

*Juniperus communis* L.

4546

Cupressaceae

**Nomenclatural reference** 1217 Govaerts, R. (2022): The World Checklist of Vascular Plants (WCVP). – Royal Botanic Gardens, Kew. Checklist dataset of 2022-12-08. Retrieved from <https://sftp.kew.org/pub/data-repositories/WCVP/>, viewed 4.3.2023.

**Summary**

**Intrinsic Traits**

|              |                                                                                                                                                                                                                                                                                        |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Distribution | Juniperus communis is a species of the temperate and subarctic northern hemisphere. It is native in most of Europe, in the western parts of Northern Africa, in most of the Caucasus and Middle Asia, in Afghanistan, Pakistan, Nepal, China, Russia, Eastern Asia, and North America. |
| Abundance    | The local population sizes of Juniperus communis are regarded as scattered to frequent where they naturally occur.                                                                                                                                                                     |
| Habitat      | Common juniper grows in a variety of habitats including woodland, poor grassland, coastal areas and mountain slopes.                                                                                                                                                                   |
| Regeneration | The species is very slow growing and shows little or no vegetative spread.                                                                                                                                                                                                             |
| Reproduction | The flowers are mostly dioecious, rarely monoecious. They are pollinated by wind. The distribution of seeds is through birds. The seeds can be slow to germinate and the fruits take about 2-3 years to ripen.                                                                         |
| Plant Parts  | The plant part mainly used are the fruits.                                                                                                                                                                                                                                             |
| Lifeform     | Common juniper grows as an often prostrate perennial shrub or small tree. Shrubs reach a height of up to 4 m, trees of up to 10 m.                                                                                                                                                     |
| Systematics  | The genus Juniperus comprises 67 species of mostly northern hemispheric distribution, nine of them occur in Europe.                                                                                                                                                                    |

**Extrinsic Traits**

|               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Threat Status | Juniperus communis has been assessed globally by IUCN in 2013 as Least Concern and also as Least Concern for Europe in 2019. Several assessments on a national basis have been made: Endangered (1995) Juniperus communis has been assessed globally by IUCN as Least Concern (LC) in 2013 and also as Least Concern (LC) for Europe in 2019. Several assessments on a national basis have been made: Endangered (1995) and later Vulnerable (2007) in Albania; Vulnerable (1990) and later Endangered (2014) in the Netherlands; Endangered in Luxemburg; Vulnerable in Belgium; Least Concern in Denmark, Norway, and Switzerland; as Near Threatened (NT) in the United Kingdom; as Secure in the United States, and as „Vorwarnliste“ in Germany. |
| Threats       | Globally, this species is not threatened, although it is declining in some parts of its range. Poor natural regeneration is the main threat to the long-term preservation of juniper populations across the species' range. Changes in land management leading to loss of low-intensity grazed grasslands may locally lead to population declines.                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purpose       | The fruits of common juniper are used as flavouring agent, as essential oil, and especially for flavouring gin. The fruits are also used medicinally to treat digestive disorders and kidney and bladder problems and as an incense.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Use Fields    | 11 competing uses are reported [The underlying reference of use types distinguishes a total of 27 use categories. The average number of use types based on 137 well-studied species is 7].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Trade Trend   | Trade data are limited for this species. The harmonized system tariff code (HS Code) assigned to juniper fruit is shared with fennel fruit. Most of the juniper berry supply to North America and Europe is wild collected in Eastern European countries, while the juniper berry harvest in the Himalayas (India) is mainly for domestic markets. The scale of harvest in Albania and Bosnia-Herzegovina in 2001 was 300 and 400 tonnes respectively. Cultivation is reported from Spain, France, United Kingdom, Ireland, Italy and New Zealand, but volumes hereof are unknown.                                                                                                                                                                    |
| Legislation   | The species is not protected by CITES.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

**Taxonomy and Identification**

| <b>Taxonomy</b>                                                                                                                                                                                                          | <b>Reference</b>                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|
| genus: "67 N hemisph. (Eur. 9) to trop. Afr. mts & Wl"                                                                                                                                                                   | 3753 Mabberley, D.J. (2017): The plant-book. 4th ed |
| "As to be expected from the wide range, <i>J. communis</i> is very variable, with several infraspecific taxa; delimitation between the taxa is still uncertain, with genetic data not matching morphological data well." | 1135 Wikipedia. www.wikipedia.org                   |

## Synonyms

## Taxon Present in Pharmacopoeias and other References

| <b>Name as used in Source</b> | <b>Status</b> | <b>Reference</b>                                                                                                                                                                                                                                                                                                |
|-------------------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Juniperus communis</i> L.  | 2156          | FRLHT - Indian Medicinal Plants Database - <a href="http://www.medicinalplants.in/">http://www.medicinalplants.in/</a>                                                                                                                                                                                          |
| <i>Juniperus communis</i>     | 3145          | Brinckmann, J.A., Kathe, W., Berkhoudt, K., Harter, D.E.V. & Schippmann, U. (2022): A new global estimation of medicinal and aromatic plant species in commercial cultivation and their conservation status. <i>Economic Botany</i> 22(10): 1-15.                                                               |
| <i>Juniperus communis</i>     | 3751          | van Wyk, B.-E. & Wink, M. (2017): Medicinal plants of the world. 2nd edition. CABI, Wallingford & Boston.                                                                                                                                                                                                       |
| <i>Juniperus communis</i>     | 5253          | Özhatay, N., Koyuncu, M., Atay, S. & Byfield, A.J. (1997): The wild medicinal plant trade in Turkey. <i>Dogal Hayati Koruma Dernegi, Istanbul</i> .                                                                                                                                                             |
| <i>Juniperus communis</i>     | 5641          | Lange, D. (1998): Europe's medicinal and aromatic plants. Their use, trade and conservation. Traffic International, Cambridge.                                                                                                                                                                                  |
| <i>Juniperus communis</i>     | 8394          | Therapeutic Goods Administration (ed.) (2007): Substances that may be used in listed medicines in Australia. Therapeutic Goods Administration, Symonston. Retrieved from <a href="http://www.tga.gov.au/cm/listsubs.pdf">http://www.tga.gov.au/cm/listsubs.pdf</a> , viewed: 25.01.2009.                        |
| <i>Juniperus communis</i> L.  | 1101          | Hänsel, R. & al. (1992-1998): Hagers Handbuch der pharmazeutischen Praxis. 5. Auflage. 5 volumes [4179, 4180, 4181, 6097, 6098]                                                                                                                                                                                 |
| <i>Juniperus communis</i> L.  | 1180          | GRIN (17.3.2015): Download World Economic Plants report from GRIN Taxonomy for the query. Medizin = 'Alle Nutzungen'. Retrieved from <a href="http://www.ars-grin.gov/cgi-bin/npgs/html/taxecon.pl?language=de">http://www.ars-grin.gov/cgi-bin/npgs/html/taxecon.pl?language=de</a>                            |
| <i>Juniperus communis</i> L.  | 2302          | Native American Ethnobotany Database - <a href="http://naeb.brit.org/">http://naeb.brit.org/</a>                                                                                                                                                                                                                |
| <i>Juniperus communis</i> L.  | 3145          | Brinckmann, J.A., Kathe, W., Berkhoudt, K., Harter, D.E.V. & Schippmann, U. (2022): A new global estimation of medicinal and aromatic plant species in commercial cultivation and their conservation status. <i>Economic Botany</i> 22(10): 1-15.                                                               |
| <i>Juniperus communis</i> L.  | 3221          | Goraya, G.S. & Ved, D.K. (2017): Medicinal plants in India. An assessment of their demand and supply. National Medicinal Plants Board & Indian Council of Forestry Research & Education, New Delhi & Dehradun. Retrieved from <a href="http://www.rcfcast.org/wp-content">http://www.rcfcast.org/wp-content</a> |
| <i>Juniperus communis</i> L.  | 3561          | Quattrocchi, U. (2012): World dictionary of medicinal and poisonous plants. Common names, scientific names, eponyms, synonyms, and etymology. CRC Press, Boca Raton.                                                                                                                                            |
| <i>Juniperus communis</i> L.  | 5473          | Moerman, D.E. (1998): Native American ethnobotany. Timber Press, Portland.                                                                                                                                                                                                                                      |
| <i>Juniperus communis</i> L.  | 6369          | McGuffin, M., Kartesz, J.T., Leung, A.Y. & Tucker, A.O. (2000): Herbs of commerce. 2nd edition. AHPA, Silver Spring, USA.                                                                                                                                                                                       |
| <i>Juniperus communis</i> L.  | 7279          | van Wyk, B.-E. & Wink, M. (2004): Medicinal plants of the world. Timber Press, Portland.                                                                                                                                                                                                                        |
| <i>Juniperus communis</i> L.  | 8375          | Medicines and Healthcare Products Regulatory Agency (2008): British Pharmacopoeia 2009. 4 volumes. Stationery Office, London.                                                                                                                                                                                   |
| <i>Juniperus communis</i> L.  | 8380          | European Directorate for the Quality of Medicines & Health Care (EDQM) (ed.) (2007-2009): European Pharmacopoeia. 6th edition. 2 volumes and 8 supplements. Council of Europe, Strasbourg.                                                                                                                      |
| <i>Juniperus communis</i> L.  | 8395          | Comisión Permanente de la Farmacopea de los Estados Unidos Mexicanos (ed.) (2001): Farmacopea herbolaria de los Estados Unidos Mexicanos. Secretaría de Salud, México D.F.                                                                                                                                      |
| <i>Juniperus communis</i> L.  | 8418          | Brandão, M.G.L., Cosenza, G.P., Assis Moreira, R. & Monte-Mor, R.L.M. (2006): Medicinal plants and other botanical products from the Brazilian Official Pharmacopoeia. <i>Revista Brasileira de Farmacognosia</i> 16 (3): 408-420.                                                                              |
| <i>Juniperus communis</i> L.  | 8450          | Homoeopathic Pharmacopoeia of the United States (s.dat.): HPUS Online Database. Retrieved from <a href="http://www.hpus.com">http://www.hpus.com</a> , viewed: 26.10.2009.                                                                                                                                      |
| <i>Juniperus communis</i> L.  | 8545          | Anon. (2009): International Standard ISO 4720. Third edition 2009-08-15. Essential oils. Nomenclature (in English and French). International Organization for Standardization, Geneva.                                                                                                                          |
| <i>Juniperus communis</i> L.  | 8547          | Ved, D.K. & Goraya, G.S. (2008): Demand and supply of medicinal plants in India. FRLHT, Bangalore.                                                                                                                                                                                                              |
| <i>Juniperus communis</i> L.  | 8875          | European Directorate for the Quality of Medicines & Health Care (EDQM) (2012): European Pharmacopoeia. Pharmacopée Européenne. 7.8 edition. USB stick version. Council of Europe, Strasbourg.                                                                                                                   |

