



Factors affecting inflows into Harvey Water irrigation water supply dams

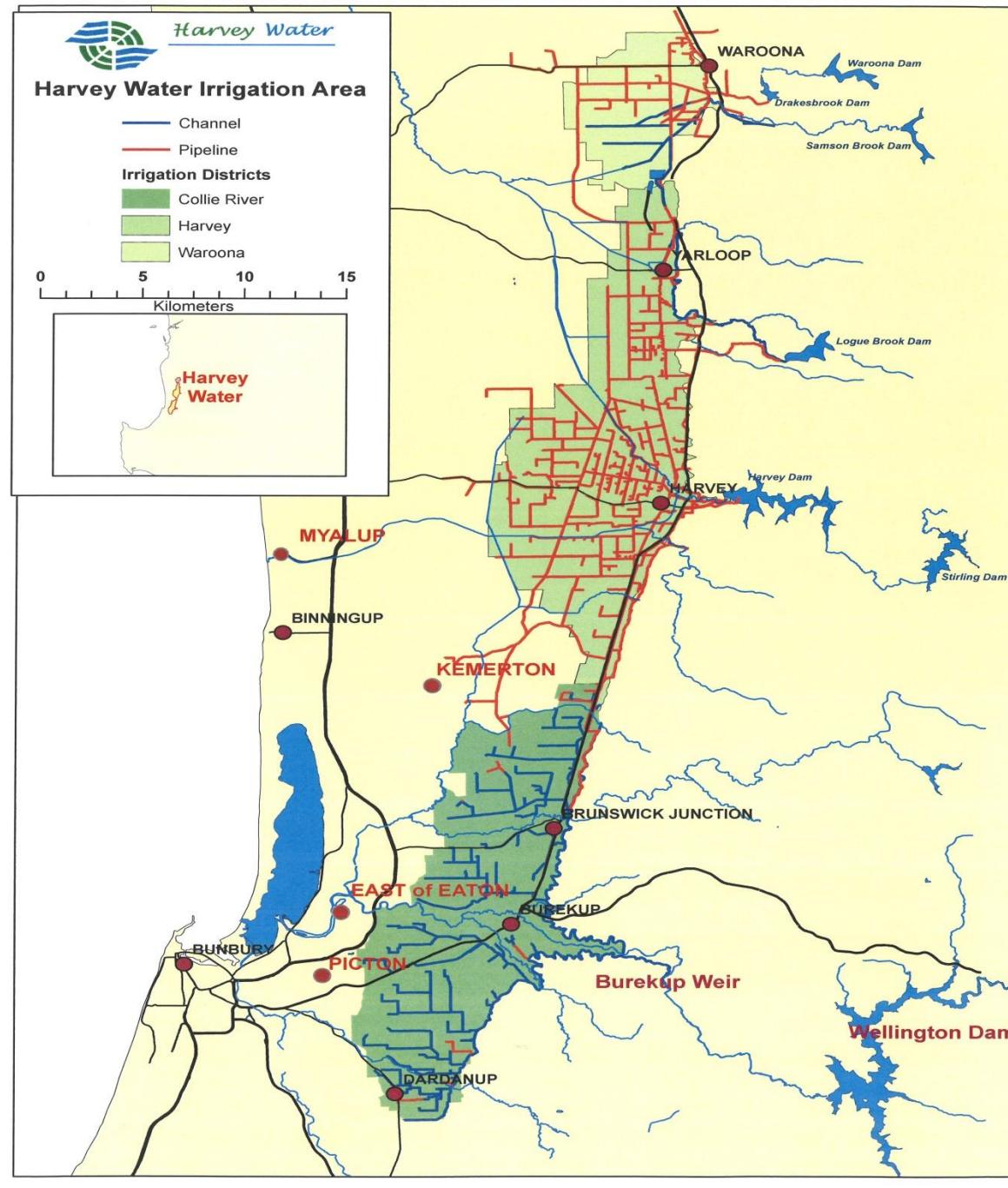
Geoff Calder
General Manager
Harvey Water

