

Mobile Home Performance 2019 Searles Valley Earthquakes

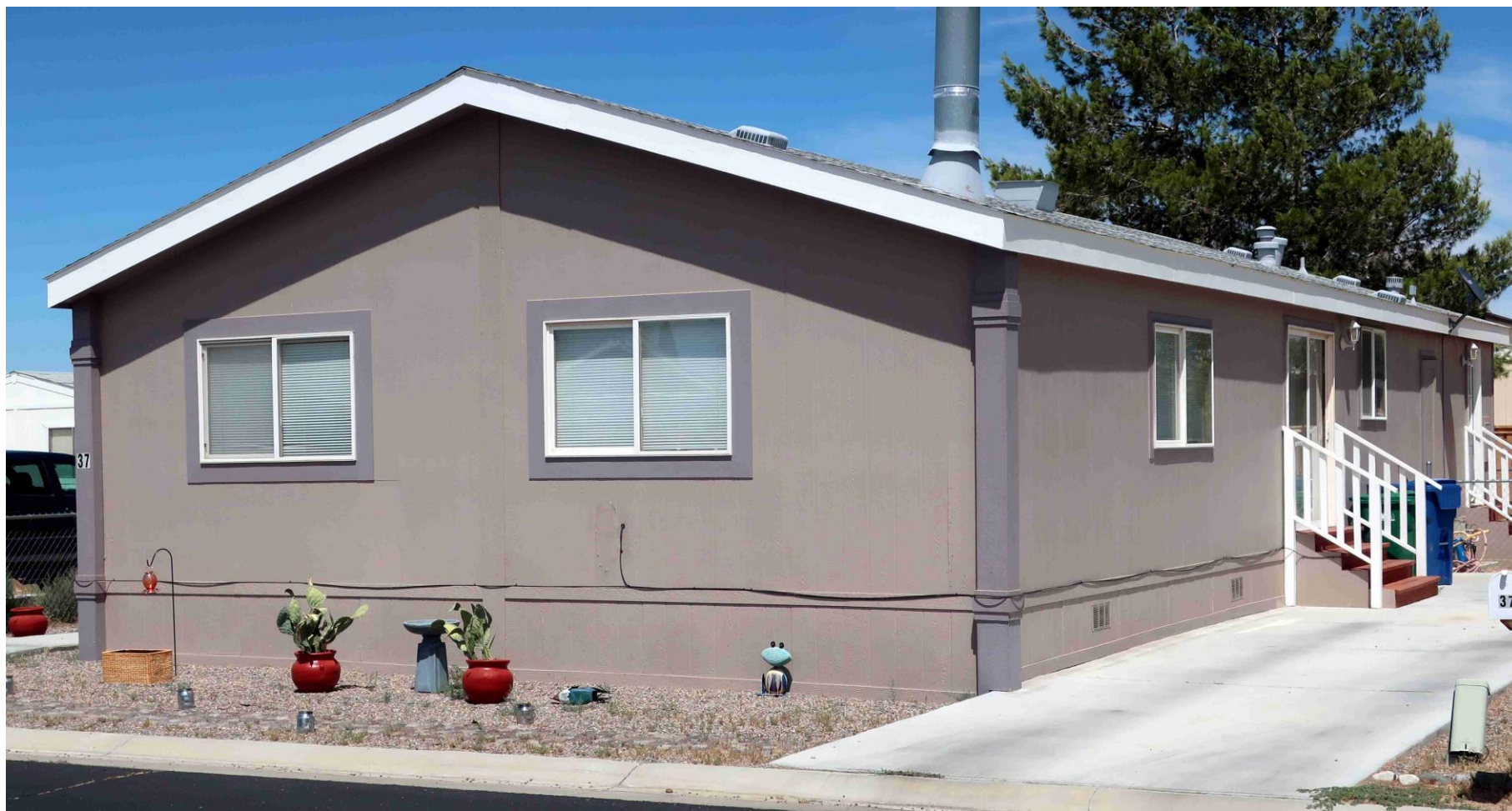
Bruce Maison, S.E.
August 2019

Mobile Homes by the Numbers

- 900 MHs in Ridgecrest
 - Most in MHPs...rest on private property
- 12 MHP surveyed = 600 homes
- 3 MHs burned down
- 50 MH shifted or fell
 - 8% of surveyed homes
 - One MHP 30% damaged...others $\leq$ 15%