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|------------------------------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <i>Juniperus communis</i> L.       | 8921 | Anon. (2009): Medicamentos herbarios tradicionales. 103 especies vegetales. Gobierno de Chile, Ministerio de Salud, Santiago de Chile. Retrieved from <a href="https://www.minsal.cl/sites/default/files/files/Libro%20MHT%202010.pdf">https://www.minsal.cl/sites/default/files/files/Libro%20MHT%202010.pdf</a> , viewed: 23.09.2012. |
| <i>Juniperus communis</i> L.       | 9301 | Comisión Permanente de la Farmacopea de los Estados Unidos Mexicanos (ed.) (2013): Farmacopea herbolaria de los Estados Unidos Mexicanos. Ed. 2. Secretaria de Salud, México D.F.                                                                                                                                                       |
| <i>Juniperus communis</i> Linn     | 8388 | Anon. (1999-2011): The Ayurvedic Pharmacopoeia of India. Part I, Vol. I-VII, 1st edition. Government of India, Ministry of Health and Family Welfare, . Retrieved from <a href="http://www.ayurveda.hu/api.html">http://www.ayurveda.hu/api.html</a> , viewed: 14.05.2012.                                                              |
| <i>Juniperus communis</i> Linn     | 8390 | Anon. (2007-2008): The Unani Pharmacopoeia of India. Vols. 1-5. Government of India, Ministry of Health and Family Welfare, New Delhi.                                                                                                                                                                                                  |
| <i>Juniperus communis</i> Linnaeus | 8396 | International Organization for Standardization (s.dat.): ISO Catalogue. Retrieved from <a href="http://www.iso.org/iso/iso_catalogue.htm">http://www.iso.org/iso/iso_catalogue.htm</a> , viewed: 22.01.2009.                                                                                                                            |

## Common Names

| Common Name       | Typ | Language | Country | Ref                                               |
|-------------------|-----|----------|---------|---------------------------------------------------|
| Common juniper    | ver | English  | 9972    | Farjon, A. (2013): <i>Juniperus communis</i> . Th |
| Dwarf juniper     | ver | English  | 9972    |                                                   |
| Enebro            | ver | Spanisch | 9972    |                                                   |
| Gemeine Wacholder | ver | German   | 1180    | GRIN (17.3.2015): Download World Econo            |
| Genévrier         | ver | French   | 9972    | Farjon, A. (2013): <i>Juniperus communis</i> . Th |
| Genévrier commun  | ver | French   | 9972    |                                                   |
| Genévrier nain    | ver | French   | 9972    |                                                   |
| Ginepro           | ver |          | 1180    | GRIN (17.3.2015): Download World Econo            |
| Ginepro comune    | ver |          | 1180    |                                                   |
| Ginepro nano      | ver | Spanish  | 9972    | Farjon, A. (2013): <i>Juniperus communis</i> . Th |
| Heide-Wacholder   | ver | German   | 1180    | GRIN (17.3.2015): Download World Econo            |
| juniper           | scn |          | 6369    | McGuffin, M., Kartesz, J.T., Leung, A.Y. &        |
| Juniper           | ver | English  | 9972    | Farjon, A. (2013): <i>Juniperus communis</i> . Th |
| Malchangel        | ver |          | 9972    |                                                   |
| Mountain juniper  | ver | English  | 9972    |                                                   |
| Prostrate juniper | ver | English  | 9972    |                                                   |
| Wacholder         | ver | German   | 1180    | GRIN (17.3.2015): Download World Econo            |
| Zimbreiro         |     |          | 1180    |                                                   |

