

Supplementary Table S1. Species-specific information on plant functional traits and water sources

Species	Family	Leaf phenology	Life Form	DBH (cm)	LAI (m2/m2)	Height (m)	Water source						Season	Climate	water extraction method	Isotope type	References
							Soil (depth) cm	Rock	Rain	Stream	Fog	Ground Water					
<i>Eucalyptus largiflorens</i>	Myrtaceae	E	T	14	1	na	20- 60					GW	D	T	AD	D	Peter et al., 1993
<i>Eucalyptus largiflorens</i>	Myrtaceae	E	T	14	2	na	20-90					GW	D	T	AD	D	Peter et al., 1993
<i>Eucalyptus largiflorens</i>	Myrtaceae	E	T	14	3	na	30-70					GW	D	T	AD	D	Peter et al., 1993
<i>Juniperus oxycedrus</i>	Cupressaceae	E	T	na	na	na						GW	D	M	CD	S	Valentini et al.,1995
<i>Quercus pubescens</i>	Fagaceae	D	T	na	na	na						GW	D	M	CD	S	Valentini et al.,1995
<i>Quercus cerris</i>	Fagaceae	D	T	na	na	na						GW	D	M	CD	S	Valentini et al.,1995
<i>Quercus ilex</i>	Fagaceae	E	T	na	na	na			R				D	M	CD	S	Valentini et al.,1995
<i>Pistacia lentiscus</i>	Anacardiaceae	E	T	na	na	na			R				D	M	CD	S	Valentini et al.,1995
<i>Phillyrea angustifolia</i>	Oleaceae	E	S	na	na	na			R				D	M	CD	S	Valentini et al.,1995
<i>Pinus sylvestris</i>	Pinaceae	E	T	na	na	na			R				D	M	CD	S	Valentini et al.,1995
<i>Larix decidua</i>	Pinaceae	D	T	na	na	na						GW	D	M	CD	S	Valentini et al.,1995
<i>Larix sibirica</i>	Pinaceae	D	T	na	2.7	20	40						D	SA	CD	D	Li et al., 2007
<i>Larix sibirica</i>	Pinaceae	D	T	na	2.7	20	8						D	SA	CD	D	Li et al., 2007
<i>Larix sibirica</i>	Pinaceae	D	T	na	2.7	20	21						D	SA	CD	D	Li et al., 2007
<i>Juniperus ashei</i>	Cupressaceae	E	T	na	na	na	<10						W	TM	VD	D	McCole and Stern, 2007
<i>Juniperus ashei</i>	Cupressaceae	E	T	na	na	na				S			D	TM	VD	D	McCole and Stern, 2007
<i>Rademachera sinica</i>	Bignoniaceae	SD	T	na	na	na				S			D	A	CD	S	Nie et al., 2012
<i>Rademachera sinica</i>	Bignoniaceae	SD	T	na	na	na			R				D	A	CD	S	Nie et al., 2012
<i>Rademachera sinica</i>	Bignoniaceae	SD	T	na	na	na				S			D	A	CD	S	Nie et al., 2012
<i>Rademachera sinica</i>	Bignoniaceae	SD	T	na	na	na	0-30						D	A	CD	S	Nie et al., 2012
<i>Alchornea trewioides</i>	Euphorbiaceae	D	S	na	na	na			R				D	A	CD	S	Nie et al., 2012
<i>Alchornea trewioides</i>	Euphorbiaceae	D	S	na	na	na	0-30						D	A	CD	S	Nie et al., 2012
<i>Azadirachta indica</i>	Meliaceae	E	T	na	na	na						GW	D	SA	DE	S	Smith et al., 1997
<i>Azadirachta indica</i>	Meliaceae	E	T	na	na	na	200						D	SA	DE	S	Smith et al., 1997
<i>Azadirachta indica</i>	Meliaceae	E	T	na	na	na	100						W	SA	DE	S	Smith et al., 1997
<i>Acacia erioloba</i>	Fabaceae	D	T	na	na	na	150-400					GW	W	A	CD	D	Schachtschneider and February, 2010

<i>Acacia erioloba</i>	Fabaceae	D	T	na	na	na	150-400			GW	W	A	CD	D	Schachtschneider and February, 2010
<i>Acacia erioloba</i>	Fabaceae	D	T	na	na	na	150-400			GW	D	A	CD	D	Schachtschneider and February, 2010
<i>Acacia erioloba</i>	Fabaceae	D	T	na	na	na	0-100			GW	D	A	CD	D	Schachtschneider and February, 2010
<i>Tamarix usneoides</i>	Tamaricaceae	E	T	na	na	na	150-400			GW	D	A	CD	D	Schachtschneider and February, 2010
<i>Tamarix usneoides</i>	Tamaricaceae	E	T	na	na	na	150-400			GW	D	A	CD	D	Schachtschneider and February, 2010
<i>Faidherbia albida</i>	Fabaceae	E	T	na	na	na	0-100				W	A	CD	D	Schachtschneider and February, 2010
