



Hydrologic Variance Request

Agenda Item 6.9.1

May 9, 2018



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Overview

- RWPGs shall use unmodified TCEQ WAM RUN 3 (plus anticipated sedimentation) to estimate reservoir yields and water available to run-of-river diversions to determine existing water supplies.
- If RWPG would like to use an alternative methodology to evaluate water availability, RWPG may submit written request to TWDB Executive Administrator (EA) for hydrologic variance to modify default hydrologic assumptions.
- If EA finds hydrologic variance necessary and/or appropriate to more accurately reflect existing water supplies, the EA provides approval.
- EA has accepted Brazos G's request, with one exception.



Suggested Revisions to WAM for Regional Planning

- Utilize recent hydrologic extension of WAM completed by BRA
 - Extends period of record through 2015
 - Naturalized flows not fully adjusted – only for rights exceeding 1,000 acft/yr
 - Not as accurate post-1997, but provides longer period of record
 - Resulting naturalized flows likely more conservative (smaller) than if full adjustment made
 - Extended period of record more important than precision of extended naturalized flows
- Assumptions from 2006, 2011 and 2016 Plans
 - Include conservative amount of return flows
 - Used for 2006, 2011 and 2016 Plans
 - Confirm and update for 2021 Plan
 - Model BRA contracts at actual diversion locations
 - Include subordination agreements
 - ?Use Brazos G Mini-WAM for Clear Fork Basin to Possum Kingdom?
 - Full update of naturalized flows through 2015
 - Evaluate/compare then decide on best approach
 - Utilize same safe yield assumptions as utilized in 2016 Plan

~~Request to use water supply model for strategy evaluations~~

~~TWDB may require some adjustments back to Run 3~~



Questions?

