

**From:** [Swanda, Marvin R](#)  
**To:** [Wergin, Jack B](#); [Scott, Craig D](#); [Peck, William E](#)  
**Subject:** FW: Conservation Study - Terraced land info.  
**Date:** Monday, April 13, 2009 9:17:50 AM  
**Attachments:** [Appendix F - KSU.pdf](#)  
[RRCA 4th Annual Status Rpt Jul312008.DOC](#)

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From: Guenther, R S (Scott)  
Sent: Monday, April 13, 2009 9:50 AM  
To: Swanda, Marvin R  
Cc: Aycocock, Gordon L; Erger, Patrick J  
Subject: Conservation Study - Terraced land info.

Marv: I have attached the main body of the Conservation Committee 4th Annual Status Report from Aug 2008 and Appendix F of that report which is Jim Koelicker's summary of work up until Aug 2008. This is where the information was pulled from I provided to Gordon and you for the deposition.

You might want to look at Pg 14 of the main report for the discussion of the work on Prairie Dog Cr, and at the Appendix F, Table 2 and Table 4. The preliminary work on Prairie Dog Cr reflects the impact of terraces on 141,300 acres of land by reduction in streamflow of 3,200 acre-feet. We had estimated that if Prairie Dog Cr was representative of the basin in Nebraska, which has 1,200,000 acres of terraces, than there was a potential reduction in streamflow from terraces of about 27,000 af <- for terraces in Nebraska only. We need to continue to stress that this information from the Conservation study is very preliminary and the results from the study will not be available until they are reported to the RRCA in August 2009.

It may also be important to know that there are 2,309,559 (2.3 million) acres of terraced land in the basin above Hardy, 220,000 in Colo., 890,000 in Kansas, and 1,196,000 in Neb (pg 8 of report).

I believe the estimated impact of terraces of 175,000 af referenced in the S&T proposal came from the Republican River basin Water Management Study, 1985. The study lumped together ponds, terraces and crop residue management - those impacts totalled 238,200 af. I believe we backed out the crop residue management amount to get to the 175,000 af referenced in the proposal. I would need to go through the engineering appendix of that report to confirm this. Let me know if we need to do this.

Please call if you have any questions.

scott

