

KEYS TO LICHEN GENERA  
IN NORTH AMERICA

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SYNOPSIS OF SEPARATE KEYS

1. Thallus with bluegreen algae, crustose to minutely foliose or fruticose. ....CYANOLICHEN KEY
1. Thallus with green algae (or with both green and bluegreen algae). ..... 2
  2. Thallus fruticose, foliose, or umbilicate. .... 3
  2. Thallus crustose, lobate or squamulose. .... 5
3. Thallus fruticose. ....FRUTICOSE KEY
3. Thallus foliose or umbilicate. .... 4
  4. Thallus foliose. .... FOLIOSE KEY
  4. Thallus umbilicate. .... UMBILICATE KEY
5. Thallus lobate or squamulose. .... 6
5. Thallus crustose. .... 7
  6. Thallus lobate. .... LOBATE KEY
  6. Thallus squamulose. .... SQUAMULOSE KEY
7. Fruiting bodies basidiocarps (spores borne on tips of clublike basidia), resembling those of mushroom, shelf- or coral- fungi. ....BASIDIOLICHEN KEY
7. Fruiting bodies ascocarps (spores produced inside saclike asci), or fruiting bodies unknown. .... 8
  8. Fruiting bodies present. .... 9
  8. Fruiting bodies unknown. ....STERILE CRUST KEY

9. Fruiting bodies apothecia,  $\pm$  round and disk-shaped. ....DISCOLICHEN KEYS (INCLUDING LECIDEOID KEY, PLACODIAL LECANOROID KEY, AND ASPICILIOID KEY)

9. Fruiting bodies not apothecia, or fruiting bodies ..... 10

10. Fruiting bodies mazaedioid, on hairlike stalks, or sessile to immersed but with powdery surface. ....CALICIALES KEY

10. Fruiting bodies not on stalks, not powdery. .... 11

11. Fruiting bodies lirelliform (elongated or starlike). ....LIRELLIFORM KEY

11. Fruiting bodies perithecioid (flask-shaped, opening by a pore). ....PYRENOLICHEN KEY