<i>Faidherbia albida</i>	Fabaceae	E	T	na	na	na	150-400			GW	D	A	CD	D	Schachtschneider and February, 2010
<i>Salix gooddingii</i>	Salicaceae	D	T	0.5	na	na				GW	D	SA	CD	D	Snyder and Williams, 2000
<i>Populus fremontii</i>	Salicaceae	D	T	0.5	na	na	0-50			GW	D	SA	CD	D	Snyder and Williams, 2000
<i>Prosopis velutina</i>	Fabaceae	D	T	0.5	na	na	0-50			GW	D	SA	CD	D	Snyder and Williams, 2000
<i>Pterocarpus officinalis</i>	Fabaceae	E	T	25	na	na	<60				D	T	CD	D	Colón-Rivera et al., 2014
<i>Pinus ponderosa</i>	Pinaceae	E	T	73.8	na	28.7	39-41	R			D	SA	CD	S	Kerhoulas et al., 2013
<i>Pinus ponderosa</i>	Pinaceae	E	T	15.9	na	9.1	0-21	R			W	SA	CD	S	Kerhoulas et al., 2013
<i>Quercus suber</i>	Fagaceae	E	T	0.57	na	12.1				GW	D	M	CD	S	David et al., 2013
<i>Pinus elliottii</i>	Pinaceae	E	T	na	na	na				GW	D	T	CD	D	Ewe et al., 1999
<i>Eucalyptus camaldulensis</i>	Myrtaceae	E	T	na	na	na	20-100	R			D	M	CD	S	Burgess et al., 2000
<i>Eucalyptus saligna</i>	Myrtaceae	E	T	na	na	na	20-100	R			D	M	CD	S	Burgess et al., 2000
<i>Eucalyptus leucoxylon</i>	Myrtaceae	E	T	na	na	na	20-100	R			D	M	CD	S	Burgess et al., 2000
<i>Nitraria tangutorum</i>	Nitrariaceae	D	S	na	na	na	30-90	R			D	A	CD	S	Zhu et al., 2011
<i>Nitraria tangutorum</i>	Nitrariaceae	D	S	na	na	na	0-30	R			D	A	CD	S	Zhu et al., 2011
<i>Nitraria tangutorum</i>	Nitrariaceae	D	S	na	na	na	>120	R			D	A	CD	S	Zhu et al., 2011
<i>Artemisia arenaria</i>	Asteraceae	D	S	na	na	na	30-90	R			D	A	CD	S	Zhu et al., 2011
<i>Artemisia arenaria</i>	Asteraceae	D	S	na	na	na	0-30	R			D	A	CD	S	Zhu et al., 2011
<i>Artemisia arenaria</i>	Asteraceae	D	S	na	na	na	>120	R			D	A	CD	S	Zhu et al., 2011
<i>Abies faxoniana</i>	Pinaceae	E	T	na	na	na				GW	W	A	CD	S	Xu et al., 2011
<i>Betula utilis</i>	Betulaceae	E	T	na	na	na	0-40	R			W	A	CD	S	Xu et al., 2011
<i>Larix gmelinii</i>	Pinaceae	D	T	na	na	na	>120	R			D	TM	CD	S	Sugimoto et al., 2003
<i>Ulmus crassifolia</i>	Ulmaceae	D	T	na	na	na			S		D	TM	CEI	D	Muttiah et al., 2005
<i>Acer grandidentatum</i>	Sapindaceae	D	T	>50	na	na	nm				D	SA	CD	S	Dawson and Ehleringer, 1991
<i>Acer negundo</i>	Sapindaceae	E	T	>50	na	na	nm				D	SA	CD	S	Dawson and Ehleringer, 1991
<i>Quercus gambelii</i>	Fagaceae	D	T	>50	na	na	nm				D	SA	CD	S	Dawson and Ehleringer, 1991

<i>Acer grandidentatum</i>	Sapindaceae	D	T	<50	na	na		S		D	SA	CD	S	Dawson and Ehleringer, 1991
<i>Acer negundo</i>	Sapindaceae	E	T	<50	na	na		S		D	SA	CD	S	Dawson and Ehleringer, 1991
<i>Quercus gambelii</i>	Fagaceae	D	T	<50	na	na		S		D	SA	CD	S	Dawson and Ehleringer, 1991
<i>Chrysothamnus viscidiflorus</i>	Asteraceae	D	S	na	na	na		R		D	SA	CD	S	Donovan and Ehleringer, 1994
<i>Artemisia tridentata</i>	Asteraceae	E	S	na	na	na		R		D	SA	CD	S	Donovan and Ehleringer, 1994
<i>Pistacia lentiscus</i>	Anacardiaceae	E	T	na	na	na		R	GW	D	M	CD	S	Valentini et al.,1992
<i>Phillyrea angustifolia</i>	Oleaceae	E	S	na	na	na		R	GW	D	M	CD	S	Valentini et al.,1992
<i>Quercus ilex</i>	Fagaceae	E	T	na	na	na		R	GW	D	M	CD	S	Valentini et al.,1992
<i>Quercus pubescens</i>	Fagaceae	D	T	na	na	na			GW	D	M	CD	S	Valentini et al., 1992
<i>Quercus cerri</i>	Fagaceae	D	T	na	na	na			GW	D	M	CD	S	Valentini et al.,1992
<i>Pinus edulis</i>	Pinaceae	E	T	na	na	na		R		W	A	CD	D	Williams and Ehleringer, 2000