Ridgecrest Mobile Homes









Support Types



Damaged Mobile Homes







Shifted & Near-Collapse



Collapsed & Crushed Pier



Pier Punching Thru Floor



Wheels Providing Support



Sliding Off Pier



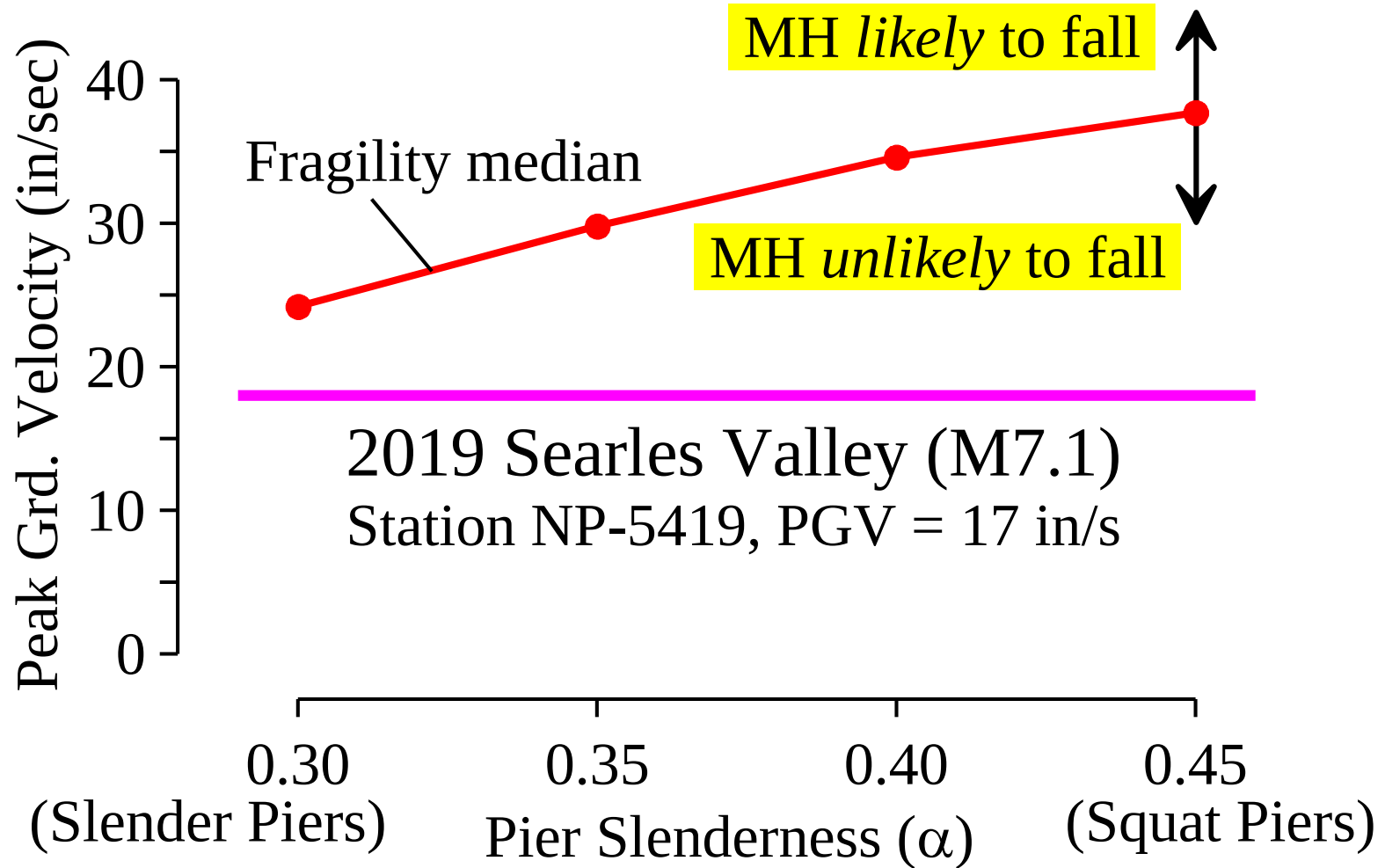
Collapsed MH w/ Tie-Downs



