



Expanding Beaver Habitat in New Mexico with Low Tech Process-Based Restoration

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September 26, 2024



**Reference
Conditions: Jemez
Mountains, New
Mexico**

**Beaver-dominated
streams have
multiple channels
and pools that
span the
floodplain**



Current conditions of New Mexico's headwater streams:

Channelized and incised

Poor access to floodplain

Wood and trees/shrubs absent

Only ~7% of streams are perennial

~45% of assessed streams are impaired for water quality



Historic land practices negatively affected water resources

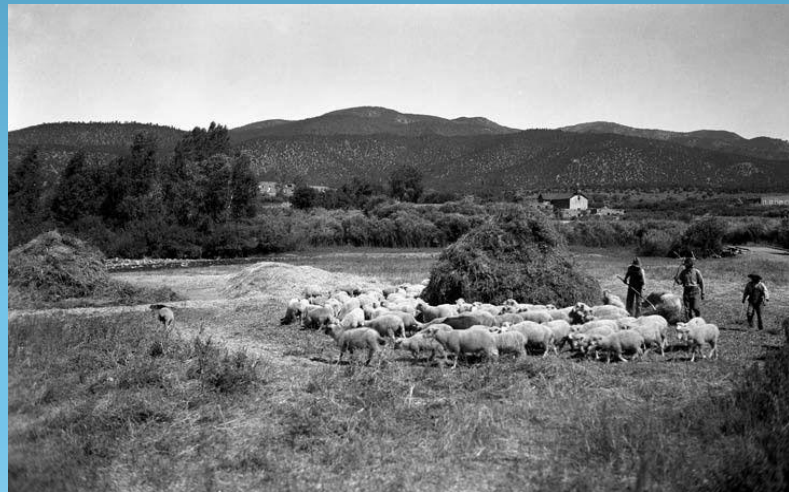
Mining

Logging

Roads

Grazing (sheep, cattle wildlife)

Fire suppression



Santa Fe National Historic Trail



~ 44,000 beaver pelts exited New Mexico between 1824 - 1842 (Scurlock, 1998) 5

**Low Tech Process-
Based Restoration:**

Beaver Dam Analogs

**Post-Assisted Log
Structures**

Large Woody Debris

**Rio Grande Return
constructed and
maintained 4,000
structures on 15
stream-miles since
2020**



**Beaver Dam Analog,
San Antonio Creek**



**Beaver Dam Analog,
Rito Peñas Negras** 7



**Post-Assisted Log Structure,
Polvadera Creek**

**Planted 600,000
willows/aspens/
cottonwoods**

**Constructed fences
around 150 acres to
protect plants from
grazing**

**Completed 50
projects**

**Employed 3 Full-
time crews**

**Engaged 200
volunteers annually**





**Upstream of Beaver Dam Analog,
San Antonio Creek**

**Goal: Increase the
scale and pace of low
tech processed-based
restoration to impact
entire mountain
watersheds**

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REVITALIZING THE REGENERATIVE CAPACITY OF DAMAGED ECOSYSTEMS