<i>Juniperus osteosperma</i>	Cupressaceae	E	T	na	na	na		R		W	A	CD	D	Williams and Ehleringer, 2000
<i>Quercus gambelii</i>	Fagaceae	D	T	na	na	na	50			D	A	CD	D	Williams and Ehleringer, 2000
<i>Sabina vulgaris</i>	Cupressaceae	E	T	na	1.61	0.9	250-350	R	GW	D	A	CD	D	Ohte et al., 2003
<i>Artemisia ordosica</i>	Asteraceae	D	T	na	1.89	0.7	<150	R		D	A	CD	D	Ohte et al., 2003
<i>Salix matsudana</i>	Salicaceae	D	T	na	1.61	4.3	250-350	R	GW	D	A	CD	D	Ohte et al., 2003
<i>Pinus flexilis</i>	Pinaceae	E	T	na	na	na	nm	R		D	SA	CD	S	Roberts et al., 2004
<i>Rhus aromatica</i>	Anacardiaceae	E	T	na	na	na	nm	R		D	SA	CD	S	Roberts et al., 2004
<i>Eucalyptus camaldulensis</i>	Myrtaceae	E	T	40-120	1.5	10-30		S		D	SA	AD	D	Thorburn and Walker, 1994
<i>Jacaranda copaia</i>	Bignoniaceae	E	T	na	na	na	30-100			D	T	CD	S	Jackson et al., 1995
<i>Annona spraguei</i>	Annonaceae	D	T	na	na	na	30-100			D	T	CD	S	Jackson et al., 1995
<i>Sterculia apetala</i>	Malvaceae	D	T	na	na	na	30-100			D	T	CD	S	Jackson et al., 1995
<i>Tetragastris panamensis</i>	Burseraceae	E	T	na	na	na	30-100			D	T	CD	S	Jackson et al., 1995
<i>Spondias radlkoferi</i>	Anacardiaceae	D	T	na	na	na	0-30			D	T	CD	S	Jackson et al., 1995
<i>Sapium aucuparium</i>	Euphorbiaceae	D	T	na	na	na	0-31			D	T	CD	S	Jackson et al., 1995
<i>Zanthoxylum setulosum</i>	Rutaceae	D	T	na	na	na	0-32			D	T	CD	S	Jackson et al., 1995
<i>Pseudobombax septentatum</i>	Malvaceae	D	T	na	na	na	0-33			D	T	CD	S	Jackson et al., 1995
<i>Rhizophora mangle</i>	Rhizophoraceae	E	T	na	na	na	<30			W	T	CD	D	Ewe et al., 2007
<i>Rhizophora mangle</i>	Rhizophoraceae	E	T	na	na	na	<30		GW	D	T	CD	D	Ewe et al., 2007
<i>Juniperus phoenicea</i>	Cupressaceae	E	S	na	na	na	5-50			D	SA	CD	D	Armas et al., 2010
<i>Pistacia lentiscu</i>	Anacardiaceae	E	S	na	na	na			GW	D	SA	CD	D	Armas et al., 2010

<i>Populus nigra</i>	Salicaceae	D	T	na	na	na	<30			SA	SP	S	Lambs et al., 2003
<i>Salix alba</i>	Salicaceae	D	T	na	na	na	<30			SA	SP	S	Lambs et al., 2003
<i>Populus nigra</i>	Salicaceae	D	T	na	na	na		GW	D	SA	SP	S	Lambs et al., 2003
<i>Salix alba</i>	Salicaceae	D	T	na	na	na		GW	D	SA	SP	S	Lambs et al., 2003
<i>Chamaecytisus proliferus</i>	Fabaceae	E	T	na	na	na		GW	D	M	na	S	Lefroy et al., 2001
<i>Eucalyptus camaldulensis</i>	Myrtaceae	E	T	na	na	na		GW	D	SA	AD	S	Thorburn and Ehleringer, 1995
<i>Eucalyptus largiflorens</i>	Myrtaceae	E	T	na	na	na		GW	D	SA	AD	S	Thorburn and Ehleringer, 1995
<i>Acer grandidentatum</i>	Sapindaceae	D	T	na	na	na		GW	D	A	AD	S	Thorburn and Ehleringer, 1995
<i>Acer negundo</i>	Sapindaceae	E	T	na	na	na		GW	D	A	AD	S	Thorburn and Ehleringer, 1995
<i>Atriplex canescens</i>	Amaranthaceae	E	S	na	na	na	30-40		D	A	AD	S	Thorburn and Ehleringer, 1995
<i>Chrysothamnus nauseosus</i>	Asteraceae	D	S	na	na	na	30-40		D	A	AD	S	Thorburn and Ehleringer, 1995
<i>Vancleavea stylosa</i>	Asteraceae	D	S	na	na	na	30-40		D	A	AD	S	Thorburn and Ehleringer, 1995
<i>Melaleuca halmaturorum</i>	Myrtaceae	E	T	na	na	na		GW	D	M	AD	S	Mensforth and Walker, 1996
<i>Melaleuca halmaturorum</i>	Myrtaceae	E	T	na	na	na	0-10		W	M	AD	S	Mensforth and Walker, 1996
