



Natural Resources Conservation Service  
210 Walnut Street, Room 693  
Des Moines, IA 50309-2180

November 30, 2010

## IOWA INSTRUCTION 190-383 - REVISED RUSLE2 CMZ4 AND BASE DATABASE

### IA383.0 PURPOSE

This Iowa Instruction provides information on how to import the new Crop Management Zone 4 and Base database files into the current county RUSLE2 databases. These instructions are to be completed by December 30, 2010.

### IA383.1 SCOPE

These instructions will be followed by all field staff. It is extremely important to update the CMZ4 and Base database so all field offices are utilizing the most current and correct database when provided assistance to our client in conservation planning and program implementation.

### IA383.2 FILING INSTRUCTIONS

This Iowa Instruction will be posted on the Iowa NRCS Employee Website, which can be accessed at <http://www.ia.nrcs.usda.gov/intranet/> under the Iowa NRCS eDirectives System section.

### IA383.3 EXHIBITS

See the attachment.

A handwritten signature in blue ink that reads "Richard Sims".

Richard Sims  
State Conservationist

Attachment

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(IA Instruction 190-383 – November 2010)

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## IOWA INSTRUCTION 190-383 – REVISED RUSLE2 CMZ 4 AND BASE DATABASE

### 1. PURPOSE:

This Iowa Instruction provides information on how to import the new Crop Management Zone 4 and Base database files into the current county RUSLE2 databases.

### 2. BACKGROUND:

The RUSLE2 Crop Management Zone 4 has been revised along with the Base database. It is extremely important to update the CMZ4 and Base database so all field offices are utilizing the most current and correct database. An important change to the CMZ4 database is the inclusion of a Biomass harvest files under the multi-year crop rotation folder.

### 3. PROCESS:

The instructions are to archive a copy of the current "RUSLE2 1.26 (county name)May10.gdb" RUSLE2 database file that is located on the field office shared drive. You will need to make a copy of the "RUSLE2 1.26 (county name)May10.gdb" and rename it to "RUSLE2 1.26 (county name)Nov10.gdb". After the file has been renamed you will need to import the new CMZ4 and Base Database file into the renamed Nov10 file. This process updates the database file on a server and only needs to be completed on one computer in each field office. Once this is completed all computers in the field office will need to be connected to the new "RUSLE2 1.26 (county name)Nov10.gdb" database on the S drive.

**Copy and Archiving old moses database and import new CMZ4 and Base database file:** The current RUSLE2 database resides on the shared drive. This process will save the current database so users can access its contents in the future if needed. Follow these steps:

**Step 1** – The current and active county specific RUSLE2 database is on the shared drive at:  
S:\Service\_Center\NRCS\RUSLE2\RUSLE2 1.26 (county name)May10.gdb>

