Revolutionizing Conservation Delivery

Us

in learning more about what Agren's conservation planning
o for you? We're here to help.

email, give us a call, or submit a message using the form below.
ack to you as soon as we can.

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(required)

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Email: click here

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Carroll, Iowa 51401
Office Hours: 8am – 5pm
(Central Time)

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AGREN®

Agren's precision conservation suite for agricultural advisors includes the following:

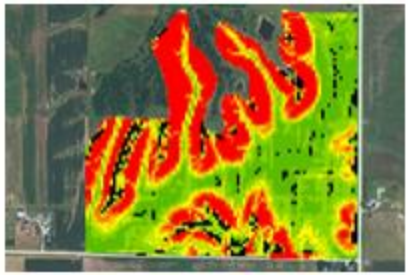
SoilCalculator
WaterwayBuilder
PondBuilder
BasinBuilder
WetlandBuilder

Soil & water savings

Agren's software enables advisors to offer a full-suite of conservation planning services that help growers protect soil and water resources and applied nutrients. This makes good sense — to the grower, to the landowner, to agriculture, and to the community. As an advisor, your success depends on your ability to make fast and reliable recommendations that convert inputs to maximum crop yields. Management of both soil and water is integral to this equation.

SoilCalculator

Calculate and control erosion with SoilCalculator



Soil erosion has a significant, negative impact on crop yields, especially in years when weather conditions are unfavorable. Erosion also results in lost nutrients and lowered land values.

Agren® SoilCalculator allows service providers to plug in various crop rotations, tillage systems, and conservation practices and view the resulting erosion predictions for up to three scenarios. Color-coded maps, similar to a GIS yield map, pinpoint areas of high erosion. Growers can easily evaluate alternatives side by side to maximize profits, conserve soil, preserve yields, and reduce nutrient inputs.

With SoilCalculator, you can:

Videos

Brochure

Request more info

User Manual

Differentiate your precision ag offering from the competition.

As you know, growers have limited resources to help them make cost-effective, timely decisions for managing soil and water on their farmland. As an ag retailer, you have a need to distinguish

Agren's precision conservation suite for agricultural advisors includes the following:

Get the competitive edge

Get the competitive edge

Are looking for ways to make your service and products stand out against the competition?

Agren's precision conservation suite for contractors includes the following:

Fast, easy, accurate conservation planning

Why spend 40 hours or more planning a conservation practice like a pond, waterway or wetland, when you can create multiple options for a single site in just 30 minutes with smart online

Agren's conservation planning tools include the following:

PondBuilder

AGRICULTURAL RUNOFF

▶ https://youtu.be/crHD68gzCNw

Lower your input costs and protect land value by slowing erosion.

With a SoilCalculator report, landowners can:

- Target practices to high soil erosion areas
- Use actual slope steepness in conservation planning
- Calculate average soil erosion and the total amount of soil erosion each year
- Easily compare management systems to determine managements to maximize soil savings
- Visualize erosion amounts across the field
- Add this data layer to other layers to determine the effects on yield and nutrient loss

SoilCalculator combines the accurate slope length and steepness of LiDAR and the calculation engine of RUSLE2 to provide a soil erosion grid across an entire field. No previous GIS experience is required.

Revised Universal Soil Loss Equation, Version 2 (RUSLE2)

Official NRCS RUSLE2 Program

Official NRCS Database

This site contains the official NRCS version of RUSLE2. It is the only version of RUSLE2 to be used for official purposes by NRCS field offices. The NRCS developed and maintains the database components on this site. These components comprise the Official NRCS RUSLE2 Database. The official NRCS RUSLE2 database is the only database to be used for official purposes by NRCS field office employees.

RUSLE2 is an upgrade of the text-based RUSLE DOS version 1. It is a computer model containing both empirical and process-based science in a Windows environment that predicts rill and interrill erosion by rainfall and runoff. The USDA-Agricultural Research Service (ARS) is the lead agency for developing the RUSLE2 model. The ARS, through university and private contractors, is responsible for developing the science in the model and the model interface.