<i>Schinus terebinthifolius</i>	Anacardiaceae	E	T	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Myrica cerifera</i>	Myricaceae	E	T	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Baccharis halimifolia</i>	Asteraceae	E	S	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Rapanea punctata</i>	Myrsinaceae	E	S	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Randia aculeata</i>	Rubiaceae	E	S	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Schinus terebinthifolius</i>	Anacardiaceae	E	T	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Myrica cerifera</i>	Myricaceae	E	T	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Baccharis halimifolia</i>	Asteraceae	E	S	na	na	na		GW	D	ST	CD	S	Ewe and Sternberg, 2002
<i>Schinus terebinthifolius</i>	Anacardiaceae	E	T	na	na	na	1-3		W	ST	CD	S	Ewe and Sternberg, 2002
<i>Myrica cerifera</i>	Myricaceae	E	T	na	na	na	1-3		W	ST	CD	S	Ewe and Sternberg, 2002
<i>Baccharis halimifolia</i>	Asteraceae	E	S	na	na	na	1-3		W	ST	CD	S	Ewe and Sternberg, 2002
<i>Pinus jeffreyi</i>	Pinaceae	E	T	na	na	na	<200		W	M	CD	D	Rose et al., 2003
<i>Arctostaphylos patula</i>	Ericaceae	E	S	na	na	na	<200		W	M	CD	D	Rose et al., 2003
<i>Doryphora aromatica</i>	Atherospermataceae	E	T	na	na	na	0-100		W	T	AD	S	Drake and Franks, 2003
<i>Argyrodendron trifoliolatum</i>	Atherospermataceae	SD	T	na	na	na	0-100		W	T	AD	S	Drake and Franks, 2003
<i>Castanospora alphanthii</i>	Sapindaceae	E	T	na	na	na	0-100		W	T	AD	S	Drake and Franks, 2003

<i>Doryphora aromatica</i>	Atherospermataceae	E	T	na	na	na		S		D	T	AD	S	Drake and Franks, 2003
<i>Argyrodendron trifoliolatum</i>	Atherospermataceae	SD	T	na	na	na	0-30			D	T	AD	S	Drake and Franks, 2003
<i>Castanospora alphanthii</i>	Sapindaceae	E	T	na	na	na		S		D	T	AD	S	Drake and Franks, 2003
<i>Corymbia clarksoniana</i>	Myrtaceae	E	T	13.2	na	na			GW	D	ST	AD	S	Cook and O'Grady, 2006
<i>Eucalyptus platyphylla</i>	Myrtaceae	E	T	42.3	na	na			GW	D	ST	AD	S	Cook and O'Grady, 2006
<i>Melaleuca Viridiflora</i>	Myrtaceae	E	T	14.9	na	na			GW	D	ST	AD	S	Cook and O'Grady, 2006
<i>Spondias purpurea</i>	Anacardiaceae	SD	T	39–70	na	na	0-15			D	T	CD	D	Querejeta et al., 2007
<i>Cordia dodecandra</i>	Boraginaceae	D	T	38–42	na	na	0-15			D	T	CD	D	Querejeta et al., 2007
<i>Enterolobium cyclocarpum</i>	Leguminosae	E	T	71–95	na	na	70-300		GW	D	T	CD	D	Querejeta et al., 2007
<i>Brosimum alicastrum</i>	Moraceae	E	T	32–99	na	na	70-300		GW	D	T	CD	D	Querejeta et al., 2007
<i>Talisia olivaeformis</i>	Sapindaceae	E	T	32–59	na	na	70-300			D	T	CD	D	Querejeta et al., 2007
<i>Ficus cotinifolia</i>	Moraceae	E	T	45–79	na	na	0-15			D	T	CD	D	Querejeta et al., 2007
<i>Amorpha canescens</i>	Fabaceae	D	S	na	na	na	>30			D	HC	CD	S	Nippert and Knapp, 2007
<i>Ceanothus spp.</i>	Rhamnaceae	E	S	na	na	na	>30			D	HC	CD	S	Nippert and Knapp, 2007
<i>Eucalyptus coolabah</i>	Myrtaceae	E	T	120	na	6.8	<200		GW	D	A	AD	S	Costelloe et al., 2008
<i>Quercus fusiformis</i>	Fagaceae	E	T	na	na	na	nm			D	HC	CD	D	Schwinning, 2008
<i>Juniperus ashei</i>	Cupressaceae	E	T	na	na	na	nm			D	HC	CD	D	Schwinning, 2008
<i>Coccoloba diversifolia</i>	Polygonaceae	E	T	na	na	na	75-300			D	T	CD	S	Hasselquist et al., 2010
<i>Esenbeckia pentaphylla</i>	Rutaceae	E	T	na	na	na	75-300			D	T	CD	S	Hasselquist et al., 2010
<i>Vitex gaumeri</i>	Verbenaceae	E	T	na	na	na	75-300			D	T	CD	S	Hasselquist et al., 2010
