DATABASE UPDATE INSTRUCTIONS FOR USE WITH RUSLE2 VER 2.6.8.4 (Similar to previous versions)

The following are instructions to update the local RUSLE2 database after this new version is installed so that all the new functions work. This is extremely important with this version since the new energy calculator functions are contained in a new fuels folder and every field operation has been revised to include new diesel fuel equivalent values.

In a typical field office RUSLE2 is installed on each computer used by employees who do conservation planning. This may be the DC, soil conservationist and in many cases the technicians as well. Typically, only one copy of the local database is maintained in an office and the path to it is set on each computer running RUSLE2. Typically the local database used with previous versions is located on the shared drive in a field office.

LOADING AND SETTING THE PATH TO THE LOCAL RUSLE2 DATABASE

After the new version install is performed, the local database needs to be located (shared drive or in the backup folder on the C drive).



Your backup folder may have 03-37-2017 or the date of the most recent version.

You can move the local database to the location where you want to use it. It must then be loaded and the path to it set in the "database\startup database" dialog in RUSLE2 on each computer. The active database file name is displayed in the lower right corner of the RUSLE2 screen.



Two ways exist to open an alternate database. The previous screen shot shows the first which is to open the "database" dialog on the top RUSLE2 task bar and other is to simply right click on this database name in the lower right corner of the RUSLE2 screen and select "open alternate".



Then navigate to the appropriate location and select the old local database file and allow it to load. You can navigate to this file anywhere on the local network and set the path to it.



SETTING THE PATH TO THE DATABASE FILE:

Then, simply open the database dialog on the top RUSLE2 task bar and click "startup database" once with the left mouse button.



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 model is rebooted.

UPDATING THE LOCAL DATABASE

Base Database vs Database Update files:

- 1. The base database, such as **Base_NRCS_Moses_03302016**, is more complete than the database update file and has all of the parameters necessary to run RUSLE2 except local data, including climate, soils, and crop management templates. When there is a major change in database, such as CMZs, soils, operations, or vegetations, particularly deletions, it is recommended to archive the working moses database and build a new working moses database. The active database in RUSLE2 becomes the current base database into which local soils, climates, CMZs, and c folder managements, profiles, worksheets and plans are imported.
- 2. The database update file, such as NRCS_Moses_updates_030104to03302016.gdb, is not a complete database but only contains new additions and edits since the initial release of RUSLE2 and therefore must be imported into the current local database using the database\import function in RUSLE2. This file should never be used as the starting database since incomplete. It is only used to import into a base database or working moses database.

METHOD 1 DATABASE UPDATE PROCESS USING BASE DATABASE:

This is the recommended process if major changes have occurred in the database and if there are broken internal links in the local database. This involves archiving the old database and start fresh with the new version. This process involves using the base database (mosesxxx.gdb file) that comes with the installer and importing specific parts of their local database or checking website to download latest base database to ensure using latest base database. Download as well any new soils data and new crop management zone templates and import directly into it. This would be a good time to go to the RUSLE2 website and get the latest soils data file(s) for the areas served by the field office as well as the latest management templates for the crop management zone (CMZ) in which the field office is located. Once those are imported into the moses.gdb file then one additional import can be made to bring in the climate data, local management records from the "C. Other local managements" folder under managements and any profiles, worksheets and plans from those folders in the local database. These can all be imported in one import session from the old database.

STEP 1: Download all files needed from the RUSLE2 website.

STEP 1a: Downloading RUSLE2 files – Base Database

Archive the working moses database and build a new working moses database. The active database in RUSLE2 becomes the current base database into which local soils, climates, CMZ's and c folder managements, profiles, worksheets and plans are imported.

- a. Your existing local base database should be saved in C:\Program Data\USDA\Rusle2\NRCS\ (In latest version) and may be named "date_county.gdb".
- b. Right-click, copy the file, and paste it into the same location. Then right-click on your copy, and rename "file_name_archive_date.gdb" or save it to another appropriate location.
- c. Now, download and update any indicated databases as outlined in the following instructions:
- 1. Go to the <u>RUSLE2 website</u> and click "Download File" under Base Database & Misc Files



- Click on the most updated base database (Base_NRCS_Moses_03302016.zip) and hit "Save to". Save the zip file under C:\ProgramData\USDA\Rusle2\NRCS\
 - a. In this same ftp site, there is a folder "Latest Base Database Updates". The document in this folder titled "Database Updates 03302016.docx" explains what's new in the base database.