## Distribution Range

| Distribution Range                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Ref                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| "Afghanistan, Alabama, Alaska, Albania, Algeria, Altay, Amur, Arizona, Austria, Baltic States, Belarus, Belgium, British Columbia, Bulgaria, Buryatiya, California, Central European Rus, Chita, Colorado, Connecticut, Corse, Cyprus, Czechoslovakia, Denmark, East Aegean Is., East European Russia, Finland, France, Føroyar, Georgia, Germany, Great Britain, Greece, Greenland, Hungary, Iceland, Idaho, Illinois, Indiana, Inner Mongolia, Iowa, Iran, Iraq, Ireland, Irkutsk, Italy, Japan, Kamchatka, Kazakhstan, Kentucky, Khabarovsk, Kirgizstan, Korea, Krasnoyarsk, Krym, Kuril Is., Labrador, Lebanon-Syria, Magadan, Maine, Manchuria, Maryland, Massachusetts, Michigan, Minnesota, Mongolia, Montana, Morocco, Nebraska, Nepal, Netherlands, Nevada, New Brunswick, New Hampshire, New Jersey, New Mexico, New York, Newfoundland, North Carolina, North Caucasus, North Dakota, North European Russi, Northwest European R, Northwest Territorie, Norway, Nova Scotia, Nunavut, Ohio, Ontario, Oregon, Pakistan, Pennsylvania, Poland, Portugal, Primorye, Prince Edward I., Québec, Rhode I., Romania, Sakhalin, Sardegna, Sicilia, South Carolina, South Dakota, South European Russi, Spain, Sweden, Switzerland, Tadzhikistan, Tennessee, Transcaucasus, Turkey, Turkey-in-Europe, Turkmenistan, Tuva, Ukraine, Utah, Uzbekistan, Vermont, Virginia, Washington, West Himalaya, West Siberia, West Virginia, Wisconsin, Wyoming, Xinjiang, Yakutskiya, Yugoslavia, Yukon" | 1192 Plants of the World Online (POWO). Royal B                          |
| "Der Gemeine Wacholder ist das am weitesten verbreitete Nadelgehölz, zumindest wenn man die Unterarten bzw. Varietäten mit einbezieht. Das Verbreitungsgebiet des Gemeinen Wacholders erstreckt sich in der biogeographischen Region der Holarktis von Nordamerika über Südgrönland, Nordafrika, Europa, Vorderasien, Nordasien und Zentralasien bis nach Ostasien. Selbst in den nördlichsten Randgebieten Südsasiens ist er anzutreffen und besiedelt mit seinen sieben Varietäten Lebensräume bis zu 4.050 m Höhe."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 1135 Wikipedia. <a href="http://www.wikipedia.org">www.wikipedia.org</a> |
| "Eur.*, TR, Cauc., Him., W-Sib., E-Sib., Amur, Sachal., Kamchat., Manch., Korea, Jap., Maroc., Alger., Can., USA* exc. Fla."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6637 Erhardt, W., Götz, E., Bödeker, N. & Seybol                         |
| "Eurasatisch-nordamerikanische Pflanze. Ganz Europa, im Süden nur in den Gebirgen, in Russland südlich bis 50° NB; Nordafrika; Krim, Kaukasus, in Asien südwärts bis in den Himalaja, ostwärts bis Japan und Kamtschatka; in Nordamerika südwärts bis zur Sierra Nevada im Westen und 45° NB im Osten; Süd-Grönland."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8702 Sebold, O., Seybold, S. & Pilippi, G. (ed.) (1                      |

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|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------------------------------------------|
| "Europa, von der Küste des Eismeers südlich bis Zentralspanien, Sierra Nevada, Sizilien, Peloponnes, nordafrikanische Gebirge, in Rußland südlich bis etwa zum 50. Breitengrad, Krim, Nordasien östlich bis Kamtschatka, Sachalin, Japan, südlich bis zum Altai, größere isolierte Areale im Kaukasus, in den nordpersischen gebirgen, von Tien-Schan bis zum Himalaya, Südgrönland, Nordamerika von Labrador und Alaska südwärts bis Oklahoma und Neu-Mexiko"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 1132 | Hegi, Illustrierte Flora von Mitteleuropa     |
| "its native range is Subarctic & Temp. Northern Hemisphere"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 1192 | Plants of the World Online (POWO). Royal B    |
| "Juniperus communis is the most widely distributed conifer species in the world, with a circumpolar distribution extending from ca. 70° N in Alaska, Scandinavia and Siberia to ca. 28° N in the Himalaya."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 9972 | Farjon, A. (2013): Juniperus communis. The    |
| "Native: Afghanistan; Albania; Andorra; Armenia (Armenia); Austria; Azerbaijan; Belgium; Bulgaria; Canada (Alberta, British Columbia, Labrador, Manitoba, New Brunswick, Newfoundland I, Northwest Territories, Nova Scotia, Ontario, Prince Edward I., Quebec, Saskatchewan, Yukon); China (Heilongjiang, Jilin, Liaoning, Nei Mongol, Xinjiang); Cyprus; Czech Republic; Denmark; Estonia; Faroe Islands; Finland; France (Corsica); Georgia (Abkhazija); Germany; Gibraltar; Greece (Kriti); Greenland; Hungary; Iceland; India (Himachal Pradesh, Jammu-Kashmir, Uttar Pradesh); Iran, Islamic Republic of; Iraq; Ireland; Italy (Sardegna); Japan; Kazakhstan; Korea, Democratic People's Republic of; Korea, Republic of; Kyrgyzstan; Latvia; Lebanon; Malta; Moldova; Monaco; Mongolia; Montenegro; Nepal; Netherlands; Norway; Pakistan; Poland; Portugal; Romania; Russian Federation (Altay, Amur, Buryatiya, Chita, Dagestan, Irkutsk, Kabardino-Balkariya, Kamchatka, Karachaevo-Cherkessiya, Khabarovsk, Krasnodar, Krasnoyarsk, Kuril Is., Magadan, Primoryi, Sakhalin, Severo-Osetiya, Stavropol, Tuva, West Siberia, Yakutiya); San Marino; Serbia (Serbia); Spain (Balears); Sweden; Switzerland; Tajikistan; Turkey; Turkmenistan; Ukraine; United Kingdom; United States (Alaska, Arizona, California, Colorado, Connecticut, Georgia, Georgia, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Maine, Massachusetts, Michigan, Minnesota, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming); Uzbekistan" | 9972 | Farjon, A. (2013): Juniperus communis. The    |
| "North temperate region (Europe, Asia and North America)"                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 7279 | van Wyk, B.-E. & Wink, M. (2004): Medicinal   |
| "Recorded from temperate Eurasia, North Africa, North America N of Mexico [...] with a circumpolar distribution extending from ca. 70° N in Alaska, Scandinavia and Siberia to ca. 28° N in the Himalaya."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 9972 | Farjon, A. (2013): Juniperus communis. The    |
| "The species has the largest geographical range of any woody plant, with a circumpolar distribution throughout the cool temperate Northern Hemisphere from the Arctic south in mountains to around 30°N latitude in North America, Europe and Asia.[16] Relict populations can be found in the Atlas Mountains of Africa."                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 1135 | Wikipedia. www.wikipedia.org                  |
| Biome: Boreo-temperate (in conifer and broadleaf zones); Eastern limit: Circumpolar (in Europe, Asia and N America)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 8733 | Hill, M.O., Preston, C.D. & Roy, D.B. (19.11. |
| Native in AFRICA: Algeria, Morocco; ASIA-TEMPERATE: Afghanistan, Azerbaijan, China, Georgia, Japan, Kazakhstan, Korea, Kyrgyzstan, Russian Federation, Tajikistan, Turkey; ASIA-TROPICAL: Nepal, Pakistan; EUROPE: Albania, Austria, Belarus, Belgium, Bulgaria, Denmark, Estonia, Finland, Former Yugoslavia, France, Germany, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Moldova, Netherlands, Norway, Poland, Portugal, Romania, Russian Federation, Spain, Sweden, Switzerland, Ukraine, United Kingdom; NORTHERN AMERICA: Canada, United States, also cultivated.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1100 | GRIN Database (Germplasm Resources Info       |

## Distribution

| Continent | Region                 | ICC | Status | Free Text | Ref  |
|-----------|------------------------|-----|--------|-----------|------|
| 1 Europe  | 10 Northern Europe     | DK  | native |           | 1100 |
|           |                        | FI  | native |           | 1100 |
|           |                        | GB  | native |           | 8733 |
|           |                        | IE  | native |           | 1100 |
|           |                        | NO  | native |           | 1100 |
|           |                        | SE  | native |           | 1100 |
|           | 11 Middle Europe       | AT  | native |           | 1100 |
|           |                        | BE  | native |           | 1100 |
|           |                        | CH  | native |           | 1100 |
|           |                        | DE  | native |           | 1100 |
|           |                        | HU  | native |           | 1100 |
|           |                        | NL  | native |           | 1100 |
|           | 12 Southwestern Europe | PL  | native |           | 1100 |
|           |                        | ES  | native |           | 1100 |
|           |                        | FR  | native |           | 1100 |
|           |                        | GB  | native |           | 1100 |
|           |                        | IT  | native |           | 1100 |
|           |                        | PT  | native |           | 1100 |
|           | 13 Southeastern Europe | AL  | native |           | 1100 |
|           |                        | BG  | native |           | 1100 |

