (NE)	22.4	23
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	52	13	35	France (NE)	38.1	23
Aussenac and Boulangeat, 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	45	19	36	France (NE)	45.4	23
Bergkvist and Folkesson, 1995	<i>Picea abies</i> (L.) Karst.	70.8	2.6	26.6	Sweden (S)	53	48
Bergkvist and Folkesson, 1995	<i>Fagus sylvatica</i> L.	75.0	11.1	13.9	Sweden (S)	35	100
Bergkvist and Folkesson, 1995	<i>Betula pendula</i> Roth.	91.7	10.1	0	Sweden (S)	29	30
Bergkvist and Folkesson, 1995	<i>Picea abies</i> (L.) Karst.	63	1.4	35.6	Sweden (S)	42	55
Bergkvist and Folkesson, 1995	<i>Fagus sylvatica</i> L.	73.0	6.8	20.2	Sweden (S)	42	90
Bergkvist and Folkesson, 1995	<i>Betula pendula</i> Roth.	86.2	4.7	9.1	Sweden (S)	27	40

Table A. Continued.

Cape et al., 1991 (site 1)	<i>Alnus glutinosa</i> (L.) Gaertn.	73.5	9	17.5	England (NW)	14	29
Cape et al., 1991 (site 1)	<i>Picea abies</i> (L.) Karst.	70.5	13.5	17	England (NW)	35	29
Cape et al., 1991 (site 1)	<i>Pinus sylvestris</i> L.	58.5	6.5	35	England (NW)	36	29
Cape et al., 1991 (site 1)	<i>Quercus petraea</i> (Matt.) Lieb.	74	10	16	England (NW)	20	29
Cape et al., 1991 (site 2)	<i>Larix decidua</i> L.	77	3.5	19.5	Scotland (central)	30	33
Cape et al., 1991 (site 2)	<i>Pinus sylvestris</i> L.	54.5	14	30.5	Scotland (central)	44	33
Cape et al., 1991 (site 3)	<i>Larix decidua</i> L.	84	0.7	15.5	Scotland (NE)	50	27
Cape et al., 1991 (site 3)	<i>Picea sitchensis</i> (Bong.) Carr	66.5	13.5	20.5	Scotland (NE)	125	24
Cape et al., 1991 (site 3)	<i>Pinus sylvestris</i> L.	75.5	9	15.5	Scotland (NE)	95	26
Comerford and White, 1977	<i>Betula papyrifera</i> Marsh.	89.5			USA, Minnesota (N)	19.7	60
Comerford and White, 1977	<i>Pinus resinosa</i> Ait.	78.6			USA, Minnesota (N)	44.9	52
Courchesne and Hendershot, 1988	<i>Abies balsamea</i> (L.) Mill.	59	0.7	40.3	Canada, Québec (S)		80
Courchesne and Hendershot, 1988	<i>Acer saccharum</i> Marsh.	73	2.2	24.8	Canada, Québec (S)		80
Courchesne and Hendershot, 1988	<i>Betula papyrifera</i> Marsh.	85	2.7	12.3	Canada, Québec (S)		80
Courchesne and Hendershot, 1988	<i>Thuja occidentalis</i> L.	51	0.3	48.7	Canada, Québec (S)		80
Eidmann, 1959	<i>Fagus sylvatica</i> L.	75.8	16.5	7.6	Germany (W)	25	90
Eidmann, 1959	<i>Picea abies</i> (L.) Karst.	73.4	0.7	25.8	Germany (W)	43	65
Eidmann, 1959	<i>Fagus sylvatica</i> L.	72.7	16.5	10.8	Germany (W)	25	90
Eidmann, 1959	<i>Picea abies</i> (L.) Karst.	68.0	0.8	31.2	Germany (W)	43	65
Eidmann, 1959	<i>Fagus sylvatica</i> L.	79.2	16.5	4.3	Germany (W)	25	90
Eidmann, 1959	<i>Picea abies</i> (L.) Karst.	79.2	0.7	20.1	Germany (W)	43	65
Forgeard et al., 1980	<i>Abies grandis</i> (Dougl.) Lindl.	49.8			France (W)	42	20
Forgeard et al., 1980	<i>Fagus sylvatica</i> L.	81			France (W)	24	45
Forgeard et al., 1980	<i>Fagus sylvatica</i> L.	81.8			France (W)	19	55
Forgeard et al., 1980	<i>Fagus sylvatica</i> L.	71.7			France (W)	38	75
Forgeard et al., 1980	<i>Fagus sylvatica</i> L.	69.7			France (W)	30	130
Forgeard et al., 1980	<i>Fagus sylvatica</i> L.	66.6			France (W)	31	115
Forgeard et al., 1980	<i>Picea abies</i> (L.) Karst.	40.7			France (W)	36	33
Forgeard et al., 1980	<i>Picea sitchensis</i> (Bong.) Carr	39.8			France (W)	47	20
Forgeard et al., 1980	<i>Pinus contorta</i> Dougl. Ex Loud. var. <i>murrayana</i> (Balf.) Engelm.	46.6			France (W)	42	20
