

Supplementary Table 1: Species listed were assigned a Plant Functional Type (PFT) based on physiological characteristics. Values for Night  $g_s$  ( $\text{mmol m}^{-2}\text{s}^{-1}$ ), Days  $g_s$  ( $\text{mmol m}^{-2}\text{s}^{-1}$ ), Night:Day  $g_s$  (%) and Precipitation reported as annual mean unless a range was also reported. Values followed by “†” were estimated from published graphs. For values of the ratio of night to day, **Night:day (%)**, “\*\*”, indicates the ratio is reported in the citation. For method, the following abbreviations were used: “dp” = diffusion porometer; “ge” = gas exchange; “IRGA” = infra-red gas analyser; “Li-1600” & “Li-1600C” = models of the Li-1600 steady state porometer; “Li-6400”, =Li-6400 gas exchange system; “ssp” = steady state porometer; “wg” = Whole plant gas exchange. For **location**, the following abbreviations were used: “cg” = common garden; “f” = field; “gc” = growth chamber; “gh” = glasshouse; “oc” = open air chambers; “op” = outdoor pots; “rs” = rain exclusion shelter. \*\* denotes that the values were excluded from the PFT means presented in SI Table 2, and were subsequently not used in the model.

PFT	Species	Night $g_s$ ( $\text{mmol m}^{-2}\text{s}^{-1}$ )	Day $g_s$ ( $\text{mmol m}^{-2}\text{s}^{-1}$ )	Night: Day $g_s$ (%)	Precipitation (mean, mm)	VPD (kPa)	Method	Location	Locality	Citation
Boreal needle-leaf evergreen	<i>Abies alba</i>	8	17.1	47	Well watered		Li-1600	oc	Birmensdorf, Switzerland	Keller and Hasler 1984, cited in Caird <i>et al.</i> , 2007
Temperate broad-leaf evergreen	<i>Acacia auriculiformis</i>	11			Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Temperate broad-leaf Shrub - evergreen	<i>Acacia cultriformis</i>	77	229.7	34	Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Temperate broad-leaf Shrub - evergreen	<i>Acacia iteaphylla</i>	14.9	138.9	11	Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Temperate broad-leaf deciduous	<i>Acer rubrum</i>	42.57			383- 1056		dp	f, gh	Ohio & Colorado, USA	Barnard and Bauerle, 2013
Temperate broad-leaf deciduous	<i>Acer rubrum</i>	50	120 †		2550 (snow and rain)		Li-6400	f	Petersham, Massachusetts, USA	Daley and Philips, 2006
Temperate broad-leaf deciduous	<i>Acer rubrum</i>	30.1	130-355	5-25*	1470		Li-1600	f	Upstate New York, USA	Dawson <i>et al.</i> , 2007
Temperate broad-leaf deciduous	<i>Acer saccharum</i>	40.75	119-322	2-20*	1470		Li-1600	f	Upstate New York, USA	Dawson <i>et al.</i> , 2007
C3 grass	<i>Achnatherum hymenoides</i>	142	194	73	138		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
CAM plant **	<i>Aechmea lingulata</i>	113	15 †	734			ssp	f	Trinidad	Luttge <i>et al.</i> , 1986
C3 grass	<i>Arabidopsis thaliana</i>	161	258	62	Well watered	1.5	wg	gc	France	Lasceve <i>et al.</i> , 1997, cited in Caird <i>et al.</i> , 2007
C3 grass	<i>Arabidopsis thaliana</i>	236	373	63	Well watered	70% RH	wg	gc	France	Leymarie <i>et al.</i> , 1998, cited in Caird <i>et al.</i> , 2007
C3 grass	<i>Arabidopsis thaliana</i>	116					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	194					wg	gc		M. Caird <i>et al.</i> ,