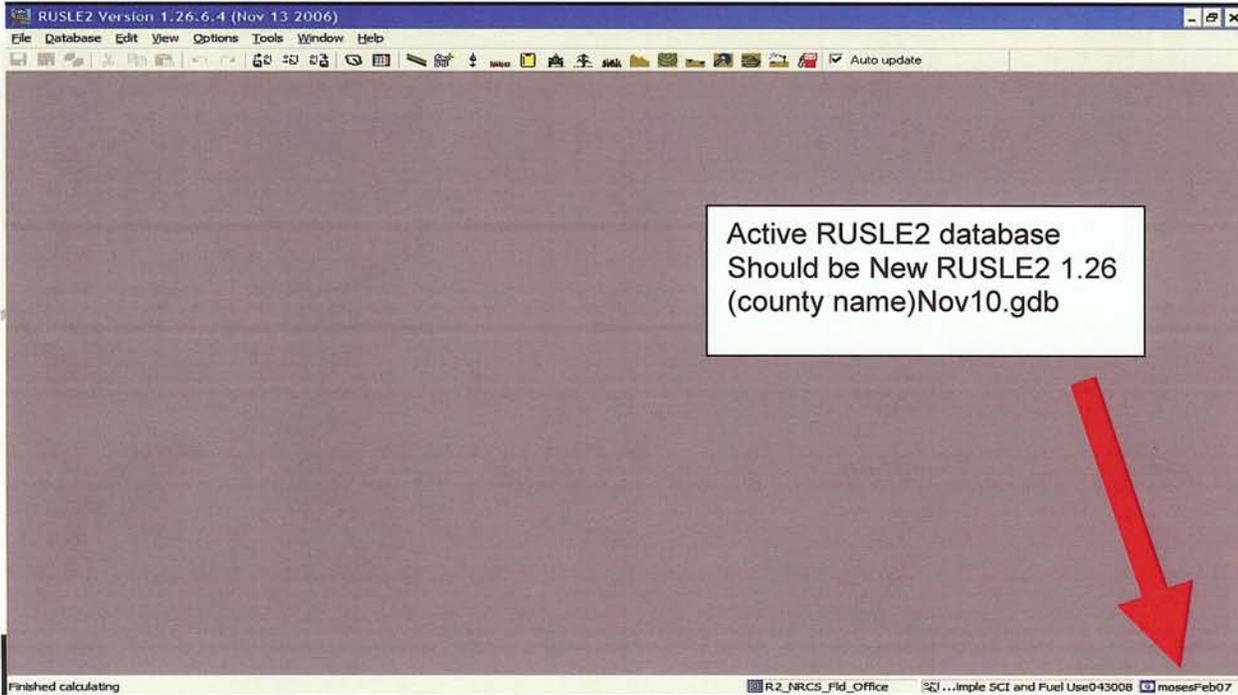
Use Windows Explorer go to the shared drive to locate this file. Select the file with one click of the left mouse button. With the name highlighted, click the right mouse button and select the "rename" option. Change the file name to "archive RUSLE2 1.26 (county name)May10.gdb". This name change will definitely identify the file as an archive file. Note you must have RUSLE2 program closed out before you change the name.

**Step 2** – COPY the newly named "archived RUSLE2 1.26 (county name)May10.gdb" by right clicking on the file and paste to the S:\Service\_Center\NRCS\RUSLE2\ folder on your shared drive. The newly copied file will now show up as "Copy of archived RUSLE2 1.26 (county name)May10.gdb" Do a right click and rename this file to "RUSLE2 1.26 (county name)Nov10.gdb".

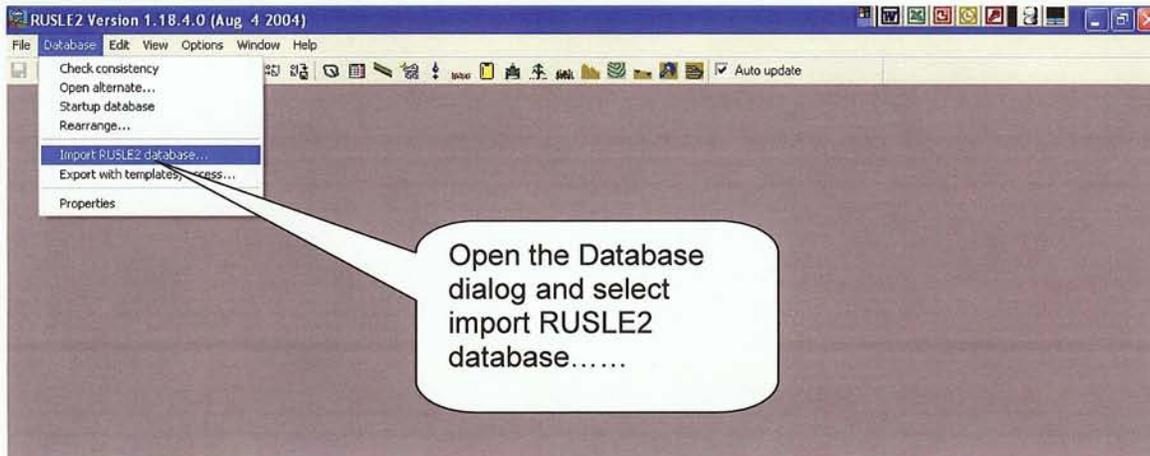
This is the file that will be located and selected by all users of RUSLE2 in the field office to complete an official RUSLE2 calculation. Select this file as the new Startup Database. To select this file go to the top tool bar Database\open alternative and navigate to where you have saved this file on the shared drive: S:\Service\_Center\NRCS\RUSLE2. Once you have selected the file go back to Database and select Startup Database. Reopen the database dialog and a checkmark should now appear beside this parameter. This means that the database file that is currently loaded (the name is displayed in the lower right corner of the RUSLE2 screen) will be automatically accessed each time the RUSLE2 model on this computer is rebooted. (See Figure 1)