Forested Catchment Management Forum
Bentley 30 September 2016



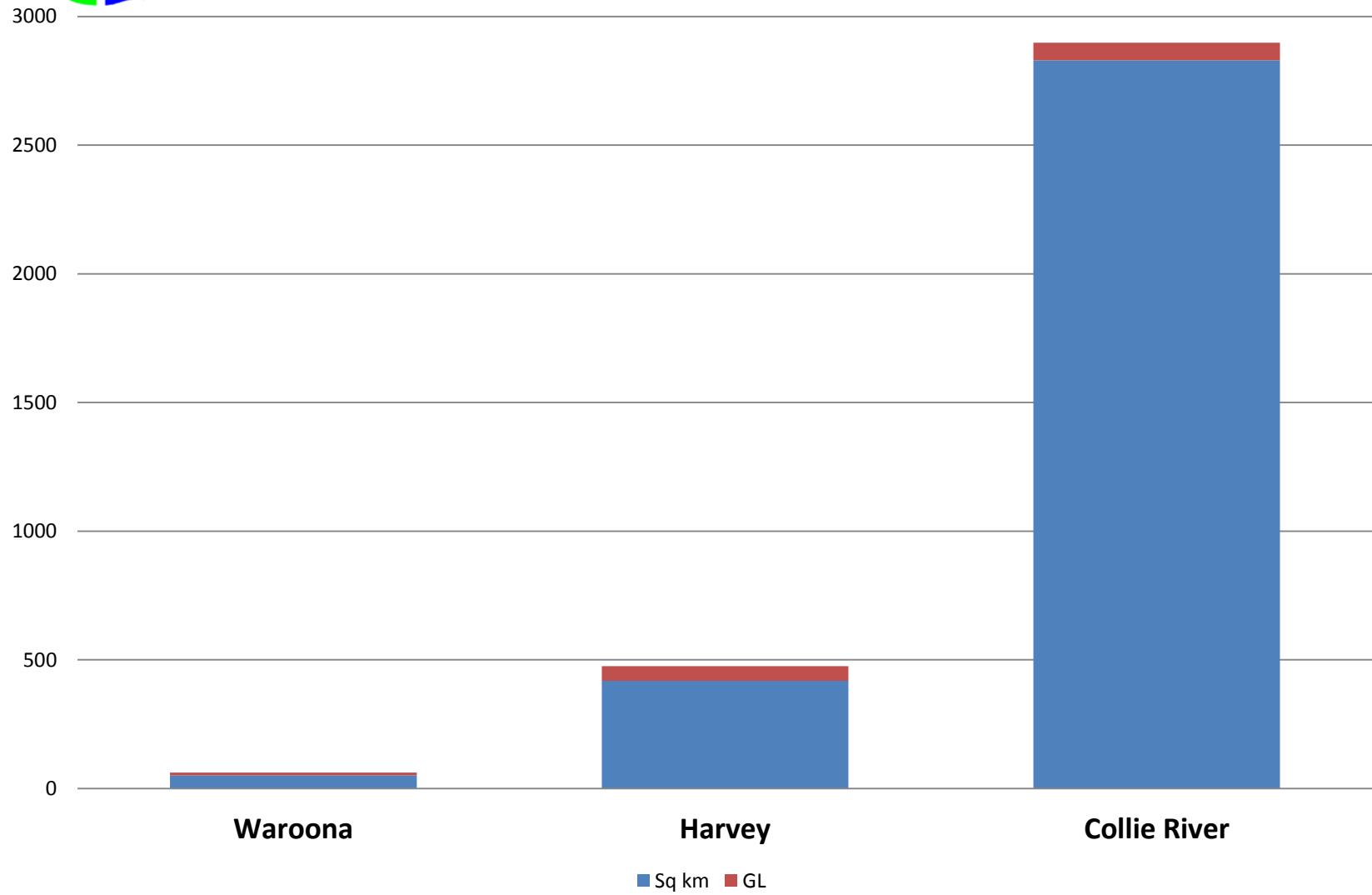
Harvey Water

- A private cooperative water supply utility with 750 irrigator members in the Waroona, Harvey & Collie River Irrigation Districts – collectively the Harvey Water Irrigation Area (HWIA)
- Licence from ERA to be a water supply utility
- 3 licences from DoW to take water from Waroona, Drakesbrook, Logue Brook, Harvey & Wellington dams, totalling 137 GL.
- Dams are owned by Water Corporation but operated by Harvey Water by agreement.
- Irrigators run dairy, beef & horticultural enterprises