										unpublished
C3 grass	<i>Arabidopsis thaliana</i>	231					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	161					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	187					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	120					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	214					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	154					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	293					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	169					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	199					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	241					wg	gc		M. Caird <i>et al.</i> , unpublished
C3 grass	<i>Arabidopsis thaliana</i>	12					wg	gc		M. Caird <i>et al.</i> , unpublished
Temperate broad-leaf Shrub - evergreen	<i>Arctostaphylos glandulosa</i>	24	22-244	5-15*	1250		Li-1600	f	Bolinas Ridge, USA	Dawson <i>et al.</i> , 2007
Temperate broad-leaf Shrub - evergreen	<i>Artemisia tridentata</i>	47	66	71	200		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
Temperate broad-leaf Shrub - evergreen	<i>Artemisia tridentata</i>	30					ge	f		Howard, unpublished, cited in Caird <i>et al.</i> , 2007
Temperate broad-leaf Shrub - evergreen	<i>Artemisia tridentata</i>	12		32			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003
Temperate broad-leaf Shrub - evergreen	<i>Atriplex confertifolia</i>	15		34			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003
Temperate broad-leaf Shrub - evergreen	<i>Atriplex parryi</i>	28		30			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003

Temperate Annual Herb (Hemiparasite) **	<i>Bartsia trixago</i>	1126					IRGA	f	Alcudia, Mallorca	Press <i>et al.</i> , 1993
Temperate broad-leaf deciduous	<i>Betula nigra (Birch)</i>	51.24			383- 1056		dp	f, gh	Ohio & Colorado, USA	Barnard and Bauerle, 2013
Temperate broad-leaf deciduous	<i>Betula papyrifera</i>	170	258 †	66	2550 (snow and rain)		Li-6400	f	Petersham, Massachusetts, USA	Daley and Philips, 2006
Temperate broad-leaf deciduous	<i>Betula pendula</i>	90	183.6	49	Well watered		ge	f, oc	Birmensdorf, Switzerland	Matyssek <i>et al.</i> , 1995
Tropical broad-leaf evergreen	<i>Blepharocalyx salicifolius</i>	81	258 †	31	1500		ssp	f	Brasilia, Brasil	Scholz <i>et al.</i> , 2007
C4 grass	<i>Bouteloua curtipendula</i>	54			365		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
C4 grass	<i>Bouteloua curtipendula</i>	54.3	118	46	365		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
C3 grass	<i>Bromus rigidus</i>	61	409	15			IRGA	f	Alcudia, Mallorca	Press <i>et al.</i> , 1993
Temperate broad-leaf deciduous	<i>Carpinus betula/betulus</i>	61.78			383- 1056		dp	f, gh	Ohio & Colorado, USA	Barnard and Bauerle, 2013
Temperate broad-leaf Shrub - evergreen	<i>Ceanothus cuneatus</i>	0.6	48-326	0-1*	1290		Li-1600	f	Bolinas Ridge, USA	Dawson <i>et al.</i> , 2007
Temperate broad-leaf deciduous	<i>Cercis canadensis</i>	26.58			383- 1056		dp	f, gh	Ohio & Colorado, USA	Barnard and Bauerle, 2013
Temperate broad-leaf shrub - deciduous	<i>Chrysothamnus nauseosus</i>	450	1200	38	Well watered		Li-6400	gh	Athens, USA	Donovan <i>et al.</i> , 1999