|    |                  |    |                     |                |                     |                       |                      |                      |        |           |      |
|----|------------------|----|---------------------|----------------|---------------------|-----------------------|----------------------|----------------------|--------|-----------|------|
|    |                  |    | 14                  | Eastern Europe | GR                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | RO                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | YY                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | BY                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | EE                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | LT                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | LV                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | MD                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | UA                  | native                |                      | 1100                 |        |           |      |
|    |                  |    |                     |                | 2                   | Africa                | 20                   | Northern Africa      | DZ     | native    |      |
| MA | native           |    | 1100                |                |                     |                       |                      |                      |        |           |      |
| 3  | Asia-Temperate   | 31 | Russian Far East    | RU             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | RU             | native              |                       | 1100                 |                      |        |           |      |
|    |                  | 32 | Middle Asia         | KG             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | KZ             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | TJ             | native              |                       | 1100                 |                      |        |           |      |
|    |                  | 33 | Caucasus            | AZ             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | GE             | native              |                       | 1100                 |                      |        |           |      |
|    |                  | 34 | Western Asia        | AF             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | TR             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     |                |                     | 36                    | China                | CN                   | native | 1100      |      |
| 38 | Eastern Asia     |    |                     |                |                     | JP                    | native               | 1100                 |        |           |      |
| 4  | Asia-Tropical    | 40 | Indian Subcontinent | KR             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | NP             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | PK             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     |                |                     |                       |                      |                      |        |           |      |
| 7  | Northern America | 70 | Subarctic America   | CA             | native              |                       | 1100                 |                      |        |           |      |
|    |                  |    |                     | CA             | native              | Northwest Territories | 1107                 |                      |        |           |      |
|    |                  |    |                     | CA             | native              | Nunavut               | 1107                 |                      |        |           |      |
|    |                  |    |                     | CA             | native              | Yukon                 | 1107                 |                      |        |           |      |
|    |                  |    |                     | DK             | native              | Greenland             | 1107                 |                      |        |           |      |
|    |                  |    |                     | US             | native              | Alaska                | 1107                 |                      |        |           |      |
|    |                  |    |                     | 71             | Western Canada      | CA                    | native               | New Brunswick        | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | Alberta              | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | Manitoba             | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | British Columbia     | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | Saskatchewan         | 1107   |           |      |
|    |                  |    |                     | 72             | Eastern Canada      | CA                    | native               | Québec               | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | Ontario              | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | Newfoundland         | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | Nova Scotia          | 1107   |           |      |
|    |                  |    |                     |                |                     | CA                    | native               | Labrador             | 1107   |           |      |
|    |                  |    |                     | 73             | Northwestern U.S.A. | CA                    | native               | Prince Edward Island | 1107   |           |      |
|    |                  |    |                     |                |                     | PM                    | native               |                      | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Oregon               | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Montana              | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Wyoming              | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Colorado             | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Washington           | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Idaho                | 1107   |           |      |
|    |                  |    |                     |                |                     | 74                    | North-Central U.S.A. | US                   | native |           | 1100 |
|    |                  |    |                     |                |                     |                       |                      | US                   | native | Wisconsin | 1107 |
|    |                  |    |                     | US             | native              |                       |                      | South Dakota         | 1107   |           |      |
|    |                  |    |                     | US             | native              |                       |                      | Iowa                 | 1107   |           |      |
|    |                  |    |                     | US             | native              |                       |                      | Illinois             | 1107   |           |      |
|    |                  |    |                     | US             | native              |                       |                      | Nebraska             | 1107   |           |      |
|    |                  |    |                     | US             | native              |                       |                      | North Dakota         | 1107   |           |      |
|    |                  |    |                     | US             | native              |                       |                      | Minnesota            | 1107   |           |      |
|    |                  |    |                     | 75             | Northeastern U.S.A. | US                    | native               | Massachusetts        | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | New York             | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | West Virginia        | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Ohio                 | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Pennsylvania         | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | Rhode Island         | 1107   |           |      |
|    |                  |    |                     |                |                     | US                    | native               | New Hampshire        | 1107   |           |      |
|    |                  |    |                     |                |                     |                       |                      |                      |        |           |      |

|    |                      |    |        |                |      |
|----|----------------------|----|--------|----------------|------|
|    |                      | US | native | Vermont        | 1107 |
|    |                      | US | native | Michigan       | 1107 |
|    |                      | US | native | Connecticut    | 1107 |
|    |                      | US | native | New Jersey     | 1107 |
|    |                      | US | native | Indiana        | 1107 |
|    |                      | US | native | Maine          | 1107 |
| 76 | Southwestern U.S.A.  | US | native | Utah           | 1107 |
|    |                      | US | native | Arizona        | 1107 |
|    |                      | US | native | California     | 1107 |
|    |                      | US | native | Nevada         | 1107 |
| 77 | South-Central U.S.A. | US | native | New Mexico     | 1107 |
| 78 | Southeastern U.S.A.  | US | native | Kentucky       | 1107 |
|    |                      | US | native | Alabama        | 1107 |
|    |                      | US | native | Maryland       | 1107 |
|    |                      | US | native | Delaware       | 1107 |
|    |                      | US | native | Georgia        | 1107 |
|    |                      | US | native | Virginia       | 1107 |
|    |                      | US | native | South Carolina | 1107 |
|    |                      | US | native | North Carolina | 1107 |

## Abundance / Local Population Size

| ICC | Abundance                                                          | Reference                              |
|-----|--------------------------------------------------------------------|----------------------------------------|
|     | "it can obtain local dominance after disturbances (non-fire)"      | 9972 Farjon, A. (2013): Juniperus con  |
| GB  | typical abundance where naturally occurring: scattered to frequent | 1137 Ecological Flora of the British I |