Catchment area (sq km), licensed entitlements (GL) for three Harvey Water irrigation districts





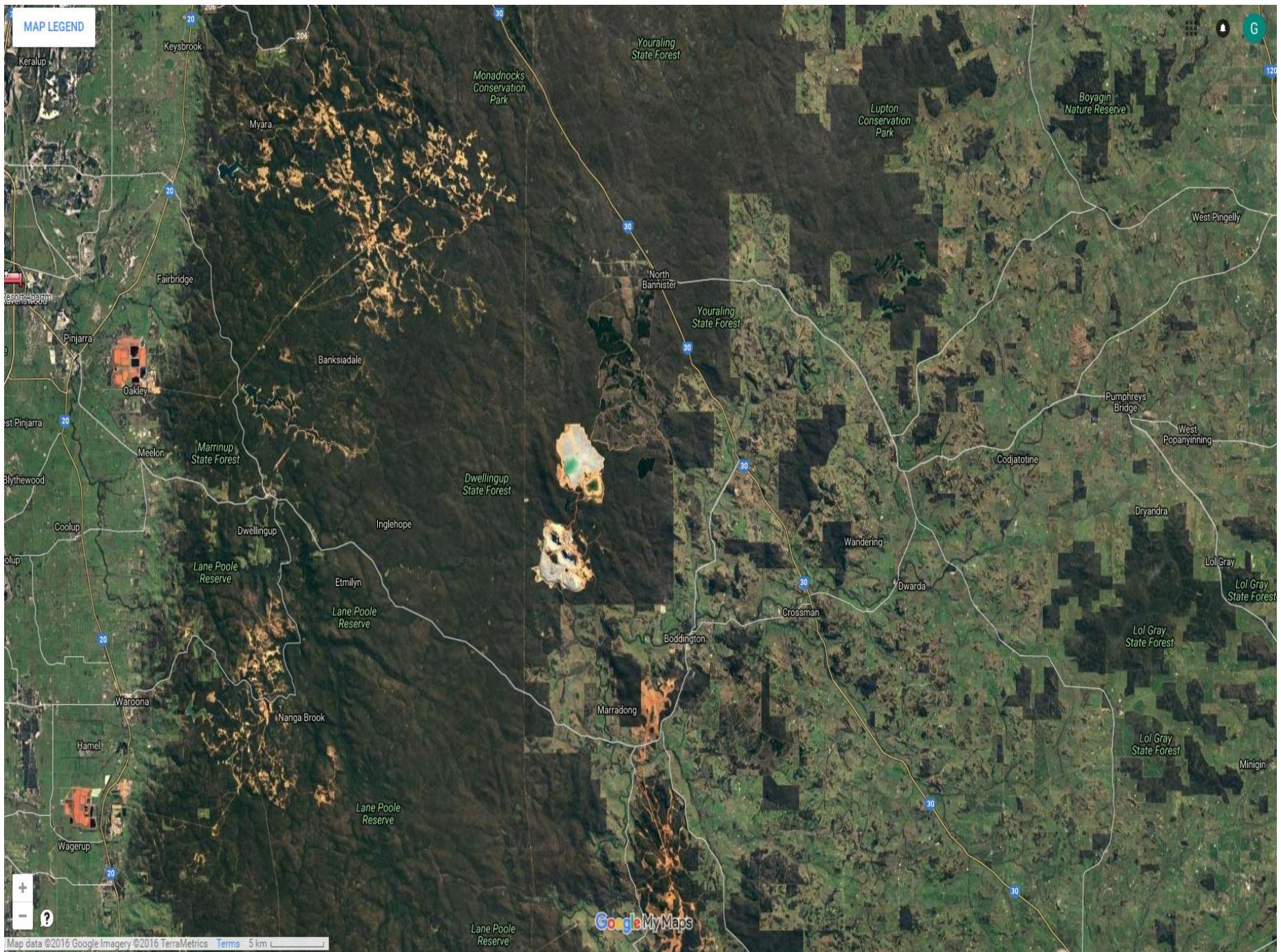
Comparison of area (sq. km), licensed entitlement (GL) & water yield (GL/sq km) for three catchments

