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**Water Supply Threats and Vulnerabilities to
Disadvantaged Communities:
Lessons from Los Angeles County**

June 24, 2015

UCLA Luskin School of Public Affairs

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Motivation

Do you understand threats and vulnerabilities facing your community water systems?

- Size (small and very small) of systems
- Disadvantaged community (& low income) systems
- Dependent only on groundwater
- Vulnerable population (% very young & old)
- Reported drinking water quality problems

Many new policies being debated

Are you prepared to represent your jurisdiction's interest in state and regional policy debates?

- Emergency assistance with water shortages
- Remedial support for poor drinking water quality
- Changes in consolidation programs for water supply systems
- Targeting technical, financial and managerial assistance
- Spending Prop 1 funding: urban vs. rural

Los Angeles County 228 Community Water Systems

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How many are small and very
small?

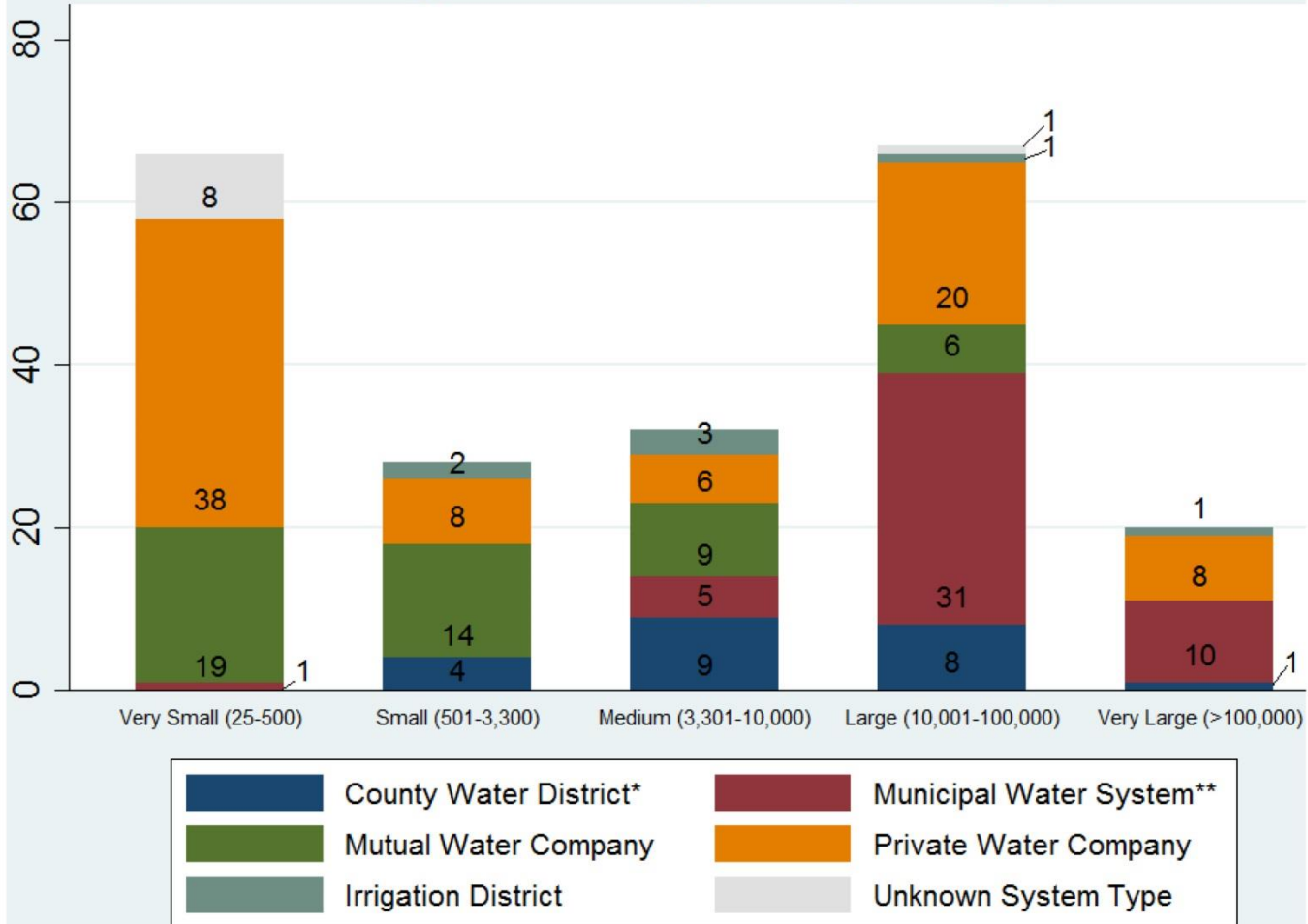
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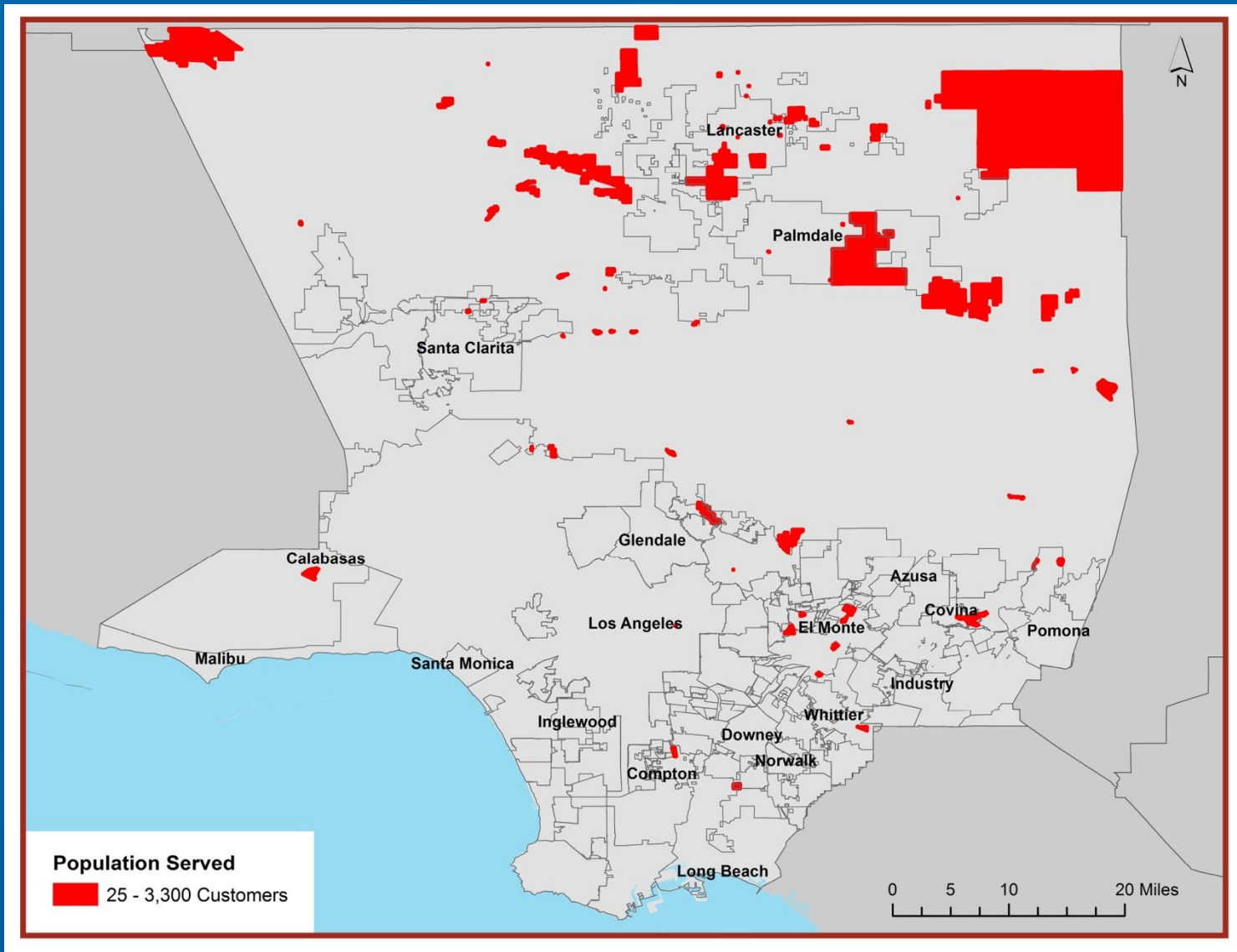
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How many and where are small
and very small systems?