## Ecology

| TypeEc | ICC | Ecology                                                                                                                                                                                                                                       | Ref                                                                       |
|--------|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|
| alti   |     | "altitude ranges from 5 m to 2,400 m a.s.l."                                                                                                                                                                                                  | 9972 Farjon, A. (2013): Juniperus con                                     |
| alti   |     | "From coastal areas to mountain slopes."                                                                                                                                                                                                      | 1111 Ecoport. FAO. - <a href="https://gaez.fao">https://gaez.fao</a>      |
| grow   |     | "außerordentlich langsames Wachstum"                                                                                                                                                                                                          | 1132 Hegi, Illustrierte Flora von Mittele                                 |
| grow   |     | "tends to grow very slowly, as little as a few centimetres a year"                                                                                                                                                                            | 8604 Anon. (s.dat.): Trees@Kew. Ret                                       |
| grow   |     | "usually very slow growing, often only a few centimetres a year"                                                                                                                                                                              | 1123 Plants for a Future - <a href="http://www.pfaf.org">www.pfaf.org</a> |
| habit  |     | "Auf sonnigen Magerweiden, an Felsen und in lichten Wäldern."                                                                                                                                                                                 | 1135 Wikipedia. <a href="http://www.wikipedia.org">www.wikipedia.org</a>  |
| habit  |     | "both broad-leaf and coniferous forest (especially Pinus sylvestris-Betula spp.-Quercus spp.), in which it can obtain local dominance after disturbances (non-fire). It is also prevalent in the ecotone between open woodland and grassland" | 9972 Farjon, A. (2013): Juniperus con                                     |
| habit  |     | "pioneer woodland species, occupying natural rock outcrops and other places [...] in woodland and light forest, both broad-leaf and coniferous forest."                                                                                       | 9972                                                                      |
| habit  |     | [for the genus] "junipers span diverse ecological contexts (e.g. wet acidic moors versus dry calcareous grasslands) and therefore may express differential adaptation to different climate and soil conditions"                               | 3861 Jacquemart, A.L., Buyens, C., D                                      |
| habit  | DE  | "Auf Magerweiden, an Felsen und in lichten, trockenen Wäldern." "Urwüchsig im Felsgebüsch, als Weidezeiger auf Magerrasen (Mesobromion, Violion)."                                                                                            | 8702 Sebald, O., Seybold, S. & Pilipp                                     |
| habit  | GB  | "Calcareous grassland; Dwarf shrub heath; Montane habitats; Inland rock."                                                                                                                                                                     | 8733 Hill, M.O., Preston, C.D. & Roy,                                     |
| habit  | GB  | "grazed grasslands"                                                                                                                                                                                                                           | 1144 BSBI Species Accounts. - <a href="http://">http://</a>               |
| regen  |     | Little or no vegetative spread                                                                                                                                                                                                                | 1137 Ecological Flora of the British Is                                   |
| regen  |     | Little or no vegetative spread                                                                                                                                                                                                                | 8733 Hill, M.O., Preston, C.D. & Roy,                                     |
| regen  |     | rooting twigs                                                                                                                                                                                                                                 | 1137 Ecological Flora of the British Is                                   |
| repro  |     | "Beerenzapfen werden durch Vögel endozoisch verbreitet" "Samen sind schwer keimbar"                                                                                                                                                           | 1132 Hegi, Illustrierte Flora von Mittele                                 |
| repro  |     | "Bestäubung mit Hilfe eines Mikrophylartropfens, der den durch den Wind verbreiteten Pollen auffängt. [...] Die Wacholderbeeren werden von Vögeln gefressen und endozoisch verbreitet"                                                        | 8702 Sebald, O., Seybold, S. & Pilipp                                     |
| repro  |     | "birds eat the berries and then distribute the indigestible seeds through their droppings"                                                                                                                                                    | 8604 Anon. (s.dat.): Trees@Kew. Ret                                       |
| repro  |     | "flowers are dioecious [...] and pollinated by wind. The plant is not self-fertile"                                                                                                                                                           | 1123 Plants for a Future - <a href="http://www.pfaf.org">www.pfaf.org</a> |
| repro  |     | "It is dioecious, with male and female cones on separate plants so requiring wind pollination to transfer pollen from male to female cones."                                                                                                  | 1135 Wikipedia. <a href="http://www.wikipedia.org">www.wikipedia.org</a>  |
| repro  |     | "Meist zweihäusig (diözisch), selten einhäusig (monözisch), sehr selten mit Zwitterblüten"                                                                                                                                                    | 1132 Hegi, Illustrierte Flora von Mittele                                 |
| repro  |     | "Pollen wird aus den Deckschuppen ausgeweht. Es findet Verdauungsverbreitung durch Wacholderdrosseln (auch: Krammetsvögel), Amseln und Birkhühner statt."                                                                                     | 1135 Wikipedia. <a href="http://www.wikipedia.org">www.wikipedia.org</a>  |
| repro  |     | "seed can be very slow to germinate [...] some might germinate the following spring, though most will take another year [...] the fruits take 2-3 years to ripen"                                                                             | 1123 Plants for a Future - <a href="http://www.pfaf.org">www.pfaf.org</a> |
| repro  |     | "The seeds are dispersed when birds eat the cones, digesting the fleshy scales and passing the hard, unwinged seeds in their droppings."                                                                                                      | 1135 Wikipedia. <a href="http://www.wikipedia.org">www.wikipedia.org</a>  |
| repro  |     | Dicliny: dioecious; Fertilization: obligatory cross; Pollen vector: wind; Dispersal agent: eaten by birds                                                                                                                                     | 1137 Ecological Flora of the British Is                                   |
| repro  |     | dioecious                                                                                                                                                                                                                                     | 1138 BiolFlor - Datenbank biologisch-                                     |
| repro  |     | Pollination: wind                                                                                                                                                                                                                             | 1138                                                                      |

|       |                                              |      |
|-------|----------------------------------------------|------|
| repro | Reproduction: by seed                        | 1138 |
| repro | Type of seed production: amphimictic, sexual | 1138 |

## Life Form

| LF_Standard    | Duration    | Lifeform                                          | Woodiness | Height                      | Ref                                      |
|----------------|-------------|---------------------------------------------------|-----------|-----------------------------|------------------------------------------|
| perennial herb |             | chamaephyte or phanerophyte                       |           |                             | 1126 World Checklist of Selected PI      |
|                |             | chamaephyte or phanerophyte                       |           |                             | 1126 World Checklist of Selected PI      |
| shrub          |             | Nanophanerophyte                                  |           |                             | 1138 BiolFlor - Datenbank biologisch     |
| shrub          |             | shrub                                             |           | 10(-16)m                    | 1135 Wikipedia. www.wikipedia.org        |
| tree           |             |                                                   |           |                             | 3221 Goraya, G.S. & Ved, D.K. (201       |
| tree           |             | Macrophanerophyte                                 |           |                             | 1138 BiolFlor - Datenbank biologisch     |
| shrub          | perennial   | shrub                                             |           | "to 9m (29ft) by 4m (13ft)" | 1123 Plants for a Future - www.pfaf.     |
| shrub          | perennial   | shrub                                             |           |                             | 8359 Mabberley, D.J. (2008): The pl      |
| shrub or tree  | perennial   |                                                   |           | up to 12 m                  | 8702 Sebald, O., Seybold, S. & Pilip     |
| shrub or tree  | perennial   |                                                   |           | "to 4 m (if trees, to 10 m) | 8605 Anon. (s.dat.): Flora of North A    |
| shrub or tree  | perennial   |                                                   |           | up to 12 m                  | 1101 Hänsel, R. & al. (1992-1998):       |
| shrub or tree  | perennial   |                                                   |           |                             | 1134 USDA NRCS Plants Database.          |
| shrub or tree  | perennial   |                                                   |           | up to 12 m                  | 1132 Hegi, Illustrierte Flora von Mittel |
| tree           | perennial   | phanerophyte                                      |           | 10-500(-1000)cm             | 1137 Ecological Flora of the British I   |
| tree           | perennial   | mega-, meso- and microphanerophyte or chamaephyte | woody     | up to 500cm                 | 8733 Hill, M.O., Preston, C.D. & Roy     |
|                | pluriennial |                                                   |           |                             | 1138 BiolFlor - Datenbank biologisch     |

## Threat Situation

| ICC | PopulationStatus                                                                                                                                                                                                                                                                                                                                                          | Ref                                  |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
|     | "Globally, this species or any of its varieties are not threatened with extinction."                                                                                                                                                                                                                                                                                      | 9972 Farjon, A. (2013): Juniperus co |
|     | "In northwestern Europe, Juniperus communis [...] has been declining for the past century and largely exists in small, isolated and senescent populations."                                                                                                                                                                                                               | 3861 Jacquemart, A.L., Buyens, C.,   |
|     | "No range wide threats have been identified for this species."                                                                                                                                                                                                                                                                                                            | 9972 Farjon, A. (2013): Juniperus co |
|     | "Poor natural regeneration is recognized as the main threat to the long-term preservation of juniper populations across species range."                                                                                                                                                                                                                                   | 3861 Jacquemart, A.L., Buyens, C.,   |
|     | "strongly declining in North Atlantic and Central European countries [...] due to poor regeneration by seeds, even after habitat restoration"                                                                                                                                                                                                                             | 3861                                 |
|     | "While it is struggling to survive in some areas, e.g. England, it is increasing elsewhere; both phenomena in its population dynamics are related to shifts in agricultural practices and general land use"                                                                                                                                                               | 9972 Farjon, A. (2013): Juniperus co |
| DE  | "Als die Beweidung von Magerstandorten nicht mehr rentabel war, wurden die meisten Flächen durch Aufforstung und natürlichen Bewuchs wieder zu Wald (und damit für den Wacholder zu schattig), etliche Flächen auch Mähwiesen und Ackerland."                                                                                                                             | 8702 Sebald, O., Seybold, S. & Pilip |
| DE  | "Lediglich in Gebieten, in denen er schon früher selten war, und an den Rändern des Areals ist die Pflanze stärker zurückgegangen und stellenweise verschwunden."                                                                                                                                                                                                         | 8702                                 |
| GB  | "Although susceptible to overgrazing, some grazing can be beneficial to create the open sward necessary for seedling establishment. Other limits to regeneration are: progressively ageing stands in which male plants predominate; increasing fragmentation of stands that reduces pollination efficacy; and high seed dormancy with consequent variable germinability." | 8843 Thomas, P.A., El-Barghathi, M   |
| GB  | "characteristic light-demanding invader of pasture but has declined due to agricultural expansion, erosion, overgrazing, fire and poor regeneration, such that it is now rare and threatened across lowland/southern Europe."                                                                                                                                             | 8843                                 |
| GB  | "listed as Least Concern by Cheffings & Farrell (2005) but with a Change Index of -0.42 it is apparently declining quite rapidly." [see: 8224]                                                                                                                                                                                                                            | 1144 BSBI Species Accounts. - http:  |