	Sq km	GL	GL/sq km
Waroona	50	11.46	0.23
Harvey	418	57	0.14
Collie River	2830	68	0.02

MAP LEGEND



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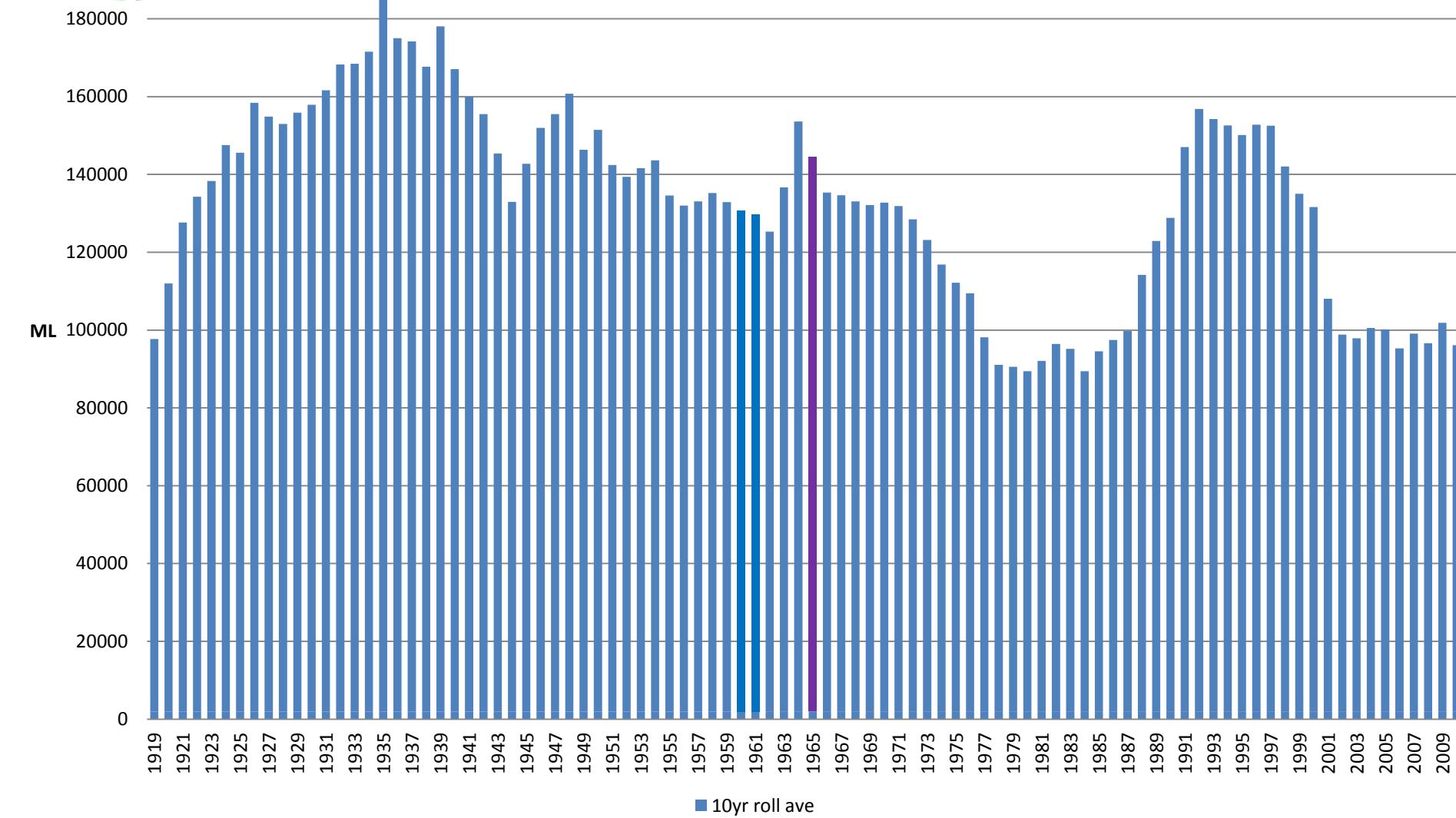