Governance Type of Community Water Systems by System Size



* includes nine County Waterworks Districts ** includes two Municipal Water Districts



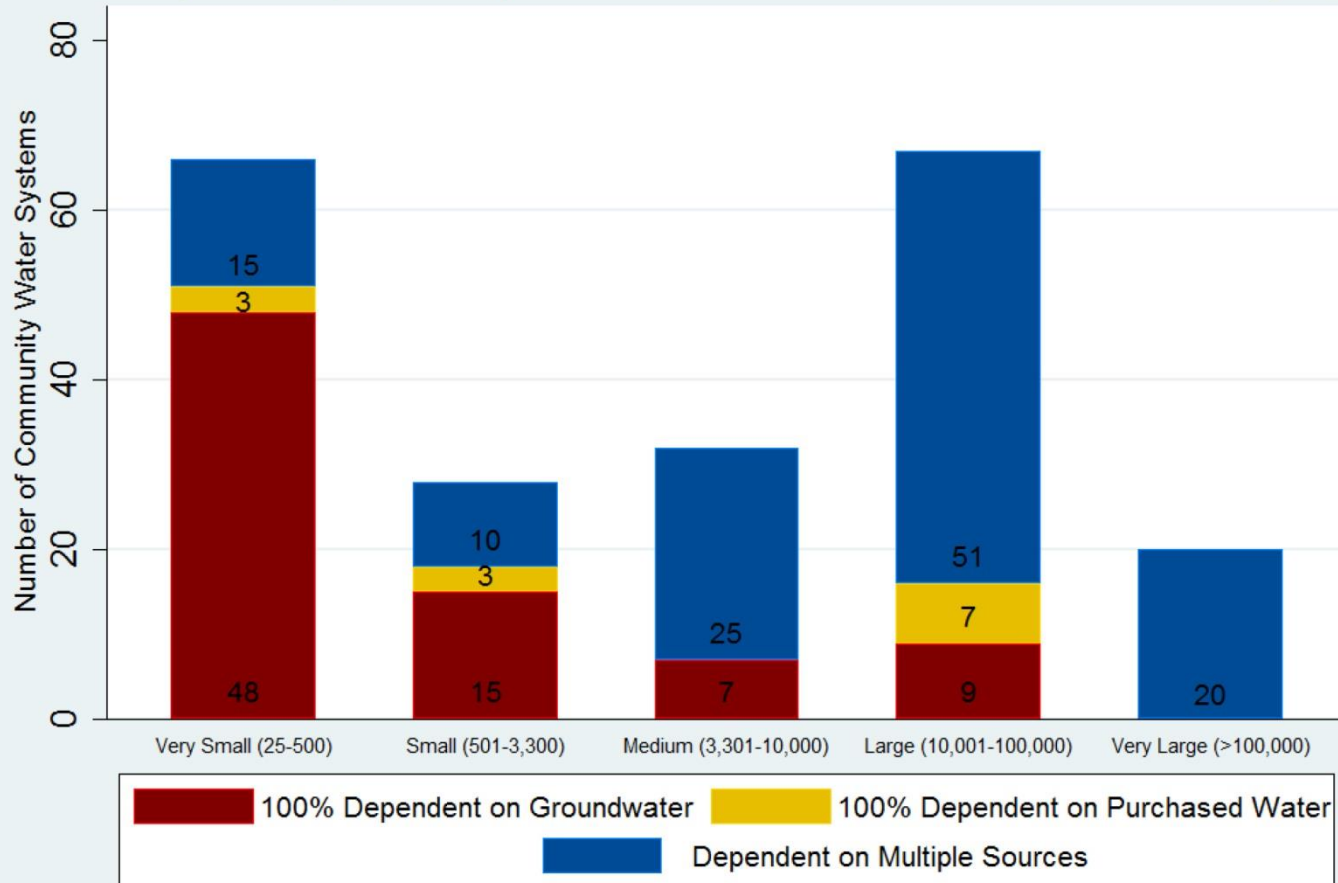
How many rely on groundwater?