	Name	Last modified	<u>S12</u>
	Parent Directory		
ð	BASE NRCS MOSES 01292015.zip	29-Jan-2015 19:30	12
	CSP presentation/	05-Apr-2006 18:55	
	Farm Equipment presentation/	09-Mar-2006 22:05	
?	Importing soils. climate and managements rev072006.doc	20-Jul-2006 15:55	565
	Latest Base Database Updates/	29-Jan-2015 20:07	
	Manure drymatter calclations/	24-Oct-2010 17:27	
	NASIS Import "How to" files/	25-Oct-2005 15:50	
	Printing templates/	23-Oct-2014 14:33	
	Soil Removal tables for B&B Nursery and Sod farms/	22-Apr-2005 16:53	
	Soil removal procedure for subsidence on Histosols/	10-Feb-2006 17:16	
	User Screen_templates/	05-Feb-2015 21:59	

- 3. Extract the zip file
 - a. Open Explorer and navigate to C:\ProgramData\USDA\Rusle2\NRCS\
 - B. Right-click on the zip file, select "WinZip→Extract to here".
 You've now successfully downloaded the newest base database (moses) to your Local drive.

STEP 1b: Downloading/Saving RUSLE files – Climate

- Go to the <u>RUSLE2 website</u> and click "Data Files" under Climate Data. Click on the state Climate file, such as IN_clim011603.zip. Save the zip file under C:\ProgramData\USDA\Rusle2\NRCS\Import.
- 2. Extract the zip file
 - a. Open Explorer and navigate to C:\ProgramData\USDA\Rusle2\NRCS\Import

b. Right-click c	on the zip file, se	lect "WinZ	ip→Extract to
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	🛃 Huntington County, Indiana	3/9/2015 10:43 AM	GDB File 165 KB
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c. You've now successfully downloaded the state Climate data to your Local drive.

STEP 1c: Downloading/Saving RUSLE files – Crop Management Zones

- Go to the <u>RUSLE2 website</u> and click "Data Files" under Crop Management Templates. Click on the Crop Management Zone file, such as, CMZ_04.zip. Save the zip file under C:\ProgramData\USDA\Rusle2\NRCS\Import.
- 2. Extract the zip file
 - a. Open Explorer and navigate to C:\ProgramData\USDA\Rusle2\NRCS\Import.
 - b. Right-click on the zip file, select "WinZip \rightarrow Extract to here".

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is	📩 Clark County, Indiana	2/19/2015 9:48 AM	GDB File	680 KB
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	占 Clinton County, Indiana	3/9/2015 10:29 AM	GDB File	188 KB
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- c. You've now successfully downloaded the Crop Management Zones data to your Local drive.
- d. You may need one or more CMZ files depending on the area(s) you cover. If multiple CMZs are needed, repeat steps in 1c to download all needed files. See the "Crop Management Zone Maps" on the RUSLE2 home page to determine which CMZs you need.

STEP 1d: Soils Data (with Version 2.5.9.0 and 2.6.8.4, soils are brought into the local database with a 2 step import process) (further instructions below)

STEP 2: Import the updated files into RUSLE Program

Now we want to bring in only the most up to date climate, soils and CMZ information into the updated database (Base_NRCS_Moses_03302016) then bring into this our locally developed managements.

Step 2a: Setting your new Base Database

- 1. Open RUSLE2.
- 2. Right-click on your startup database and select 'Open alternate'. Bring in the Base_NRCS_Moses_03302016 that you downloaded from the RUSLE2 site (located under C:\ProgramData\USDA\Rusle2\NRCS\).

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		BASE_NRCS_MOSES_03302016 without new forage vegetations.gdb	4/13/2016 8:42 PM	GDB File	48,517 KB		
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- 3. You have now set the Base_NRCS_Moses_03302016.gdb as your working base database in RUSLE2. Now we will bring into this the following:
 - a. Crop management zones
 - b. Climate data
 - c. Soils information (by county-for all counties you'll be working in)
 - d. Local crop managements/rotations

4. To set this as your default database, right-click on the database name and select "Startup database"

Step 2b: Importing the Climate Update file into your Current Local Working Database

- 1. Open RUSLE2.
- 2. Click on "Database", then "Import database......"