Temperate broad-leaf shrub - deciduous	<i>Chrysothamnus nauseosus</i>	230	600 †	38	163		Li-6400	f	Mono Lake, California, USA	Donovan <i>et al.</i> , 2003
Tropical CAM Evergreen Tree**	<i>Clusia alata</i>	22	36	52*	Well watered		ssp	gh, gc	Sierra San Luis, Venezuela	Franco <i>et al.</i> , 1990
Tropical CAM Evergreen Tree**	<i>Clusia major</i>	18	74	25*	Well watered		ssp	gh, gc	Sierra San Luis, Venezuela	Franco <i>et al.</i> , 1990
Tropical C3-CAM Evergreen Tree**	<i>Clusia minor</i>	17	66	25*	Well watered		ssp	gh, gc	Sierra San Luis, Venezuela	Franco <i>et al.</i> , 1990
Tropical C3-CAM Evergreen Tree**	<i>Clusia venosa</i>	2.6	58	4.5*	Well watered		ssp	gh, gc	Sierra San Luis, Venezuela	Franco <i>et al.</i> , 1990
Temperate needle-leaf	<i>Dacrydium cupressinum</i>	5			1190		Li-6400	f	New York, USA	Barbour <i>et al.</i> , 2005

evergreen										
C3 monocot rosette**	<i>Dasyilirion leiophyllum</i>	2	88	2	365		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
C4 grass	<i>Distichlis spicata</i>	35		30			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003
C4 grass	<i>Eragrostis lehmanniana</i>	43	88	49	365		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
Temperate broad-leaf evergreen	<i>Eucalyptus argophloia</i>	27	100 †	27	801 +19%		Li-6400	cg	Richmond, NSW, Australia	Lewis <i>et al.</i> , 2011
Temperate broad-leaf evergreen	<i>Eucalyptus camaldulensis</i>	31	200 †	16	801 +19%		Li-6400	cg	Richmond, NSW, Australia	Lewis <i>et al.</i> , 2011
Temperate broad-leaf evergreen	<i>Eucalyptus camaldulensis</i>	29	223 †	13	Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Temperate broad-leaf evergreen	<i>Eucalyptus dunnii</i>	12	138 †	9	801 +19%		Li-6400	cg	Richmond, NSW, Australia	Lewis <i>et al.</i> , 2011
Temperate broad-leaf evergreen	<i>Eucalyptus globulus</i>	27	175 †	15	Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Temperate broad-leaf evergreen	<i>Eucalyptus grandis</i>	104			570		sap flow	cg	Wagga Wagga, NSW, Australia	Benyon, 1999
Temperate broad-leaf evergreen	<i>Eucalyptus grandis</i>	54	223 †	24	801 +19%		Li-6400	cg	Richmond, NSW, Australia	Lewis <i>et al.</i> , 2011
Temperate broad-leaf evergreen	<i>Eucalyptus grandis</i>	33	510	6	Well watered		Li-6400, sap flow	cg	Richmond, NSW, Australia	Phillips <i>et al.</i> , 2010
Temperate broad-leaf evergreen	<i>Eucalyptus saligna</i>	50			Well watered		Li-6400, sap flow	cg	Richmond, NSW, Australia	Phillips <i>et al.</i> , 2010
Temperate broad-leaf evergreen	<i>Eucalyptus sideroxylon</i>	20	279 †	7	801 +19%		Li-6400	cg	Richmond, NSW, Australia	Lewis <i>et al.</i> , 2011
Temperate broad-leaf evergreen	<i>Eucalyptus sideroxylon</i>	120	144	34	Well watered	0.4-2.5	ssp	gh	Richmond, NSW, Australia	Zeppel <i>et al.</i> , 2012
Temperate broad-leaf evergreen	<i>Eucalyptus sideroxylon</i>	29	151	19	Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Temperate broad-leaf evergreen	<i>Eucalyptus tereticornis</i>	30	1200		Well watered	0.51-1.27	Li-6400	gh	Richmond, NSW, Australia	de Dios <i>et al.</i> , 2013
