

Author(s)	Volume of redistributed water	species	typ	altitude (m a.s.l.)	precipitation (mm/y)	coordinates	climate (Köppen*)	research area
MOONEY et al. (1980)	not specified	<i>Prosopis tamaruga</i> (mesquite tree)	tree	-	0,3 - 0,7	between 26°30' S and 25°15' S	A2a	Atacama desert, Chile
RICHARDS & CALDWELL (1987, 1989)	transpiration reduced 25 % - 30 % (corresponding to amount of redistributed water)	<i>Artemisia tridentata</i> (sagebrush)	shrub	-	-	-	B1a	Utah, USA
DAWSON (1993)	102 ± 54 l	<i>Acer saccharum</i> (sugar maple)	tree	-	-	42°26' N, 76°30' E	CI3sh	New York, USA
DAWSON (1996)	40 – 80 l	<i>Acer saccharum</i> (sugar maple)	tree	-	-	42°26' N, 76°30' E	CI3sh	New York, USA
BURGESS et al.(1998)	not specified.	<i>Grevillea robusta</i> (silky oak)	tree	1660	-	1°33' S, 37°14' E	A2sa	Kenya
BURGESS et al.(1998)	not specified	<i>Eucalyptus</i> ssp.	tree	-	-	33°45' S, 117°27' E	B2sa	western Australia
WAN et al. (2000)	not specified	<i>Zea mays</i> (maize)	grass, crop	-	-	-	-	labratory
ZEGADA-LIZARAZU & IJIMA (2004)	not specified	<i>Oryza sativa</i> (rice), <i>Eleusine coracana</i> (finger millet), <i>Coix lacryma jobi</i> (Job's tears), <i>Echinochloa utilis</i> (barnyard millet), <i>Secale cereale</i> (rye)	grass, crop	-	-	-	-	labratory
VETTERLEIN & MARSCHNER (1993)	not specified	<i>Pennisetum glaucum</i> (pearl millet)	grass, crop	-	-	-	-	labratory
MCCULLY (1995)	not specified	<i>Hordeum vulgare</i> (barley), <i>Avena sativa</i> (oat)	grass, crop	-	-	-	-	labratory
SCHULZE et al. (1998)	not specified	<i>Stipagrostis amabilis</i> (kalahari dune grass), <i>S. obtusa</i> ('Kortbeenboesmangras'), <i>Centropodium glauca</i> (-)	grass	-	-	27°28' S, 20°45' E	B1a	Kalahari desert
KURZ-BESSON et al. (2006)	~ 25 %, (100 – 160 l/night*tree) up to 81 %	<i>Quercus suber</i> (cork oak)	tree	221	-	38°31' N, 8°01' W	B3sa	southern Portugal
VAN BAVEL & BAKER (1985)	not specified	<i>Cynodon dactylon</i> x <i>C. transvaalensis</i> (bermuda grass hybride)	grass	-	-	-	-	labratory
OLIVEIRA et al. (2005)	not specified	<i>Coussarea racemosa</i> (-), <i>Protium robustum</i> (-), <i>Manilkara huberi</i> (massaranduba)	tree	-	2,000 / 800 (dry Jahre)	2°89 S, 54°95' E	A1sh	Brasilia