2004

Google Earth

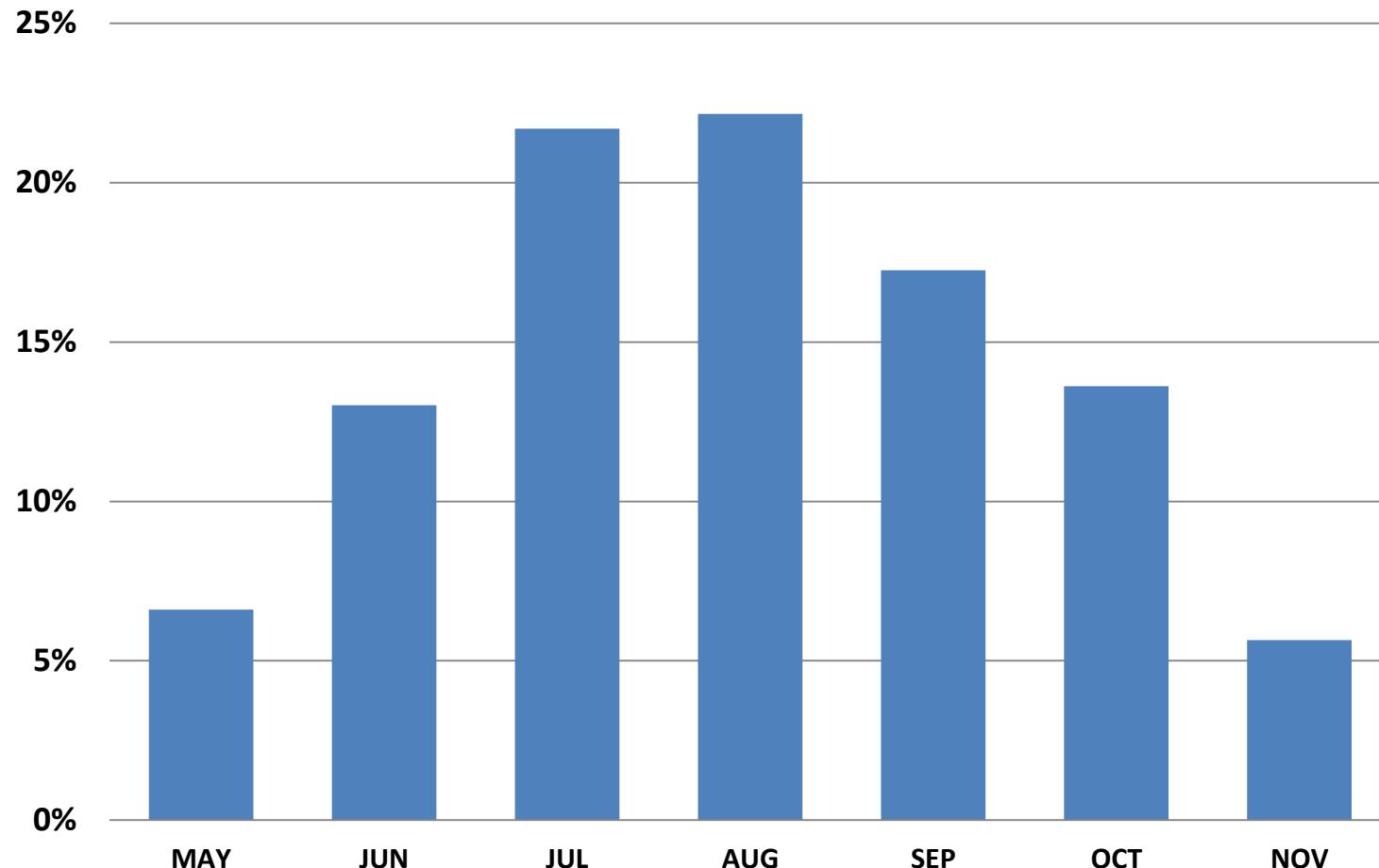


Drakesbrook/Waroona flows - 10 year rolling average 1910-2010



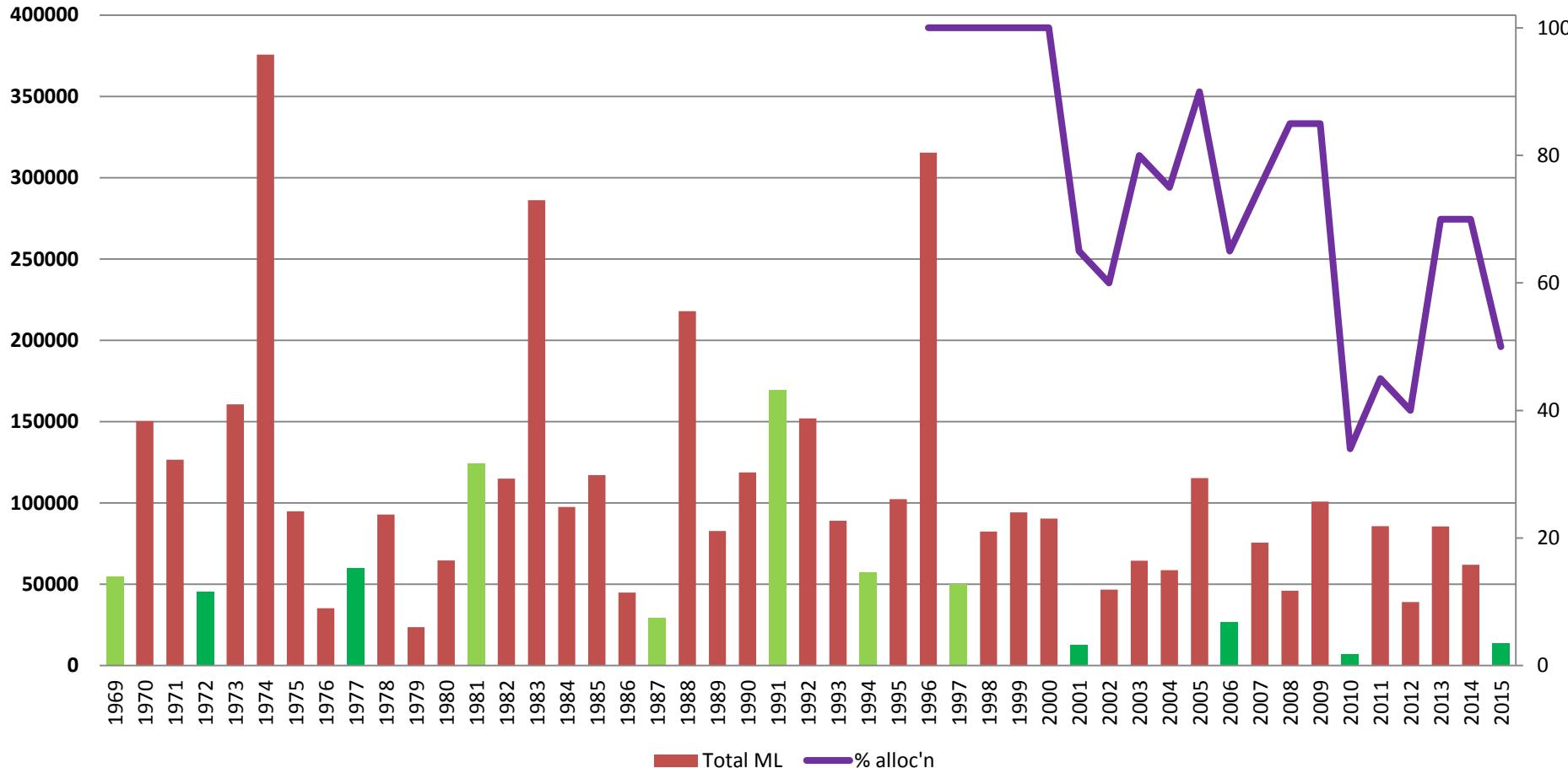


Average dam inflow (%) by month





Annual inflow (ML) & Annual Allocation (%) Waroona/Harvey Irrigation District 1969 to 2015