Temperate broad-leaf evergreen	<i>Eucalyptus tereticornis</i>	65	1200		Well watered	0.51-1.27	Li-6400	gh	Richmond, NSW, Australia	de Dios <i>et al.</i> , 2013
Temperate broad-leaf evergreen	<i>Eucalyptus tereticornis</i>	12	250 †	5	801 +19%		Li-6400	cg	Richmond, NSW, Australia	Lewis <i>et al.</i> , 2011
Temperate broad-leaf evergreen	<i>Eucalyptus tereticornis</i>	53	216	25	Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Tropical broad-leaf evergreen	<i>Eucalyptus tetradonta</i>	76			Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished

Tropical broad-leaf evergreen	<i>Ficus insipida</i>	124	810	11*	Well watered		Li-6400	rs	Gamboa, Republic of Panama	Cernusak <i>et al.</i> , 2007
Temperate broad-leaf deciduous	<i>Fraxinus pennsylvanica</i>	1	10	10		0.4-1.2	ssp	f, op	New York Ciy, USA	Whitlow <i>et al.</i> , 1992
Temperate broad-leaf evergreen	<i>Gaultheria shallon</i>	22	36-188	7-21*	995		Li-1600	f	Sonoma & Big Basin, USA	Dawson <i>et al.</i> , 2007
Crop	<i>Glycine max</i> cultivar 'Bragg'	80			Well watered	53-75% RH	dp	f	Narrabri, NSW, Australia	Turner <i>et al.</i> , 1978, cited in Caird <i>et al.</i> , 2007
Crop	<i>Glycine max</i> cultivar 'Ruse'	140			Well watered	53-75% RH	dp	f	Narrabri, NSW, Australia	Turner <i>et al.</i> , 1978, cited in Caird <i>et al.</i> , 2007
CAM plant **	<i>Guzmania monostachia</i>	13	10 †	125			ssp	f	Trinidad	Luttge <i>et al.</i> , 1986
Crop	<i>Helianthus annulus</i>	100		13			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003
Crop	<i>Helianthus annuus</i>	124	1385	9	Well watered	0.88-2.12	Li-6400	gh	USA	Howard and Donovan, 2007
C3 grass	<i>Helianthus anomalus</i>	166	771	22	Well watered	0.88-2.12	Li-6400	gh	USA	Howard and Donovan, 2007
C3 grass	<i>Helianthus anomalus</i>	83	963	9	298		Li-6400	f	Utah, USA	Ludwig <i>et al.</i> , 2006
C3 grass	<i>Helianthus deserticola</i>	225	837	27	Well watered	0.88-2.12	Li-6400	gh	USA	Howard and Donovan, 2007
C3 grass	<i>Helianthus petiolaris</i>	121	929	13	Well watered	0.88-2.12	Li-6400	gh	USA	Howard and Donovan, 2007
Temperate broad-leaf Shrub - evergreen	<i>Heteromeles arbutifolia</i>	0	21-277	0	1250		Li-1600	f	Bolinas Ridge, USA	Dawson <i>et al.</i> , 2007
C4 grass	<i>Heteropogon contortus</i>	28	80	35	250-500		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
Crop	<i>Hibiscus cannabinus</i>	30	0.78		Well watered		dp	f	Western Australia, Australia	Muchow <i>et al.</i> , 1980, cited in Caird <i>et al.</i> , 2007
Temperate needle-leaf evergreen	<i>Juniper monosperma</i>	8.7			Ambient		Li-1600	f	Los Alamos, New Mexico	Zeppel unpublished
Temperate broad-leaf shrub - deciduous	<i>Krameria parvifolia</i>	54.4	87	63	136		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
C3 grass	<i>Lagurus ovatus</i>	59	879	7			IRGA	f	Alcudia,	Press <i>et al.</i> , 1993

									Mallorca	
Temperate needle-leaf deciduous	<i>Larix occidentalis</i>	42			812-1270		Li-1600	f	Idaho, USA	Kavanagh <i>et al.</i> , 2007
Temperate broad-leaf Shrub - evergreen	<i>Larrea tridentata</i>	9.3	21	43	365		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