**Step 3 – IMPORTING DATA FILES:** This step describes how to import the new CMZ4 and Base Database files into the “**RUSLE2 1.26 (county name)Nov10.gdb**” file. To start make sure you are connected to the correct **new database** by looking in the lower right hand corner for the name of the database.

**Figure 1.** Make sure you are connected to the moses database that you want to import files.



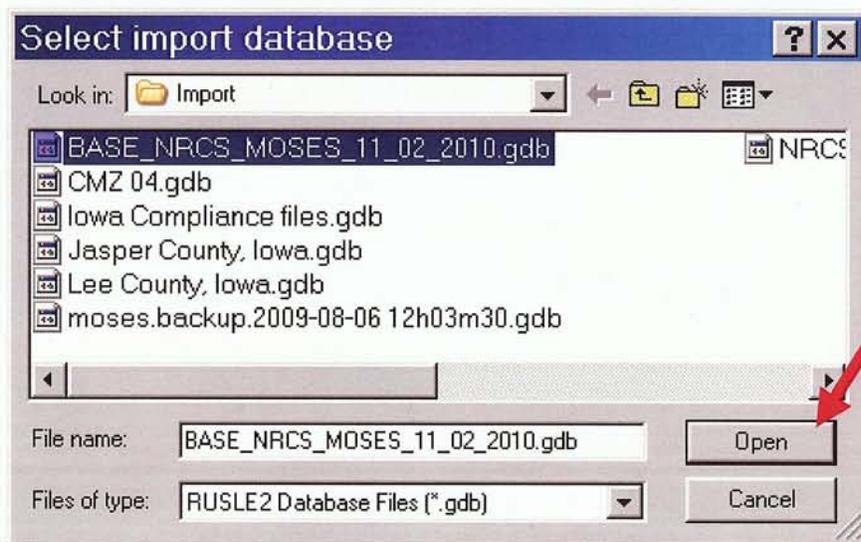
**Figure 2.** Select Import Database - Select Database/Import RUSLE2 database



