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| 1 | Leaf blades simple, deeply pinnately lobed or unlobed except for a pair of basal auricles; the tips long-attenuate | (2) |
| + | Leaf blades 1–3 times compound | (3) |
| 2 (1) | Leaf blades deeply, pinnately lobed | 3 <i>Asplenium pinnatifidum</i> |
| + | Leaf blades unlobed except for a pair of basal auricles, these rounded or attenuate | 6 <i>Asplenium rhizophyllum</i> |
| 3 (1) | Petioles green, at least in the upper 1/2; leaf blades 2–3 times pinnately compound | (4) |
| + | Petioles reddish brown to black their entire length; leaf blades 1–2 times pinnately compound | (5) |
| 4 (3) | Petioles green except at the very base; pinnules spatulate to nearly diamond-shaped | 7 <i>Asplenium ruta-muraria</i> |
| + | Petioles green in the upper 1/2–2/3, dark brown basally; pinnules linear to oblong or ovate | 2 <i>Asplenium montanum</i> |
| 5 (3) | Lower pinnae compound or deeply lobed, at least toward the base | 1 <i>Asplenium bradleyi</i> |
| + | Lower pinnae toothed or shallowly lobed, sometimes auriculate at the base of the upper margin | (6) |
| 6 (5) | Pinnae not auriculate, oblong to ovate or wedge-shaped, the median pinnae 4–7 mm long | 8 <i>Asplenium trichomanes</i> subsp. <i>trichomanes</i> |
| + | At least the median pinnae auriculate (with small outgrowths of tissue) at the base of the upper margin (sometimes also the lower margin), oblong to linear-lanceolate, (5–)7–35 mm long | (7) |
| 7 (6) | Leaves somewhat dimorphic, the sterile leaves prostrate to arching with shorter pinnae, the fertile leaves erect with longer pinnae; petioles and rachises dark brown; pinnae alternate, the bases mostly overlapping the rachis | 4 <i>Asplenium platyneuron</i> |
| + | Leaves monomorphic; petioles and rachises black; pinnae opposite to subopposite, the bases not overlapping the rachis | 5 <i>Asplenium resiliens</i> |