

May–July 2017 storage forecasts for Aquilla Lake, Lake Limestone, and Proctor Lake

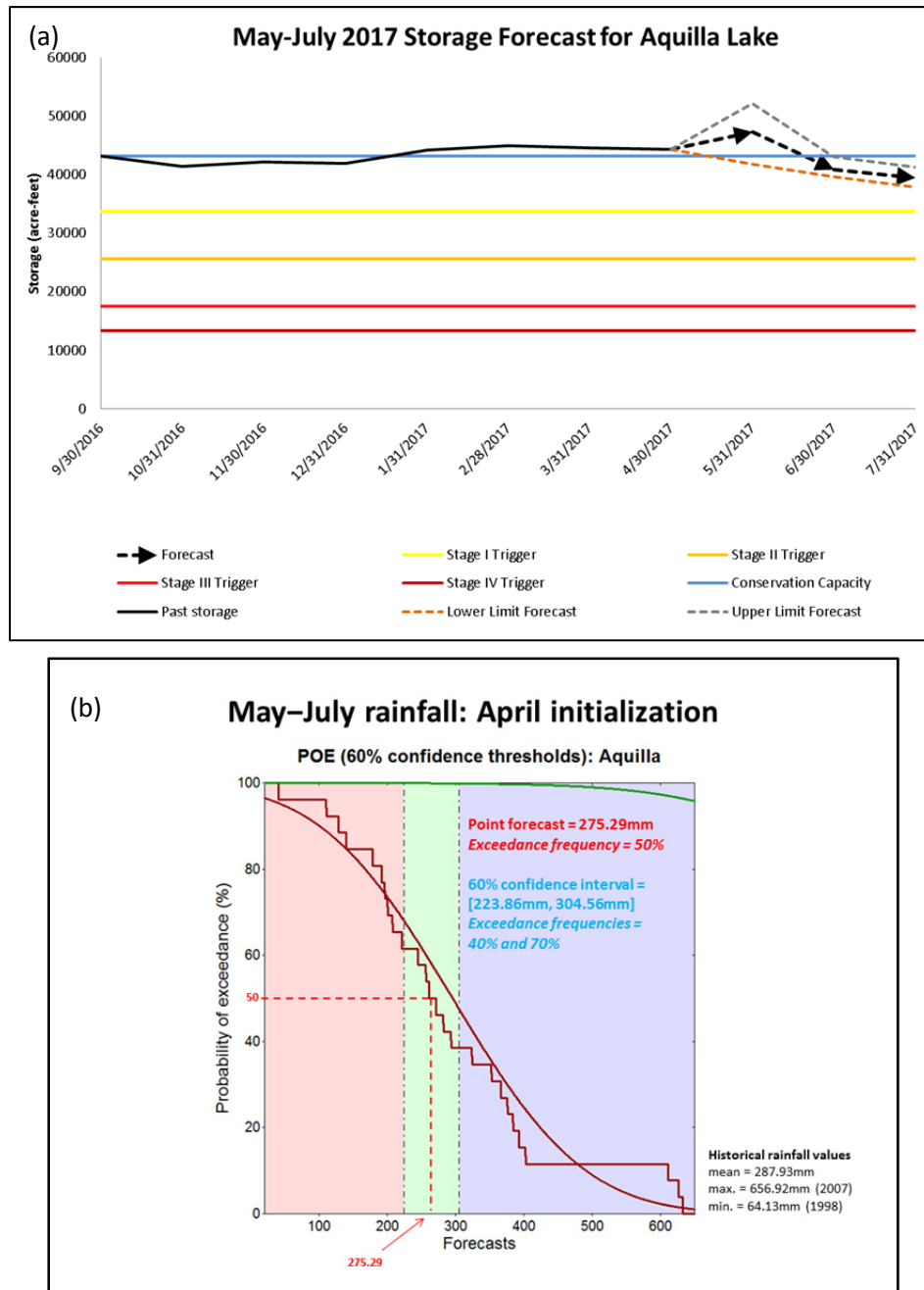


Figure 1: (a) May–July 2017 storage forecasts for Aquilla Lake. Thick dashed black arrows in (a) indicate the storage forecast generated using the point rainfall forecast. Thin dashed grey indicates the upper limit of the storage forecast generated using the upper limit of the 60% confidence interval. Thin dashed brown line indicates the lower limit of the storage forecast generated using the lower limit of the 60% confidence interval; and (b) Exceedance frequency curve for May–July rainfall over Aquilla Lake. The stepped brown curve shows exceedance probabilities associated with climatological rainfall values, and the smooth curve shows a log-normal fit to the climatological rainfall exceedances. The red dashed line indicates the point forecast of 275.29mm and its associated exceedance probability of 50%.