Temperate broad-leaf Shrub - evergreen	<i>Larrea tridentata</i>	33	59	56	136		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
C3 grass	<i>Leymus cinereus</i>	87		69			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003
Temperate broad-leaf evergreen	<i>Lithocarpus densiflora</i>	22	39-147	3-8*	1037		Li-1600	f	Sonoma & Big Basin, USA	Dawson <i>et al.</i> , 2007
Temperate broad-leaf evergreen	<i>Lithocarpus densiflora</i>	44	82-195	7-11*	1037		Li-1600	f	Sonoma & Big Basin, USA	Dawson <i>et al.</i> , 2007
Temperate broad-leaf shrub - deciduous	<i>Lycium andersonii</i>	378	85	445	136		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
Crop	<i>Lycopersicon esculentum</i>	37			Well watered	0.05 - 1.8	Li-1600C	gh	Netherlands	Bakker 1991, cited in Caird <i>et al.</i> , 2007
Temperate broad-leaf deciduous	<i>Malus domestica</i>	50			383- 1056		dp	f, gh	Ohio & Colorado, USA	Barnard and Bauerle, 2013
C3 grass	<i>Melilotus polymorpha</i>	160	586	27			IRGA	f	Alcudia, Mallorca	Press <i>et al.</i> , 1993
crop	<i>Nicotiniana tabacum</i>	60	370	16	Well watered		Li-6400	gh	Athens, USA	Donovan <i>et al.</i> , 1999
crop	<i>Nicotiniana tabacum</i>	40	110	36	Well watered	70% RH	ge	gc	Japan	Takahashi <i>et al.</i> , 2005, cited in Caird <i>et al.</i> , 2007
Tropical broad-leaf evergreen	<i>Ouratea hexasperma</i>	55	103 †	53	1500	0.35-3.8	ssp	f	Brasilia, Brasil	Bucci <i>et al.</i> , 2004
Tropical broad-leaf evergreen	<i>Ouratea hexasperma</i>	60	130 †	46	1500		ssp	f	Brasilia, Brasil	Scholz <i>et al.</i> , 2007
Temperate Annual Herb (Hemiparasite) **	<i>Parentucellia vicosa</i>	1862					IRGA	f	Alcudia, Mallorca	Press <i>et al.</i> , 1993
Temperate needle-leaf evergreen	<i>Picea abies</i>	6	15	41	Well watered		Li-1600	oc	Birmensdorf, Switzerland	Keller and Hasler 1984, cited in Caird <i>et al.</i> , 2007
Temperate needle-leaf	<i>Pinon edulis</i>	10								Pangle pers comm

evergreen										
Temperate needle-leaf evergreen	<i>Pinon edulus</i>	10			Ambient		Li-1600	f	Los Alamos, New Mexico	Zeppel unpublished
Temperate needle-leaf evergreen	<i>Pinus ponderosa</i>	4			1190		Li-6400	f	New York, USA	Barbour <i>et al.</i> , 2005
Temperate needle-leaf evergreen	<i>Pinus ponderosa</i>	15	90				Li-6400	f	San Bernardino Mountains, California, USA	Grulke <i>et al.</i> , 2004
Temperate needle-leaf evergreen	<i>Pinus radiata</i>	9			1190		Li-6400	f	New York, USA	Barbour <i>et al.</i> , 2005
Temperate needle-leaf evergreen	<i>Pinus strobus</i>	25.05	52-222	2-17	1470		Li-1600	f	Upstate New York, USA	Dawson <i>et al.</i> , 2007
Temperate needle-leaf evergreen	<i>Pinus sylvestris</i>	80					Gas exchange	f		Skarby <i>et al.</i> , 1987
CAM plant **	<i>Plectranthus marrubioides</i>	13			Well watered		ge	gh, gc	Germany	Herppich, 1997
C4 grass	<i>Pleuraphis rigida</i>	349	91	386	136		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
Temperate broad-leaf deciduous	<i>Populus angustifolia</i>	188	900	21	Well watered	night-0.5-0.3	Li-6400	gh	USA	Howard and Donovan, 2010
Temperate broad-leaf deciduous	<i>Populus balsamifera</i>	308	1074	29	Well watered	night-0.5-0.4	Li-6400	gh	USA	Howard and Donovan, 2010
