

Wild edibles supplementing the food security of Guji Oromo semi-pastoralists, SuroBarguda District, Oromia, Ethiopia

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Supplementary Table 1

Scientific name	Family	Local name (Oromo name)	Ha	Lat.	Longi.	Al.	Age.	Abu	Pru	Addp	Vou.No.
<i>Acanthus eminus</i> C.B.Clarke	Acantaceae	SOKKORU	S	37N0418212	UTM 0605470	1935	MI	C	Ne	Fw	MA20
<i>Acockanthus schimperii</i> (A. DC.) Schweif	Apocynaceae	MERENZ	T	37N0450709	UTM 0570353	1273	LI	R	Fr	Co,Fw,Md	MA31
<i>Albizia schimperiana</i> Oliv.	Fabaceae	LOLE	T	37N0424711	UTM 0601268	1707	MI	C	Ba	Co,Fo,Fw,Md,Ut	MA62
<i>Allophylus abyssinicus</i> (Hochst.) Rodlko	Sapindaceae	IMBUS	T	37N0417756	UTM 0609073	1953	MI	R	Fr	Co, Fo,Fw,Ut	MA04
<i>Alysicarpus glumaceum</i> (Vahl) DC.	Fabaceae	SAGNI	H	37N0447399	UTM 0573517	1340	LI	R	Rt	Fo, Md	MA39
<i>Alysicarpus rugosus</i> (Wald.) DC.	Fabaceae	DHEBO	H	37N0447399	UTM 0573517	1340	LI	R	Rt	Fo	MA10
<i>Amaranthus dubius</i> Thell.	Amaranthaceae	ALIMA	H	37N0427715	UTM 0591796	1615	MI	C	Le, Se	Fo	MA19
<i>Balanites aegyptiaca</i> (L.) Del.	Balanitaceae	BADANAA	T	37N0427715	UTM 0591796	1615	MI	C	Fr	Co, Fo,Fw, Md,Ut	MA47
<i>Balanites rotundifolia</i> (van Tieghem) Blatt	Balanitaceae	OKOLEE	T	37N0447399	UTM 0573517	1340	LI	R	Fr	Co, Fo, Fw, Md,Ut	MA13
<i>Canthium lactescens</i> Hiern	Rubiaceae	KORBOO	S	37N0418023	UTM 0604446	1875	MI	R	Fr	Co, Fw	MA25
<i>Carissa spinarum</i> L.	Apocynaceae	AGANSSAA	S	37N0418583	UTM 0609459	1698	MI	C	Fr	Fo, Fw, Md	MA54
<i>Celtis africana</i> Burmf.	Ulmaceae	MOTOQOMMAA	T	37N0418517	UTM 0609154	1624	MI	C	Fr	Co, Fo,Fw, Ut	MA43
<i>Cleome gynandra</i> L.	Capparidaceae	MIKKIDHI/SHANACHAA	H	37N0417626	UTM 0609150	1938	MI	C	Le	Fo	MA24
<i>Commiphora africana</i> (A.Rich.) Engl.	Burseraceae	ITAN	S	37N0447399	UTM 0573517	1340	LI	R	Fr	Fo, Fw	MA21
<i>Commiphora erythraea</i> (Ehrenb.) Engl.	Burseraceae	DAKARA	T	37N0447399	UTM 0573517	1340	LI	C	Ba	Co, Fo, Fw,	MA70
<i>Commiphora rostrata</i> Engl.	Burseraceae	DABIISA	H	37N0447399	UTM 0573517	1340	LI	R	Rt	Fo, Fw	MA64
<i>Commiphora schimperi</i> (Berg) Engl.	Burseraceae	DAALACHAA	S	37N0447399	UTM 0573517	1340	LI	C	Rt	Fo,Fw, Md	MA41
<i>Commiphora terebinthina</i> Vollesen	Burseraceae	TENKARA	S	37N0447399	UTM 0573517	1340	LI	R	Rt	Co,Fo, Fw,	MA35
<i>Cordia africana</i> Lam.	Boraginaceae	WODDESSA	T	37N0417506	UTM 0600479	1648	MI	R	Fr	Co, Fo, Fw, Ut	MA01
<i>Cordia allenebeckii</i> Gurke	Boraginaceae	WANZA	T	37N0427715	UTM 0591796	1615	MI	R	Fr	Fo	MA06
<i>Cyphostemma rivae</i> (Gilg) Desc.	Vitaceae	DABASSITTI	Li	37N0427715	UTM 0591796	1615	MI	C	Fr	Ut	MA42