For further information about the databases, contact Linda Scheffe at **Linda.Scheffe@lin.usda.gov**.

For science related issues, contact Giulio Ferruzzi at **giulio.ferruzzi@por.usda.gov**.

Additional information on RUSLE2 is available at the ARS Oxford Mississippi National Sedimentation Laboratory website.

Note: This site is optimized for use with Internet Explorer 6.0. To install IE 6.0 see you local computer Administrator or visit the Microsoft website at www.microsoft.com.

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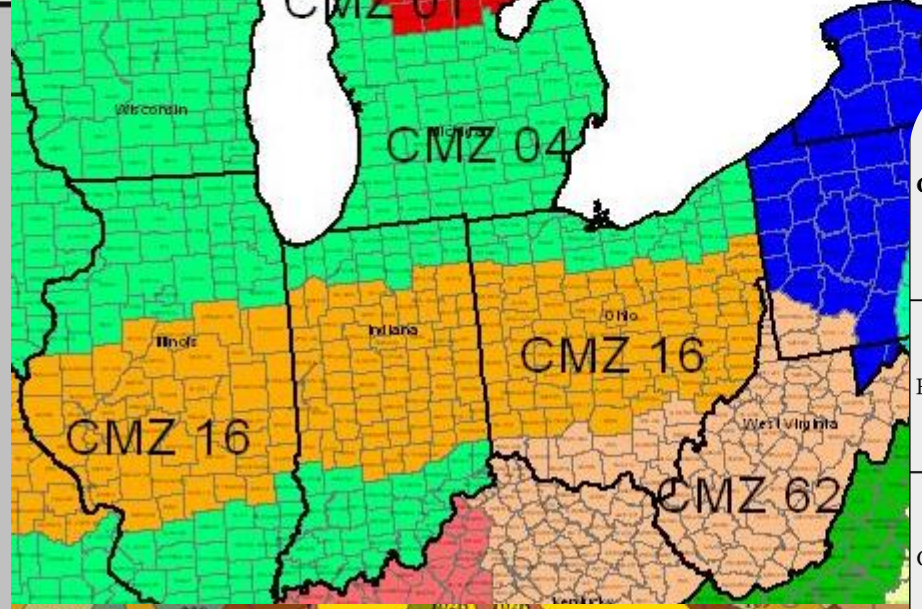
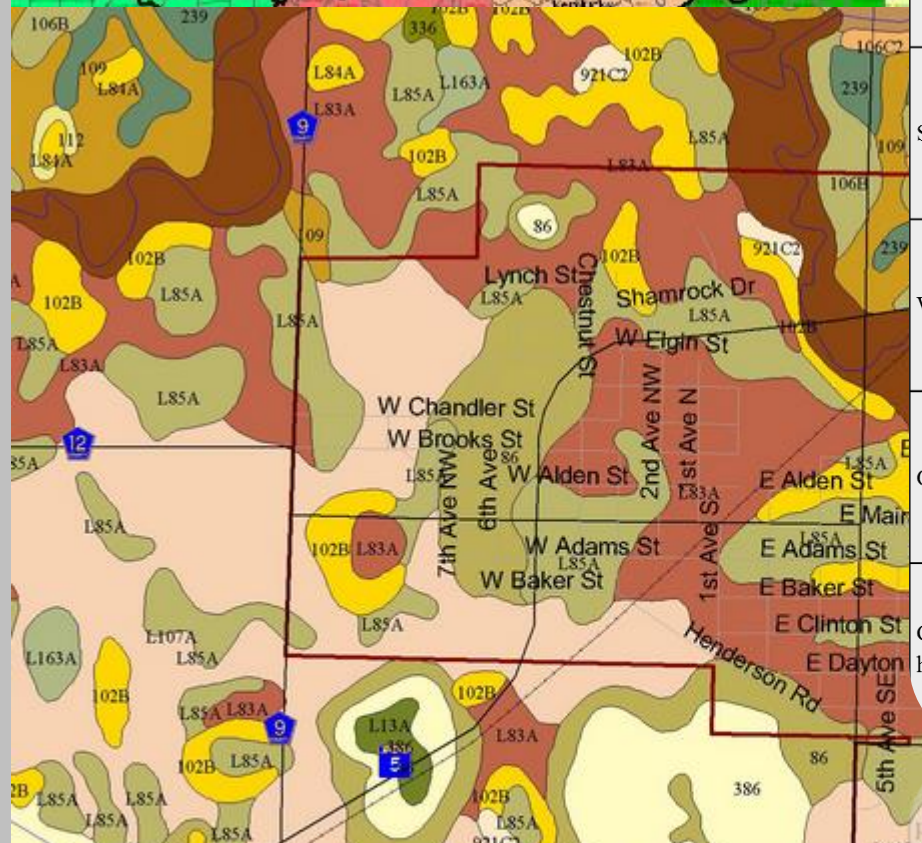
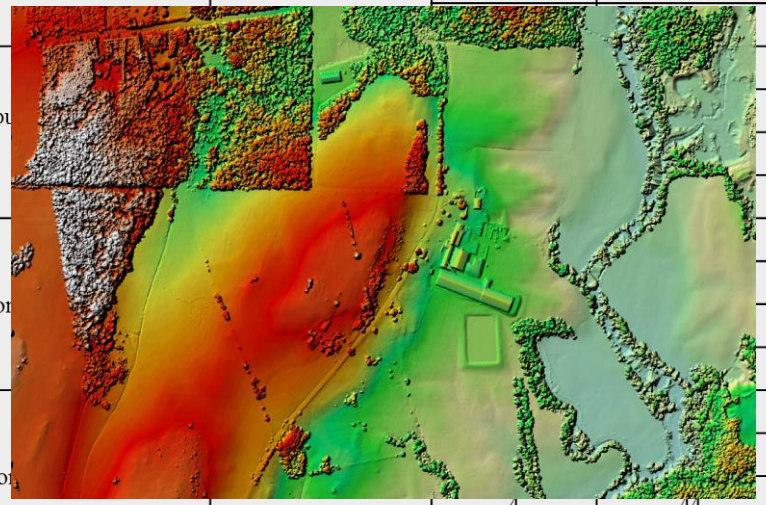




