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Drought Probability Analysis Discussion

Paul Fromer

January 28, 2011

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- Probability of Recurrence of DOR
  - Historic Data (tree ring data)
  - Statistical Analysis
  - Probabalistic Analysis

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- Historic Data (tree ring data from Cleaveland) on the DOR 1500 to present
  - 4th driest 5 year period
  - 2nd driest 10 year period
  - 4th driest 20 year period

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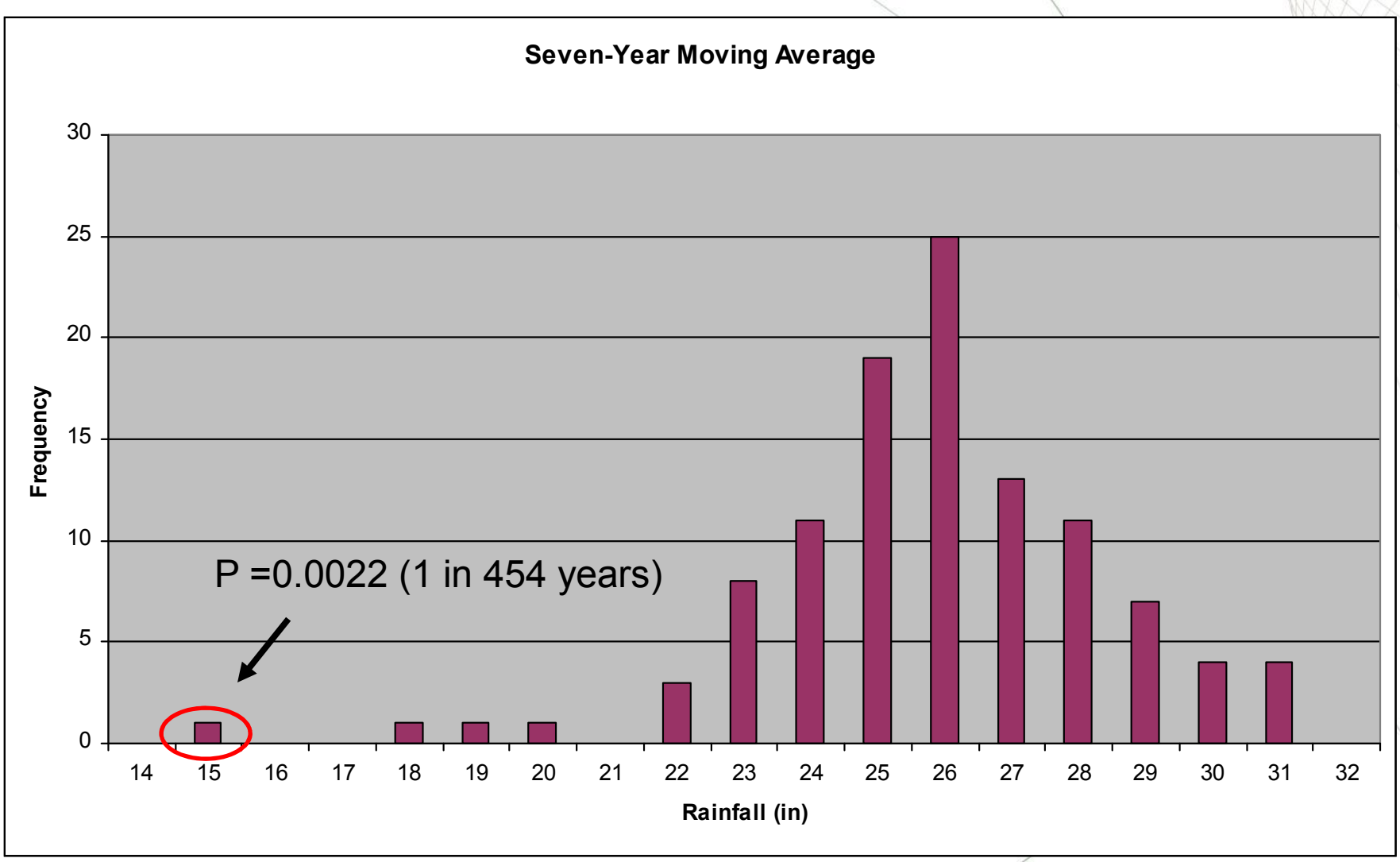