<i>Caesalpinia gaumeri</i>	Fabaceae	D	T	na	na	na	<75			D	T	CD	S	Hasselquist et al., 2010
<i>Lonchocarpus castilloi</i>	Fabaceae	D	T	na	na	na	<75			D	T	CD	S	Hasselquist et al., 2010
<i>Lysiloma latisiliquum</i>	Fabaceae	D	T	na	na	na	<75			D	T	CD	S	Hasselquist et al., 2010
<i>Abies fraseri</i>	Pinaceae	E	T	na	na	na		F		W	ST	CD	D	Berry et al., 2014
<i>Picea rubens</i>	Pinaceae	E	T	na	na	na		F		W	ST	CD	D	Berry et al., 2014
<i>Larix sibirica</i>	Pinaceae	D	T	na	na	na	0-30			W	SA	CD	S	Li et al., 2006
<i>Larix sibirica</i>	Pinaceae	D	T	na	na	na	>30			D	SA	CD	S	Li et al., 2006
<i>Pinus sylvestris</i>	Pinaceae	E	T	na	na	na	20-60			W	SA	CD	D	Wei et al., 2013
<i>Pinus sylvestris</i>	Pinaceae	E	T	na	na	na			GW	D	SA	CD	D	Wei et al., 2013
<i>Ulmus pumila</i>	Ulmaceae	D	T	na	na	na	0-40				SA	CD	S	Su et al., 2014
<i>Ulmus pumila</i>	Ulmaceae	D	T	na	na	na	>40				SA	CD	S	Su et al., 2014

<i>Ulmus pumila</i>	Ulmaceae	D	T	na	na	na	>40				SA	CD	S	Su et al., 2014
<i>Ulmus pumila</i>	Ulmaceae	D	T	na	na	na			GW		SA	CD	S	Su et al., 2014
<i>Pinus sylvestris</i>	Pinaceae	E	T	10.6	0.01	4.8	20-60			D	SA	CD	D	Song et al., 2014
<i>Pinus sylvestris</i>	Pinaceae	E	T	10.6	0.01	4.8	20-60		GW	W	SA	CD	D	Song et al., 2014
<i>Pine spp</i>	Pinaceae	E	T	na	na	na	30-200			D	M	CD	S	Ferna'ndez et al., 2008
<i>Populus euphratica</i>	Salicaceae	D	T	na	na	na	160-240		GW	D	A	CD	S	Si et al., 2014
<i>Brosimum alicastrum</i>	Moraceae	E	T	na	na	na	50-250			D	T	CD	S	Querejeta et al., 2006
<i>Artemisia tridentata</i>	Asteraceae	E	S	na	na	na	0-120			D	SA	CD	D	Kulmatiski et al., 2006
<i>Purshia tridentata</i>	Rosaceae	D	S	na	na	na	0-120			D	SA	CD	D	Kulmatiski et al., 2006
<i>Caragana microphylla</i>	Fabaceae	D	S	na	na	na	100			D	TM	CD	S	Yang et al., 2011
<i>Eucalyptus grandis</i>	Myrtaceae	E	T	na	na	na			GW	D	A	CD	D	Feikema et al., 2010
<i>Eucalyptus camaldulensis</i>	Myrtaceae	E	T	na	na	na			GW	D	A	CD	D	Feikema et al., 2010
<i>Radermachera sinica</i>	Bignoniaceae	E	T	na	na	na	100			D	ST	CD	D	Nie et al., 2011
<i>Alchornea trewioides</i>	Euphorbiaceae	D	S	na	na	na				W	ST	CD	D	Nie et al., 2011
<i>Sterculia euosma</i>	Malvaceae	SD	T	na	na	na	100			W	ST	CD	D	Nie et al., 2011
<i>Schefflera octophylla</i>	Araliaceae	SD	T	na	na	na	100			W	ST	CD	D	Nie et al., 2011
<i>Ficus orthoneura</i>	Moraceae	E	T	na	na	na	100			W	ST	CD	D	Nie et al., 2011
<i>Cyclobalanopsis glauca</i>	Fagaceae	E	T	5-34	na	na		>5 cm epikarst zone	S	D	ST	CD	D	Deng et al., 2012
<i>Engelhardtia roxburghiana</i>	Juglandaceae	E	T	5-34	na	na		>5 cm epikarst zone	S	D	ST	CD	D	Deng et al., 2012
<i>Decaspermum esquiortii</i>	Myrtaceae	E	T	5-34	na	na		>5 cm epikarst zone	S	D	ST	CD	D	Deng et al., 2012
<i>Platycarya strobilacea</i>	Juglandaceae	D	T	11	na	na		>5 cm epikarst zone	S	D	ST	CD	D	Deng et al., 2012
<i>Cyclobalanopsis glauca</i>	Fagaceae	E	T	1-4	na	na		>5 cm epikarst zone	S	D	ST	CD	D	Deng et al., 2012
<i>Quercus emoryi</i>	Fagaceae	D	T	na	na	na	>50			W	SA	CD	S	Weltzin and McPherson, 1997
<i>Sequoia sempervirens</i>	Cupressaceae	E	T	na	na	na			F	D	M	CD	D	Dawson, 1998
<i>Trichilia tuberculata</i>	Meliaceae	E	T	24-25	na	na	70-100			D	T	CD	S	Meinzer et al., 1999
<i>Quararibea asterolepis</i>	Malvaceae	E	T	23-37	na	na	70-100			D	T	CD	S	Meinzer et al., 1999