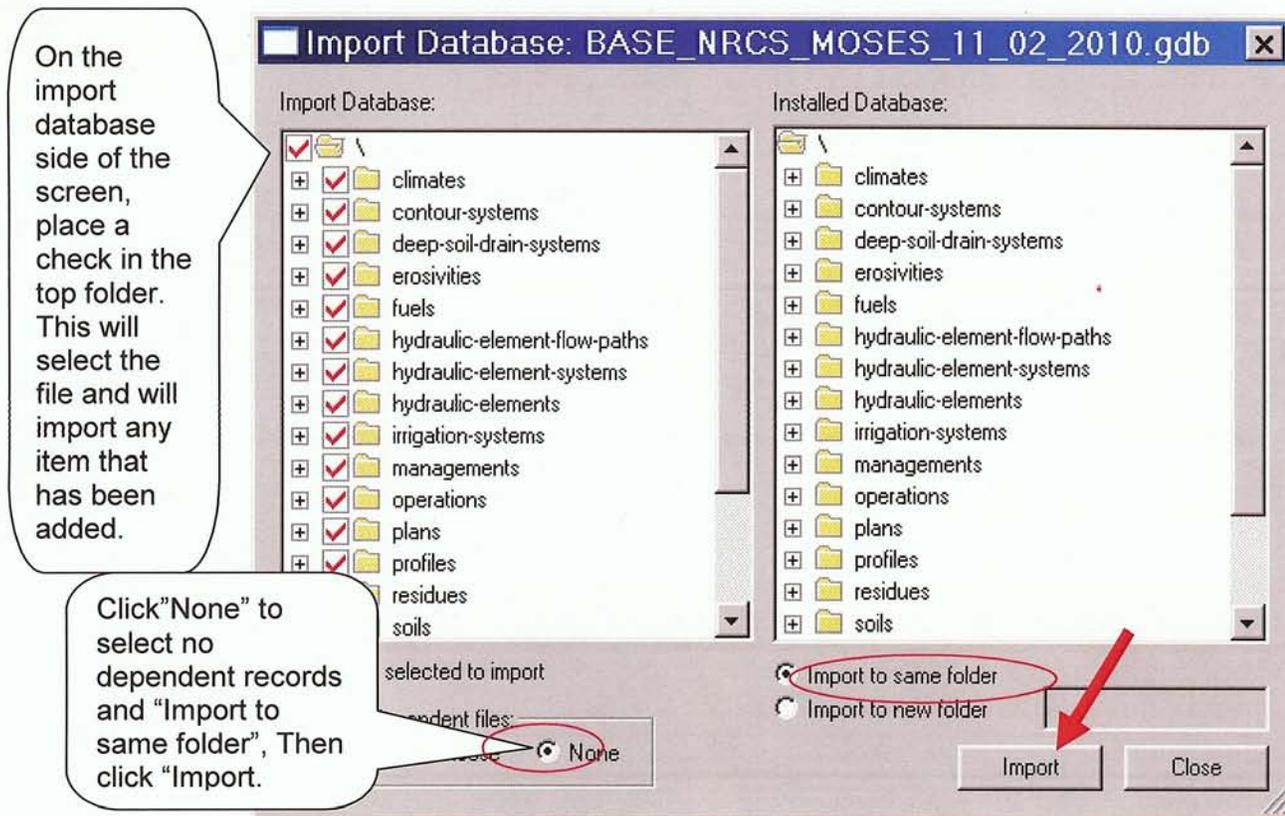
**Figure 3.** Next copy the two zip files attached to the instruction transmittal into your RUSLE2 import folder C:\Program Files\USDA\Rusle2\Import. Once these files are in the import folder extract them to the same folder by double clicking on the zip file and highlight the file to extract and click the extract button at the top. You should now have a .gdb file in the import folder. Repeat the process for the other