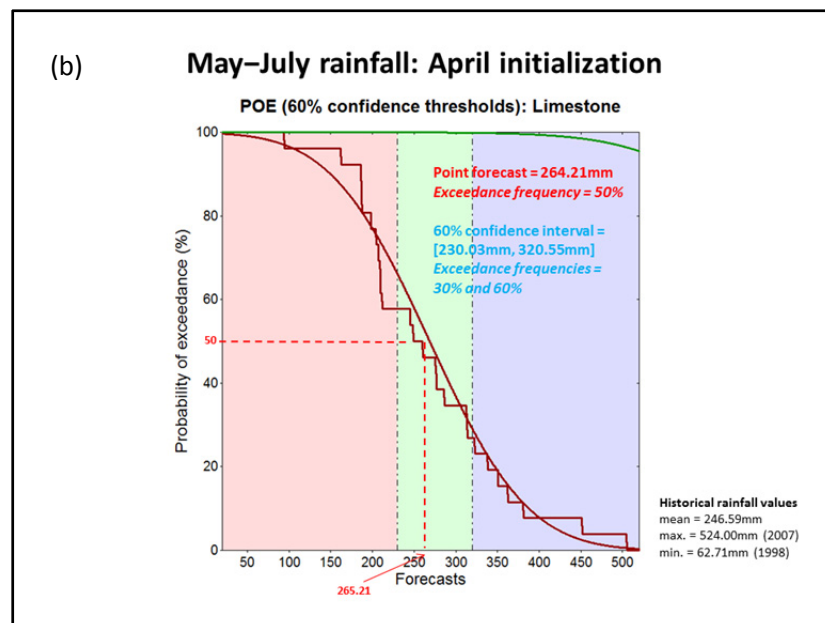
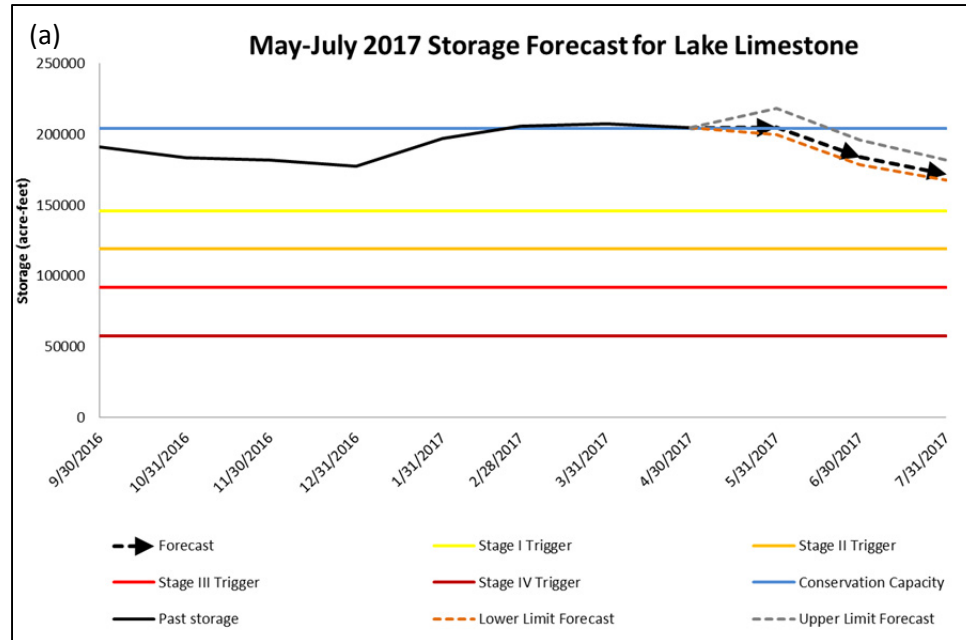


Figure2: (a) May–July 2017 storage forecasts for Lake Limestone. Thick dashed black arrows in (a) indicate the storage forecast generated using the point rainfall forecast. Thin dashed grey indicates the upper limit of the storage forecast generated using the upper limit of the 60% confidence interval. Thin dashed brown line indicates the lower limit of the storage forecast generated using the lower limit of the 60% confidence interval; and (b) Exceedance frequency curve for May–July rainfall over Lake Limestone. The stepped brown curve shows exceedance probabilities associated with climatological rainfall values, and the smooth curve shows a log-normal fit to the climatological rainfall exceedances. The red dashed line indicates the point forecast of 264.21mm and its associated exceedance probability of 50%.