<i>luehea seemannii</i>	Malvaceae	D	T	24-41	na	na	>100			D	T	CD	S	Meinzer et al., 1999
<i>Platypodium elegans</i>	Fabaceae	D	T	25-82	na	na	<100			D	T	CD	S	Meinzer et al., 1999
<i>Platymiscium pinnatum</i>	Fabaceae	D	T	33-68	na	na	<100			D	T	CD	S	Meinzer et al., 1999
<i>Tabebuia rosea</i>	Bignoniaceae	D	T	41-48	na	na	80			D	T	CD	S	Meinzer et al., 1999

<i>Alseis blackiana</i>	Rubiaceae	D	T	22-34	na	na	80				D	T	CD	S	Meinzer et al., 1999	
<i>Pinus taeda</i>	Pinaceae	E	T	na	na	na	0-40				D	ST	CD	S	Retzlaff et al., 2001	
<i>Pinus taeda</i>	Pinaceae	E	T	na	na	na	120				W	ST	CD	S	Retzlaff et al., 2001	
<i>Caltis pallida</i>	Cannabaceae	SE	S	na	na	na	>150				D	ST	AD	D	Midwood et al., 1998	
<i>Prosopis glandulosa</i>	Fabaceae	D	S	na	na	na	>150				D	ST	AD	D	Midwood et al., 1998	
<i>Acacia greggii</i>	Fabaceae	D	T	na	na	na	>150				D	ST	AD	D	Midwood et al., 1998	
<i>Azadirachta indica</i>	Meliaceae	E	T	na	na	na	<100				W	A	na	S	Smith et al., 1998	
<i>Sarcobatus vermiculatus</i>	Chenopodiaceae	D	S	na	na	na	50				W	A	CD	S	Chimner and Cooper, 2004	
<i>Chrysothamnus nauseosus</i>	Asteraceae	E	S	na	na	na	50				W	A	CD	S	Chimner and Cooper, 2004	
<i>Chrysothamnus Greenei</i>	Asteraceae	E	S	na	na	na	>200				W	A	CD	S	Chimner and Cooper, 2004	
<i>Hyeronima alchorneoides</i>	Euphorbiaceae	E	T	na	na	na	<100				W	T	CD	S	Gutiérrez-Soto and Ewel, 2008	
<i>Cedrela odorata</i>	Meliaceae	D	T	na	na	na	<100				W	T	CD	S	Gutiérrez-Soto and Ewel, 2008	
<i>Eucalyptus largiflorens</i>	Myrtaceae	E	T	na	na	na	>200		R	S		D	T	CD	D	Holland et al., 2006
<i>Banksia prionotes</i>	Proteaceae	D	T	na	na	na					GW	D	M	CD	D	Pate et al., 1998
<i>Fraxinus excelsior</i>	Oleaceae	D	T	na	na	na	nm					D	SA	OI	S	Singer et al., 2013
<i>Pinus nigra</i>	Pinaceae	E	T	na	na	na					GW	D	SA	OI	S	Singer et al., 2013
<i>Populus euphratica</i>	Salicaceae	D	T	na	na	na	0-120				GW	D	A	OI	S	Hao et al., 2013
<i>Alhagi sparsifolia</i>	Leguminosae	D	T	na	na	na	0-120				GW	D	A	OI	S	Hao et al., 2013
<i>Glycyrrhiza inflata</i>	Fabaceae	D	T	na	na	na	0-120				GW	D	A	OI	S	Hao et al., 2013
<i>Apocynum venetum</i>	Apocynaceae	D	S	na	na	na	0-120				GW	D	A	OI	S	Hao et al., 2013
<i>Retama monosperma</i>	Fabaceae	D	S	na	na	na			R		GW	D	M	CD	S	Esquivias et al., 2014
<i>Thymus carnosus</i>	Lamiaceae	D	S	na	na	na	0-60				GW	D	M	CD	S	Esquivias et al., 2014
<i>Hevea brasiliensis</i>	Euphorbiaceae	E	T	22	2.4	18	0-30				W	ST	CD	S	Liu et al., 2014	
<i>Hevea brasiliensis</i>	Euphorbiaceae	E	T	23	2.4	18	>70				D	ST	CD	S	Liu et al., 2014	
<i>Artemisia tridentata</i>	Asteraceae	E	S	na	na	na	0-50				W	SA	CD	S	Prieto et al., 2014	
<i>Artemisia tridentata</i>	Asteraceae	E	S	na	na	na	50-100				D	SA	CD	S	Prieto et al., 2014	
<i>Populus spp</i>	Salicaceae	D	T	na	na	na	<50				D	SA	CD	D	Anderegg et al., 2013	
<i>Pinus sylvestris</i>	Pinaceae	E	T	na	na	na	20-80				D	SA	CD	D	Yafen et al., 2012	
<i>Juniperus osteosperma</i>	Cupressaceae	E	T	na	na	na	20-40				D	SA	AD	S	Leffler and Caldwell, 2005	
<i>Artemisia tridentata</i>	Asteraceae	E	S	na	na	na	20-40				D	SA	AD	S	Leffler and Caldwell, 2005	
<i>Terminalia sericea</i>	Combretaceae	D	T	4	na	na	5-120				D	ST	CD	S	Kulmatiski et al., 2010	

<i>Sclerocarya birrea</i>	Anacardiaceae	D	T	5	na	na	5-120			D	ST	CD	S	Kulmatiski et al., 2010
