

## Jim Williams

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**From:** Steve Gaul [sgaul@dnr.ne.gov]  
**Sent:** Thursday, March 15, 2007 4:52 PM  
**To:** Jim Williams  
**Subject:** FW: Frenchman Valley Modeling Meeting

**Attachments:** Historic Comparison.xls



Historic  
mparison.xls (51 KB)  
FYI

-----Original Message-----

**From:** Jim Schneider [mailto:jschneider@dnr.ne.gov]  
**Sent:** Thursday, March 15, 2007 4:16 PM  
**To:** JWARGIN@gp.usbr.gov; dhallum@dnr.ne.gov; pkoester@dnr.ne.gov; sgaul@dnr.ne.gov; 'Jesse Bradley'; ableed@dnr.ne.gov; 'Brad Edgerton'  
**Cc:** 'Jill Manring'; 'Michael Kube'; 'Mark A. Phillips'; 'William Peck'  
**Subject:** RE: Frenchman Valley Modeling Meeting

Just for kicks, I went ahead and pulled out the data from historic model runs. The attached spreadsheet has the model predicted baseflows for Imperial and Culbertson for a model run with actual pumping and a run with no pumping. This gives us an idea of where the Frenchman would have been without all of the groundwater development, and something to compare our other results to. Note that a 100% decrease in pumping does not bring the Imperial gage back to pre-development levels after 40 years, even though most gw development has occurred in the previous 40 years. Look forward to discussing all of this tomorrow.

Jim

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-----Original Message-----

**From:** Jack Wergin [mailto:JWARGIN@gp.usbr.gov]  
**Sent:** Wednesday, February 21, 2007 3:59 PM  
**To:** dhallum@dnr.ne.gov; jschneider@dnr.ne.gov; pkoester@dnr.ne.gov; sgaul@dnr.ne.gov  
**Cc:** Jill Manring; Michael Kube; Mark A. Phillips; William Peck  
**Subject:** Frenchman Valley Modeling Meeting

Reclamation and Nebraska Department of Natural Resources will meet on Friday, February 23, 2007 at 10:30 a.m. at Reclamation's Grand Island Office conference room (203 West 2nd Street) to discuss the initial modeling for the Frenchman Valley Appraisal Study.

Those unable to attend can all in by phone at

877-686-3190  
passcode: 363511 #

Please forward to others as you see fit.