## Threat Status: Global and Supranational

| Glo | Threat Category | Criteria                                           | Ass.     | Publ. | Ref                                                                                                                                                                                                                   |
|-----|-----------------|----------------------------------------------------|----------|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| glo | LC              | Least Concern                                      | 2011     | 2023  | 1223 2023 IUCN Red List of Threatened Species. Version 2023-1. www.iucnredlist.org. Download of plant data received from IUCN website 16.12.2023.                                                                     |
|     |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Name used in redlist: <i>Juniperus communis</i> L.                                                                                                                                                                    |
| Eur | LC              | Least Concern                                      |          | 2019  | 3436 Rivers, M.C., Beech, E. & al. (2019): European red list of trees. IUCN, Cambridge & Brussels. Retrieved from https://portals.iucn.org/library/sites/library/files/documents/RL-4-026-En.pdf, viewed: 10.03.2020. |
|     |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Name used in redlist: <i>Juniperus communis</i>                                                                                                                                                                       |

|     |    |                |                                                    |            |      |                                                                                                                                                                                                                 |
|-----|----|----------------|----------------------------------------------------|------------|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eur | LC | Least Concern  |                                                    | 2014       | 9774 | Allen, D., Bilz, M., Leaman, D.J., Miller, R.M., Timoshyna, A. & Window, J. (2014): European red list of medicinal plants. Publications Office of the European Union, Luxembourg.                               |
|     |    |                | Name used in redlist: <i>Juniperus communis</i> L. | Accepted   |      | Name used in redlist: <i>Juniperus communis</i> L.                                                                                                                                                              |
| glo | LC | Least Concern  |                                                    | 2011-01-25 | 2013 | 1206 2020 IUCN Red List of Threatened Species. Version 2020-3. www.iucnredlist.org. Download of plant data received from IUCN 14.1.2021.                                                                        |
|     |    |                | Name used in redlist: <i>Juniperus communis</i> L. | Accepted   |      | Name used in redlist: <i>Juniperus communis</i> L.                                                                                                                                                              |
| glo | LC | Least Concern  |                                                    | 2013       | 2013 | 9972 Farjon, A. (2013): Juniperus communis. The IUCN red list of threatened species 2013. e.T42229A2963096. Retrieved from http://dx.doi.org/10.2305/IUCN.UK.2013-1.RLTS.T42229A2963096.en, viewed: 09.05.2016. |
|     |    |                | Name used in redlist: <i>Juniperus communis</i>    |            |      | Name used in redlist: <i>Juniperus communis</i>                                                                                                                                                                 |
| glo | NT | Not Threatened |                                                    |            | 1997 | 1109 UNEP-WCMC Threatened Species Database. Download of 1997 regional threat assessments sent 15.6.2011 by H. Gillett. Cambridge, UK (cf. Walter & Gillett, 1997 IUCN Red List of threatened plants)            |
|     |    |                | Name used in redlist: <i>Juniperus communis</i> L. | Accepted   |      | Name used in redlist: <i>Juniperus communis</i> L.                                                                                                                                                              |

## Threat Status: Countries

| ICC Region | Threat Category |                                                    | Assd.    | Publ. | Ref                                                           |
|------------|-----------------|----------------------------------------------------|----------|-------|---------------------------------------------------------------|
| AL         | VU              | Vulnerable                                         |          | 2013  | 3959 Ministria e Turizmit dhe Mjedisit (2013): Për miratimi   |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Accepted Name:                                                |
| AL         | VU              | Vulnerable                                         |          | 2007  | 8795 Marko, H. (2007): Libri i kuq i flores shqiptare [Red b  |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Accepted Name:                                                |
| AL         | E               | Endangered                                         |          | 1997  | 1109 UNEP-WCMC Threatened Species Database. Downl             |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| AL         | E               | Endangered                                         | 1995     | 1995  | 4342 Vangjeli, J., Ruci, B. & Mullaj, A. (1995): Libri i kuq. |
|            |                 | Name used in redlist:                              |          |       | Accepted Name:                                                |
| BE         | Flanders        | VU                                                 |          | 2020  | 3955 Maes. D., Brosens, D., T'jollyn, F., Desmet, P., Piess   |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. |          |       | Accepted Name:                                                |
| BE         | Flanders        | VU                                                 |          | 2020  | 3955                                                          |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| BE         | Wallonie        | 3                                                  |          | 2006  | 3470 Saintenoy-Simon, J. (2006): Première liste des espè      |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| CH         | LC              | Least Concern                                      |          | 2019  | 3958 Bornand, C., Eggenberg, S., Gygax, A., Juillerat, P.,    |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Accepted Name:                                                |
| CH         | NT              | Not Threatened                                     |          | 1997  | 1109 UNEP-WCMC Threatened Species Database. Downl             |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| DE         | V               | Vorwarnliste                                       |          | 2018  | 3237 Metzling, D., Garve, E. & Matzke-Hajek, G. (2018): R     |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| DK         | LC              | Least Concern                                      |          | 2019  | 3455 Moeslund, J.E., Nygaard, B., Ejrnæs, R. & al. (2019):    |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| GB         | LC              | Least Concern                                      |          | 2005  | 8224 Cheffings, C.M. & Farrell, L. (2005): The vascular pla   |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Accepted Name:                                                |
| GB         | England         | NT                                                 |          | 2014  | 3956 Stroth, P. A., Leach, S. J., August, T. A., Walker, K. J |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Accepted Name:                                                |
| LU         | EN              | Endangered                                         |          | 2005  | 8309 Colling, G. (2005): Red list of the vascular plants of L |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| MA         | RR              | Very Rare – Très Rare                              |          | 1998  | 5531 Fennane, M. & Ibn Tattou, M. (1998): Catalogue des       |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| NL         | EN              | Endangered                                         |          | 2014  | 3263 Sparrius, L., Odé, B. & Beringen, R. (2014): Basisrap    |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Accepted Name:                                                |
| NL         | V               | Vulnerable                                         |          | 1997  | 1109 UNEP-WCMC Threatened Species Database. Downl             |
|            |                 | Name used in redlist: <i>Juniperus communis</i> L. | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| NL         | V               | Vulnerable                                         |          | 1990  | 2041 Weeda, E.J., van der Meijden, R. & Bakker, P.A. (19      |
|            |                 | Name used in redlist:                              |          |       | Accepted Name:                                                |
| NO         | LC              | Least Concern                                      |          | 2015  | 3458 Artsdatabanken (2015): Norsk rødliste for arter 2015     |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    |          |       | Accepted Name:                                                |
| US         | G5              | Secure                                             |          | 2023  | 3988 NatureServe (2023): NatureServe Network Biodiversi       |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |
| US         | N5              | Secure                                             |          | 2023  | 3988                                                          |
|            |                 | Name used in redlist: <i>Juniperus communis</i>    | Accepted |       | Accepted Name: <i>Juniperus communis</i> L.                   |