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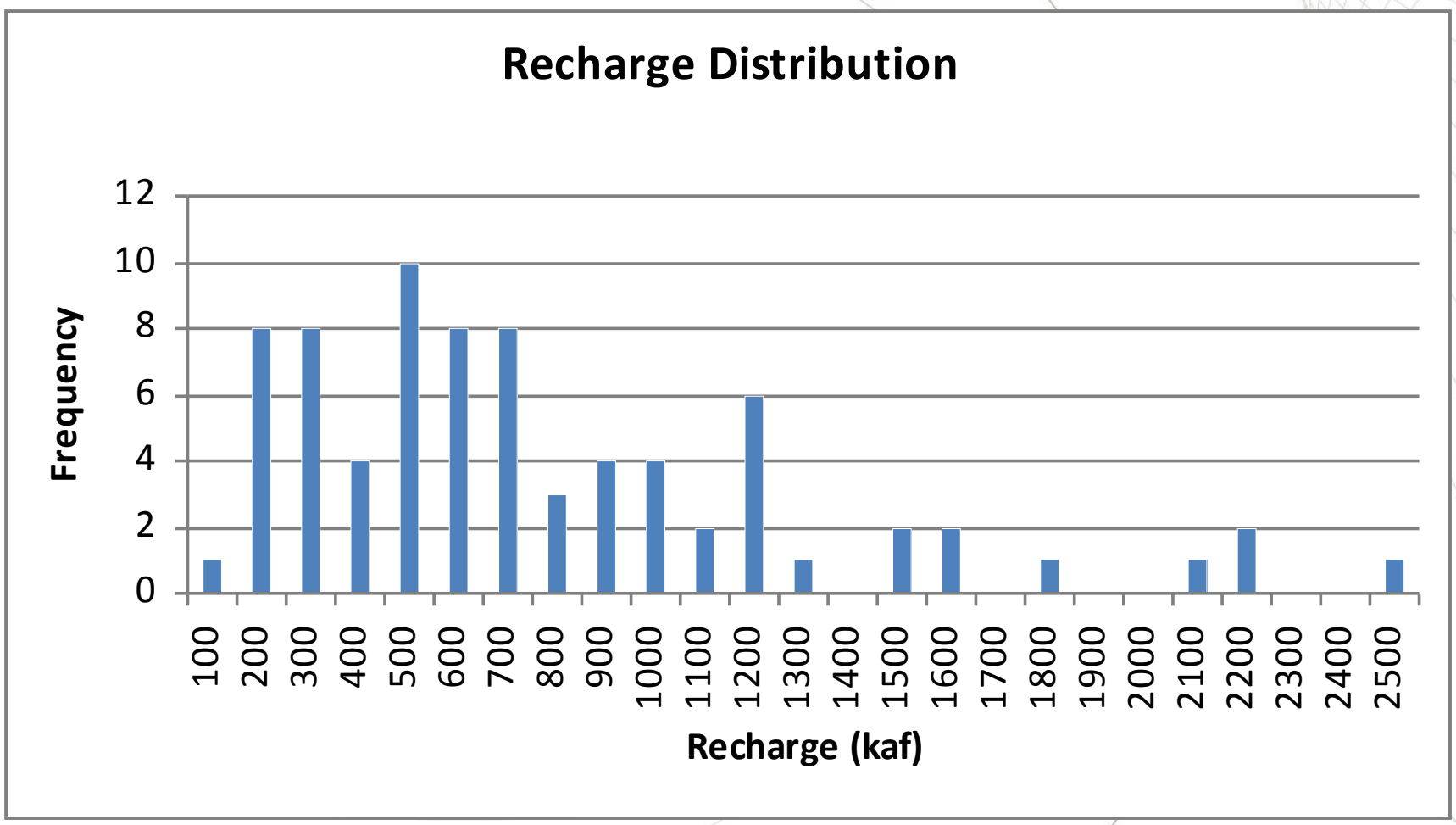