Forgeard et al., 1980	<i>Pinus nigra</i> Arn. var. <i>laricio</i>	49.6			France (W)	24	20
Forgeard et al., 1980	<i>Pinus sylvestris</i> L.	49.2			France (W)	28	20
Forgeard et al., 1980	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	48.8			France (W)	36	20
Forgeard et al., 1980	<i>Tsuga heterophylla</i> (Raf.) Sarg.	57.4			France (W)	47	24
Freedman and Prager, 1986	<i>Acer saccharum</i> Marsh.	68.6	4.8	26.6	Canada, Nova Scotia	27.4	45
Freedman and Prager, 1986	<i>Picea mariana</i> (Mill.) B. S. P.	69.4	0.2	30.4	Canada, Nova Scotia	28.4	75
Freedman and Prager, 1986	<i>Picea rubens</i> Sarg.	67.1	1	31.9	Canada, Nova Scotia	37.6	75
Heinrichs and Mayer, 1977	<i>Fagus sylvatica</i> L.	71.3	9.8	18.9	Germany (central)		125
Heinrichs and Mayer, 1977	<i>Picea abies</i> (L.) Karst.	72.1			Germany (central)		85
Houdijk and Roelofs, 1991 (site 1)	<i>Pinus nigra</i> Arn. var. <i>laricio</i>	73.0			Netherlands (NE)		32
Houdijk and Roelofs, 1991 (site 1)	<i>Pinus sylvestris</i> L.	65.1			Netherlands (NE)		32
Houdijk and Roelofs, 1991 (site 1)	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	63.2			Netherlands (NE)		32
Houdijk and Roelofs, 1991 (site 2)	<i>Pinus nigra</i> Arn. var. <i>laricio</i>	63.1			Netherlands (central)		32
Houdijk and Roelofs, 1991 (site 2)	<i>Pinus sylvestris</i> L.	66.9			Netherlands (central)		32
Houdijk and Roelofs, 1991 (site 2)	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	48.9			Netherlands (central)		32
Leyton et al., 1967	<i>Carpinus betulus</i> L.	60.7			England (central)		60
Leyton et al., 1967	<i>Carpinus betulus</i> L.	49.8			England (central)		60
Leyton et al., 1967	<i>Picea abies</i> (L.) Karst.	43.4			England (central)		25
Leyton et al., 1967	<i>Carpinus betulus</i> L.	72.8			England (central)		60
Mahendrappa, 1990	<i>Abies balsamea</i> (L.) Mill.	75	3.5	16.5	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Acer</i> sp.	77	5.6	23.4	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Betula papyrifera</i> Marsh.	83	3.9	12.1	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Larix laricina</i> (Du Roi) K. Koch	81	1.6	17.4	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Picea glauca</i> (Moench) Voss	73	6.4	20.6	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Picea rubens</i> Sarg.	76	2.3	21.7	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Pinus resinosa</i> Ait.	69	0.7	28.3	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Pinus strobus</i> L.	65	5.3	30.7	Canada, Nova Scotia		
Mahendrappa, 1990	<i>Populus grandidentata</i> Michaux	80	6.1	14.9	Canada, Nova Scotia		

Table A. Continued.

Martin-Aranda and Coutts, 1963	<i>Picea sitchensis</i> (Bong.) Carr	53.6			Scotland (E)		
Martin-Aranda and Coutts, 1963	<i>Pinus sylvestris</i> L.	56.7			Scotland (E)		
Mina, 1965	<i>Betula</i> sp.	79.5			Russia (W, near Moscow)		110
Mina, 1965	<i>Betula</i> sp.	64.1			Russia (W, near Moscow)		110
Mina, 1965	<i>Picea</i> sp.	68.9			Russia (W, near Moscow)		110
Mina, 1965	<i>Picea</i> sp.	56.0			Russia (W, near Moscow)		110
Mina, 1965	<i>Pinus</i> sp.	64.8			Russia (W, near Moscow)		75
Nihlgard, 1970a	<i>Fagus sylvatica</i> L.	68.7	11.5	19.8	Sweden (S)	28.67	100
Nihlgard, 1970a	<i>Picea abies</i> (L.) Karst.	58.2	4.2	37.6	Sweden (S)	54.19	55
Noirfalise, 1959	<i>Fagus sylvatica</i> L.	75	2	23	Belgium (SE)		
Noirfalise, 1959	<i>Picea abies</i> (L.) Karst.	77	0	23	Belgium (SE)		