<i>Caragana intermedia</i>	Fabaceae	D	S	na	na	na	0-60			D	SA	CD	D	Jia et al., 2012
<i>Helianthemum squamatum</i>	Cistaceae	D	S	na	na	na		crystallization water of gypsum rocks		D	SA	CD	D	Palacio et al., 2014
<i>Acer negundo</i>	Sapindaceae	D	T	na	na	na		S	GW	D	A	CD	S	Kolb et al., 1997
<i>Vochysia elliptica</i>	Vochysiaceae	E	T	6	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Roupala montana</i>	Proteaceae	E	T	6	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Miconia ferruginata</i>	Melastomataceae	E	T	6	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Sclerolobium paniculatum</i>	Caesalpinoideae	E	T	5	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Didymopanax macrocarpum</i>	Araliaceae	E	T	6	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Dalbergia myscolobium</i>	Caesalpinoideae	D	T	7	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Pterodon pubescens</i>	Faboideae	D	T	18	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Kielmeyera coriacea</i>	Guttiferae	D	T	6	na	na	<200			D	T	CD	S	Jackson et al., 1999
<i>Qualea grandiflora</i>	Vochysiaceae	D	T	9	na	na	<200			D	T	CD	S	Jackson et al. 1999
<i>Qualea parviflora</i>	Vochysiaceae	D	T	5	na	na	<200			D	SA	AD	D	Eggemeyer et al., 2008
<i>Juniperus virginiana</i>	Cupressaceae	E	T	na	na	na	5-50			D	SA	AD	D	Eggemeyer et al., 2008
<i>Pinus ponderosa</i>	Pinaceae	E	T	na	na	na	5-50			D	SA	AD	D	Eggemeyer et al., 2008
<i>Juniperus virginiana</i>	Cupressaceae	E	T	na	na	na	<90			D	SA	AD	D	Eggemeyer et al., 2008
<i>Pinus ponderosa</i>	Pinaceae	E	T	na	na	na	<90			D	SA	AD	D	Eggemeyer et al., 2008
<i>Eucalyptus gomphocephala</i>	Myrtaceae	E	T	38-170	na	na			GW	D	SA	CD	S	Drake et al., 2011
<i>Pinus contorta</i>	Pinaceae	E	T	17.6	na	na	0-15			D	TM	CD	S	Andrews et al., 2012
<i>Pseudotsuga menziesii</i>	Pinaceae	E	T	23.9	na	na			GW	D	TM	CD	S	Andrews et al., 2012
<i>Pseudotsuga menziesii</i>	Pinaceae	E	T	23.9	na	na	0-15			W	TM	CD	S	Andrews et al., 2012
<i>Pinus sylvestris</i>	Pinaceae	E	T	510	na	na	20-60			W	SA	CD	D	Wei et al., 2013
<i>Pinus sylvestris</i>	Pinaceae	E	T	510	na	na			GW	D	SA	CD	D	Wei et al., 2013
<i>Acer negund</i>	Sapindaceae	D	T	na	na	na			GW	D	HC	na	S	Komor and Magner, 1996
<i>Larix desidua</i>	Pinaceae	D	T	na	na	na			GW	D	HC	CD	S	Valentini et al., 1994
<i>Pinus sylvestris</i>	Pinaceae	E	T	na	na	na		R		D	HC	CD	S	Valentini et al., 1994
<i>Populus trichocarpa</i>	Salicaceae	D	T	na	na	na			GW	D	A	CD	S	Smith et al., 1998
<i>Poputus fremontii</i>	Salicaceae	D	T	na	na	na			GW	D	A	CD	S	Smith et al., 1998
<i>Safix gooddingii</i>	Salicaceae	D	T	na	na	na			GW	D	A	CD	S	Smith et al., 1998
<i>Tarnarix ramosissima</i>	Tamaricaceae	D	S	na	na	na			GW	D	A	CD	S	Smith et al., 1998

<i>Widdringtonia cedarbergensis</i>	Cupressaceae	E	T	na	na	na		R		W	M	CD	D	February et al., 2007
<i>Quercus suber</i>	Fagaceae	E	T	na	na	na	40-100			D	M	CD	D	Kurz-Besson et al., 2006
<i>Eucalyptus diversifolia</i>	Myrtaceae	E	T	na	na	na	nm		GW	D	SA	AD	D	Swaffer et al., 2014
<i>Allocasuarina verticillata</i>	Casuarinaceae	E	T	na	na	na			GW	D	SA	AD	D	Swaffer et al., 2014
<i>Sabina vulgaris</i>	Cupressaceae	E	T	na	1.61	0.9			GW	D	SA	CD	D	Ohte et al., 2003