Crop	Yield Unit	Crop P_2O_5 Content (lbs P_2O_5/yield unit)	Yield (yield unit/ac)	Crop P_20_5 Removal (lbs/ac)
Barley	bu (48 lbs/bu @ 14% moisture)	0.35	40	14
			60	21
			80	28
			100	35
Corn	bu (56 lbs/bu @ 15.5% moisture)	0.33	50	17
			100	33
			150	50
			200	66
Soybean	bu (60 lbs/bu @ 13% moisture)	0.72	30	22
			40	29
			50	36
Wheat	bu			
Corn silage	ton			
Grass-legume hay	ton		4	44
			5	54



RUSLE2 Version 1.26.6.4 (Nov 13 2006)

File Database Edit View Options Tools Window Help

Auto update

Profile: Buchanna example

STEP 1: Choose location to set climate: Location USA\Iowa\Buchanan County

STEP 2: Choose soil type: Soil Generic Soils\clay loam (low-mod OM)

STEP 3: Set slope topography: Slope length (along slop 200 Avg. slope steepness, % 4.0

STEP 4a: Select base management: Base management CMZ 04\c Other Local Mgt Records\CRP

STEP 4b: Modify/build man. sequence if desired: Management sequence

Man.	Management	Starting date, m/d/y	Ending date, m/d/y	Correct dates by
1	CMZ 04\c Other Local Mgt Records\CRP	10/1/1	8/17/2	

STEP 4c: adjust management inputs if desired: Adjust yields open

Help
Highlight
Dimension
Disable
Always show
Hide if toplevel
Column width
Header size
Expand grid
Delete this visual
SLOPE_YIELD_LEVEL

