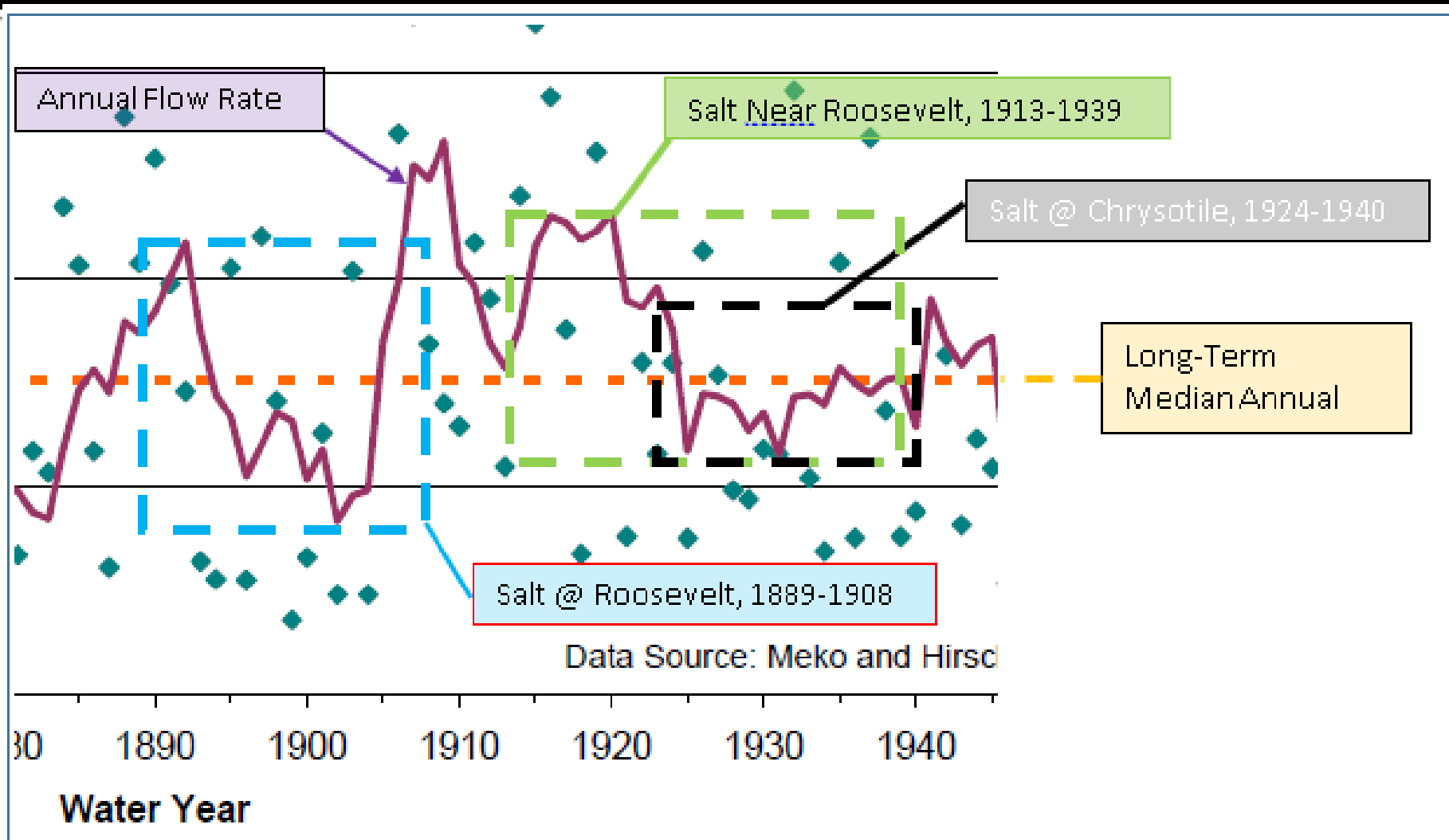


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Arizona State Land Department
May 2016