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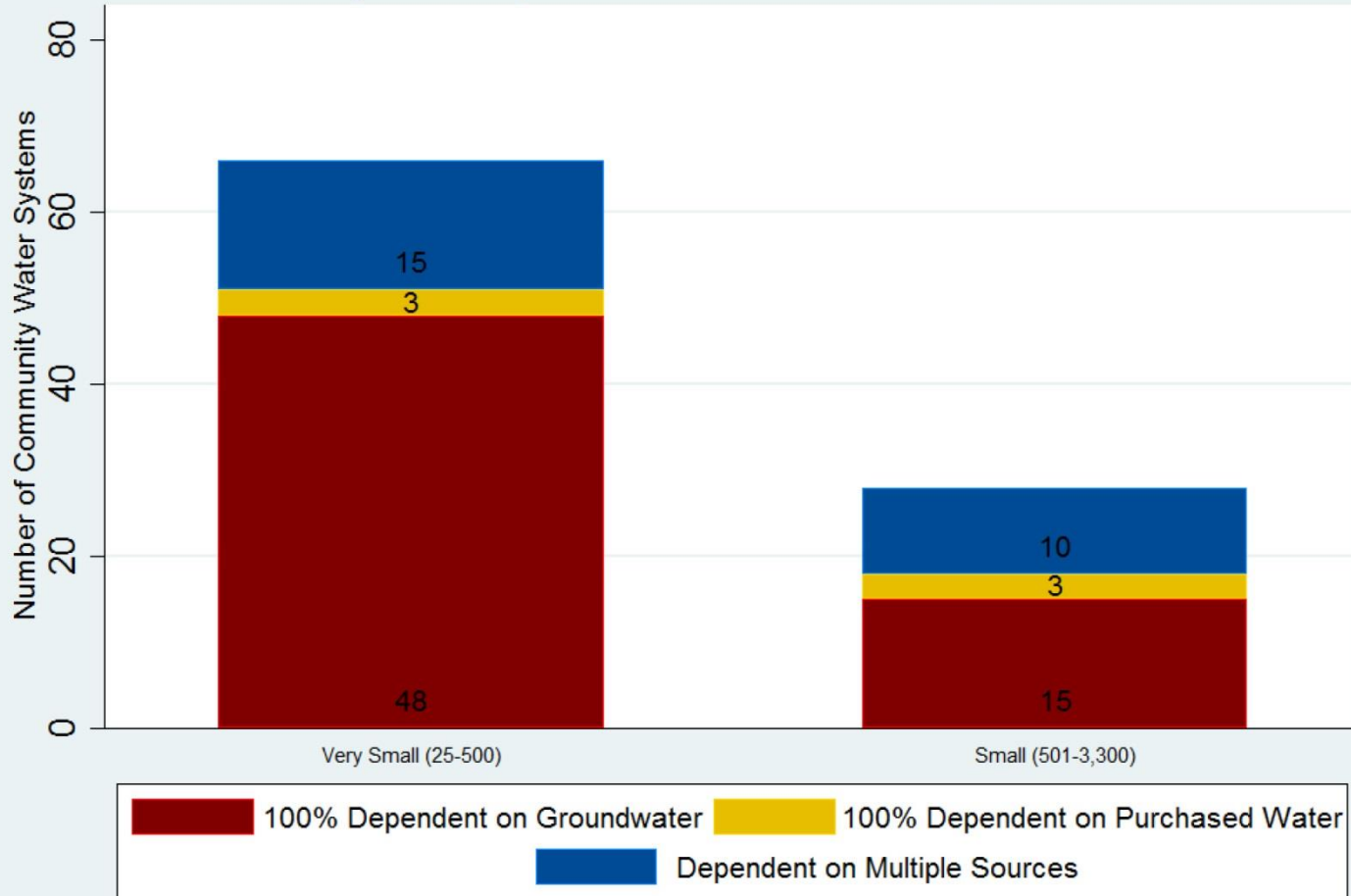
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Community Water Systems Dependent on Groundwater and Purchased Water by Size

