

**Key to *Juniperus* of Central Asia (from Turkmenistan/Iran through the former Soviet Union, Pakistan and the Western Himalayas, including Nepal) rev. 8-1-08**

- 1a. All leaves acicular (subulate, jointed at the base), in whorls of 3, cones borne axillary (section *Juniperus*) seed cones 6-15 mm, blue to bluish-black when mature (2 - 3 yrs), seeds free, male cones solitary, axillary, leaves with one (rarely divided by a faint midrib) broad stomatiferous band above (adaxial, closest to the stem).....***J. communis***
- 1b. Leaves decurrent (not subulate, not jointed at the base), both scale-like and whip (decurrent with free tips) leaves, only whip-leaves on juvenile plants and at the tips of adult foliage, leaves in pairs or whorls of 3, cones borne terminal (section *Sabina*)
  - 2a. 2 - 6 (-8) seeds per cone, seed cones globose or bi-lobed (multi-seeded junipers)
    - 3a. (1-) 2 seeds per globose cone or 2-3 (-4) seeds per bi-lobed cone
      - 4a. Seed cones 4 - 6 mm when mature, irregularly globose, (1-) 2 seeds per cone, shrubs.....***J. sabina***
      - 4b. Seed cones 6 - 9 mm, bi-lobed (occasionally globose on the same tree), 2 - 3 (-4) seeds, trees with strong central axis
        - 5a. Scale-leaves mostly flat, scarcely overlapping, giving the ultimate branchlets a smooth appearance, glands on whip-leaves not conspicuous, not generally raised..  
.....***J. semiglobosa***
        - 5b. Scale-leaves beaked, overlapping by about 1/4, giving the ultimate branchlets a rough appearance, glands on whip-leaves conspicuous, generally raised..  
.....***J. jarkendensis***
    - 3b. (2-) 3 - 6 (-8) seeds per globose cone
      - 6a. Ultimate branchlets 0.7 - 1 mm diam., scale-leaves very small, 0.6 - 1.1 mm long, appressed, seed cones 6 - 11 mm diam, globose.....***J. excelsa***
      - 6b. Ultimate branchlets 1 - 1.3 mm diam., scale-leaves coarse, 1.2 - 1.6 mm long, appressed or apex free, seed cones 8 - 14 mm diam, globose.....***J. polycarpus***
  - 2b. 1 seed per cone, seed cones ovoid to turbinate, if turbinate then with pointed tip (1 seeded junipers)
    - 7a. All leaves of one kind, decurrent, with a blade (that is free) and a sheath (that clasps the stem)
      - 8a. Foliage pendulous and recurved, leaf tips appressed to stem giving the ultimate branchlets a smooth rope appearance.....***J. recurva***
      - 8b. Foliage erect and ascending, leaf tips free and divergent from stem giving the ultimate branchlets a thorny appearance.....***J. squamata***
    - 7b. Leaves of two kinds: scale-like and decurrent with free tips (only on juvenile plants or on fast growing tips)
      - 9a. Scale-leaves overlapping by 1/4, with scarios border, whip-leaves with oval to elliptical glands, but gland ray usually absent or extending less 1/2 the distance to the leaf tip.....***J. pseudosabina***
      - 9b. Scale-leaves not overlapping, without scarios border, whip-leaves with oval to elliptical glands with a gland ray (narrow groove) that extends more than 1/2 the distance to the leaf tip
        - 10a. Monoecious, shrubs or shrubby trees; pollen shed in the fall.....***J. indica***
        - 10b. Dioecious, trees with a strong central axis, pollen shed in the spring..  
.....***J. indica* var. *rushforthiana***