<i>Cyphostemma serpens</i> (A.Rich.) Desc.	Vitaceae	COOPHI	Li	37N0427715	UTM 0591796	1615	MI	R	Fr	Ut	MA46
<i>Dioscorea schimperiana</i> Kunth	Dioscoreaceae	BAROODAA	Li	37N0423954	UTM 0601204	1650	MI	R	Rt	Fo	MA23
<i>Eriosema nutans</i> Schinz	Fabaceae	KURTEE	H	37N0367162	UTM 0594992	1494	LI	R	Rt	Fo	MA14
<i>Euclaea divinatorum</i> Hiern	Ebenaceae	DEDEHO	S	37N0450709	UTM 0570353	1275	LI	C	Fr	Co, Fw, Md	MA50
<i>Fagaropsis angolensis</i> (Engl.) Dale	Rutaceae	SISSAA	T	37N0424711	UTM 0601268	1707	MI	C	Ba	Co, Fo,Fw,Md, Ut	MA57
<i>Ficus sycamoros</i> L.	Moraceae	ODDA	T	37N0450709	UTM 0570353	1273	LI	C	Fr	Fo,Fw,Ut	MA34
<i>Ficus sur</i> Forsk.	Moraceae	HARRUU	T	37N0417506	UTM 0600479	1648	MI	R	Fr	Fo,Fw,Ut	MA55
<i>Ficus vasta</i> Forsk.	Moraceae	QILXAA	T	37N0417506	UTM 0600479	1648	MI	C	Fr, Gu	Fo,Fw,Ut	MA11
<i>Flacourtia indica</i> (Burm.f.) Merr.	Flacourtiaceae	HAGALLAA	S	37N0418583	UTM 0609459	1694	MI	C	Fr	Co,Fo, Fw,Md	MA33
<i>Gladiolus candidus</i> (Rendle) Goldblatt	Iridaceae	SILNQAAA	H	37N0428358	UTM 0588103	1621	MI	R	Rt	Fo	MA65
<i>Grewia bicolor</i> Juss.	Tiliaceae	HARORESSA	S	37N0450709	UTM 0570353	1273	LI	R	Fr	Co, Fo,Fw,Ut	MA03
<i>Grewia ferruginea</i> Hochst.ex A. Rich.	Tiliaceae	ULLE	S	37N0417875	UTM 0610265	1876	MI	C	Fr	Fo,Fw	MA52
<i>Grewia velutina</i> (Forsk.) Vahl	Tiliaceae	HARORREESSA	S	37N0450709	UTM 0570353	1273	LI	C	Fr	Fo,Fw	MA68
<i>Haplocoelum foliosolum</i> (Hiern) Bullock	Sapindaceae	DUBA	T	37N0428358	UTM 0588103	1620	MI	R	Fr	Co,Fo,Fw,	MA08
<i>Hibiscus ovalifolius</i> (Forsk.) Vahl	Mabaceae	DHEEKAA	S	37N0447399	UTM 0573517	1340	LI	R	Fr	Fo,Fw	MA45
<i>Lannea rivae</i> (Chiov.) Sacl.	Anacardiaceae	HANDARAKKU	S	37N0447399	UTM 0573517	1340	LI	R	Fr, Ba	Co,Fo,Fw,Md	MA18
<i>Lannea schimperii</i> (A. Rich.) Engl.	Anacardiaceae	HANDARAKU BADDAA	S	37N0427715	UTM 0591796	1615	MI	R	Fr	Co,FoFw	MA67
<i>Lantana viburnoides</i> (Forsk.) Vahl	Verbenaceae	DUBARROO	S	37N0418583	UTM 0609459	1696	MI	C	Fr	Fw	MA58
<i>Mimusops kummel</i> Bruce. ex A. DC.	Sapotaceae	OLLATHI	T	37N0417506	UTM 0600479	1648	MI	R	Fr	Co, Fo,Fw,Ut	MA15
<i>Olea europaea</i> L. subsp. cuspidate (Wall.) Oleaceae		EJEERSSA	T	37N0418023	UTM 0604446	1875	MI	C	Fr	Co, Fo,Fw,Md, Ut	MA28
<i>Opuntia ficus-indica</i> (L.) Miller	Cactaceae	GAMBORRAA	Su	37N0421316	UTM 0588937	1654	MI	R	Fr	Lf	MA61
<i>Oxalis corniculata</i> L.	Oxalidaceae	SODDAA RE'EE	H	37N0425273	UTM 0601180	1697	MI	C	Le	Fo	MA27
<i>Pancreatium tenuifolium</i> A.Rich	Anaryliaceae	LIQAAQAA	Se	37N0427715	UTM 0591796	1615	MI	C	Le	Fo	MA05
<i>Pappae capensis</i> Eckl. & Zeyh.	Sapindaceae	BIQQAAA	T	37N0427715	UTM 0591796	1615	MI	R	Fr	Co, Fo,Fw,Md	MA37