Temperate broad-leaf deciduous	<i>Populus balsamifera</i>	153		60			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003
Temperate broad-leaf deciduous	<i>Populus koreana</i>	230	480		Well watered	0.95	ssp	gh, gc, f	Japan	Furukawa <i>et al.</i> , 1990 cited in Caird <i>et al.</i> , 2007
Temperate needle-leaf deciduous	<i>Pseudotsuga menziesii</i>	29			812-1270		Li-1600	f	Idaho, USA	Kavanagh <i>et al.</i> , 2007
Temperate broad-leaf shrub - deciduous	<i>Purshia tridentata</i>	95	136	70	200		Li-6400	f	North America, USA	Ogle <i>et al.</i> , 2012
Temperate broad-leaf shrub –	<i>Purshia tridentata</i>	41		47			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003

deciduous										
Tropical broad-leaf deciduous	<i>Qualea grandiflora</i>	158	263 †	60	1500		ssp	f	Brasilia, Brasil	Scholz <i>et al.</i> , 2007
Temperate broad-leaf deciduous	<i>Quercus afares</i>	20.2	234	9	Well watered	0.97	Li-6400	gh	France	Vialet-Chabrand and Dreyer, 2013
Temperate broad-leaf evergreen	<i>Quercus agrifolia</i>	9.5	15-183	0-2*	1250		Li-1600	f	Tonzi Ranch, USA	Dawson <i>et al.</i> , 2007
Temperate broad-leaf evergreen	<i>Quercus oleoides</i>	9.2	82	11	Well watered		Li-6400	gh	Franklinville, New York, USA	Cavender-Bares <i>et al.</i> , 2007
Temperate broad-leaf deciduous	<i>Quercus petraea</i>	17.4	141	12	Well watered	0.97	Li-6400	gh	France	Vialet-Chabrand and Dreyer, 2013
Temperate broad-leaf deciduous	<i>Quercus robur</i>	9.9	284	3	Well watered	0.97	Li-6400	gh	France	Vialet-Chabrand and Dreyer, 2013
Temperate broad-leaf deciduous	<i>Quercus rubra</i>	11	300	4	1190		Li-6400	f	New York, USA	Barbour <i>et al.</i> , 2005
Temperate broad-leaf deciduous	<i>Quercus rubra</i>	40	276 †	14	2550 (snow and rain)		Li-6400	f	Petersham, Massachusetts, USA	Daley and Phillips, 2006
Temperate broad-leaf deciduous	<i>Quercus suber</i>	5.8	316	2	Well watered	0.97	Li-6400	gh	France	Vialet-Chabrand and Dreyer, 2013
Temperate broad-leaf evergreen	<i>Quintinia acutifolia</i>	15			1190		Li-6400	f	New York, USA	Barbour <i>et al.</i> , 2005
Temperate broad-leaf Shrub - evergreen	<i>Rhamnus californica</i>	40	33-190	3-8*	1250		Li-1600	f	Bolinas Ridge, USA	Dawson <i>et al.</i> , 2007
Tropical broad-leaf evergreen	<i>Ricinus communis</i>	240	1800 †	13	Well watered	0.66	Li-6400	gc	Australia	Barbour and Buckley, 2007
Crop	<i>Rosa cultivar 'Madelon'</i>	21	92	23		70% RH	Li-1600	gh	Wageningen, Netherlands	Blom-Zandstra <i>et al.</i> , 1995
Crop	<i>Rosa cultivar 'Sonia'</i>	18	112 †	16		70% RH	Li-1600	gh	Wageningen, Netherlands	Blom-Zandstra <i>et al.</i> , 1995
Temperate broad-leaf shrub - deciduous	<i>Rosa woodsii</i>	37		26			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003
Tropical broad-leaf deciduous	<i>Roupala montana</i>	100	193 †	52	1500	0.35-3.8	ssp	f	Brasilia, Brasil	Bucci <i>et al.</i> , 2004
Boreal broad-leaf deciduous	<i>Salix arctica</i>	50	163 †		199-603		ge	f	Canadian Arctic Archipelago	Dawson and Bliss, 1989 in Caird <i>et al.</i> , 2007
Temperate broad-leaf shrub - deciduous	<i>Salix exigua</i>	79		18			Li-6400	f	California, USA	Snyder <i>et al.</i> , 2003