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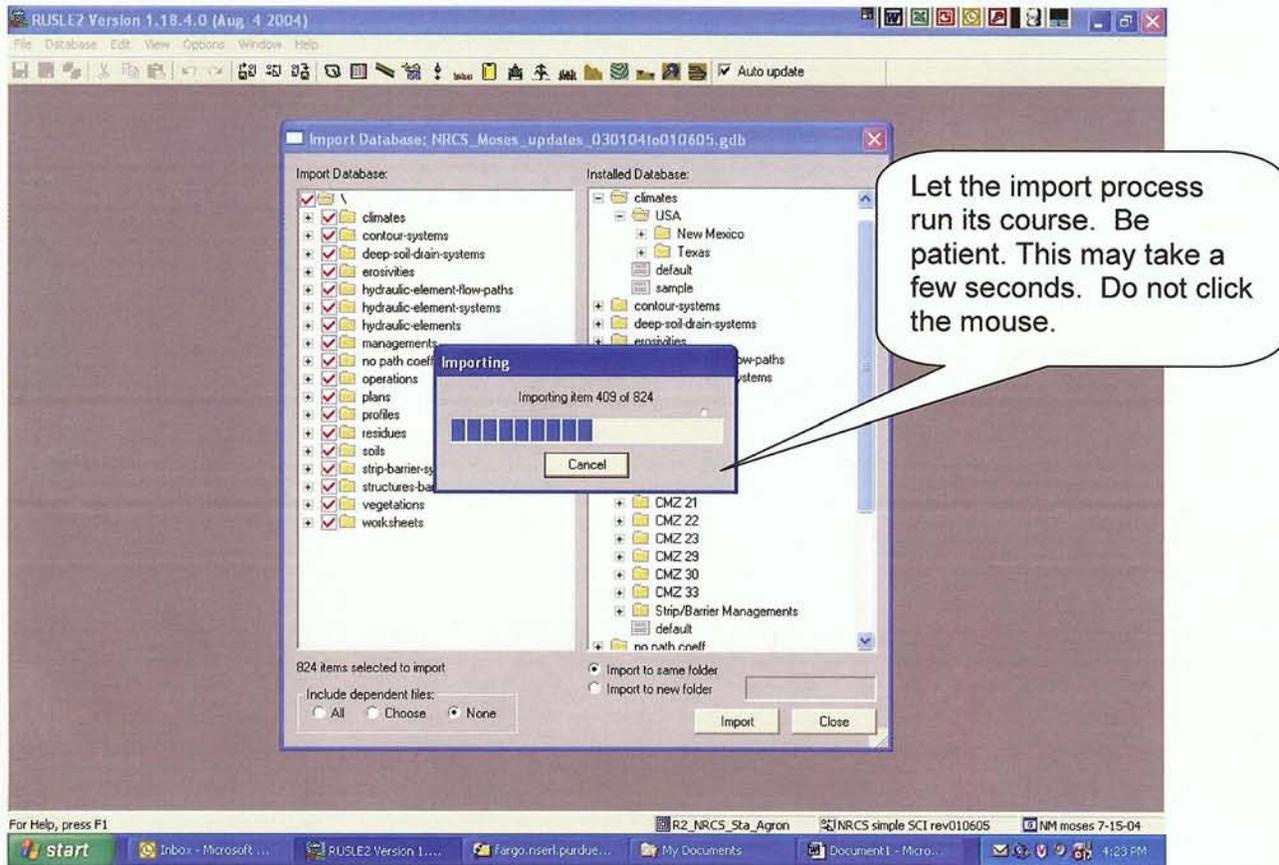
zip file. Now open up RUSLE2 and select database/import database and you should see the **BASE\_NRCS\_MOSES\_11\_02\_2010.GDB** and the **CMZ 04.gdb** files. Select one of the files and click on Open.



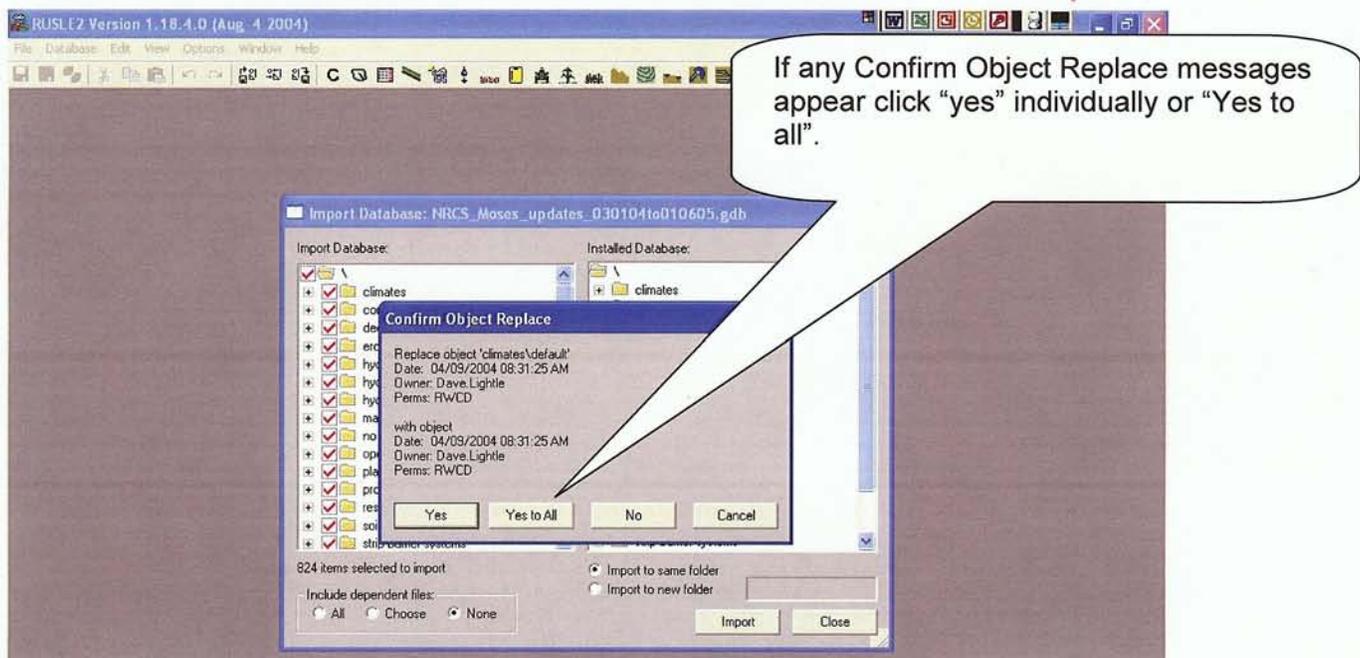
**Figure 4.** Set up the import.