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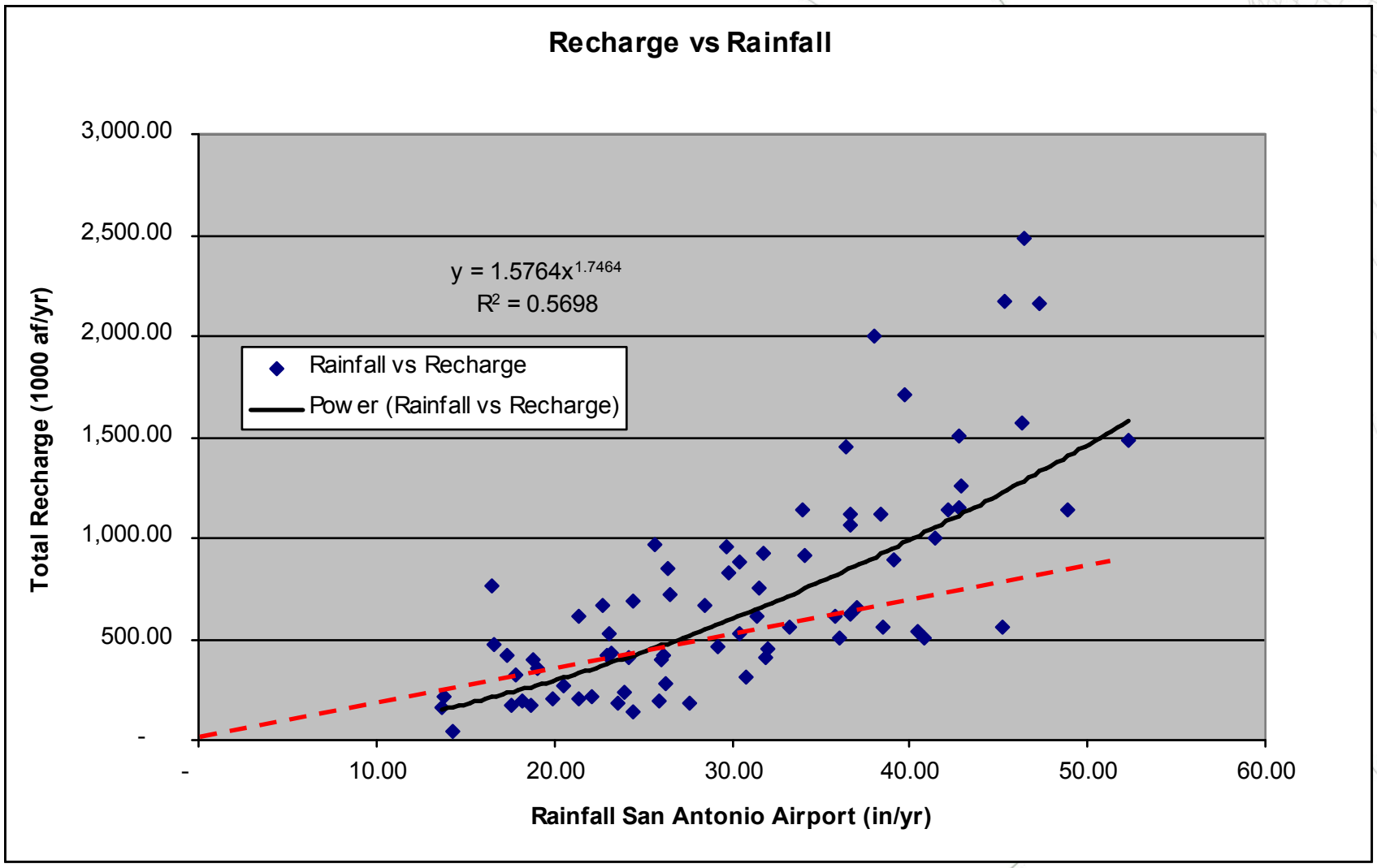

