

**Table S3.** List of economically useful species based on herbarium sheets of the *Amaranthaceae* family deposited in the KRA herbarium.

Name of species	Native to [1]:	Uses	Parts of the plant	Selected references
<i>Achyranthes aspera</i> L.	Africa, south Asia and Australia, same country in Europe	Medicinal properties	all parts of the plant	[2–8]
<i>Aerva javanica</i> (Burm.f.) Juss. ex Schult.	Africa, south–west Asia	Medicinal properties	all parts of the plant	[9,10]
		Reclamation and regeneration of grasslands in areas degraded by grazing		[11]
		For stuffing pillows and scoops	flowers	[12]
<i>Aerva lanata</i> (L.) Juss.	Africa, south Asia	Medicinal properties	all parts of the plant	[5,13,14]
<i>Aerva leucura</i> Moq.	South Africa	For stuffing pillows and scoops	flowers	[12]
<i>Agriophyllum squarrosum</i> (L.) Moq.	East European Russia, Irkutsk, Kazakhstan, Krasnoyarsk, South European Russia, West Siberia	Food	seeds	[15]
		Animal feed	aerial parts of the plant	[15]
		Medicinal properties	seeds	[16–18]
		As a pioneer plant on dunes in arid or semi–arid regions		[16–18]
<i>Allmania nodiflora</i> (L.) R.Br. ex Wight	Assam, Borneo, China Southeast, East Himalaya, Hainan, India, Jawa, Laos, Lesser Sunda Is., Malaya, Philippines, Sri Lanka, Sumatera, Thailand, Vietnam	Food	leaves	[19]
		Medicinal properties		[19,20]
<i>Alternanthera caracasana</i> Kunth	Middle and South America	Medicinal properties	all parts of the plant	[21]
		Potential source of bioethanol for fuel production	all parts of the plant	[22]

<i>Alternanthera philoxeroides</i> (Mart.) Griseb.	North and Central South America	Medicinal properties		[13]
<i>Alternanthera pungens</i> Kunth	Middle and South America	Potential medicinal properties	aerial parts of the plant	[23]
<i>Alternanthera sessilis</i> (L.) R.Br. ex DC.	Middle and South America	Food	weed	[23]
		Medicinal properties	weed, leaves	[13,24–26]
<i>Alternanthera porrigens</i> (Jacq.) Kuntze	Bolivia, Chile Central, Chile North, Colombia, Ecuador, Peru	Medicinal properties	leaves, flowers	[27]
<i>Amaranthus blitum</i> L.	Argentina Northeast, Argentina Northwest, Bolivia, Brazil Northeast, Brazil South, Brazil Southeast, Brazil West–Central, Chile North, Paraguay, Peru, Uruguay	Food	leaves	[28–30]
		Medicinal properties		[13]
<i>Amaranthus caudatus</i> L.	Argentina Northwest, Bolivia, Ecuador, Peru	Food	seeds (pseudożboże)	[28,29]
<i>Amaranthus cruentus</i> L.	El Salvador, Guatemala, Honduras, Mexico Central, Mexico Gulf, Mexico Southeast, Mexico Southwest, Nicaragua	Medicinal properties	stems, leaves,	[1,27,31]
		Food	seeds (pseudożboże)	[1,28,29]
		Animal feed		[1]
<i>Amaranthus dubius</i> Mart. ex Thell.	Mexico to Tropical South America	Food	leaves	[28,29]
<i>Amaranthus hybridus</i> L.	S. Ontario to W. South America	Medicinal properties	leaves, flowers	[27]
<i>Amaranthus hypochondriacus</i> L.	Kansas, Mexico Central, Mexico Gulf, Mexico Northeast, Mexico Northwest, Mexico Southwest, Minnesota, Missouri, Nebraska, Texas, Wisconsin	Food	seeds (pseudożboże)	[28,29]
<i>Amaranthus retroflexus</i> L.	Mexico Central, Mexico Gulf, Mexico Northeast, Mexico Southeast, Mexico Southwest	Food	leaves, fruit	[32]
<i>Amaranthus spinosus</i> L.	Mexico to Tropical South America	Medicinal properties	all parts of the plant	[13,31,33]