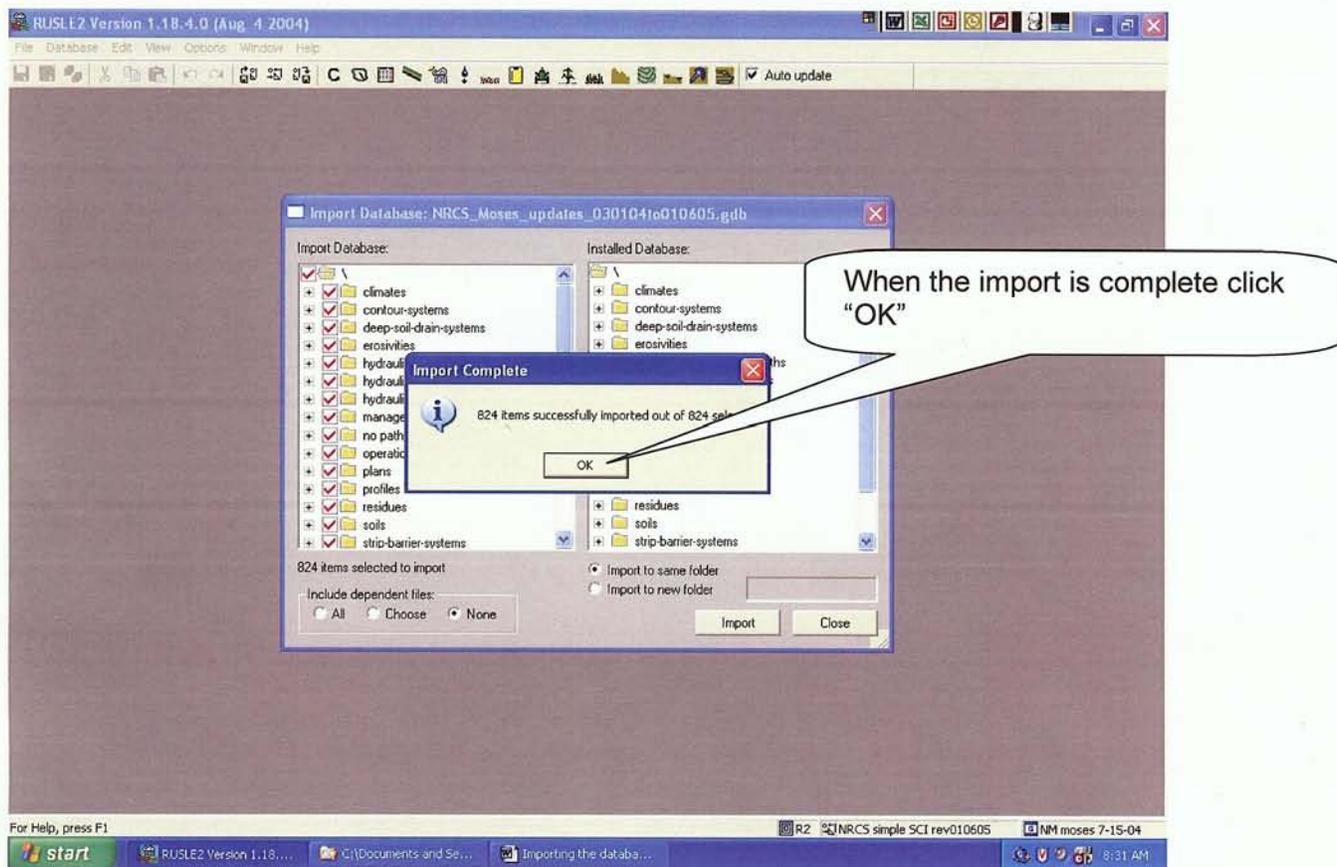
**Figure 5.** Importing files



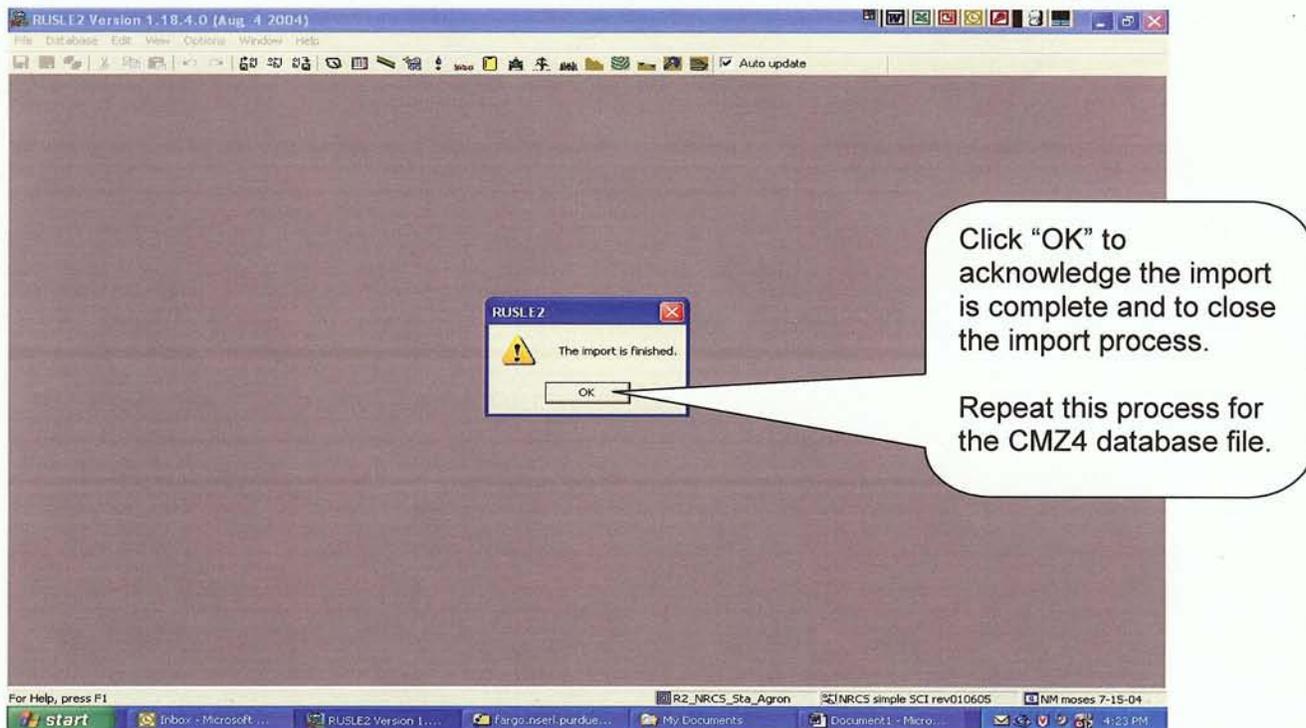
**Figure 6.** Confirm Object messages



**Figure 7.** Import completed

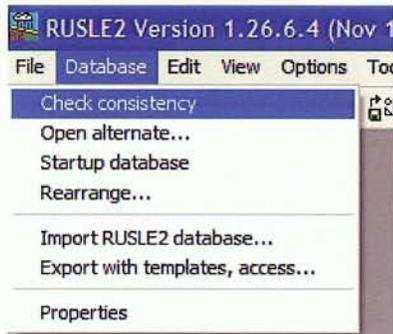


**Figure 8.** Import finish, repeat process for second database.



Repeat the import process for the CMZ4.gdb file.