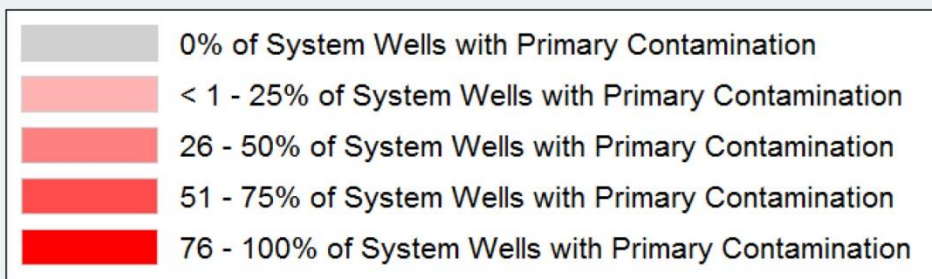
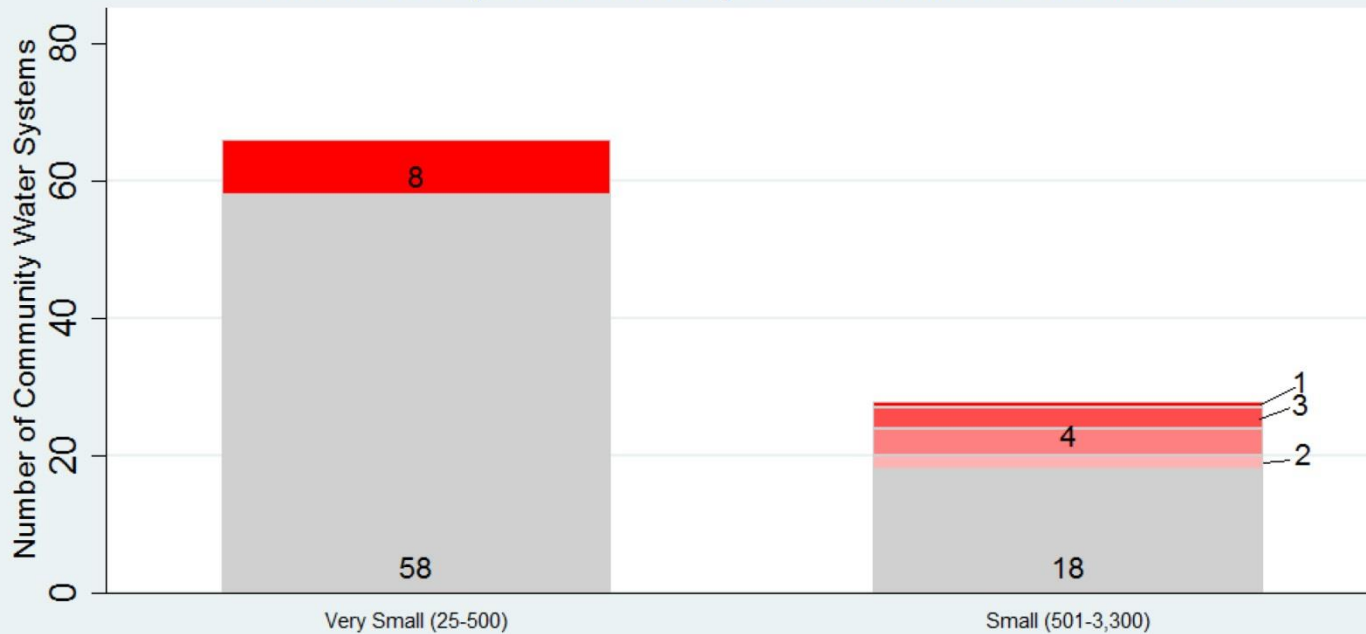