if you have any quaestions, call me at 308-389-5322

Thanks and see you Friday - Jack

Year	Culbertson	Imperial	Palisade	Year	Culbertson	Imperial	Palisade	Year	Culbertson	Imperial	Palisade
1941	80,977	46,940	59,286	1941	80,056	46,810	58,881	1941	921	130	405
1942	92,515	51,919	66,400	1942	91,351	51,778	65,963	1942	1,164	141	437
1943	78,599	49,698	59,438	1943	77,196	49,504	58,913	1943	1,404	194	525
1944	85,478	49,531	62,146	1944	84,187	49,294	61,667	1944	1,291	237	480
1945	81,249	49,061	60,042	1945	79,676	48,775	59,476	1945	1,574	286	566
1946	93,720	49,593	65,166	1946	92,108	49,293	64,549	1946	1,612	300	617
1947	90,938	50,002	63,504	1947	88,898	49,681	62,850	1947	2,040	321	654
1948	85,885	49,104	61,257	1948	83,993	48,698	60,589	1948	1,891	406	667
1949	101,601	51,439	68,642	1949	98,998	50,959	67,727	1949	2,603	481	915
1950	83,819	50,493	56,189	1950	82,493	50,014	55,560	1950	1,327	479	628
1951	58,461	52,842	21,157	1951	57,884	52,378	21,036	1951	577	464	121
1952	45,646	51,738	16,877	1952	44,814	51,057	16,622	1952	832	681	256
1953	42,024	50,420	16,308	1953	41,063	49,602	16,004	1953	961	817	304
1954	35,308	48,893	14,625	1954	34,007	47,913	14,235	1954	1,301	981	390
1955	36,648	48,535	15,649	1955	34,786	46,780	15,280	1955	1,862	1,755	369
1956	34,698	47,863	15,068	1956	32,341	44,702	14,613	1956	2,357	3,161	456
1957	44,616	49,403	18,157	1957	42,286	46,038	17,819	1957	2,330	3,365	338
1958	53,850	51,112	18,369	1958	51,624	48,002	18,050	1958	2,226	3,110	319
1959	47,395	50,660	16,328	1959	43,921	47,017	15,774	1959	3,474	3,643	554
1960	46,725	49,917	16,850	1960	42,936	45,495	16,222	1960	3,789	4,422	628
1961	46,388	49,555	15,835	1961	43,264	45,532	15,293	1961	3,124	4,023	542
1962	61,408	53,112	20,942	1962	59,099	49,739	20,483	1962	2,309	3,373	459
1963	53,209	53,091	16,154	1963	48,644	49,549	15,011	1963	4,565	3,542	1,144
1964	45,463	51,565	14,853	1964	39,768	47,443	13,467	1964	5,695	4,123	1,386
1965	58,422	54,470	19,267	1965	53,033	50,350	18,033	1965	5,390	4,120	1,234
1966	49,205	54,288	16,589	1966	43,492	50,083	15,321	1966	5,713	4,205	1,268
1967	51,367	54,417	16,910	1967	44,889	49,639	15,536	1967	6,478	4,778	1,374
1968	45,960	53,061	15,373	1968	36,585	46,715	13,174	1968	9,374	6,346	2,199
1969	52,269	52,407	17,584	1969	41,219	44,281	14,806	1969	11,050	8,126	2,778
1970	42,594	50,967	14,256	1970	29,980	40,917	11,038	1970	12,614	10,050	3,218
1971	50,439	53,368	16,268	1971	36,017	41,749	12,862	1971	14,422	11,619	3,406
1972	48,624	53,606	15,586	1972	35,244	41,287	12,595	1972	13,380	12,318	2,991
1973	62,373	55,627	19,899	1973	48,739	42,137	16,656	1973	13,634	13,489	3,243
1974	46,981	53,711	14,936	1974	32,205	38,123	11,336	1974	14,776	15,588	3,601
1975	48,720	52,975	15,600	1975	31,934	34,882	11,603	1975	16,787	18,093	3,997
1976	41,778	51,401	14,026	1976	23,626	30,202	9,518	1976	18,152	21,199	4,508
1977	51,297	51,706	16,988	1977	32,339	28,072	12,670	1977	18,958	23,634	4,318
1978	43,217	50,721	14,299	1978	23,363	24,713	9,538	1978	19,854	26,008	4,761
1979	47,782	50,428	15,860	1979	27,860	22,803	11,513	1979	19,922	27,624	4,347
1980	41,919	50,197	14,242	1980	22,428	21,697	9,993	1980	19,491	28,500	4,249
1981	51,787	52,928	17,286	1981	32,195	23,125	13,362	1981	19,592	29,803	3,924
1982	57,794	55,525	19,020	1982	37,590	25,356	15,460	1982	20,204	30,169	3,560
1983	47,610	53,981	15,585	1983	27,277	23,791	11,698	1983	20,333	30,189	3,887
1984	50,516	52,528	16,804	1984	28,796	21,037	12,327	1984	21,720	31,491	4,477
1985	45,383	52,280	16,710	1985	23,111	20,729	12,225	1985	22,272	31,551	4,485
1986	42,934	50,756	14,322	1986	20,267	17,330	9,552	1986	22,667	33,426	4,770
1987	47,739	51,558	15,770	1987	24,118	17,813	11,093	1987	23,621	33,745	4,677
1988	49,057	51,327	15,701	1988	24,944	16,748	10,732	1988	24,113	34,579	4,969
1989	42,945	50,203	14,134	1989	19,172	14,808	9,190	1989	23,773	35,396	4,944
1990	43,504	50,825	14,423	1990	17,669	13,856	8,863	1990	25,835	36,969	5,560
1991	47,528	51,274	15,339	1991	20,173	12,963	9,944	1991	27,355	38,311	5,396
1992	50,489	50,745	16,117	1992	25,887	12,390	11,539	1992	24,602	38,355	4,578
1993	60,325	53,632	19,271	1993	36,165	15,326	15,257	1993	24,160	38,306	4,014
1994	49,189	52,303	15,240	1994	21,555	13,179	9,977	1994	27,634	39,125	5,263
1995	49,856	52,057	15,606	1995	21,051	11,684	10,300	1995	28,805	40,373	5,306
1996	59,136	54,152	18,791	1996	30,697	13,187	14,033	1996	28,439	40,965	4,759
1997	50,314	52,948	15,680	1997	20,219	11,426	9,973	1997	30,094	41,522	5,708
1998	45,833	51,156	14,552	1998	15,341	8,950	8,468	1998	30,492	42,206	6,084
1999	50,937	51,720	16,500	1999	20,435	8,624	11,125	1999	30,501	43,096	5,375
2000	45,094	50,642	14,025	2000	13,639	7,693	7,360	2000	31,454	42,950	6,665
2001	43,498	49,992	13,659	2001	10,022	5,499	7,057	2001	33,476	44,493	6,602
2002	37,378	48,171	12,081	2002	7,247	4,753	5,335	2002	30,131	43,419	6,745
2003	40,789	47,590	13,425	2003	3,368	4,527	5,945	2003	37,421	43,063	7,480
2004	46,499	48,118	14,668	2004	6,458	4,384	7,918	2004	40,041	43,734	6,749
2005	45,221	48,117	14,018	2005	11,762	4,390	8,252	2005	33,459	43,727	5,766
2006	40,577	47,310	12,796	2006	10,050	4,258	7,135	2006	30,527	43,052	5,661