1. Navigate to the folder C:\ProgramData\USDA\Rusle2\NRCS\Import and select IN clim011603.gdb and click "Open".

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Marion_County,_Indiana.gdb	🖬 Putnam_County,_Indi
moses.backup.2009-02-27 14h19m50.gdb	
moses.backup.2011-12-07 06h34m27.gdb	
Image: NRCS_Moses_updates_030104_to_093011.gdb	
	•
File name: IN clim011603.gdb	Open
Files of type: RUSLE2 Database Files (*.gdb)	Cancel

2. Select the 'climates' box on the "Import Database" (left-hand side) of the Import database window. Select "None" under 'Include dependent files, and "Import to same Folder". Click "Import".



3. Select the 'climates' box on the "Import Database" (left-hand side) of the Import database window. Select "None" under 'Include dependent files, and "Import to same

Folder". Click "Import".

4. Click "OK" when you see this warning.



- 5. Let the import process run its course. Be patient-it may take a few seconds. Don't click the mouse. When the import is complete, click "OK".
- 6. Then click "OK" to acknowledge the import is finished.

N clim011603.gdb
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at C Import to same folder C Import to new folder Import Close

7. We can now proceed to update CMZs, soils, and bring in local managements the same way.

Step 2c: Importing the Crop Management Zones Update file into your Current Local Working Database

- 1. Open RUSLE2.
- 2. Click on "Database", then "Import database......"



3. Navigate to the folder C:\ProgramData\USDA\Rusle2\NRCS\Import and select CMZ 4.gdb and click "Open".

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🔒 AppData 🔺	Name	Date modified	Туре	Size		
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besktop	CMZ 04.gdb	7/17/2014 9:57 PM	GDB File	10,106 KB		
Downloads	Continuous grazing + overwintering.gdb	4/25/2014 9:55 AM	GDB File	243 KB		
🔓 Favorites 📰	Forsyth example profile plus managements.gdb	8/5/2013 8:01 PM	GDB File	1,993 KB		
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My Document	NE clim011603.gdb	9/13/2007 10:32 AM	GDB File	148 KB		
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4. Select the 'managements' box on the "Import Database" (left-hand side) of the Import database window. Select "None" under 'Include dependent files, and "Import to same

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- 5. Proceed with steps 5-8 outlined under 2b.
- 6. *NOTE: if you need to import multiple Crop Management Zone files, repeat the steps outlined in 2c.*

Step 2d: Importing Soils Data into your Current Local Working Database

- 1. Open RUSLE2.
- 2. Click on "Import", then "SSURGO Soil database"
- **3.** Select your State, County to import, click "OK". It is best to import one county at a time (and not the entire state or states) due to server timeouts.





- **4.** When import is complete, click "OK". If there any issues with importing a given soil, let your state/regional agronomist know.
- 5. The soils will be imported into a SSURGO folder in your database under soils:



Now we have done the following:

- Started with the newest updated database (Base_NRCS_Moses_01292015.gdb)
- Imported updated climate
- Imported updated Crop Management Zones (CMZs)
 - With the updated CMZ information, we now have current a. and b. folder rotations.
- Imported updated soils information

Step 2e: Importing locally developed managements from your archived (old) moses database to the new Base_NRCS_Moses_01292015.gdb which will be renamed soon to your new working moses database.

- 1. Open RUSLE2.
- 2. Click on "Database", then "Import database......"



 Navigate to the location of your original archived base database and select it. This file can be under folder C:\ProgramData\USDA\Rusle2\NRCS\Backup or S:\Service Center\NRCS\RUSLE2\import. Click "Open".

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Look in: 隘	Import	- 🔁 📸 🖬 -
BASE_NRC BASE_NRC BASE_NRC CMZ 4.gdt CMZ 16.gc CMZ 17.gc	nam, IN.gdb 55_MOSES_01_17_2012.gdb 55_MOSES_09_30_2011.gdb 5 db db	Hendricks_County,_Indian. IN clim011603.gdb Marion_County,_Indiana.g moses.backup.2009-02-27 moses.backup.2011-12-07 NRCS_Moses_updates_03(
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File name:	03_05,Putnam, IN.gdb	Open
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4. Remember that we want to pull over from our archived database the *local rotations* saved under your c. "Other Local Mgt Records" folder. Because of this, on the left hand

side, expand each CMZ and put a check next to each CMZ's c. "Other Local Mgt Records" folder. Select "None" under 'Include dependent files, and "Import to same Folder". Click "Import".

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5. You may receive one or more 'Confirm Object Replace' warnings. Click "Yes to All".

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- 6. Proceed with steps 6-8 outlined under 2b.
- 7. Note: if you have previously developed profiles, worksheets, plans in your database, you can also bring these over using the steps outlined under Step 2e. However, under step 4 select the appropriate folder on the left (under Import Database).