## Purpose of Use

| Purpose                            |                                                                                                                                                                                                                                                                                                                                             | Ref  |
|------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|
| environmental use - horticulture   | "cultivated in the horticulture trade and used as an evergreen ornamental shrub in gardens"                                                                                                                                                                                                                                                 | 1135 |
|                                    | "widely used as an ornamental in parks and gardens [...] and numerous cultivars have been derived from it."                                                                                                                                                                                                                                 | 9972 |
|                                    | Environ. (ornamental)                                                                                                                                                                                                                                                                                                                       | 1180 |
| food - beverage                    | "[used] in the preparation of alcoholic distilled beverages."                                                                                                                                                                                                                                                                               | 9972 |
|                                    | "an essential ingredient of gin"                                                                                                                                                                                                                                                                                                            | 1123 |
|                                    | "Commercially, juniper berries are used as flavoring agents in teas, beers (genevrette), liqueurs (ginepro), alcoholic bitters, and gin."                                                                                                                                                                                                   | 3862 |
|                                    | "essential ingredient of gin"                                                                                                                                                                                                                                                                                                               | 8592 |
|                                    | "In Finland, juniper is used as a key ingredient in making sahti, a traditional Finish ale."                                                                                                                                                                                                                                                | 1135 |
|                                    | "Juniper berries are best known for their use in flavouring gin."                                                                                                                                                                                                                                                                           | 7279 |
|                                    | "Juniper is used in the traditional farmhouse ales of Norway, Sweden, Finland, Estonia, and Latvia. In Norway, the beer is brewed with juniper infusion instead of water, while in the other countries the juniper twigs are mainly used in the mash, as filters to prevent the crushed malts from clogging the outlet of the mashing tun." | 1135 |
|                                    | "The cones ('berries') are used in [...] the preparation of alcoholic distilled beverages."                                                                                                                                                                                                                                                 | 9972 |
|                                    | "The seed cones [...] are used to flavor gin"                                                                                                                                                                                                                                                                                               | 8605 |
|                                    | "used to flavour gin [...] liqueurs"                                                                                                                                                                                                                                                                                                        | 8359 |
| food - general                     | "eaten with meat"                                                                                                                                                                                                                                                                                                                           | 8359 |
| food additive - flavouring & spice | "essential oil is sometimes distilled from the fruit to be used as a flavouring"                                                                                                                                                                                                                                                            | 1123 |
|                                    | "fruit is often used as a flavouring in sauerkraut, stuffings, vegetable pates etc." "essential oil is sometimes distilled from the fruit to be used as a flavouring"                                                                                                                                                                       | 8592 |
|                                    | "juniper berries are too bitter to eat raw and are usually sold dried and used to flavour meats, sauces, and stuffings. They are generally crushed before use to release their flavour. They are generally used to enhance meat with a strong flavour, such as game, including game birds, or tongue."                                      | 1135 |
|                                    | "The cones ('berries') are used in cooking"                                                                                                                                                                                                                                                                                                 | 9972 |
|                                    | "The fruit is often used as a flavouring in sauerkraut, stuffings, vegetable pates etc."                                                                                                                                                                                                                                                    | 1123 |
|                                    | Additive (flavoring)                                                                                                                                                                                                                                                                                                                        | 1180 |
| food additive - general            | "eaten with meat"                                                                                                                                                                                                                                                                                                                           | 8359 |
|                                    | "The extracts or oils are used in [...] baked goods, candy, frozen dairy desserts, gelatins, meat products, and puddings. fragrance component in creams [...]"                                                                                                                                                                              | 3862 |
| fuel general                       | "excellent fuel"                                                                                                                                                                                                                                                                                                                            | 1123 |
|                                    | "excellent fuel"                                                                                                                                                                                                                                                                                                                            | 8592 |
| material - general                 | "In Scandinavia [...] juniper wood is used for making containers for storing small quantities of dairy products such as butter and cheese, and also for making wooden butter knives. It was also frequently used for trenails in wooden shipbuilding by shipwrights for its tough properties."                                              | 1135 |
|                                    | Mater. (essential oils)                                                                                                                                                                                                                                                                                                                     | 1180 |
|                                    | Materials: essential oils (fide HerbSpices)                                                                                                                                                                                                                                                                                                 | 1100 |
| material - timber, wood products   | "In Estonia juniper wood is valued for its long lasting and pleasant aroma, very decorative natural structure of wood (growth rings) as well as good physical properties of wood due to slow growth rate of juniper and resulting dense and strong wood."                                                                                   | 1135 |
| medicine - general                 | "diuretic [...] considered abortifacient"                                                                                                                                                                                                                                                                                                   | 8359 |
|                                    | "diuretic; antiseptic; antirheumatic"                                                                                                                                                                                                                                                                                                       | 3751 |
|                                    | "Fruits are traditionally used as diuretic and as urinary antiseptic [...], but also as stomachic, caminative and for syspepsia. [...] External applications of the essential oils lead to skin irritation and in consequence to an enhanced blood circulation."                                                                            | 7279 |
|                                    | "treatment of digestive disorders plus kidney and bladder problems [...] treatment of cystitis, digestive problems, chronic arthritis, gout and rheumatic conditions [...] arthritic joints [...] keyword is 'Toxin elimination' [...] anti-dandruff shampoo"                                                                               | 8592 |
|                                    | treatment of digestive disorders plus kidney and bladder problems [...] treatment of cystitis, digestive problems, chronic arthritis, gout and rheumatic conditions [...] arthritic joints [...] anti-dandruff shampoo"                                                                                                                     | 1123 |
|                                    | "Fruits are traditionally used as diuretic and as urinary antiseptic [...], but also as stomachic, caminative and for syspepsia. [...] External applications of the essential oils lead to skin irritation and in consequence to an enhanced blood circulation."                                                                            | 7279 |

"In Western traditional medicine, juniper berry preparations have been used to relieve flatulence and indigestion and to stimulate the appetite. Due to their reputation as having a stimulating effect on appetite, juniper berries have been used traditionally as a flavoring in sauerkraut. The berries have been eaten to relieve rheumatism and were made into topical ointments for aching joints and muscles. A 70% alcohol extract of juniper berries, called spirit of juniper, has been used to treat dropsy (edema), intestinal pain, and lack of appetite. Juniper berry has been utilized to treat colic, cystitis, some forms of cancer, as a steam inhalation to treat bronchitis, and as an extract to treat snakebites and intestinal worms. Juniper berry oil has been used even in veterinary medicine, mixed with lard and applied to wounds to ease irritation from fly infestation."

"Many Native American tribes of North America have utilized various parts of *J. communis* for a wide range of ailments. A decoction of the berries has been used for lung and venereal disease by the Blackfoot tribe. The Woodland Cree smoked the blue berries for asthma and have made a decoction of the green berries for sore backs caused by kidney trouble. A combination of the berries with kinnikinnick (*Arctostaphylos uva-ursi*, Ericaceae) leaves or balsam has been decocted, strained and used for tuberculosis by the Carrier tribe. The Inupiat have used the berries alone or as an infusion, or a decoction of the berries, needles and twigs, to prevent and treat colds and flu. A compound decoction of the berries has been used by the Kwakiutl for diarrhea. The Upper Tanana have used both the raw fruit and a decoction of the fruit and branches for colds, coughs, and urinary disorders. The Cheyenne have utilized an infusion of the fleshy cones for coughs, fevers, tickles in the throat or tonsillitis, and also as a sedative. They have also chewed the cones and have taken steam baths with an infusion of the cones as a cold remedy. The Hanaksiala have prepared heated poultices of the branch and berry paste, which they have applied to wounds and cuts. While the method of preparation is not specified, both the Okanagon and the Thompson tribes have used the berries for urinary disorders, and the Micmac have used the cones for ulcers. A compound preparation made with the berries and unspecified other herbs has been used for urinary tract disorders by the Potawatomi."

Traditional European medicine 3751  
social use - general "incense" 1123  
"incense" 8592

## Purpose: Standardized Use Fields

| Purpose: Fields of Use                 | Frequency |
|----------------------------------------|-----------|
| environmental use - horticulture       | 3         |
| food - beverage                        | 10        |
| food - general                         | 1         |
| food additive - flavouring & spice     | 6         |
| food additive - general                | 2         |
| fuel general                           | 2         |
| material - general                     | 3         |
| material - timber, wood products       | 1         |
| medicine - general                     | 5         |
| medicine - traditional herbal medicine | 4         |
| social use - general                   | 2         |

## Purpose: Number of Use Fields

| Purpose: Number of use fields                                                         |
|---------------------------------------------------------------------------------------|
| Taxon used in 11 different standardized use categories (max. 27 categories possible). |