Small Water Systems Dependent on Groundwater and Purchased Water

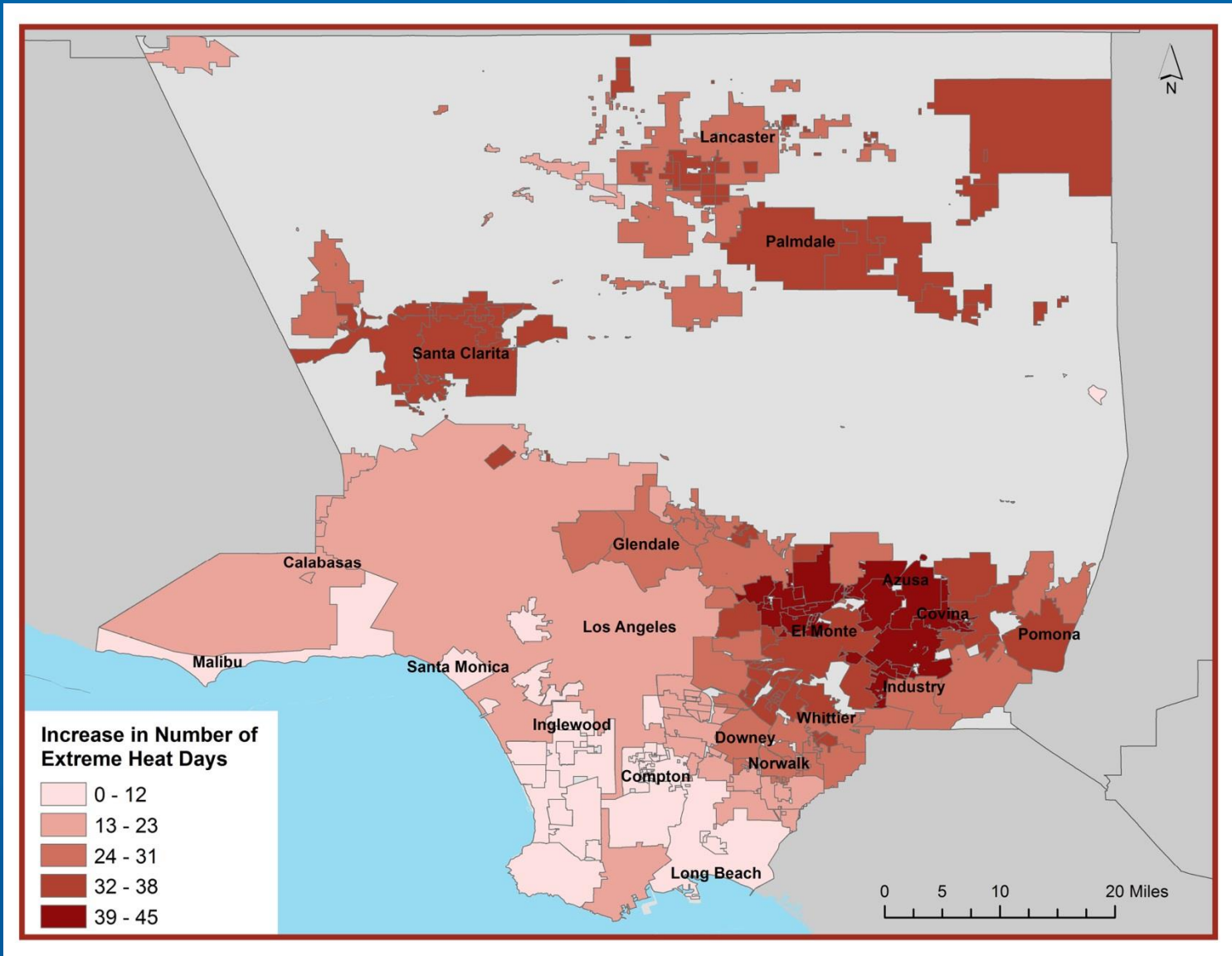


How many rely on groundwater
that is contaminated?

Small Water Systems that Rely on Contaminated Groundwater



Which systems will be hit hardest
by climate change?