Step 2f: Run Consistency Check and Repair Broken Links

As the database is maintained and updated nationally, some records such as operations or crops are renamed or moved to sub folders and this consistency check allows you to repair any links that were severed. This insures that the program will run properly with the items being imported.

1. Go to Database → Check Consistency. If you receive any errors (i.e. broken links) you can run a repair to resolve the issue.



 If any orphan records are noted, scroll down and reattach to the appropriate new record.



Other 'broken links' you may see during this process are:



3. The window for the consistency check will close automatically. You will know it is completed when the lower left-hand corner of the RUSLE2 screen says "Finished Calculating".



STEP3: Update File Names and Create Backup Copies

Step 3a: Rename your Updated Local Base database

We have now updated our new Base database with the following:

- a. Crop management zones (CMZ files)
- b. Climate data
- c. Soils information (by county-for all counties you'll be working in)
- d. Local crop managements/rotations (from your archived local database)

Once you have imported the updated climate, CMZ, soils, and local rotations you will want to rename your current local database.

- 1. Close RUSLE2.
- 2. Open windows explorer (My Computer) and navigate to the location of your saved local base database (should be C:\ProgramData\USDA\Rusle2\NRCS\)
- 3. Right-click on your local base database file and select "Rename".



- 6. You will get a warning that RUSLE cannot find your base database. Click "No" so that RUSLE will open.
- 7. RUSLE will open, but it will have defaulted to an old 'moses.gdb'. You will need to load your renamed (updated) moses database: right-click on the location of where the current moses.gdb is and select "Open Alternate".
- Select your moses database with the updated name (i.e. moses_database_Date.gdb) for use in RUSLE. (Remember, it should be located under C:\ProgramData\USDA\Rusle2\NRCS\).
- 9. If you would like this to be your 'Default' database that loads automatically on startup, right-click on its name and select "Startup Database".



Step 3b: Create a Copy of your Updated Files on your Shared Drive

Copy all of your updated information, including your updated, renamed local base database from C:\ProgramData\USDA\Rusle2\NRCS\Import to S:\Service_Center\NRCS\RUSLE2\.

- 1. Open windows explorer. Navigate to C:\ProgramData\USDA\Rusle2\NRCS\
- 2. Go to Edit→Select All
- 3. Go to Edit \rightarrow Copy
- 4. Using windows explorer, navigate to S:\Service_Center\NRCS\RUSLE2\.
- 5. Right-click in the white space in this folder and select "Paste".
- 6. Now you have a complete backup of the updated RUSLE files on your shared drive, in addition to the 'working' copies on the local drive. This backup is useful if you should ever need to restore any files to your local machine, or if you have multiple people in the office using RUSLE, they can 'borrow' your updated database by accessing the Shared drive location.

These instructions assume that you will be routinely accessing/working off of the RUSLE2 files located on the Local drive (C:\ProgramData\USDA\Rusle2\NRCS\). Some users may prefer to work off of the versions saved to their shared drive (S:\Service_Center\NRCS\RUSLE2\).

If users want to work from the S:\drive copy of the local base database, right-click on the startup database, select 'Open Alternate', map to the S:\Service_Center\NRCS\RUSLE2\import folder and open the copied local database. Then right-click and check this one as the new startup database. Your state/area agronomist can work with you to set up your local moses database.

METHOD 2 DATABASE UPDATE PROCESS USING DATABASE UPDATE FILE:

The database update file, such as NRCS_Moses_updates_030104to01292015.gdb, is not a complete database but only contains new additions and edits since the initial release of RUSLE2 and therefore must be imported into the current local database using the database\import function in RUSLE2. You will use this method when minor updates have been made to the database and you simply want to import the latest updates into your working moses. This file should never be used as the working moses since incomplete.

1. Go to the <u>RUSLE2 website</u> and click "Download File" under Base Database & Misc Files



2. Click on the most updated base database (for example <u>NRCS_Moses_updates_030104_to_03302016.zip</u>) and hit "Save to". Save the zip file under C:\ProgramData\USDA\Rusle2\NRCS\Import.

 a. In this same ftp site, there is a folder "Latest Base Database Updates". The document in this folder titled "Database Updates 03302016.docx explains what's new in the base database.

