



Using Expropriation to Address Climate Change

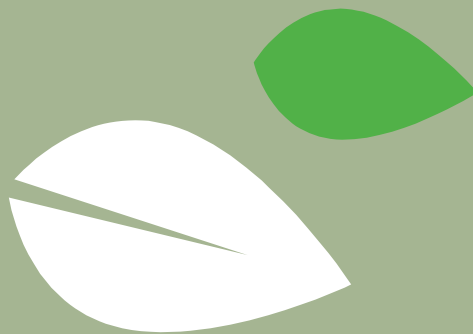
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Hello!

I am Emily McClendon

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1. Adaptation to Climate Change will Require Managed Retreat



Managed Retreat



Coastal City Refuses to Retreat The story of Del Mar



2. Partial Expropriations

Restrictive Covenants

- For the purpose of exercising or performing its powers, duties and functions, a municipality may expropriate real property or works, **or an interest in them**, in accordance with the *Expropriation Act*.







Meteorological Drought

Decreased precipitation, increased temperature, and increased evapotranspiration

Meteorological drought affects human demands and values for water, exhibited as hydrologic, agricultural, and socio-economic drought.



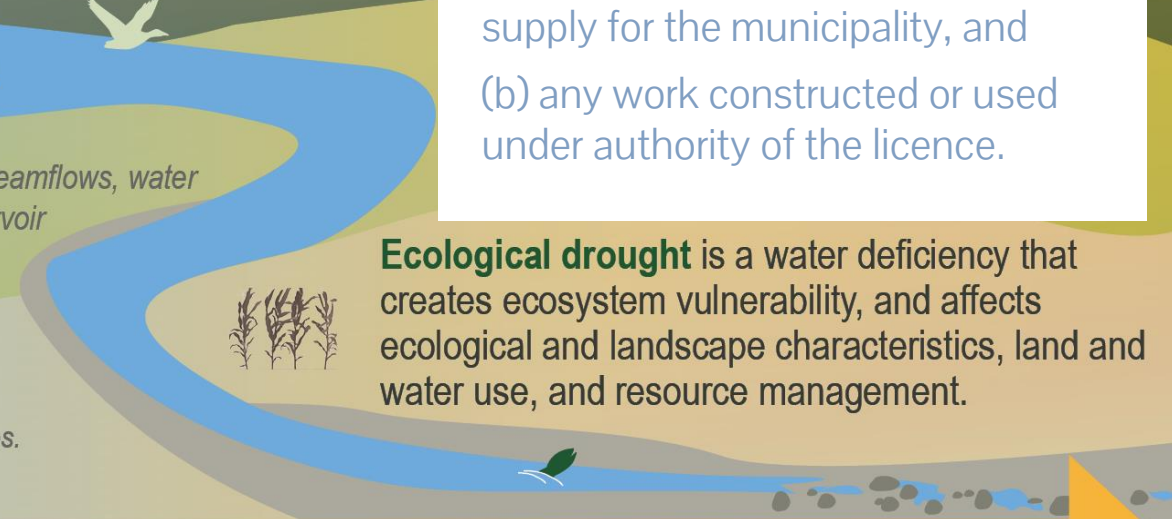
Hydrologic - streamflows, water quality, and reservoir levels decrease.



Agricultural - productivity and crop survival decreases.

a municipality may expropriate

- (a) a licence authorizing the diversion of water from a stream or an aquifer that is suitable for a water supply for the municipality, and
- (b) any work constructed or used under authority of the licence.



Ecological drought is a water deficiency that creates ecosystem vulnerability, and affects ecological and landscape characteristics, land and water use, and resource management.