EFFECTIVE COST OF WATER UNDER REDUCED ALLOCATIONS

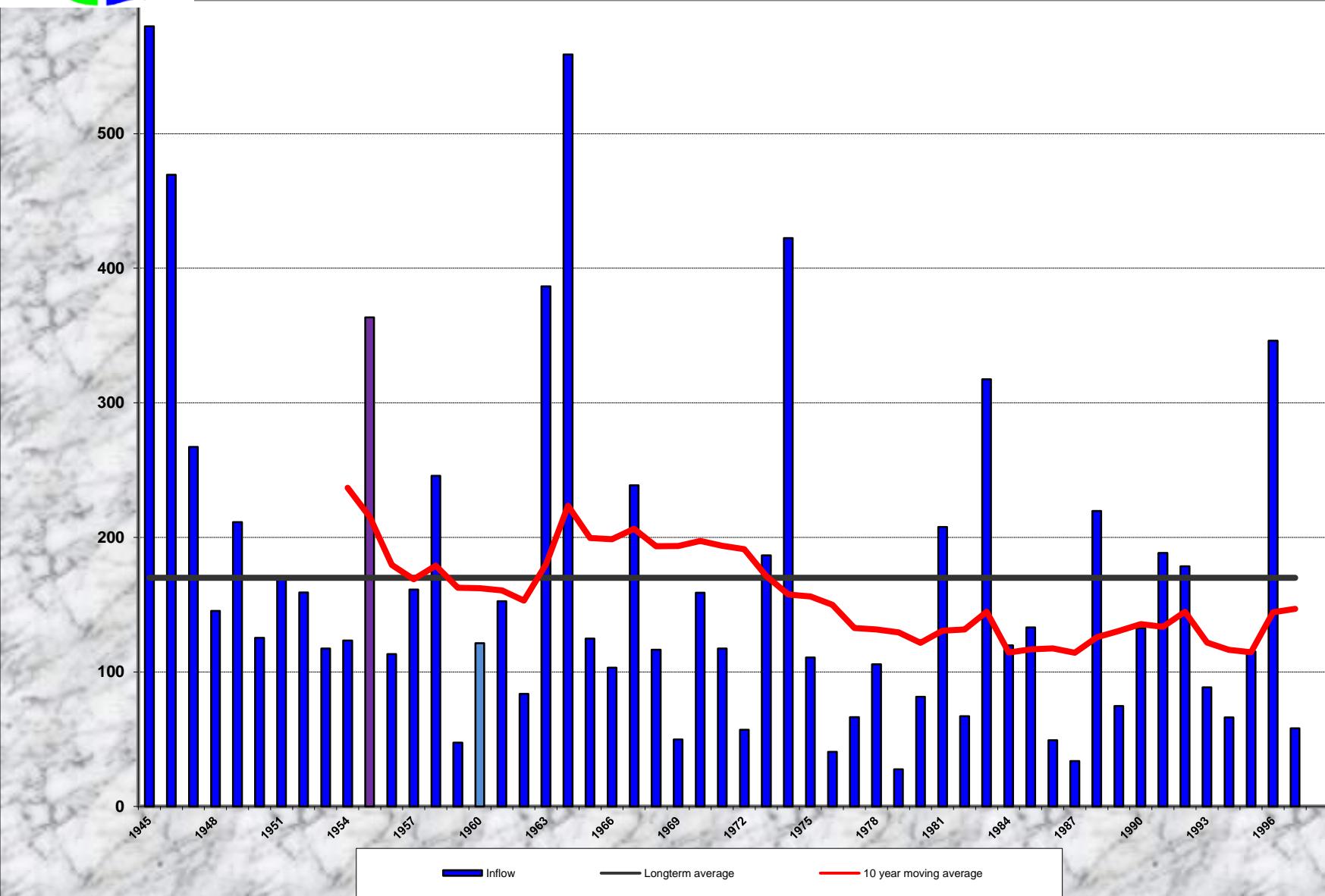
Allocation %	Delivery \$/ML*	Fixed \$/share	Effective \$/ML
100	2819	4230	70.49
85	2396	4230	77.95
70	1973	4230	88.61
55	1550	4230	105.09
40	1128	4230	133.95

* Assuming 100 ML of entitlement & all water is used



Wellington Dam Inflow 1945 to 1997

Excluding Harris





Surface Water Salinity (mS/m) in the Wellington Dam (1946-2010)