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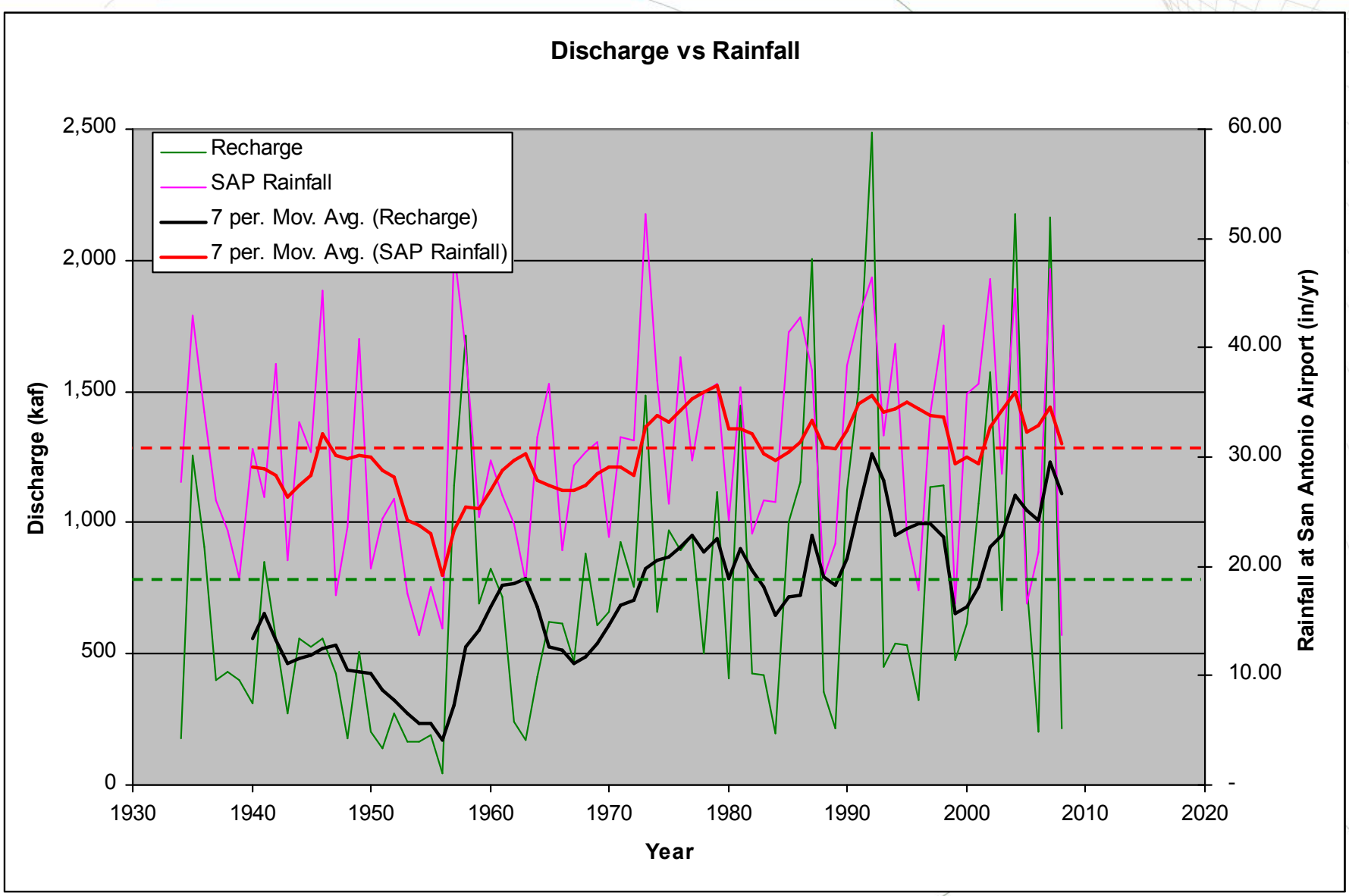

