
From: Kunysz,Kathy
Sent: Friday, July 10, 2015 11:34 AM
To: Ti,Mike N
Subject: FW: MWD IRP UPDATE: CHINO BASIN GROUNDWATER HOMEWORK

No response yet.

From: Kunysz,Kathy
Sent: Tuesday, June 09, 2015 11:41 AM
To: Elizabeth Hurst (ehurst@ieua.org); LLeMoine@wmwd.com; Leasa Cleland (LCleland@wmwd.com); jpivovaroff@ieua.org; John Rossi (jrossi@wmwd.com); tbarr@wmwd.com; mgarcia@TVMWD.com; Chris Berch; Sylvie Lee <slee@ieua.org> (slee@ieua.org); Craig Miller (CMiller@wmwd.com); Peter Kavounas (PKavounas@cbwm.org)
Cc: Kunysz,Kathy; Hacker,Matthew D; Sumi,David H; Nevills,Jennifer C
Subject: MWD IRP UPDATE: CHINO BASIN GROUNDWATER HOMEWORK

Dear Member Agency and Groundwater Managers and Staff,

Attached are the excel spreadsheets for your agency and groundwater basin showing draft projections for groundwater production and projections of sources and amounts of groundwater recharge in normal and multiple-dry-year situations. This information is being used in Metropolitan's 2015 update of its Integrated Resources Plan. Also attached is a slide from the IRP Member Agency Workshop #1 for Groundwater held on May 27. The slide shows a draft projection of the total regional deficit of groundwater recharge under the multiple-dry-year scenario. As part of this IRP Update, it is our objective to finalize this deficit amount with your input, and to identify strategies and policies to address it. Metropolitan is seeking to ensure that groundwater production is sustainable—groundwater is a significant component of regional water supply reliability.

Where there are multiple member agencies overlying a groundwater basin, we have sent the spreadsheets to all overlying member agencies and to the groundwater basin manager. The intent is for a coordinated review. Please review your spreadsheet(s) carefully and **provide corrections to the production and recharge projections in RED.** Please also list the assumption/rationale for the correction in RED. When reviewing the groundwater production projections, please note that Metropolitan has assigned groundwater production within a Metropolitan member agency's service area to that member agency. Also, the data is shown by calendar year.

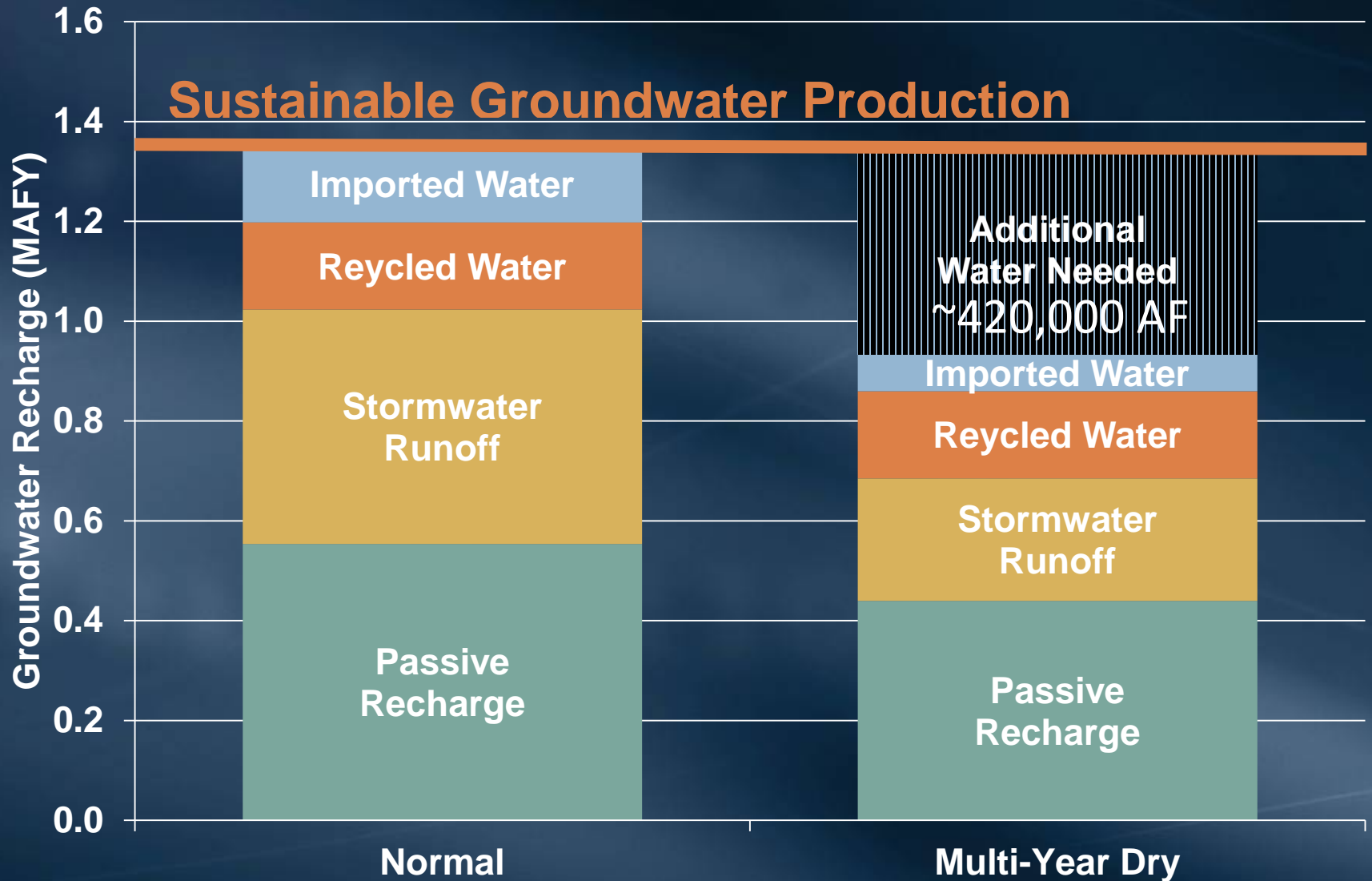
Please return the modified spreadsheets to David Sumi with copy to Kathy Kunysz and Matt Hacker by Monday, June 22. If you have questions, please call Kathy Kunysz (213-217-6272) or Matt Hacker (213-217-6756). We will report the adjusted projections at an IRP workshop later this summer.