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BAYALA et al. (2008)	73 l and 247 l/tree*d; 60 % and 53 % of the daily transpired water	<i>Vitellaria paradoxa</i> (karite'/shea tree), <i>Parkia biglobosa</i> (ne're'/carob)	tree	200	730, 1963 evapotranspiration (Panman)	12°03' N, 1°43' W	A2sa	Burkina Faso
BROOKS et al. (2006)	approx. 40 % of the water depleted from the upper soil layers	<i>Pseudotsuga menziesii</i> (douglas fir)	tree	-	2296	-	CI3sa	Washington, USA
BROOKS et al. (2002)	35 % and 28 % of the water depleted from the upper 2 m of soil	<i>Pinus ponderosa</i> (ponderosa pine), <i>Pseudotsuga menziesii</i> (douglas fir)	tree	-	-	-	CI3sa	Oregon, USA
BURGESS & BLEBY (2006)	not specified	<i>Eucalyptus wandoo</i> (wandoo), <i>Eucalyptus salmonophloia</i> (salmon gum)	tree	-	376, 1817 evaporation (Class-A-Pan)	32°19' S, 117°52' E	B2sa	western Australia
BURGESS et al. (2000a)	not specified	<i>Banksia prionotes</i>	tree	-	455	30° 39' S, 116° 00' E	B2sa	western Australia
BURGESS et al. (2001)	not specified	<i>Eucalyptus camaldulensis</i> var. <i>obtusata</i> , <i>E. platypus</i> var. <i>heterophylla</i> , <i>E. saligna</i> , <i>E. leucoxydon</i>	tree	-	485, 1826 evaporation (Class-A-Pan)	33°45' S, 117°27' E	B2sa	western Australia
EMERMAN & DAWSON (1996)	not specified	<i>Acer saccharum</i> (sugar maple)	tree	-	-	42°26' N, 76°30' E	CI3sh	New York, USA
LEFFLER et al. (2005)	not specified	<i>Bromus tectorum</i> (cheat grass)	grass	1600	-	112°28' W, 40°17' N	B1a	Utah, USA
LUDWIG et al. (2003)	not specified	<i>Acacia tortilis</i> (umbrella thorn acacia)	tree	1200	650	4° S, 37° E,	-	northern Tanzania
MCCULLY (1995)	not specified	<i>Avena sativa</i> (oat), <i>Digitaria sanguinalis</i> (hairy crab-grass), <i>Hordeum vulgare</i> (barley), <i>Zea mays</i> (maize),	grass, crop	-	-	-	CI2sh	Ottawa, Canada
MOREIRA et al. (2003)	not specified	<i>Byrsonima crassa</i> , <i>Blepharocalyx salicifolius</i>	tree	1100	1500	15°56' S, 47°53' W	A1sh	Brasilia
RYEL et al. (2001 & 2004)	not specified	<i>Artemisia tridentata</i> (sagebrush)	shrub	1600	-	112°28' W, 40°17' N	B1a	Utah, USA
VALENZUELA-ESTRADA et al. (2009)	not specified	<i>Vaccinium corymbosum</i> (blueberry)	(dwarf-) shrub	-	-	45°49' N, 121°57' W	-	labratory/ glass house Split pot test

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WAN et al. (1993)	271 g/plant*night (approx. 15,3 %)	<i>Gutierrezia sarothrae</i> (broom snakewood)	dwarf-shrub	-	-	-	B2sa/B2a	field nursery, Texas, USA
WARREN et al. (2007)	3-9 % estimated total site water depletion; up to 100 % replacement of water depletion from upper soil at night, 0,16 mm/d respectively 0,30 mm/d	<i>Pseudotsuga menziesii</i> (douglas fir), <i>Pinus ponderosa</i> (ponderosa pine)	tree	-	-	-	CI2sa/CI3sa	Oregon/Washington, USA
SMART et al. (2005)	Water redistribution from zone of available water into roots distant from the source within 36 h	<i>Vitis riparia x V. berlandieri</i> (vine hybrid)	vine	-	-	-	B3sa	California, USA
NADEZHINA et al. (2008)	not specified	<i>Quercus suber</i> (cork oak)	tree	-	-	-	B3sa	Tagus catchment near Lisbon, Portugal
HULTINE et al. (2003)	0 – 120 g/h, respectively 18 g/h	<i>Fraxinus velutina</i> (velvet ash), <i>Juglans major</i> (Arizona walnut)	tree	-	-	-	B2sa/B2a	south-eastern Arizona, USA (Walnut Gulch)
SCOTT et al. (2008)		<i>Prosopis velutina</i> (velvet mequite)	tree	-	415	-	B2sa/B2a	Arizona, USA
SMITH et al. (1999)		<i>Grevillea robusta</i> (silky oak)	tree	1560	782	1°33' S, 37°08' E	A2sa	Kenya

* explanation: (A) tropics, (B) Subtropics, (C) temperate zone. Numbers at A: (1) cold tropics, (2) warm tropics. Number at B and C: (1) high continental, (2) continental, (3) maritim. Small characters: (a) arid, (sa) semi arid, (sh) semi humid, (h) humid.