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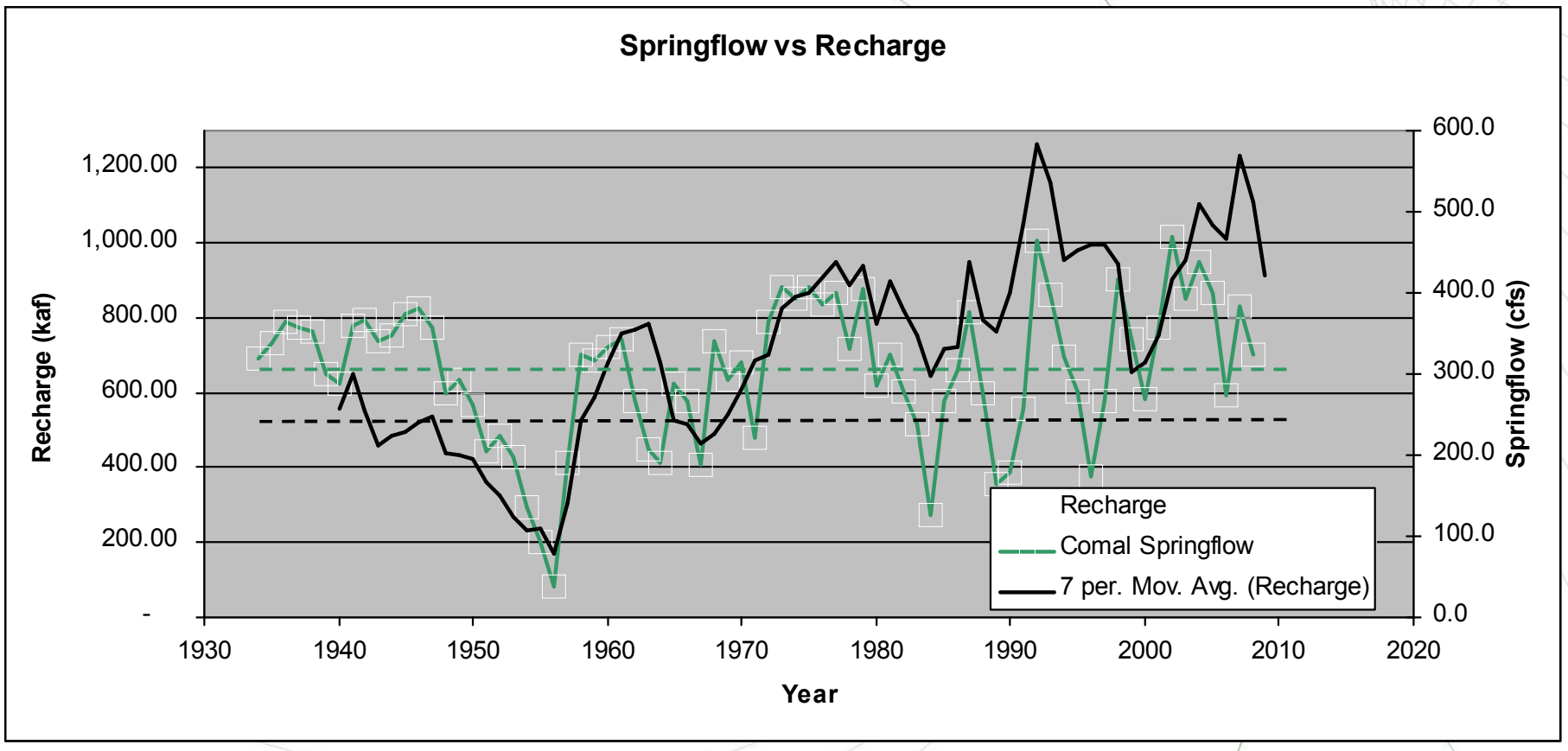

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- Probabilistic Analysis
  - Monte Carlo Analysis
  - Contingent probability (dependent upon the preceding rainfall period)