Noirfalise, 1959	<i>Picea abies</i> (L.) Karst.	62	0	38	Belgium (SE)		
Norden, 1991	<i>Fagus sylvatica</i> L.	54			Sweden (S)		107
Norden, 1991	<i>Quercus robur</i> L.	68			Sweden (S)		137
Norden, 1991	<i>Carpinus betulus</i> L.	66			Sweden (S)		87
Norden, 1991	<i>Fagus sylvatica</i> L.	57			Sweden (S)		104
Norden, 1991	<i>Quercus robur</i> L.	70			Sweden (S)		163
Norden, 1991	<i>Carpinus betulus</i> L.	61			Sweden (S)		128
Norden, 1991	<i>Tilia cordata</i> Mill.	63			Sweden (S)		125
Norden, 1991	<i>Acer platanoides</i> L.	59			Sweden (S)		140
Norden, 1991	<i>Fagus sylvatica</i> L.	62			Sweden (S)		98
Norden, 1991	<i>Quercus robur</i> L.	66			Sweden (S)		147
Norden, 1991	<i>Carpinus betulus</i> L.	73			Sweden (S)		167
Ovington, 1954	<i>Abies grandis</i> (Dougl.) Lindl.	49.27	0.13	50.60	England (SE)	50	20
Ovington, 1954	<i>Chamaecyparis lawsoniana</i> (Murr.) Parl.	56.19	0.12	43.69	England (SE)	74	20
Ovington, 1954	<i>Larix x eurolepis</i> Henry	77.42	0.05	22.53	England (SE)	27	20
Ovington, 1954	<i>Nothofagus obliqua</i> (Mirb.) Blume	68.65	0.12	31.23	England (SE)	21	20
Ovington, 1954	<i>Picea abies</i> (L.) Karst.	52.29	0.13	47.58	England (SE)	47	20
Ovington, 1954	<i>Picea omorika</i> (Pancic) Purkyně	60.09	0.23	39.68	England (SE)	57	20
Ovington, 1954	<i>Pinus nigra</i> Arn.	52.62	0.21	47.17	England (SE)	50	20
Ovington, 1954	<i>Pseudotsuga menziesii</i> (Mirb.) Franco	46.33	0.06	53.61	England (SE)	35	20
Ovington, 1954	<i>Quercus petraea</i> (Matt.) Lieb.	66.41	0.28	33.31	England (SE)	19	20
Ovington, 1954	<i>Quercus rubra</i> L.	69.29	0.32	30.39	England (SE)	14	20
Ovington, 1954	<i>Thuja plicata</i> Donn ex D. Don	64.08	0.09	35.83	England (SE)	29	20
Ovington, 1954	<i>Tsuga heterophylla</i> (Raf.) Sarg.	53.85	0.05	46.10	England (SE)	34	20
Petit and Kamutanda, 1984	<i>Fagus sylvatica</i> L.	67.55			Belgium (E)	30	150
Petit and Kamutanda, 1984	<i>Picea</i> sp.	66.5			Belgium (E)	48	91
Petit and Kamutanda, 1984	<i>Fagus sylvatica</i> L.	65.5	3	31.50	Belgium (E)	30	150
Petit and Kamutanda, 1984	<i>Picea</i> sp.	66	0.9	33.10	Belgium (E)	48	91
Petit and Kamutanda, 1984	<i>Fagus sylvatica</i> L.	70	7	23.00	Belgium (E)	30	150
Petit and Kamutanda, 1984	<i>Picea</i> sp.	68	1.1	30.90	Belgium (E)	48	91
Robertson et al., 2000	<i>Alnus glutinosa</i> (L.) Gaertn.	78			England (NW)		33
Robertson et al., 2000	<i>Picea abies</i> (L.) Karst.	42			England (NW)		33
Robins, 1974	<i>Pinus nigra</i> Arn. var. <i>laricio</i>			1.2	England (S)		41
Robins, 1974	<i>Pseudotsuga menziesii</i> (Mirb.) Franco			15	England (S)		42
Toba and Ohta, 2005	<i>Larix cajanderi</i> Mayr.	71.3	0.003	29	Russia (E, near Yakutsk)		
Toba and Ohta, 2005	<i>Pinus sylvestris</i> L.	64.3	0.028	36	Russia (E, near Yakutsk)		
Verry and Timmons, 1977	<i>Picea mariana</i> (Mill.) B. S. P.	76.9	0.1	23.0	USA, Minnesota (N)	30.1	73
Verry and Timmons, 1977	<i>Populus</i> sp.	73.8	3.2	23.0	USA, Minnesota (N)	23	52
Verry and Timmons, 1977	<i>Populus</i> sp.	65.3	3.6	31.1	USA, Minnesota (N)	23	52
Voigt, 1960	<i>Fagus grandifolia</i> Ehrh.	65.7	9.6	24.7	USA, Connecticut		
Voigt, 1960	<i>Pinus resinosa</i> Ait.	80.1	1.2	18.7	USA, Connecticut	40	35
Voigt, 1960	<i>Tsuga canadensis</i> (L.) Carr.	60.9	5.9	33.1	USA, Connecticut		
Wells et al., 1972	mixed hardwoods	88.9			USA, North Carolina	26.21	85
Wells et al., 1972	<i>Pinus taeda</i> L.	91.9			USA, North Carolina	21.99	62