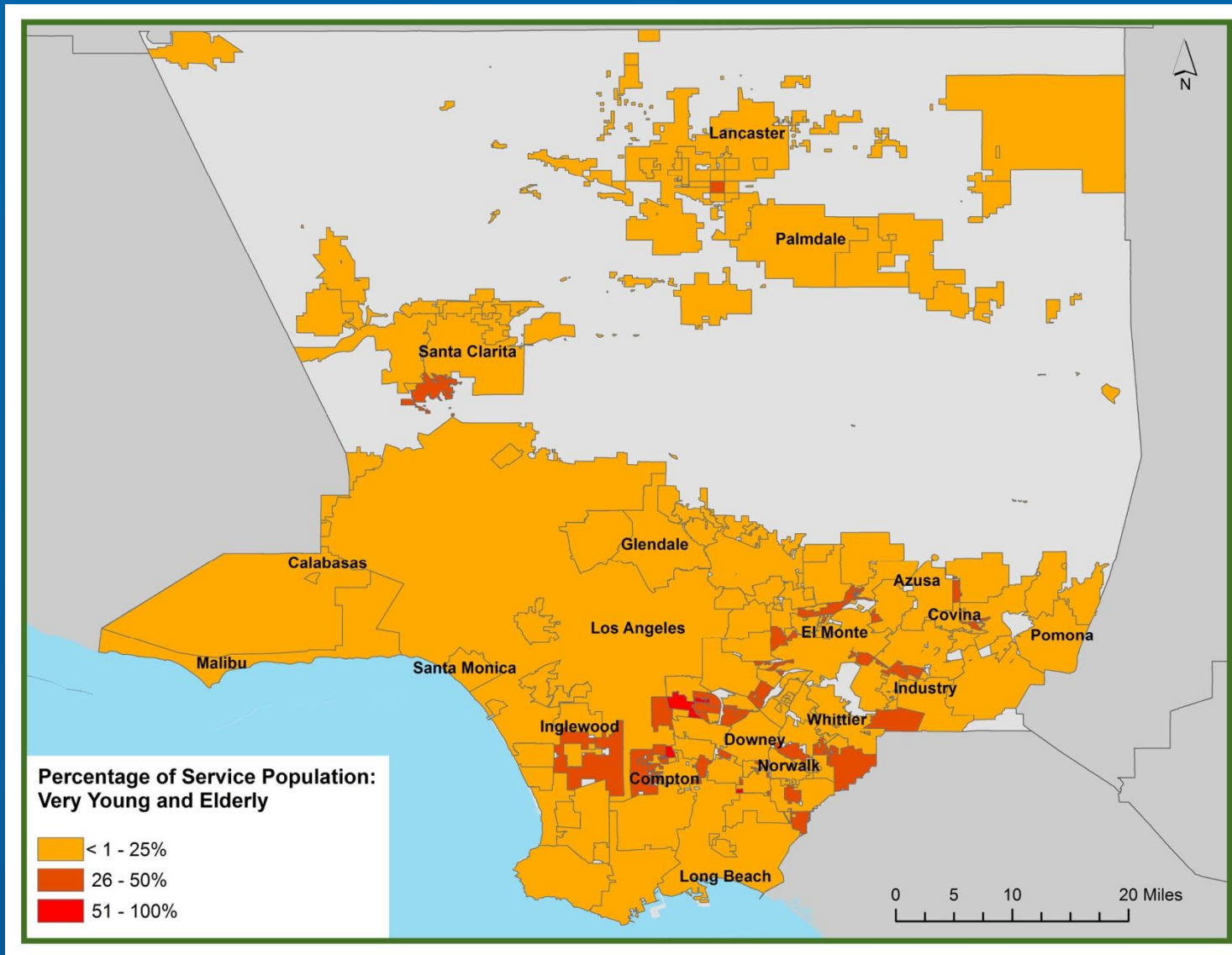


Which systems have the most
vulnerable populations?

