

**From:** [Marvin Swanda](#)  
**To:** [Alice Johns](#); [Stephen Ronshaugen](#)  
**Cc:** [William Peck](#)  
**Subject:** Fwd: 2006 Estimated Water Supply Availability  
**Date:** Friday, December 09, 2011 10:48:43 PM

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Information provided to Kenny N. as a result of a phone call between Kenny, myself, and Bill.

>>> William Peck 6/15/2005 4:46:19 PM >>>

Kenny, per our conversation earlier today, we have worked up some numbers comparing the 2006 Estimated Water Supply based on various inflow conditions and the decision to release from Harlan County Dam.

1.A. If we assume inflows similar to 2004 throughout the remainder of the year and no irrigation release from Harlan County, the January 2006 estimated farm delivery would be approximately 3 inches.

1.B. If we assume inflows similar to 2004 throughout the remainder of the year and irrigation releases are made during 2005, the January 2006 estimated farm delivery would be approximately one inch.

2.A. If we use the last five-year average inflows throughout the remainder of the year and no irrigation release is made from Harlan County, the January 2006 estimated farm delivery would be approximately 4.5 inches.

2.B. If we use the last five-year average inflows throughout the remainder of the year and irrigation releases are made during 2005, the January 2006 estimated farm delivery would be approximately 2.5 inches.

3.A. If we use '93 level inflows' and no irrigation release is made from Harlan County, the January 2006 estimated farm delivery would be approximately 8.0 inches (utilizing some storage above the sediment pool).

3.B. If we use '93 level inflows' and irrigation releases are made during 2005, the January 2006 estimated farm delivery would be approximately 7.0 inches (utilizing some storage above the sediment pool).

4. Using the average annual evaporation rate at today's lake level of 1929.7 feet the lake would lose approximately 28,400 acre-feet. The annual loss to evaporation using the average annual rate and the shutoff elevation of 1928.17 feet would be 26,500 acre-feet. The 2,000 acre-feet difference in evaporation loss would be significantly less than the 12,000 acre-feet that currently exist between elevation 1929.7 and 1928.17. This is a pretty rough estimate but should illustrate that if irrigation releases are not made the storage will not all be lost to evaporation.

Let us know if you have additional questions or comments.

Bill