

Distribution of Lithium in the Late Jurassic Smackover Formation, Mississippi

Mississippi Office of Geology
Fact Sheet 4
2026



- Lithium supply is projected to lag behind demand through 2040.
 - The big-three lithium suppliers are Australia, China, and Chile.
 - Approximately 23% of the world's cumulative lithium production is produced from brines.
 - Calculated U.S. Smackover lithium-rich brine resources exceed 5 million tonnes (U.S.G.S., 2024).
 - Additional Critical Minerals concentrated in Smackover brines include boron, bromide, magnesium, and potassium.
 - MSOGB Smackover Production (January - November 2025)
- Oil (bbls)..... 374,509
Gas (mcf)..... 5,291,054
Brine (bbls)..... 1,846,306

Map Index

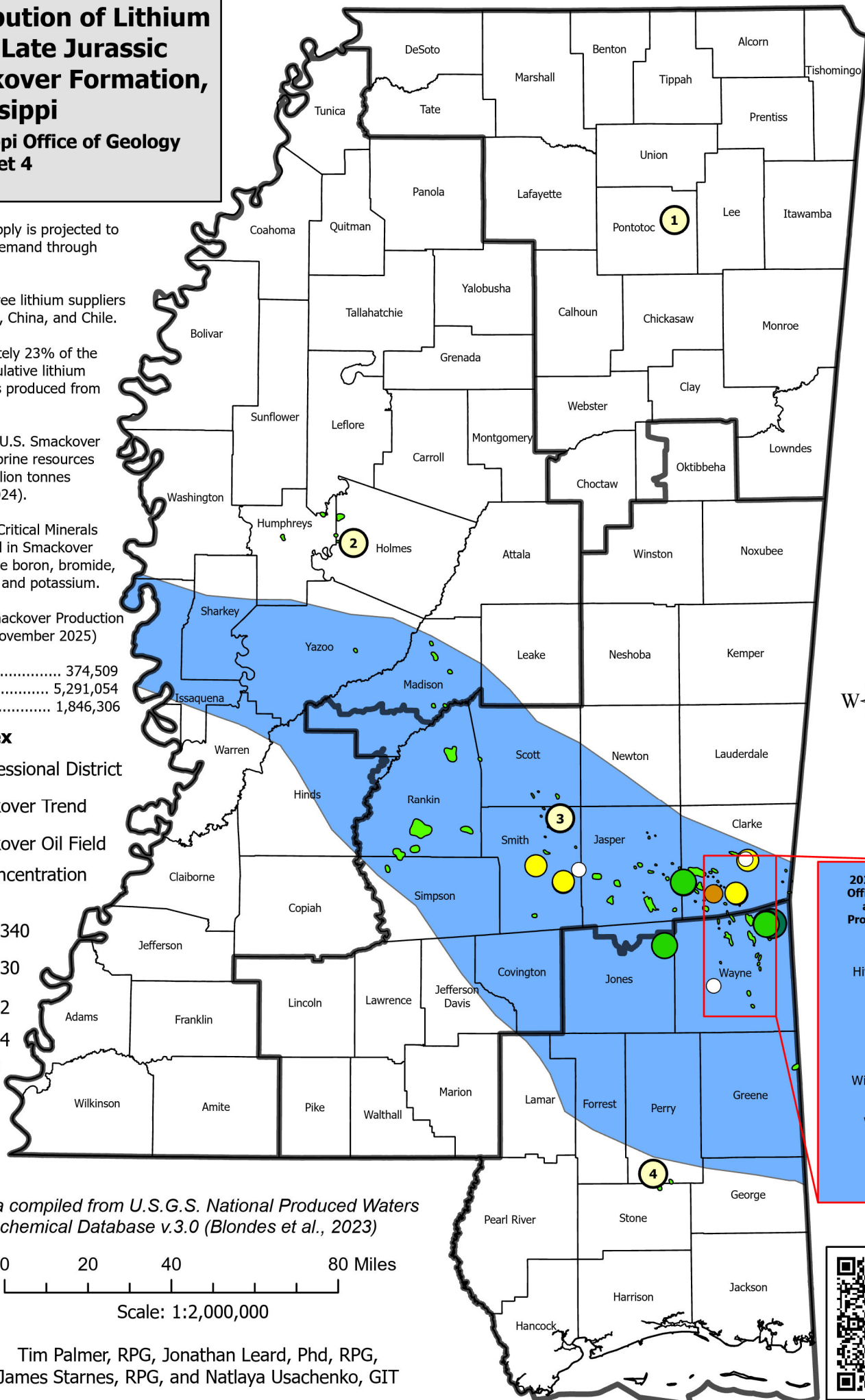
1 Congressional District

Smackover Trend

Smackover Oil Field

Lithium Concentration (mg/L)

- 130-340
- 72-130
- 54-72
- 48-54
- 0-48



Data compiled from U.S.G.S. National Produced Waters Geochemical Database v.3.0 (Blondes et al., 2023)

0 20 40 80 Miles
Scale: 1:2,000,000

Tim Palmer, RPG, Jonathan Leard, PhD, RPG,
James Starnes, RPG, and Natlaya Usachenko, GIT