3. Expropriation of Parcels

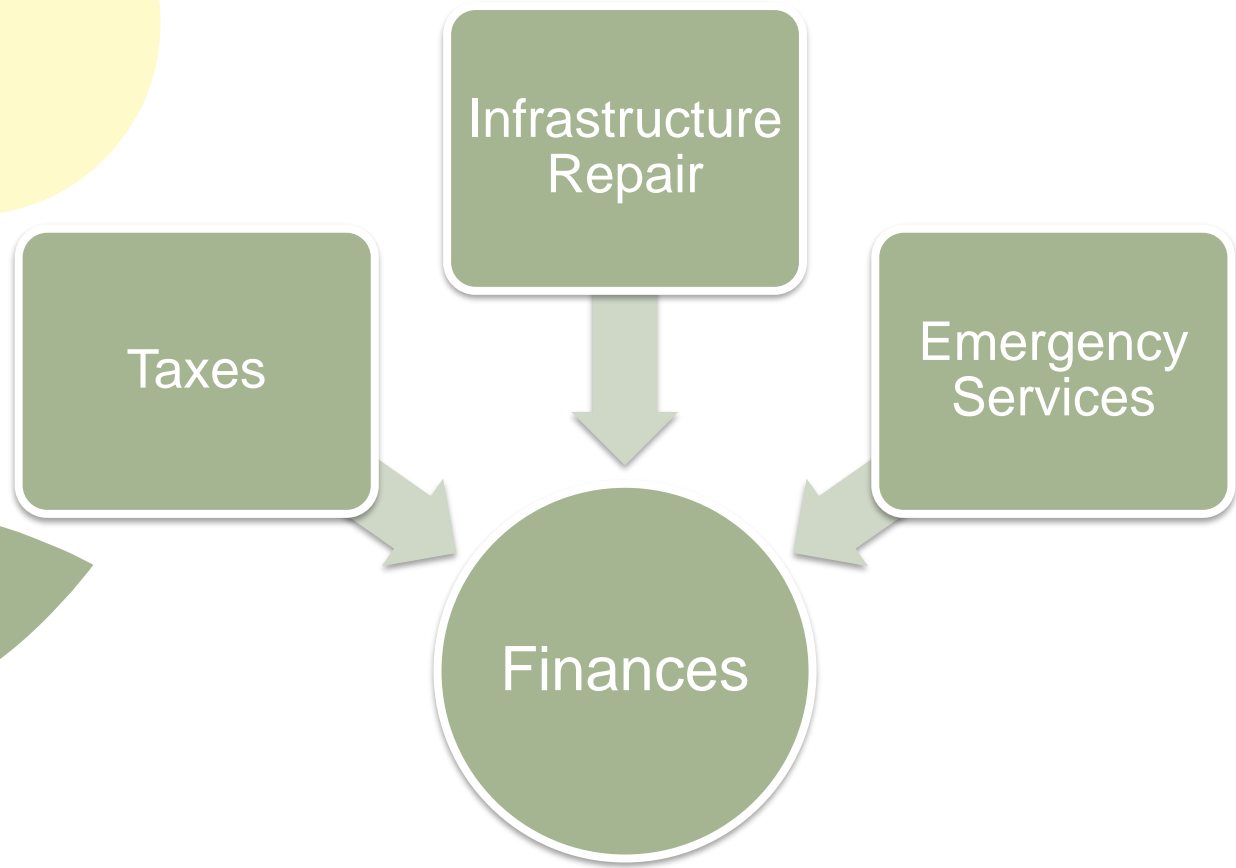


...the amount that would have been paid if the land had been sold, at the date of filing of the vesting notice in the land title office, on the open market by a willing seller to a willing buyer..



A willing buyer?

- Floodplains
- Fires
- Natural disaster
- Eroding shorelines



Excess Land - Parks

“it is difficult but
necessary to come to
grips with the ultimate
result of living with
nature at the
shoreline.”