Re-Installation



Damage Prediction Model



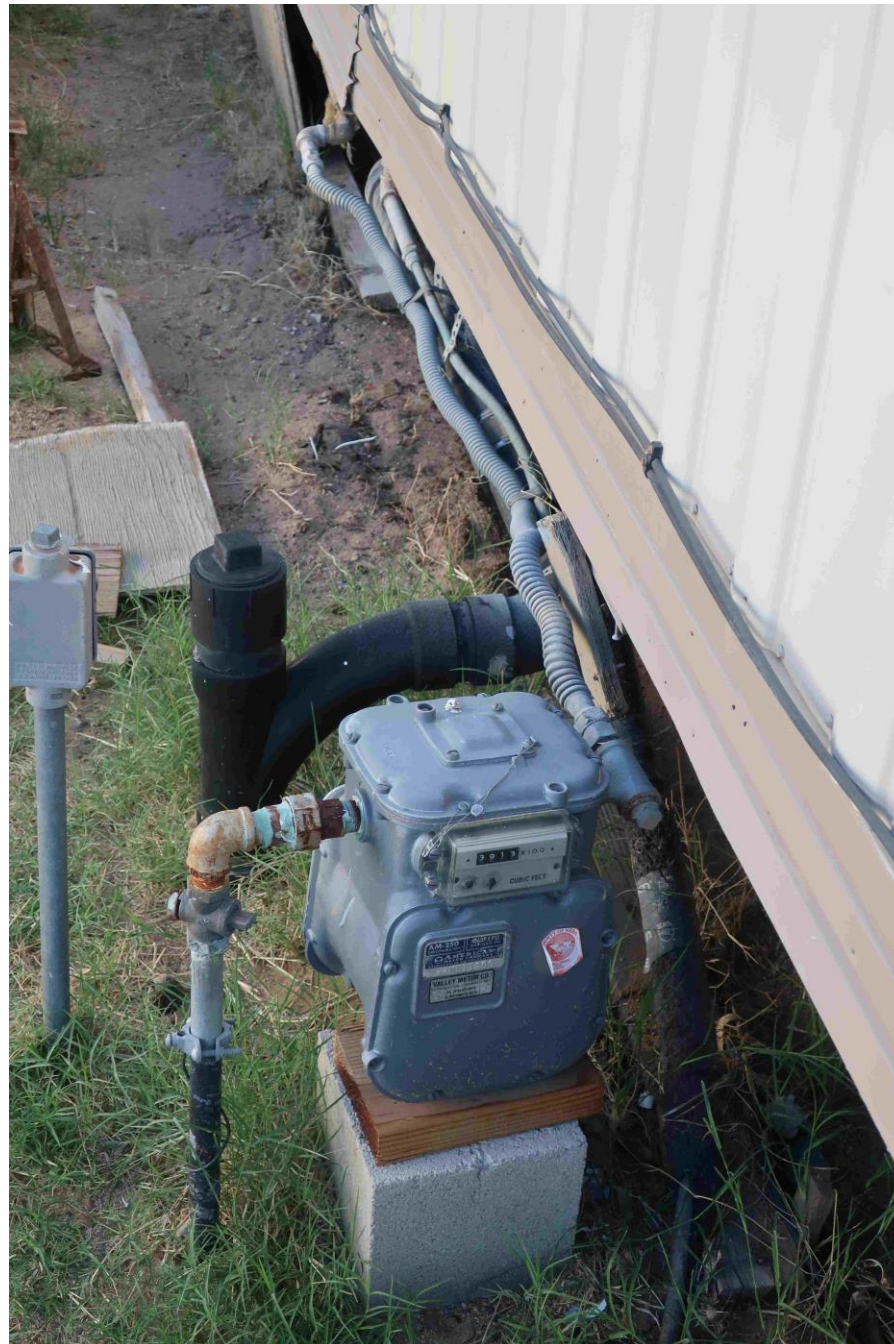
Maison & Cobeen (2016) Analytical Study of Mobile Home Response to the 2014 South Napa Earthquake, *Earthquake Spectra*, February
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Fire Damage