Thank you,
Kathy Kunysz
Program Manager, Groundwater Issues
Metropolitan Water District of Southern California



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How to Address Multiple-Year Dry Cycle



Chino Basin Summary

Groundwater

Agency	Type	IMP/EXP	Basin/Reservoir	Average						2014	2015	2020	2025	2030	2035	2040	2045	2050
				2009	2010	2011	2012	2013	2009-2013									
Inland Empire	GW	OWN	Chino Basin	130,108	106,245	100,871	110,451	102,309	109,997	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000	110,000
Three Valleys	GW	OWN	Chino Basin	17,375	13,579	14,321	15,967	15,729	15,394	15,400	15,400	15,400	15,400	15,400	15,400	15,400	15,400	15,400
Western	GW	OWN	Chino Basin	18,047	13,688	15,175	1,277	17,689	13,175	13,200	13,200	13,200	13,200	13,200	13,200	13,200	13,200	13,200
Inland Empire	GWR	OWN	Chino Basin	14,822	16,594	14,814	13,760	14,209	14,840	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500
Western	GWR	OWN	Chino Basin	11,136	11,617	11,195	10,984	10,240	11,034	11,326	17,500	17,500	17,500	17,500	17,500	17,500	17,500	17,500
Total				191,488	161,722	156,376	152,439	160,175	164,440	167,426	173,600	173,600	173,600	173,600	173,600	173,600	173,600	

Active Recharge

Agency	Type	IMP/EXP	Basin/Reservoir	Notes	2014	2015	2020	2025	2030	2035	2040	2045	2050
Normal Year													
IEUA	IMPORT	OWN	Chino basin	Assume 6,500 AFY for MZ1		6,500	6,500	6,500	6,500	6,500	6,500	6,500	6,500
IEUA	STORM	OWN	Chino basin	Average 1986-2005		6,182	6,182	6,182	6,182	6,182	6,182	6,182	6,182
IEUA	REC	OWN	Chino basin	From Sales Model 24		11,103	15,354	19,606	23,857	28,000	28,000	28,000	28,000
Total						23,785	28,036	32,288	36,539	40,682	40,682	40,682	40,682
Multiple Dry Year (actual 2012-2014)													
IEUA	IMPORT	OWN	Chino basin	Assume no water for MZ1		0	0	0	0	0	0	0	0
IEUA	STORM	OWN	Chino basin	Average 2012-2014		5,820	5,820	5,820	5,820	5,820	5,820	5,820	5,820
IEUA	REC	OWN	Chino basin	From Sales Model 24		11,103	15,354	19,606	23,857	28,000	28,000	28,000	28,000
Total						16,923	21,174	25,426	29,677	33,820	33,820	33,820	33,820