## Plant Parts Used

| Plant Part (standardized) | Plant Part (free text) | Remark | Ref                                                                                            |
|---------------------------|------------------------|--------|------------------------------------------------------------------------------------------------|
| exudate                   |                        |        | 1113 Ecocrop. FAO. - <a href="http://ecocrop.fao.org/">http://ecocrop.fao.org/</a>             |
| fruit                     | Fruit                  |        | 3221 Goraya, G.S. & Ved, D.K. (2017): Medicinal p                                              |
| fruit                     |                        |        | 3751 van Wyk, B.-E. & Wink, M. (2017): Medicinal                                               |
| fruit                     |                        |        | 1113 Ecocrop. FAO. - <a href="http://ecocrop.fao.org/">http://ecocrop.fao.org/</a>             |
| fruit                     | "berries"              |        | 1111 Ecoport. FAO. - <a href="https://gaez.fao.org/pages/ec">https://gaez.fao.org/pages/ec</a> |
| fruit                     | "berries"              |        | 8604 Anon. (s.dat.): Trees@Kew. Retrieved from h                                               |
| fruit                     |                        |        | 1123 Plants for a Future - <a href="http://www.pfaf.org">www.pfaf.org</a>                      |
| wood                      |                        |        | 1111 Ecoport. FAO. - <a href="https://gaez.fao.org/pages/ec">https://gaez.fao.org/pages/ec</a> |

## Scale and Trend of Trade

### Utilization: Commodity, Cultivation, Harvest, Sustainability, Trade

| Type | ICC | Utilization                                                                          | Ref                                                                      |
|------|-----|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| com  |     | "berry and the oil extracts from the berry are the parts that are used commercially" | 3862 Engels, G. (2009): Juniper beri                                     |
| cul  |     | "cultivated in the horticulture trade"                                               | 1135 Wikipedia. <a href="http://www.wikipedia.org">www.wikipedia.org</a> |
| cul  | AU  | cultivated: Tasmania                                                                 | 3145 Brinckmann, J.A., Kathe, W.,                                        |
| cul  | DE  | cultivated                                                                           | 3145                                                                     |
| cul  | ES  | cultivated: Comunidad Valenciana                                                     | 3145                                                                     |
| cul  | FR  | cultivated: Maine-et-Loire                                                           | 3145                                                                     |

|      |    |                                                                                                                                                                                                                                                                                                                                                                      |      |                                 |
|------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------|
| cul  | GB | Agroforestry; Devon                                                                                                                                                                                                                                                                                                                                                  | 3145 |                                 |
| cul  | IE | cultivated: Tipperary                                                                                                                                                                                                                                                                                                                                                | 3145 |                                 |
| cul  | IT | cultivated: Appenini                                                                                                                                                                                                                                                                                                                                                 | 3145 |                                 |
| cul  | IT | Intensive Farming; Reggio Emilia; Trentino                                                                                                                                                                                                                                                                                                                           | 3145 |                                 |
| cul  | NZ | Agroforestry; Tauriko, Tauranga                                                                                                                                                                                                                                                                                                                                      | 3145 |                                 |
| har  | AL | 300 tonnes of dried raw material (fruits) wild harvested in 2001 (J. communis and J.oxycedrus)                                                                                                                                                                                                                                                                       | 7037 | Kathe, W., Honnef, S. & Heym    |
| har  | BA | 402 tonnes of dried raw material (fruits) wild harvested in 2001                                                                                                                                                                                                                                                                                                     | 7037 |                                 |
| har  | IN | wild harvested                                                                                                                                                                                                                                                                                                                                                       | 3221 | Goraya, G.S. & Ved, D.K. (201   |
| socu |    | "The word 'gin' may be either a shortened form of the Dutch genever, which is derived from the Latin juniperus, or derived from the term Holland's Geneva as the Dutch-invented drink was first known. One legend suggests that a Dutch chemist developed juniper extract as a diuretic known as ginever, which was later popularized by the British as simply gin." | 3862 | Engels, G. (2009): Juniper beri |
| socu |    | "This is the most widespread species of conifer in the world."                                                                                                                                                                                                                                                                                                       | 9972 | Farjon, A. (2013): Juniperus cc |
| socu | PL | "According to the old tradition, on Easter Monday Kashubian (Northern Poland) boys chase girls whipping their legs gently with juniper twigs. This is to bring good fortune in love to the chased girls."                                                                                                                                                            | 1135 | Wikipedia. www.wikipedia.org    |
| tra  |    | "accurate figures on the export of juniper berries are difficult to obtain because the harmonized system tariff code (HS Code) assigned to juniper fruit is shared with fennel fruit, which confounds import-export trade analysis of juniper."                                                                                                                      | 3862 | Engels, G. (2009): Juniper beri |
| tra  |    | "Most of the juniper berry supply for Europe and North America comes from wild collection in Albania, Bosnia and Herzegovina, Bulgaria, Croatia, Hungary, Kosovo, Romania, Serbia, and Montenegro, of which increasing amounts are being wild harvested under organic certification."                                                                                | 3862 |                                 |
| tra  | AL | 85 tonnes of dried raw material (berries) exported in 2001                                                                                                                                                                                                                                                                                                           | 7037 | Kathe, W., Honnef, S. & Heym    |
| tra  | GB | "200 t coll. wild pls in C Eur. imported to GB annually"                                                                                                                                                                                                                                                                                                             | 3753 | Mabberley, D.J. (2017): The pl  |
| tra  | IN | "India produces juniper berries (found growing in the Himalayas from Kumaon westwards ranging from the altitude of 1500-4250 m), but this is mainly for domestic consumption in the Indian systems of traditional medicine."                                                                                                                                         | 3862 | Engels, G. (2009): Juniper beri |
| tra  | IN | Estimated annual trade: 100-200 metric tonnes                                                                                                                                                                                                                                                                                                                        | 3221 | Goraya, G.S. & Ved, D.K. (201   |
| tra  | US | "sold in this country"                                                                                                                                                                                                                                                                                                                                               | 6369 | McGuffin, M., Kartesz, J.T., Le |

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- 1113 Ecocrop. FAO. - <http://ecocrop.fao.org/>
- 1123 Plants for a Future - [www.pfaf.org](http://www.pfaf.org)
- 1126 World Checklist of Selected Plant Families, RBG Kew. [apps.kew.org/wcsp/home.do](http://apps.kew.org/wcsp/home.do)
- 1132 Hegi, Illustrierte Flora von Mitteleuropa
- 1134 USDA NRCS Plants Database. <http://plants.usda.gov/java/>
- 1135 Wikipedia. [www.wikipedia.org](http://www.wikipedia.org)
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### Abbreviations and Standards

ICC = ISO Country Codes    Ref = literature reference

Altitude:    Low / High = minimum and maximum limits of altitude range [m]

Legislation:    Source Taxon = name of taxon as contained in legislation

Utilization: TypeUtil

| TypeUtil | TypeUtilLong                |
|----------|-----------------------------|
| com      | commodity                   |
| cul      | cultivation                 |
| exp      | export                      |
| har      | harvest                     |
| imp      | import                      |
| man      | management                  |
| price    | price                       |
| rem      | remark                      |
| socu     | socio-cultural significance |
| sus      | sustainability              |
| tra      | trade                       |
| trend    | trend and scale of trade    |

Distribution Status: Standard

| Status | Explanation                        |
|--------|------------------------------------|
| chk    | check entry                        |
| nat    | native                             |
| int    | introd., established               |
| adv    | introduced, not established        |
| ocd    | occurrence doubtful                |
| unc    | status unclear                     |
| ext    | extinct                            |
| cul    | cultivated                         |
| sou    | source doubtful                    |
| ica    | introduced (casual or naturalized) |
| don    | doubtfully native                  |
| pex    | (presumably) extinct               |
| ali    | casual alien                       |
| nzd    | naturalized                        |
| nna    | not native                         |
| dpn    | status doubtful, possibly native   |
| abs    | absent but reported in error       |

Common names: Type

| TypeShort | Type                     |
|-----------|--------------------------|
| ?         | <unknown>                |
| ayn       | ayurvedic name           |
| hom       | homoeopathic name        |
| pha       | pharmaceutical name      |
| scn       | standardized common name |
| tra       | trade name               |
| ver       | vernacular name          |

Ecology: TypeEcol

| TypeEcol | Explanation  |
|----------|--------------|
| alti     | altitude     |
| grow     | growth rate  |
| habit    | habitat      |
| morph    | morphology   |
| regen    | regeneration |
| repro    | reproduction |