		Food	leaves	[28,29]
<i>Amaranthus tricolor</i> L.	Assam, Bangladesh, Borneo, India, Jawa, Laos, Lesser Sunda Is., Line Is., Malaya, Maluku, Myanmar, Nepal, New Guinea, Philippines, Solomon Is., Sri Lanka, Sulawesi, Sumatera, Thailand, Vietnam	Medicinal properties		[13]
		Food	leaves	[28,29]
<i>Amaranthus viridis</i> L.	SE. Mexico to Tropical South America	Food	leaves	[28,29]
		Medicinal properties	roots, leaves, seeds	[5,13,14]
<i>Anabasis aphylla</i> L.	China North–Central, Iran, Kazakhstan, Kirgizstan, North Caucasus, South European Russi, Tadjhikistan, Transcaucasus, Turkmenistan, Uzbekistan, Xinjiang	Medicinal properties	stems	[34,35]
<i>Anabasis articulata</i> (Forssk.) Moq.	Algeria, Egypt, Gulf States, Iraq, Lebanon–Syria, Libya, Mauritania, Morocco, Palestine, Saudi Arabia, Sinai, Spain, Tunisia, Western Sahara	Medicinal properties		[36]
		As fuel (woody specimens)		
<i>Anabasis salsa</i> (Ledeb.) Benth. ex Volkens	Altay, East European Russia, Iran, Kazakhstan, Mongolia, South European Russi, Tadjhikistan, Transcaucasus, Turkmenistan, Uzbekistan, Xinjiang	Production of insecticides		[37]
<i>Arthrocnemum macrostachyum</i> (Moric.) K.Koch	Macaronesia, Medit. to S. Pakistan and Senegal, Angola, Arabian Peninsula	Medicinal properties	leaves, seeds	[38]
		Potential use in phytoremediation of cadmium–contaminated soils		
<i>Atriplex atacamensis</i> Phil.	Chile North, Peru	Potential use for phytoremediation of arsenic–contaminated sites		[39]

<i>Atriplex cana</i> Ledeb.	Altay, East European Russia, Kazakhstan, Kirgizstan, Krym, North Caucasus, South European Russi, Tadzhikistan, Transcaucasus, West Siberia, Xinjiang	Animal feed		[40]
<i>Atriplex canescens</i> (Pursh) Nutt.	W. Central Canada to Mexico : Alberta, Arizona, California, Colorado, Idaho, Kansas, Mexico Central, Mexico Gulf, Mexico Northeast, Mexico Northwest, Mexico Southeast, Montana, Nebraska, Nevada, New Mexico, North Dakota, Oklahoma, Oregon, South Dakota, Texas, Utah, Washington, Wyoming	Soil reclamation		[41]
<i>Atriplex farinosa</i> Forssk.	Egypt to NE. Tropical Africa, Arabian Peninsula: Djibouti, Egypt, Eritrea, Gulf States, Kenya, Oman, Saudi Arabia, Sinai, Socotra, Somalia, Sudan, Yemen	Medicinal properties		[42]
		Tested for insecticide production vs <i>Helicoverpa zea</i>		[43]
<i>Atriplex glauca</i> L.	Algeria, Canary Is., Egypt, Lebanon–Syria, Libya, Madeira, Mauritania, Morocco, Palestine, Portugal, Saudi Arabia, Sinai, Spain, Tunisia, Western Sahara	Medicinal properties	leaves	[43]
		Food	leaves (also dried)	[44]
		Animal feed		[41]
<i>Atriplex gmelinii</i> C.A.Mey. ex Bong.	Alaska, British Columbia, California, Kamchatka, Khabarovsk, Kuril Is., Magadan, Northwest Territorie, Oregon, Washington	Potential medicinal properties		[45]
<i>Atriplex halimus</i> L.	Algeria, Balears, Canary Is., Cape Verde, Corse, Cyprus, East Aegean Is., Egypt, Eritrea, Ethiopia, France, Greece, Iraq, Italy, Kriti, Lebanon–	Phytoextraction of heavy metals (arsenic–contaminated areas)		[39,46,47]
		Combating internal parasites (veterinary)		[43]

