DNR MEMO

3/18/2003

TO: Ann Bleed
                Gayle Starr
                Brian Dunnigan
                Steve Gaul

FROM: Mike Thompson ꟿ   ✓

SUBJECT: Republican River Settlement GIS

As you know the Republican River Compact calculations require Nebraska to report the evaporation from reservoirs 15 AF and larger. This will necessitate an accurate cataloging of dams in the Republican Basin. There are several steps our staff can take to make this effort more effective. The net effect of these actions will be to improve the accuracy of the dam inventory and allow DNR to exchange data about non-inventory dams with the Republican basin Natural Resource Districts. The main components are as follows:

1) Create a process to automatically generate spatial data in the form of an ArcView shapefile every day. This can be implemented in the same way the well data was. A batch process will be created to process the Dam Inventory Database overnight and update the spatial data. The Inventory is edited almost daily, so the spatial data will need to be updated and shared. Staff involved will likely include Mark Noble, Jeff Hogan, Kim Menke and I. It shouldn't take more than 3 hours for each person to complete his or her task.

2) Create a script to automatically add the Inventory of Dams to an ArcView session. This will enable people from multiple agencies to quickly review our current Inventory and make judgments necessary to complete our Compact duties. Staff involved will be Jeff Shafer and Mike Thompson. It should not take more than 4 hours of Jeff's time.

3) Improve the spatial accuracy of the coordinates in the Dam Inventory Database and the non-inventory dam table in the Republican basin. This will involve Mark Noble and possibly someone from the Planning and Assistance section. This will be the most time consuming task of all. It should be completed in about 12 hours.

I would appreciate the cooperation of the individuals mentioned. We need to move quickly to begin coordinating our efforts with the NRD's. Please let me know if you have concerns about staff availability.