Gas Hook-Up

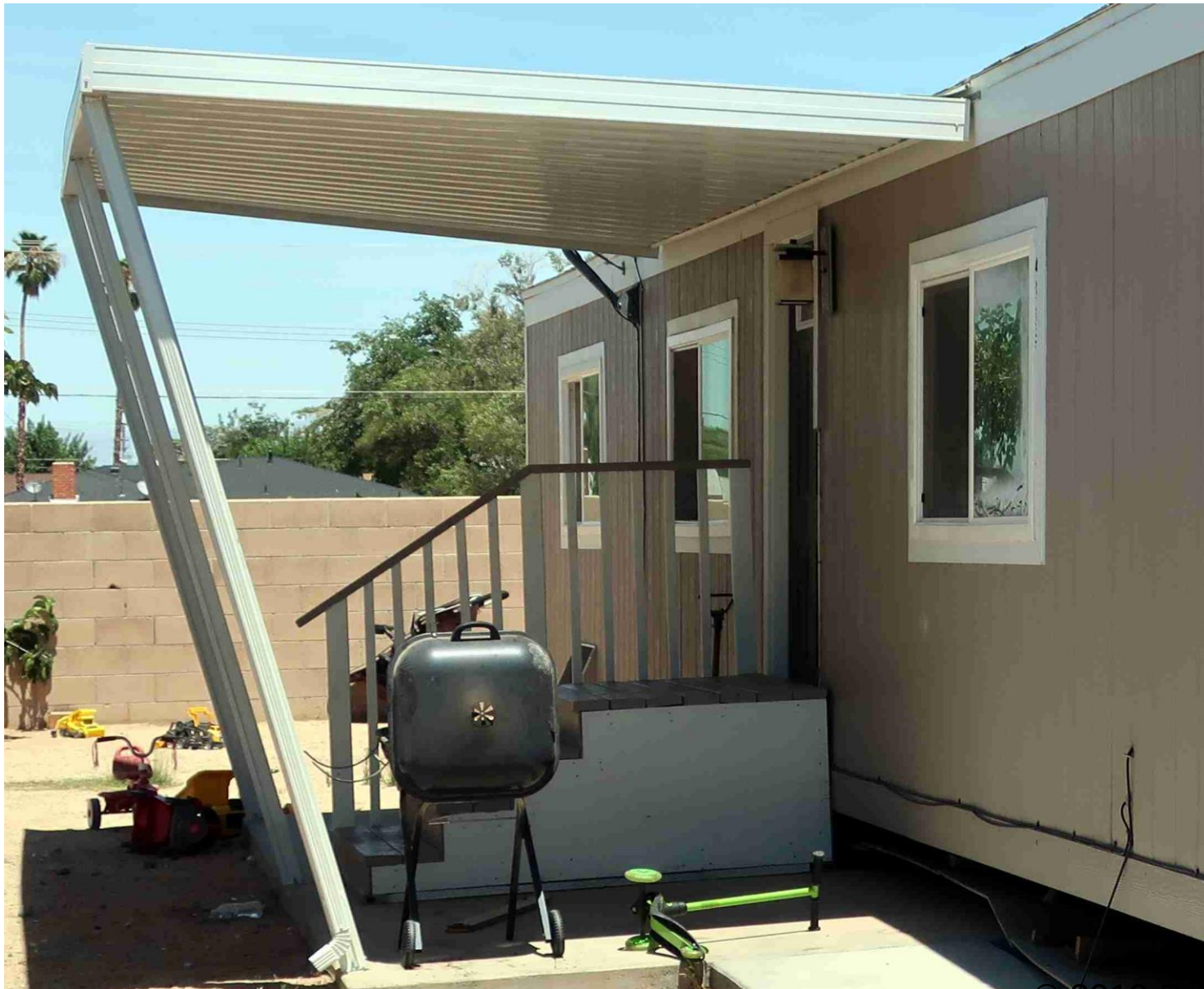




Water Heaters



Egress Issues



Egress Issues



Questions...?

- Contact Bruce Maison
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