	Syria, Libya, Madeira, Mali, Mauritania, Morocco, Palestine, Portugal, Sardegna, Saudi Arabia, Sicilia, Sinai, Somalia, Spain, Tunisia, Turkey, Western Sahara	Medicinal properties		[38,48]
<i>Atriplex hortensis</i> L.	East European Russia, Iran, Kazakhstan, North Caucasus, South European Russia, Transcaucasus	Medicinal properties	leaves	[49]
		Food	leaves	[44]
<i>Atriplex leucoclada</i> Boiss.	Afghanistan, Egypt, Gulf States, Iran, Iraq, Kazakhstan, Kuwait, Lebanon–Syria, Oman, Pakistan, Palestine, Saudi Arabia, Sinai, Transcaucasus, Turkey, Turkmenistan, Uzbekistan, Yemen	Medicinal properties	leaves	[50]
<i>Atriplex lindleyi</i> Moq.	Australia	Medicinal properties		[51,52]
<i>Atriplex prostrata</i> Boucher ex DC.	Macaronesia to N. Xinjiang, E. Canada to E. U.S.A	Food	leaves	[32]
		Medicinal properties		[38]
<i>Atriplex rosea</i> L.	Europe to Medit. and Central Asia	Food	leaves	[32]
<i>Atriplex sagittata</i> Borkh.	Central and E. Europe to Central Asia	Food	leaves	[32]
<i>Atriplex semibaccata</i> R.Br.	Australia	improving vineyard productivity (agroforestry) groundcover for places with a lack of water		[32]
<i>Bassia muricata</i> (L.) Asch.	E. Medit., N. and NE. Africa, Arabian Peninsula	Medicinal properties	stems, flowers, seeds	[36,53]
<i>Beta vulgaris</i> L.	Azores, W. Europe to Medit. and India			
<i>Chenopodium acerifolium</i> Andrz.	Poland to Siberia	Medicinal properties	aerial parts of plant	[38]
<i>Chenopodium album</i> L.	Temp. to Indian Subcontinent	Medicinal properties	aerial part of plant	[5,14, 27]
		Food	leaves, fruits	[31,32]

<i>Chenopodium bonus-henricus</i> L.	Europa	Food	roots, leaves, flowers	[32,54]
		Medicinal properties	roots	[54]
<i>Chenopodium polyspermum</i> L.	Europe, E. Medit. to Siberia	Food	leaves	[32]
<i>Chenopodium quinoa</i> Willd.	Argentina Northwest, Bolivia, Chile North, Ecuador, Peru	Food	leaves, seeds (pseudozbože)	[55–59]
<i>Chenopodium urbicum</i> L.	Europe to Russian Far East and N. China	Food	leaves	[32]
<i>Cornulaca monacantha</i> Delile	Sahara to W. and SW. Pakistan	Medicinal properties	twigs, leaves	[36,53]
<i>Dysphania aristata</i> (L.) Mosyakin & Clemants	European Russia to Korea	Rapid growth generates a large amount of biomass, which is important when using the plant to synthesize AgNP silver nanoparticles (antibacterial effect)	stems	[60]
<i>Gomphrena globosa</i> L.	Brazil, Panama and Guatemala	Medicinal properties	leaves, flowers	[13,61–63]
<i>Gomphrena celosioides</i> Mart.	South America (Ecuador to N. Argentina)	Medicinal properties		[13]
<i>Halocnemum strobilaceum</i> (Pall.) M.Bieb.	N. Central Italy to SW. Siberia and N. China, NE. Tropical Africa to Arabian Peninsula	Medicinal properties	aerial parts of the plant	[36]
<i>Halosarcia indica</i> (Willd.) Paul G.Wilson	Coasts of Dry Tropical Africa to KwaZulu-Natal, Madagascar, Indian Subcontinent, Vietnam, Jawa to N. Australia	Medicinal properties		[5]
<i>Halostachys belangeriana</i> (Moq.) Botsch.	E. Türkiye to N. China and SW. Pakistan	Medicinal properties	leaves	[34]
<i>Haloxylon ammodendron</i> (C.A.Mey.) Bunge ex Fenzl	Afghanistan, China North–Central, Inner Mongolia, Iran, Kazakhstan, Kirgizstan, Mongolia, Qinghai, Tadzhikistan, Turkmenistan, Uzbekistan, Xinjiang	Medicinal properties	all plants	[34]
		Afforestation of dry areas in China and planted as shelter belts and for consolidating dunes		[34]
		Storage of water used during drought		[34]
<i>Iresine herbstii</i> Hook.	Peru	Medicinal properties	flowers	[27]