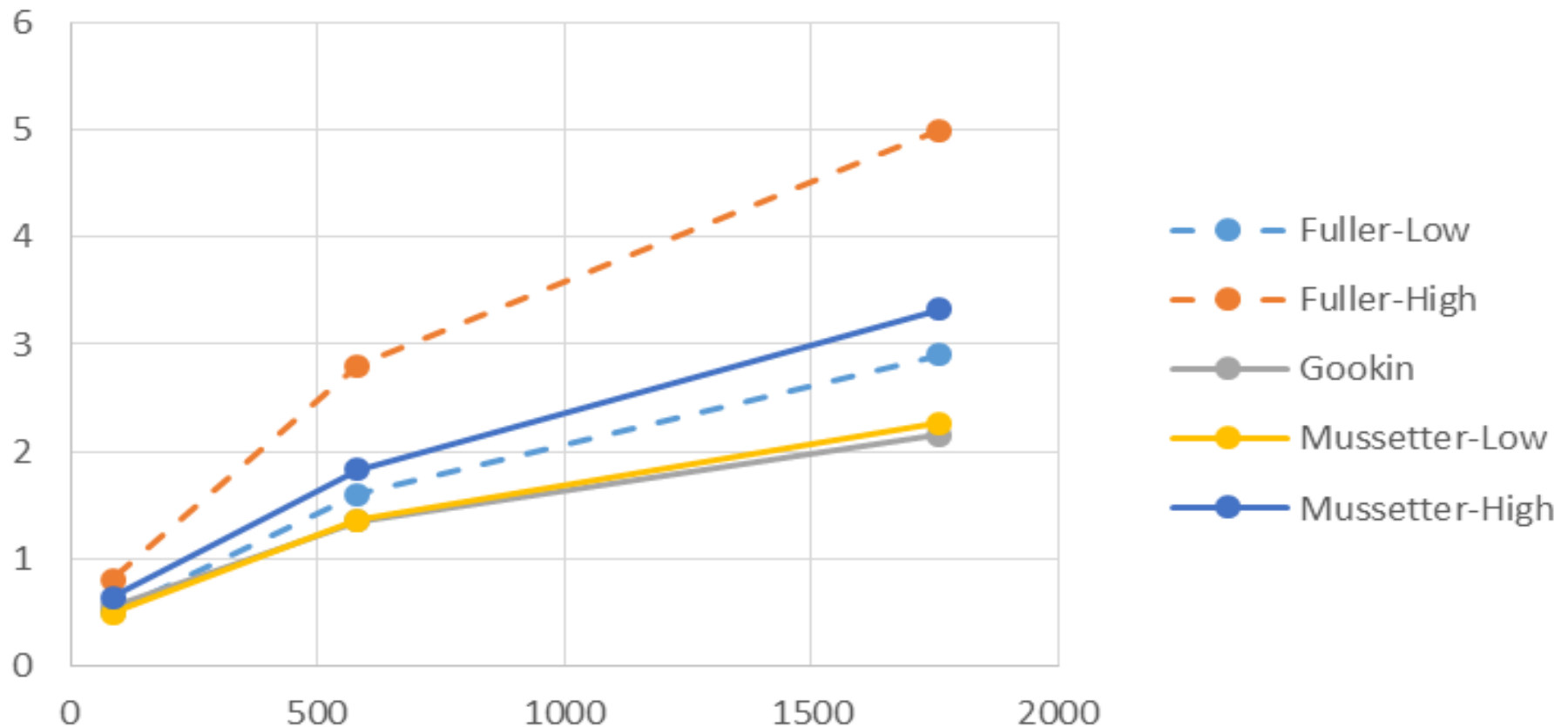
Presentation to ANSAC: Salt River Navigability - Rebuttal

Salt River Hydrology: Miscellaneous Rebuttal Items



Rating Curves: Differences

Segment 6: Comparison of Depth Estimates



Beyond Rating Curves



January 15, 1901 – ASU Special Collections; Littlefield: Fig 59

USGS Gage Data:

- Salt McDowell: 254 cfs
- Verde McDowell: 250 cfs
- Maximum @ Tempe: 504 cfs

Deep enough to float (and need) the ferry.

Gookin: 1.2 ft

Mussetter: 1.2-1.6 ft

Fuller: 1.4-2.6 ft

All are low

Beyond Rating Curves

Seg	Flow Rate Type					
	Representative of Riffle Sections along the Main Channel Thalweg (not Pools)					
	Mean Annual	Median Annual	10% (Entire Year)	Median Daily (Entire Year)	90% (Entire Year)	High-Flow Boating Season (Feb-May)
2	2.2 ft	2.0 ft	1.2 ft	1.6 ft	3.0 ft	1.3-2.8 ft
3	2.3 ft	2.0 ft	1.2 ft	2.5 ft	3.0 ft	2.5-2.8 ft
4	2.6 ft	2.2 ft	1.2 ft	2.6 ft	3.2 ft	2.5-3.0 ft
5	2.6 ft	2.3 ft	1.1 ft	1.6 ft	3.8 ft	1.7-3.6 ft
6	2.2-4.9 ft	1.9-4.2 ft	1.3-2.6 ft	1.6-3.4 ft	2.8-5.8 ft	1.7-5.5 ft

See notes in written summary

Is Segment 5 in its Ordinary & Natural Condition Today: Bank Vegetation

Historical Photographs



Date: pre-1908
Location: Salt/Verde Confluence
Source: Beasley, 1908

... Junction of the Verde and the Salt.

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March 15, 2014 @ 280 cfs



Is Segment 5 in its Ordinary & Natural Condition Today? Channel Depth

Historical Photographs

Date: ca. 1910
Location: Sheep Bridge on Salt River
ASU Special Collections CP MCL 34967.A3

Seg 5



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- Sheep Bridge – piers still in place



May 14, 2016 @ 700 cfs