<i>Physalis peruviana</i> L.	Solanaceae	HAWUXI	H	37N0418023	UTM 0604446	1875	MI	C	Fr	Fo	MA48
<i>Polysphaeria parvifolia</i> Hiern	Rubiaceae	MIQQEE	S	37N0418583	UTM 0609459	1696	MI	C	Fr	Co,Fw	MA30
<i>Psophocarpus grandiflorus</i> Wilczek	Fabaceae	QOOQEE/WOKKALLAA	Li	37N0417626	UTM 0609150	1938	MI	R	Fr, Le	Fo	MA16
<i>Psudrax schimperiana</i> (A. Rich.) subsp.	Rubiaceae	GAALLOO	T	37N0418023	UTM 0604446	1875	MI	C	Fr	Co, Fw	MA38
<i>Pyrostria phyllanthoides</i> (Bail) Bridson	Rubiaceae	NANDHALLA	S	37N0447399	UTM 0573517	1340	LI	C	Fr	Fo,Fw	MA49
<i>Rhus glutinosa</i> A. Rich.	Anacardiaceae	DABOBEESSA	S	37N0418023	UTM 0604446	1875	MI	C	Fr	Co, Fo,Fw	MA59
<i>Rhus longipes</i> Engl.	Anacardiaceae	XAXEESSA	S	37N0418023	UTM 0604446	1875	MI	R	Fr, St	Co, Fo, Fw	MA44
<i>Rhus natalensis</i> Kraus	Anacardiaceae	IRQAAQAMMO	S	37N0417873	UTM 0610265	1876	MI	C	Fr	Co, Fo,Fw,Md	MA53
<i>Rhus tenuinervis</i> Engl.	Anacardiaceae	IRQAAQAMMOO	S	37N0417873	UTM 0610265	1876	MI	C	Fr	Co, Fo,Fw	MA69
<i>Rhus vulgaris</i> Meikle	Anacardiaceae	DABOBEESSA	S	37N0418023	UTM 0604446	1875	MI	C	Fr, Le	Co, Fo, Fw,Md	MA56
<i>Rubus steudneri</i> Schweinf	Rosaceae	GORRA	Li	37N0417873	UTM 0610265	1876	MI	C	Fr	Lf	MA22
<i>Sarcostemma viminalis</i> (L.) R.Br.	Asclepiadaceae	HANGAYYA	Su	37N0450709	UTM 0570353	1273	LI	R	Fr	Fo	MA60
<i>Solanum nigrum</i> L.	Solanaceae	HADHAAA	H	37N0417626	UTM 0609150	1938	MI	C	Le, Fr	Fo	MA02
<i>Syzygium guineense</i> (Wald.) DC. subsp. a	Myrtaceae	BADDEESSA	T	37N0384651	UTM 0597164	2230	MI	R	Fr	Co,Fw	MA32
<i>Syzygium guineense</i> (Wald.) DC. var. guin	Myrtaceae	AWAJO	T	37N0418023	UTM 0604446	1875	MI	R	Fr	Co,Fo,Fw,Md	MA63
<i>Syzygium guineense</i> (Wald.) DC.subsp. m	Myrtaceae	AWAJO	T	37N0423954	UTM 0601204	1650	MI	R	Fr	Co, Fw	MA36
<i>Teclea salicifolia</i> Engl.	Rutaceae	HADHEESSA	S	37N0450709	UTM 0570353	1921	MI	C	Ba, Fr	Co,Fw,Md, Ut	MA07
<i>Terminalia brevipes</i> Pampanini	Combretaceae	CIGIDDIIDA	S	37N0427715	UTM 0591796	1615	MI	R	Fr	Fo,Fw	MA40
<i>Trichilia emetic</i> Vahl.	Meliaceae	XIRDHOO	T	37N0418583	UTM 0609459	1696	MI	R	Fr	Co,Fo,Fw	MA12
<i>Vachellia seyal</i> Del.	Fabaceae	NECH GIRAR	T	37N0450709	UTM 0570353	1273	LI	C	Ba	Co,Fo, Fw	MA17
<i>Vachellia torilis</i> (Forsk.) Hayne	Fabaceae	GIRAR	T	37N0420986	UTM 0584067	1500	LI	C	Ba	Co, Fo, Fw	MA09
<i>Vangueria apiculata</i> K. Schum	Rubiaceae	BURURII	S	37N0418517	UTM 0609154	1624	MI	C	Fr	Co,Fw,Md	MA29
<i>Ximenesia caffra</i> Sond.	Oleaceae	HUDHAA	S	37N0381958	UTM 0589363	1806	MI	R	Fr	Fo,Fw, Md	MA51
<i>Zehneria scabra</i> (Lam. f.) Sond	Cucurbitaceae	SURUPHAA	Ch	37N0417756	UTM 0609073	1953	MI	C	Fr	Fo	MA13