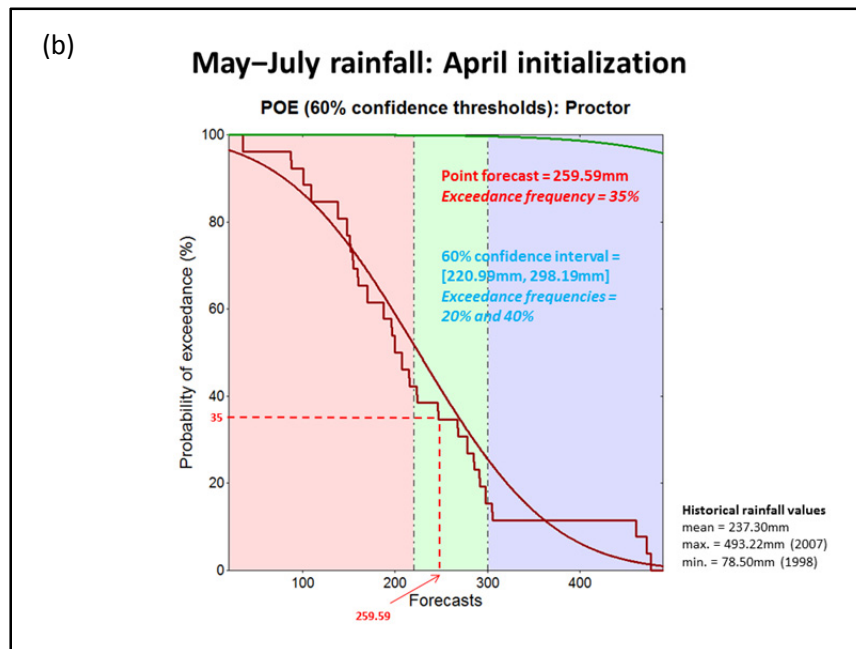
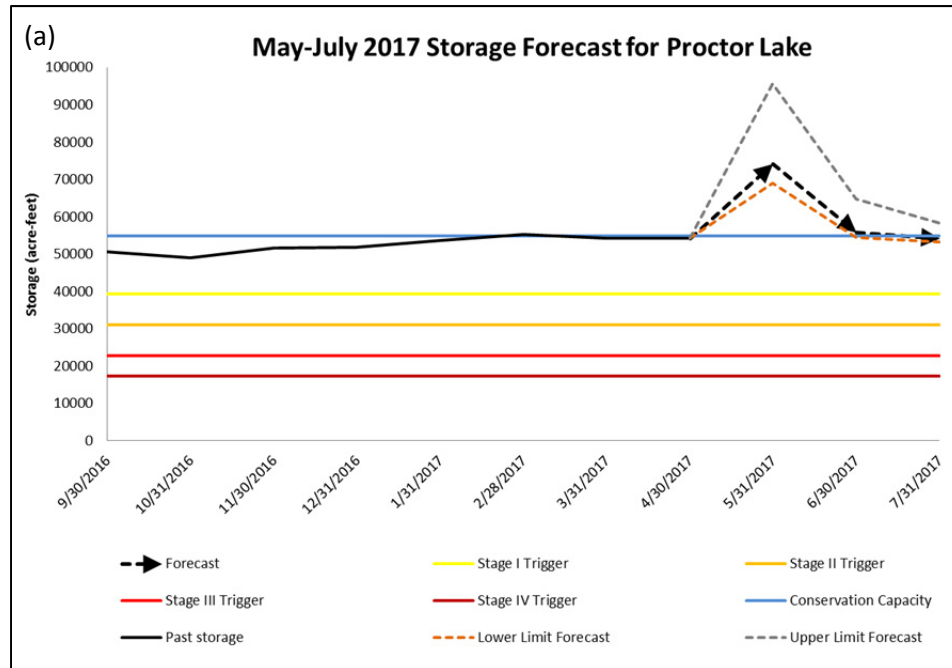


Figure 3: (a) May–July 2017 storage forecasts for Proctor Lake. Thick dashed black arrows in (a) indicate the storage forecast generated using the point rainfall forecast. Thin dashed grey indicates the upper limit of the storage forecast generated using the upper limit of the 60% confidence interval. Thin dashed brown line indicates the lower limit of the storage forecast generated using the lower limit of the 60% confidence interval; and (b) Exceedance frequency curve for May–July rainfall over Proctor Lake. The stepped brown curve shows exceedance probabilities associated with climatological rainfall values, and the smooth curve shows a log-normal fit to the climatological rainfall exceedances. The red dashed line indicates the point forecast of 264.21mm and its associated exceedance probability of 35%.

For more information on the storage forecast see:

https://waterdatafortexas.org/reservoirs/reports/MJJ2017_reservoir_storage_forecasts_Aquilla_Limestone_Proctor.pdf

Acknowledgement:

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