<i>Noaea mucronata</i> (Forssk.) Asch. & Schweinf.	Afghanistan, Algeria, Cyprus, East Aegean Is., Egypt, Greece, Iran, Iraq, Kriti, Lebanon–Syria, Libya, Morocco, North Caucasus, Palestine, Saudi Arabia, Sinai, Transcaucasus, Turkey, Turkey–in–Europe, Turkmenistan, Uzbekistan	Medicinal properties	leaves, flowers	[50]
<i>Salsola imbricata</i> Forssk.	Afghanistan, Algeria, Chad, Djibouti, Egypt, Eritrea, Gulf States, India, Iran, Iraq, Kuwait, Lebanon–Syria, Libya, Mauritania, Morocco, Niger, Oman, Pakistan, Palestine, Saudi Arabia, Senegal, Sinai, Somalia, Sudan, Western Sahara, Yemen	Medicinal properties		[5]
<i>Salsola vermiculata</i> L.	Algeria, Balears, Canary Is., Djibouti, Iran, Iraq, Lebanon–Syria, Mauritania, Morocco, Niger, Palestine, Portugal, Sardegna, Sicilia, Spain, Sudan, Transcaucasus, Tunisia  southwest of Asia	Medicinal properties	stem, leaves, roots, seeds	[50,64]
<i>Sarcocornia fruticosa</i> (L.) A.J.Scott	Albania, Algeria, Balears, Canary Is., Corse, Cyprus, Egypt, France, Greece, Iran, Italy, Lebanon–Syria, Libya, Morocco, Palestine, Portugal, Sardegna, Sicilia, Sinai, Spain, Tunisia, Turkey, Turkey–in–Europe, Yemen, Yugoslavia	Medicinal properties	all plants	[38]
<i>Spinacia oleracea</i> L.	Afghanistan, Iran, Kazakhstan, Kirgizstan, Pakistan, Tadzhikistan, Turkmenistan, Uzbekistan	Food	leaves	[65]

<i>Suaeda vermiculata</i> Forssk. ex J.F.Gmel.	Afghanistan, Algeria, Canary Is., Chad, Djibouti, Egypt, Eritrea, Gulf States, India, Iran, Iraq, Kuwait, Libya, Mauritania, Morocco, Oman, Palestine, Saudi Arabia, Senegal, Sicilia, Sinai, Socotra, Somalia, Spain, Sri Lanka, St.Helena, Sudan, Tunisia, Western Sahara, Yemen	Medicinal properties	all plants	[5,38]
<i>Suaeda maritima</i> (L.) Dumort.	Central & E. Canada to E. U.S.A., Europe to W. Siberia, Macaronesia, N. Africa to Indo-China	Medicinal properties	aerial parts of the plant	[38]
<i>Suaeda monoica</i> Forssk. ex J.F.Gmel.	Afghanistan, Botswana, Cape Provinces, Chad, Djibouti, Egypt, Eritrea, Ethiopia, Free State, India, Iran, Iraq, Kenya, Lebanon-Syria, Mozambique, Namibia, Oman, Pakistan, Palestine, Saudi Arabia, Sinai, Socotra, Somalia, Sri Lanka, Sudan, Tanzania, Yemen	Medicinal properties	aerial parts of the plant	[5]
<i>Traganum nudatum</i> Delile	Algeria, Egypt, Gulf States, Iraq, Kuwait, Lebanon-Syria, Libya, Mauritania, Morocco, Palestine, Saudi Arabia, Sinai, Tunisia, Western Sahara	Medicinal properties	stems, leaves	[36,53]
		Food	fruits	[36]
		Fuel	all plants	[36]

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