

Guide to Cattail Morphology in Coastal BC

1a Maximum wetted leaf width ≤ 0.9 mm

2a Spike interval >35 (32) mm, staminate spike length 10–23 cm, pistillate spike length 6–14 (19) cm, pistillate spike width 5–18 (24) mm, rarely exceeds 20 dm height..... **T. angustifolia**

1b Maximum wetted leaf width > 0.9 mm

3a Leaf width 13–20(22) mm, spike interval usually absent or <3 (32) mm, staminate spike length 10(7)–17(20) cm, pistillate spike length 11(7)–19 cm, pistillate spike width 1.1(0.9)–3.3 cm, 18–25 dm height..... **T. latifolia**

3b Leaf width 10–14(17) mm, spike interval 5– 30(35) mm, staminate spike length > 17 cm, pistillate spike length 15(12) – 20(30) cm, pistillate spike width 0.8–1.7(2.5) cm, <18 dm height, can exceed 30 dm..... **T. \times glauca**

Notes on use: The key should be used as a preliminary tool for early detection, not a proxy or substitute for genetic investigations, and will be most effective when applied (1) during the same time period as our measurements (July), (2) in tidal estuarine environments in the region, to phenotypic variability and (3) to representative plants within a clonal patch, as morphological anomalies frequently occur within *Typha* populations that confound identification.

This key is an excerpt from a manuscript that has been submitted for publication in Spring 2023:

Stewart, Daniel, Gracy Buckholtz, Diana Percy, Tara G. Martin, and Quentin Cronk. 'Macroscopic Traits Effectively Identify Hybrid Cattail (*T. \times glauca*) in the Fraser River Estuary, British Columbia'. *Manuscript in Preparation*, 2023.