Supplementary Table 2

X	Ranking of seven edible wild plants in pairs										Wins	Rank
	<i>A. schimperi</i>	<i>B. aegyptiaca</i>	<i>C. spinarum</i>	<i>C. africana</i>	<i>C. ellenbeckii</i>	<i>F. sur</i>	<i>L. viburnoides</i>	<i>O. ficus-indica</i>	<i>P. capensis</i>	<i>R. steudneri</i>		
<i>Acokantheraschimperi</i>	-----	1	0	1	1	1	1	1	1	0	7	3 rd
<i>Balanitesaegyptiaca</i> (L.) Del.	0	----	0	0	0	0	1	0	1	0	2	8 th
<i>Carissaspinarum</i>	1	1	-----	1	1	1	1	1	1	1	9	1 st
<i>Commiphoraafricana</i> (A. Rich.) Engl.	0	1	0	-----	0	0	1	0	1	0	3	7 th
<i>Cordiaellenbeckii</i> Gurke	0	1	0	1	-----	0	1	0	1	0	4	6 th
<i>Ficussur</i> Forssk.	0	1	0	1	1	----	1	1	1	0	6	4 th
<i>Lantana viburnoides</i> (Forssk.) Vahl	0	0	0	0	0	0	-----	0	0	0	0	10 th
<i>Opuntiaficus-indica</i> (L.) Miller	0	1	0	1	1	0	1	-----	1	0	5	5 th
<i>Pappeacapensis</i>	0	0	0	0	0	0	1	0	-----	0	1	9 th
<i>Rubussteudneri</i>	1	1	0	1	1	1	1	1	1	-----	8	2 nd

N.B. One that is desired is represented by 1, and one that is not preferred by 0

Supplementary Table 3

Average direct matrix ranking (5=best, 4=very good, 3=good, 2=less utilised, 1=least used, and 0=not used) of ten key informants for ten wild edible plant species with their extra applications

Wild edible plant species	Use categories									Total	Mean value	Standard deviation	Rank
	Ch	Co	Ut	Fw	Md	Ed	Fo	Fe					
<i>Balanitesaegyptiaca</i>	5	3	3	3	3	3	3	4	27	3.4	0.7	5 th	
<i>Cordiaafricana</i> Lam.	5	5	3	5	3	5	3	3	32	4	1.0	1 st	
<i>Fagaropsisangolensis</i> (Engl.) Dale	5	4	2	5	2	5	2	3	28	3.5	1.3	4 th	
<i>Flacourtiaindica</i> (Burm.f.) Merr.	3	2	2	4	1	4	3	4	23	2.9	1.1	8 th	
<i>Lannearivae</i> (Chiov.) Sacl.	4	5	2	5	2	2	2	3	25	3.1	1.3	7 th	
<i>Mimusops kummel</i> Bruce. ex. A.DC.	5	4	2	5	2	4	2	2	26	3.3	0.2	6 th	
<i>Oleaeuropaea</i> subsp. <i>cuspidata</i>	5	5	5	5	2	4	2	3	31	3.9	1.3	2 nd	
<i>Rhusnatalensis</i> Kraus	3	2	2	3	3	3	2	3	21	2.6	0.5	9 th	
<i>Syzygiumguineense</i> subsp. <i>guineense</i>	5	4	3	5	4	3	2	4	30	3.8	1.0	3 rd	
<i>Ziziphusabyssinica</i> Hochst ex. A. Rich.	3	2	2	4	2	2	2	3	20	2.5	0.7	10 th	
Rank	2 nd	3 rd	6 th	1 st	8 th	4 th	7 th	5 th					

Where, Ch = Charcoal, Co = Construction, Ut = Utensils, Fw = Firewood, Md = Medicinal, Ed = Edible, Fo=Forage, and Fe= Fencing