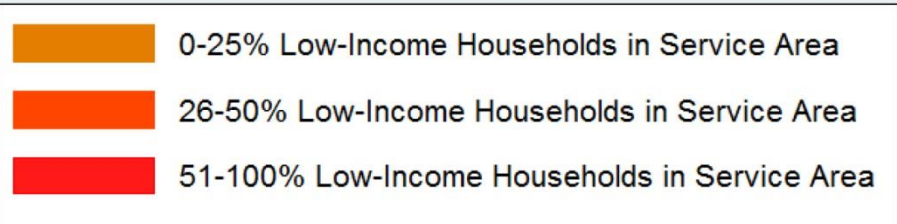
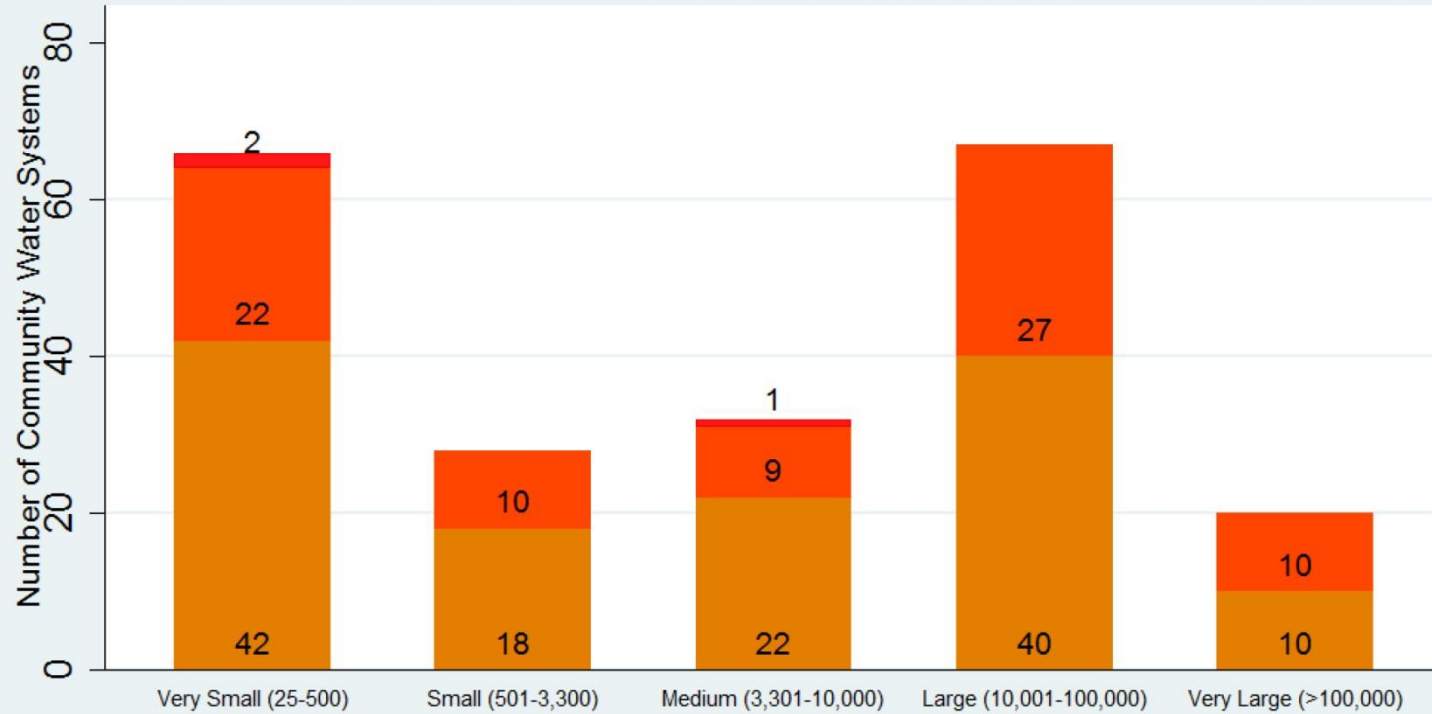
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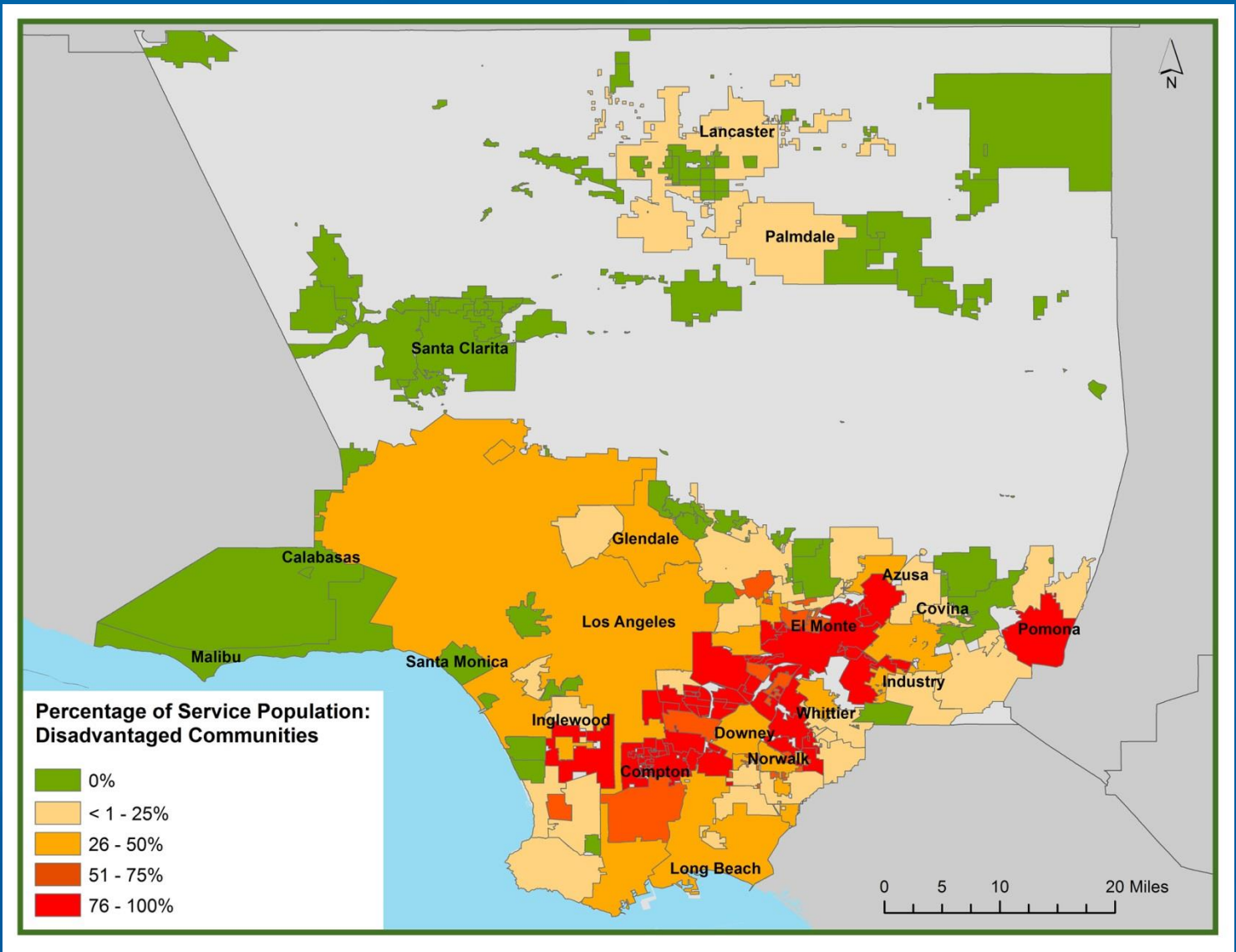
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Quartiles of Low-Income Households in Community Water Systems by System Size





Los Angeles County Water systems

Some Trends

- Even in an urban county many S and VS systems rely on groundwater.
- Disadvantaged community status and income status may diverge.
- Climate change impacts will vary greatly. Planning will be key.
- How many households are off-system and private wells? Unknown but we can estimate it.
- Prop 1 issues are not resolved for urban areas.

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