Name	Last modified	Siz
Parent Directory		
BASE NRCS MOSES 01292015.zip	29-Jan-2015 19:30	12
CSP presentation/	05-Apr-2006 18:55	
Farm Equipment presentation/	09-Mar-2006 22:05	
Importing soils. climate and managements rev072006.doc	20-Jul-2006 15:55	565
Latest Base Database Updates/	29-Jan-2015 20:07	
Manure drymatter calclations/	24-Oct-2010 17:27	
NASIS Import "How to" files/	25-Oct-2005 15:50	
Printing templates/	23-Oct-2014 14:33	
Soil Removal tables for B&B Nursery and Sod farms/	22-Apr-2005 16:53	
Soil removal procedure for subsidence on Histosols/	10-Feb-2006 17:16	
User Screen_templates/	05-Feb-2015 21:59	

- 3. Extract the zip file
 - a. Open Explorer and navigate to C:\ProgramData\USDA\Rusle2\NRCS\Import
 - b. Right-click on the zip file, select "WinZip \rightarrow Extract to here".

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☆ Favorites	Name Date modified Type						
E Desktop	Noble County, Indiana 3/9/2015 10:42 AM GDB File						
Downloads	NRCS_Moses_updates_030104_to_01292015 3/16/2015 10:52 AM GDB File						
Sa Recent Places	RCS_Moses_updates_030104_to_012920152/17/2015_3:12_PMWin7in_File						
	Open with WinZip						
🕞 Libraries	Orange County, Indiana Print						
Documents	Owen County, Indiana Scan with System Center Endpoint Protection						
Musie	Parke County, Indiana Open with						
Extract to							
Extract to here	as versions						
Extract to folder C:\Pro\USDA\RUSLE2\NRCS\Jm	Extract to folder C\Pro\USDA\RUSLE2\NRCS\Jmport\NRCS_Moses_updates_030104_to_01292015 Extract to folder						
Extract to folder							
E-Mail NRCS_Moses_updates_030104_to_01292015	E-Mail NRCS_Moses_updates_030104_to_01292015.zip						
Encrypt	Encrypt						
Create Self-Extractor (.Exe)	Create Self-Extractor (.Exe)						

- c. You've now successfully downloaded the newest base database update to your Local drive.
- 4. Open RUSLE2, make sure your local database is the startup database:

5. Select Database, Import; navigate to the moses update.gdb, click open:

Select import database					X
Concertainty Computer	G → Computer → OS (C:) → ProgramData → USDA → RUSLE2 → NRCS → Import			- 4+ Search Import	
Organize 🔻 New folder	r				II • 🔟 🔞
4 🚖 Favorites	Name	Date modified	Type	Size	
E Desktop	CMZ4 updated Cover crop files.adb	3/4/2016 2:15 PM	GDB File	10.465 KB	
Downloads	Example local moses.gdb	6/2/2016 10:30 AM	GDB File	9,271 KB	
Secent Places	NRCS_Moses_updates_030104_to_01292015.gdb	4/7/2016 9:11 AM	GDB File	39,224 KB	
	NRCS_Moses_updates_030104_to_03302016.gdb	4/7/2016 10:05 AM	GDB File	39,224 KB	
4 🧱 Libraries					
Documents					
Music					
Pictures					
Videos					
> St os (c)					
> g Us (c.)					
DINGRISCHEINE ((NVEL) > SE NSSC (VNELINCOLN)					
> 😪 Network					
File nom	NRCE Mores updates 020104 to 02202016 adb			-	PUSIE2 Database Files (Lod -
rite nam	NRCS_Moses_updates_030104_t0_03302010.gdb			•	RUSLEZ Database Files (*.go +
					Open 👻 Cancel
					11.

6. Once you have selected the file to import, a split screen will appear. The left side is the database file from which you will import and the right side is the database side into which you will import. All folders and all contents of the database update file should be selected for import by clicking the very top box on the left side of the split screen thus cascading the selections to all subfolders and contents.

Import Database: NRCS_Moses_updates_030104_to_03302016.gdb				
Import Database:	Installed Database:			
 Climates Contour-systems Contour-systems<td> climates contour-systems deep-soil-drain-systems erosivities fuels hydraulic-element-flow-paths hydraulic-element-systems hydraulic-elements irrigation-systems managements operations permeable-barriers plans profiles residues soils </td>	 climates contour-systems deep-soil-drain-systems erosivities fuels hydraulic-element-flow-paths hydraulic-element-systems hydraulic-elements irrigation-systems managements operations permeable-barriers plans profiles residues soils 			
2991 items selected to import Include dependent files: All C Choose I None	Import to same folder Import to new folder Import Close			

7. Click Ok





8. Select Database, Check consistency: (repair any broken links; ask for assistance)