Not subsidized housing

Subsidized housing

75 years and over

65 to 74 years

55 to 64 years

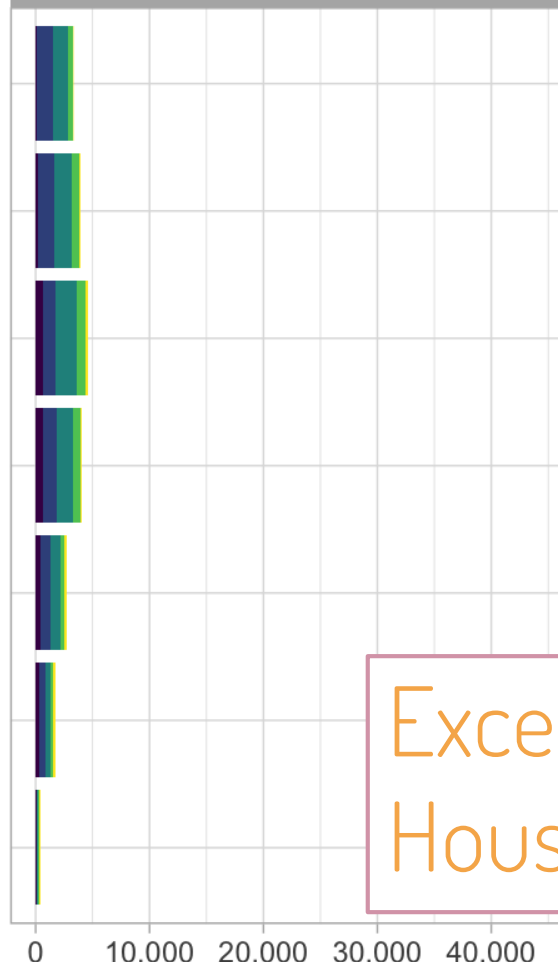
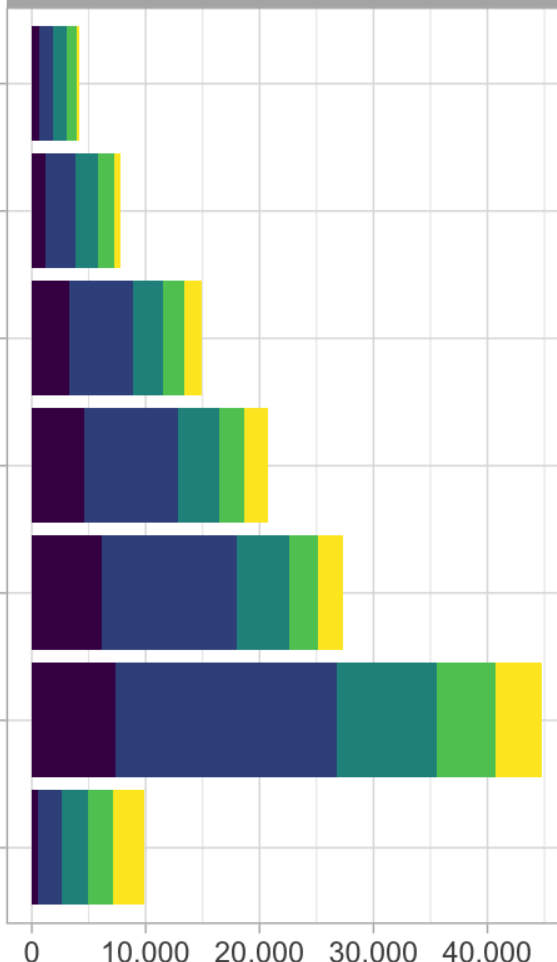
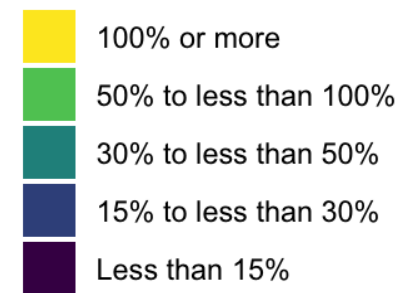
45 to 54 years

35 to 44 years

25 to 34 years

Under 25 years

Shelter-cost-to-income



Excess Land -
Housing