**Figure 9.** After the data has been imported, the RUSLE2 program may run a consistency check. If not, initiate the consistency check manually by selecting “Database” – “Check consistency”.



**Figure 10.** Start the check consistency and monitor the progress. You may get error windows popping up asking you to replace items where there are database inconsistencies (items are no longer linked in the database). The key line to address is “Refers to:”. This is the record that needs to be replaced or reconnected. Search the open window for the record that is the same (may have been moved in the database) or similar (may have been changed). Select the appropriate record to make the database correct. Make sure to review the entire list before making a selection. Select “Correct” or “Correct all like this” to remove the inconsistency and repair the broken links.

This is a broken link that must be reconnected to the new database. You can search the replacement tree to find the reference and reconnect it or connect it to one that is close and then go back in and modify it to reflect the profile you are trying to import.

**Change reference**

Record: 'profiles\CRP Scenarios'  
Refers to: 'managements\CMZ 04\c.Other Local Mgt Records\CRP, Soybean; wr, Fdisk, Sdisk; Corn NT Soybean NT Corn NT z4#2'  
The record referred to was not found. Select another record from the tree below.

Replace with: managements\CMZ 04

- managements
  - CMZ 04
    - a.Single Year/Single Crop Templates
    - b.Multi-year Rotation Templates
    - c.Other Local Mgt Records
    - d.Construction Site Templates
  - CMZ 16
  - Strip/Barrier Managements
  - Continuously tilled and smoothed
  - default

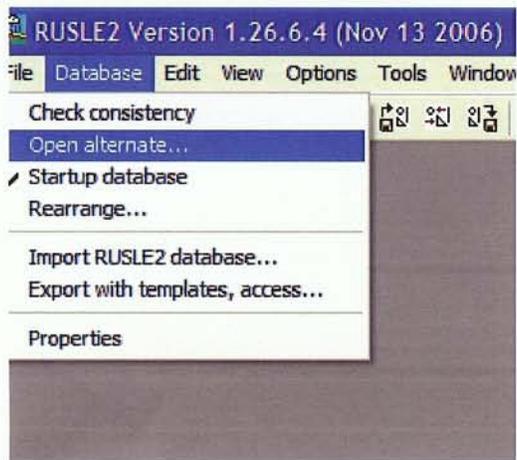
Ignore     Change  
 Ignore all like this     Change all like this

Continue    Stop Checking

This shows you the record that is orphaned when you brought it over from the archived data base. You will need to replace it with a file from the new data base.

Click “Change all like this” and then click continue.

**Figure 11.** Once the checked consistency has been completed you are ready to connect all computers to the shared moses database. With the user login to their computer have them select Database/Open Alternate and click dropdown arrow key and navigate to the new "RUSLE2 1.26 (county name)Nov10" moses file.



Once you have selected the appropriate file on your shared drive it should show up in the lower right hand corner "RUSLE2 1.26 (county name)Nov10".

Now to have the computer always open up to the correct database, go back to the top toolbar and click on Database and Startup database. Go back to Database and if there is a check mark next to startup database the computer will open up to this database everytime.

**REMEMBER** to connect all computers back to the database on the shared drive. You have to login as the user to connect to the database on the shared drive and be sure to check the Startup Database to lock it in.

If you are having difficulties contact your Area Resource Conservationist.

Approved By: *Richard Sims*

Date: *11/30/2010*

Richard Sims  
State Conservationist  
Natural Resources Conservation Service  
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Des Moines, IA 50309-2180

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