Temperate broad-leaf shrub - deciduous	<i>Sarcobatus vermiculatus</i>	60	330 †	18	163		Li-6400	f	Mono Lake, California, USA	Donovan et al., 2003
Temperate broad-leaf shrub - deciduous	<i>Sarcobatus vermiculatus</i>	390	520	75	Well watered		Li-6400	gh	Athens, USA	Donovan et al., 1999
Temperate broad-leaf shrub - deciduous	<i>Shepherdia argentea</i>	33		28			Li-6400	f	California, USA	Snyder et al., 2003
Crop	<i>Solanum melongena</i>	170			Well watered	0.05 - 1.8	Li-1600C	gh	Netherlands	Bakker 1991, cited in Caird et al., 2007
Crop	<i>Solanum tuberosum</i>	230					ge	gc		Goknur and Tibbit, 1984 cited in Caird et al., 2007
Tropical broad-leaf evergreen	<i>Styrax ferrugineus</i>	75	164 †	46	1500	0.35-3.8	ssp	f	Brasilia, Brazil	Bucci et al., 2004
Temperate needle-leaf deciduous	<i>Tamarix chinensis</i>	35	148 †	24	not reported		Li-6400	f	New Mexico & Texas, USA	Moore et al., 2007
Temperate needle-leaf evergreen	<i>Thuja plicata</i>	10			812-1270		Li-1600	f	Idaho, USA	Kavanagh et al., 2007
Temperate broad-leaf deciduous	<i>Tilia cordata</i>	1	8	13		0.4-1.2	ssp	f, op	New York City, USA	Whitlow et al., 1992
Tropical broad-leaf evergreen	<i>Toona australis</i>	12.9	252	5	Well watered		ssp	gh	Sydney, NSW, Australia	Zeppel unpublished
Temperate needle-leaf evergreen	<i>Tsuga heterophylla</i>	20			812-1270		Li-1600	f	Idaho, USA	Kavanagh et al., 2007
Temperate broad-leaf evergreen	<i>Umbrellularia californica</i>	11	52-178	1-5*	1037		Li-1600	f	Big Basin, USA	Dawson et al., 2007
Temperate broad-leaf Shrub - evergreen	<i>Vaccinium spp</i>	34.75	37-209	7-22*	1470		Li-1600	f	Upstate New York, USA	Dawson et al., 2007
Crop	<i>Vicia faba</i>	80	500 †	16	Well watered	60-70% RH	Li-6400	gc	Davis, California, USA	Easlon and Richards, 2009
Crop	<i>Vitis vinifera</i>	36.7	198	19	Well watered	0.17-1.97	Li-6400	op	Australia	Rogiers and Clarke, 2013
Crop	<i>Vitis vinifera Cultivar Cabernet Sauvignon</i>	23.3			Field capacity	0.2-0.9	Li-6400	gh, op	Balearic Islands, Spain	Escalona et al., 2013
Crop	<i>Vitis vinifera Cultivar</i>	11.3			Field	0.2-	Li-6400	gh, op	Balearic Islands,	Escalona et al., 2013

	<i>Grenache</i>				capacity	0.10			Spain	
Crop	<i>Vitis vinifera</i> Cultivar <i>Malvasia</i>	23			Field capacity	0.2-0.11	Li-6400	gh, op	Balearic Islands, Spain	Escalona <i>et al.</i> , 2013
Crop	<i>Vitis vinifera</i> Cultivar <i>Manto Escursach</i>	8.9			Field capacity	0.2-0.12	Li-6400	gh, op	Balearic Islands, Spain	Escalona <i>et al.</i> , 2013
Crop	<i>Vitis vinifera</i> Cultivar <i>Manto Negro</i>	9.7			Field capacity	0.2-0.13	Li-6400	gh, op	Balearic Islands, Spain	Escalona <i>et al.</i> , 2013
Crop	<i>Vitis vinifera</i> Cultivar <i>Pinot Noir</i>	13.8			Field capacity	0.2-0.14	Li-6400	gh, op	Balearic Islands, Spain	Escalona <i>et al.</i> , 2013
Crop	<i>Vitis vinifera</i> Cultivar <i>Tempranillo</i>	16.5			Field capacity	0.2-0.15	Li-6400	gh, op	Balearic Islands, Spain	Escalona <i>et al.</i> , 2013
Temperate broad-leaf evergreen	<i>Weinmannia racemosa</i>	11			1190		Li-6400	f	New York, USA	Barbour <i>et al.</i> , 2005

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