<i>Artemisia ordosica</i>	Asteraceae	D	T	na	1.89	0.7	0-50			D	SA	CD	D	Ohte et al., 2003
<i>Salix matsudana</i>	Salicaceae	D	T	na	1.28	4.6	>250		GW	D	SA	CD	D	Ohte et al., 2003
<i>Pinus massoniana</i>	Pinaceae	E	T	na	na	na	20-100			D	ST	CD	D	Sun et al., 2008
<i>Quercus aliena</i>	Fagaceae	D	T	na	na	na	20-100			D	ST	CD	D	Sun et al., 2008
<i>Coriaria sinica</i>	Coriariaceae.	D	T	na	na	na	20-100			D	ST	CD	D	Sun et al., 2008
<i>Melaleuca quinquenervia</i>	Myrtaceae	E	T	na	na	na		S	GW	D	T	CD	D	Wei et al., 2013
<i>Casuarina glauca</i>	Casuarinaceae	E	T	na	na	na		S	GW	D	T	CD	D	Wei et al., 2013
<i>Melaleuca quinquenervia</i>	Myrtaceae	E	T	na	na	na		R		W	T	CD	D	Wei et al., 2013
<i>Casuarina glauca</i>	Casuarinaceae	E	T	na	na	na		R		W	T	CD	D	Wei et al., 2013
<i>Alnus incana</i>	Betulaceae	E	T	na	na	10	20-80			D	TM	LVE	D	Bertrand et al., 2014
<i>Pinus sylvestris</i>	Pinaceae	E	T	na	na	7	20-80		GW	D	TM	LVE	D	Bertrand et al., 2014
<i>Quercus aquifolioides</i>	Fagaceae	E	S	na	na	na	0-30			W	TM	CD	D	Liu et al., 2011
<i>Fagus spp</i>	Fagaceae	D	T	na	na	na	nm		GW	D	TM	PCSL	D	Penna et al., 2013
<i>Fagus spp</i>	Fagaceae	D	T	na	na	na	nm			W	TM	PCSL	D	Penna et al., 2013
<i>Acer grandidentatum</i>	Sapindaceae	D	T	na	na	na	nm			D	SA	CD	D	Phillips and Ehleringer, 1995
<i>Quercus gambeli</i>	Fagaceae	D	T	na	na	na	nm			D	SA	CD	D	Phillips and Ehleringer, 1995
<i>Ulmus crassifolia</i>	Ulmaceae	D	T	na	na	>3		R		D	SA	CD	D	Kukowski et al., 2013
<i>Quercus fusiformis</i>	Fagaceae	E	T	na	na	>3		R		D	SA	CD	D	Kukowski et al., 2013
<i>Juniperus ashei</i>	Cupressaceae	E	T	na	na	>3		R		D	SA	CD	D	Kukowski et al., 2013
<i>Eucalyptus camaldulensis</i>	Myrtaceae	E	T	na	na	na			GW	D	SA	AD	D	Mensforth et al., 1994
<i>Eucalyptus camaldulensis</i>	Myrtaceae	E	T	na	na	na	5- 15		GW	W	SA	AD	D	Mensforth et al., 1994
<i>Pinus hartwegii</i>	Pinaceae	E	T	na	na	na	0-30			W	T	AD	D	Hartsough et al., 2008
<i>Philenoptera violacea</i>	Fabaceae	SD	T	na	na	na			GW	W	ST	CD	D	February et al., 2007
<i>Colophospermum mopane</i>	Fabaceae	D	T	na	na	na			GW	W	ST	CD	D	February et al., 2007
<i>Cedrela odorata</i>	Meliaceae	SD	T	11-8	na	12	0-30			D	T	CD	D	Schwendenmann et al., 2015

<i>Tabebuia rosea</i>	Bignoniaceae	D	T	11.5	na	7.4	>30		D	T	CD	D	Schwendenmann et al., 2015
<i>Hura crepitans</i>	Euphorbiaceae	E	T	18.1	na	5.6	>30		D	T	CD	D	Schwendenmann et al., 2015
<i>Anacardium excelsum</i>	Anacardiaceae	E	T	9.9	na	6.4	>30		D	T	CD	D	Schwendenmann et al., 2015
<i>Luehea seemannii</i>	Tiliaceae	D	T	11.1	na	8.3	>30		D	T	CD	D	Schwendenmann et al., 2015
<i>Pseudotsuga menziesii</i>	Pinaceae	E	T	na	na	na	0-100		D	M	CD	D	Brooks et al., 2010

N.B. Evergreen=E, Deciduous=D, Semi deciduous=SD, Semi Evergreen=SE, Tree=T, Shrub=S, Stream=S, Groundwater=GW, Fog=F, Rain=R, Dry=D, Wet=W, Tropical=T, Arid=A, Semiarid=SA, Temperate=TM, Mediterranean=M, Subtropical=ST, Humid continental=HC, cryogenical distillation=CD, azeotropic distillation=AD, liquid-vapour equilibration=LVE, dendrocronological method and oxygen isotope cellulose analysis=OI, cellulose synthesis and isotope=CEI, pressure chamber and suction lysimeter=PCSL, Dual isotope=D, Single isotope=S, na=not available, nm=soil depth not mentioned

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