Years	3-yr	5-yr	7-yr	10-yr
2011-2015	0.00%	0.24%	0.00%	0.00%
2011-2020	0.00%	0.16%	0.00%	0.12%
2011-2025	0.03%	0.27%	0.03%	0.11%

1 in 333 years

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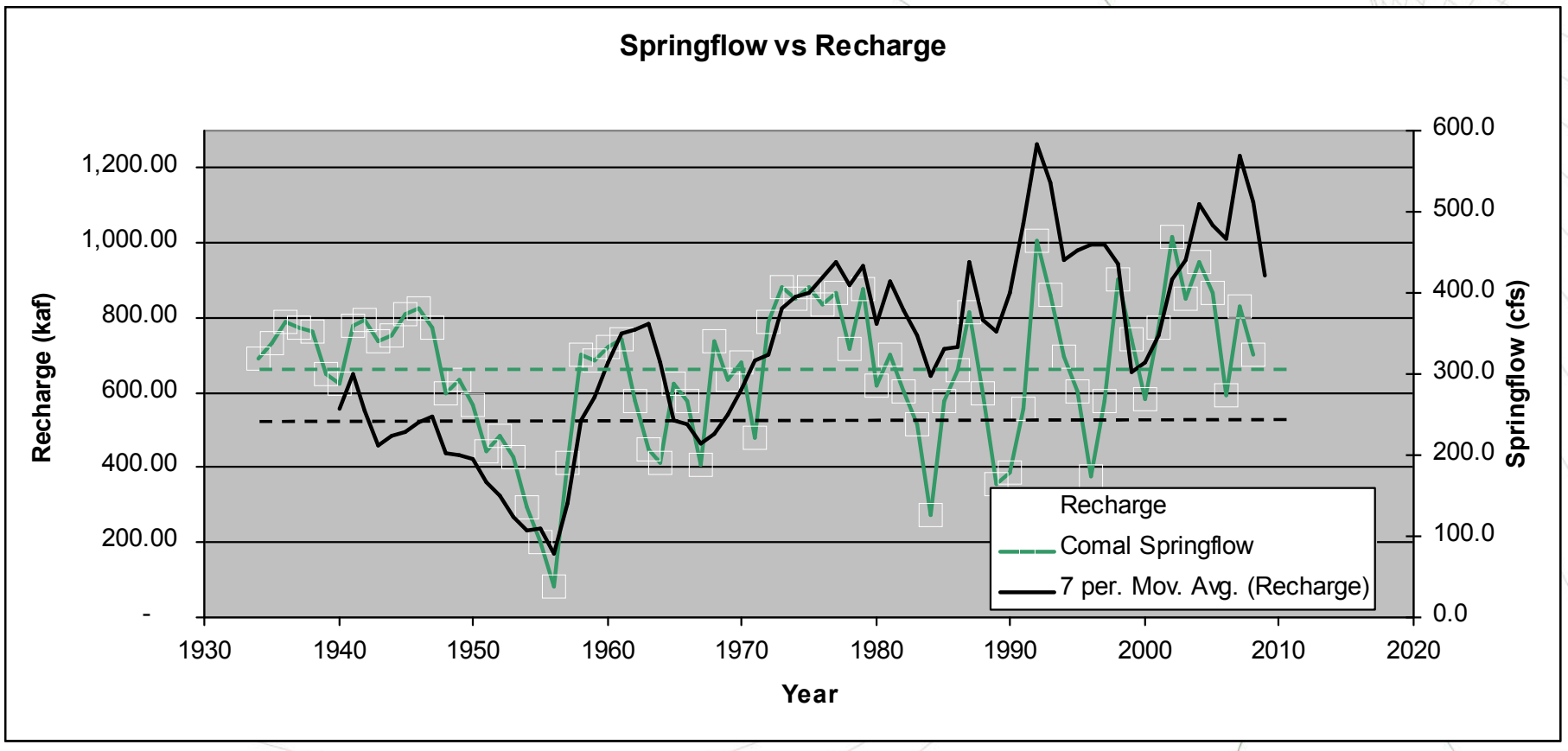

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