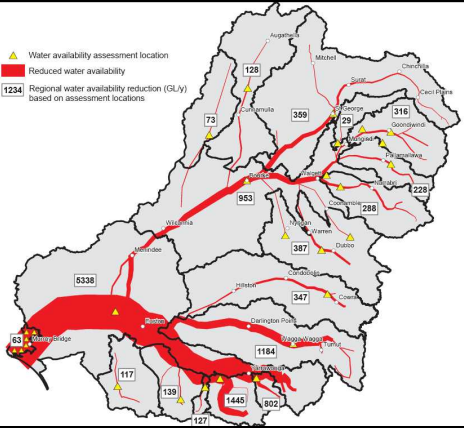
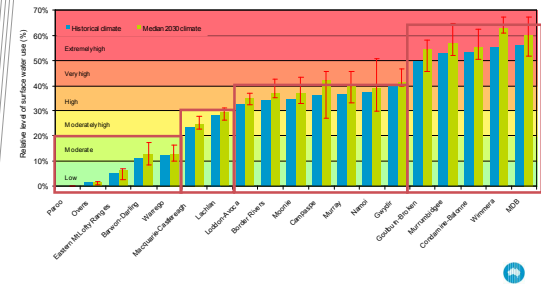


Extreme climate change impact



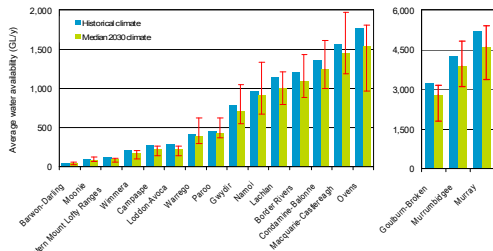
Relative level of surface water use

- MDB: 48 percent of available surface water is diverted for use
- ~11,300 GL/year on average; from ~23,400 GL/year



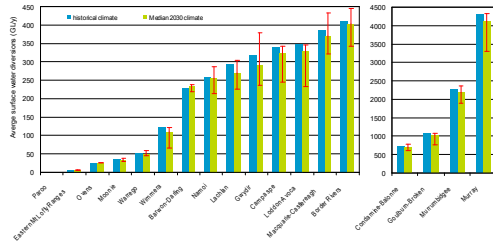
Impact of climate by region

- MDB: median impact is an 11% reduction in available water
- ~2500 GL/year on average

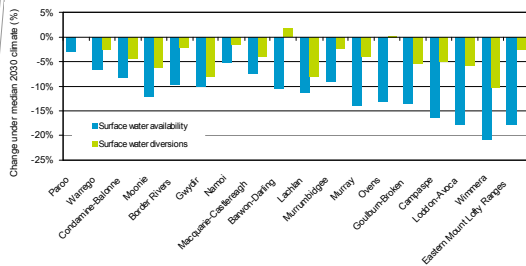


Change in volumes diverted for use

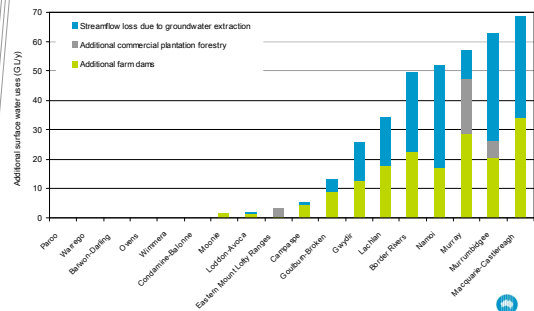
- MDB: 4% reduction in total diversions ~450 GL/year

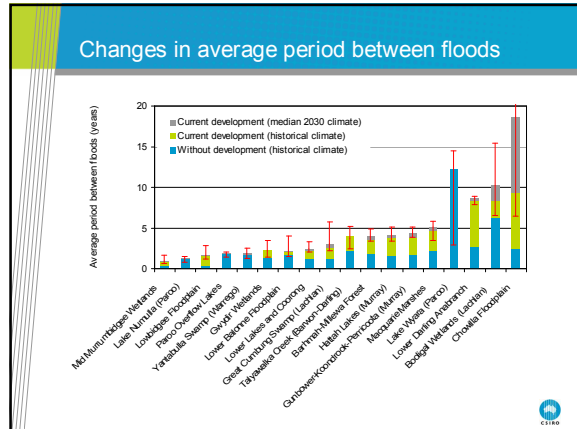
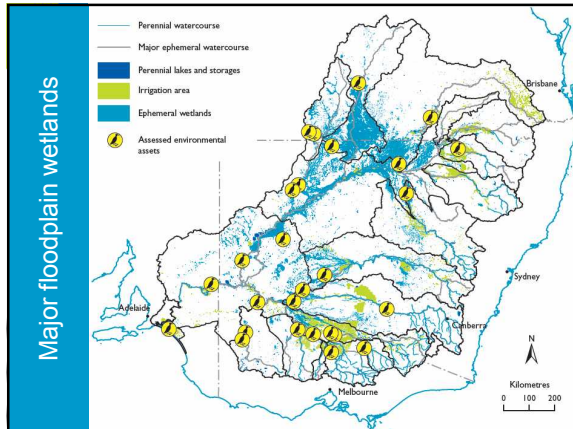


Impact sharing – median 2030 climate



Additional future surface water uses





- ### Key messages
1. Water resource development has caused major changes in the flood regimes that support important lakes and wetlands.
 2. Under the median 2030 climate water availability would fall by 11% – 9% in the north and 13% in the south.
 3. The range of possible climate outcomes is wide due to the uncertainty inherent in current climate models.
 4. Under current arrangements 11% less water would only reduce average use by 4%; the majority of the impact would be borne by the environment.
 5. Water use impacts would be greatest in dry years – up to 50% less in the south.
 6. Groundwater extraction cannot be maintained at current levels in seven GMUs.
 7. Groundwater **could** increase to be over 25% of total water use.
 8. Additional **expected** forestry and new farm dams would represent fairly minor additional water uses – although these are uses outside the entitlement regime.

- ### Project Outputs
- For the entire Basin
 - Synthesis report bring all results and implications together
 - Summary report for media and general public
 - For each of 18 regions
 - Full 100+ page technical report: methods and results
 - 12 page summary for general public
 - 1 page factsheet for media outlets
 - 12 major technical reports documenting models and methods
 - ~20 internal technical memoranda
 - USB drive containing all this material

Murray-Darling Basin Sustainable Yields Project

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