Apply rot. builder manage. sequence to erosion calc. Apply Save temp. management as permanent Save

STEP 5: Set supporting practices: Contouring a. rows up-and-down hill Actual row grade, % 4.0

Strips/barriers: Silt fences\1 Silt fence in middle of slope

Diversion/terrace, sediment basin: 1 Water and Sediment Control Basin at bottom of RUSLE slope

Subsurface drainage: (none)

Segment	Yrs offset from start year, yr
1	0
2	0
3	0

RUSLE2 (calibrated evaluation) Version Aug 16 2002

File Database Edit View Options Window Help

Auto update

Profile: Columbia, MO\road hillslope Columbia, MO*

Add break | Erase break

Manage Soil Topo

*Length along slope, ft 182
*Avg. slope steepness, 29.4
*Location Missouri\Columbia
Sediment delivery, t/ac/ 0.23

Soil | Topography | Management | Info

Slope Topography

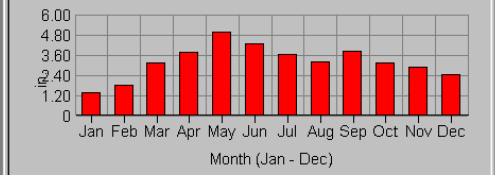
*Segment + -	*Steepness, %	*Horiz lengths, ft	Soil loss, t/ac/yr
1	33.0	70.0	0.059
2	-33.0	8.91	0.040
3	2.00	20.0	5.58
4	33.0	75.0	-1.01

Climate: Missouri\Columbia

Monthly Climate

Month	*Avg. temp., deg F	*Month precip., in.
Jan	27.6	1.45
Feb	32.1	1.84
Mar	43.2	3.17
Apr	54.7	3.83
May	63.6	5.01
Jun	72.1	4.32
Jul	77.4	3.67
Aug	75.2	3.28
Sep	67.9	3.86
Oct	56.5	3.22
Nov	44.1	2.93
Dec	31.8	2.47

*Month precip., in. - Missouri\Columbia CLIMATE



Help

Auto update

45.8
6.00

ring plow

2.57
2.57
2.57

n\conv till\112bu ac s...

rough., mm 6.00
Duration, yr 1

*Vegetation

corn\112 bu ac

plows\m...

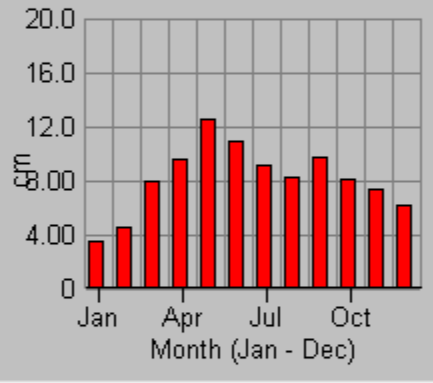
.05
.63
.66

Soil: silt loam\silt loam (l-m OM)

*Sand, % 20.0
*Silt, % 60.0
*Clay, % 20.0

Graphic
*Texture Silt loam
*Hydrologic class C - mod. high runoff
*Erodibility, Metric 0.049

*Month precip., cm - Korea/...



Climate: Korea/Seoul

*R Factor, Metric 205
*10 year EI, Metric 1617
*Standard EI distribution US_103

Monthly Climate

Month	*Avg. temp., deg C	*Month precip., cm
Jan	-2	4
Feb	0	5
Mar	6	8
Apr	13	10
May	18	13
Jun	22	11

Erosivity: US_103

Half month Erosivity

Period	*EI, %
1/1-1/15	1.00
1/16-1/31	1.00
2/1-2/14	1.00
2/15-2/28	1.00
3/1-3/15	2.00
3/16-3/31	2.00

Residue: corn stalks

*Decomp. rate 0.016
*Decomp. half-life, days 43.0

Cover & mass values

*Area covered, % + -	*Weight required, lb/ac
30.0	950
60.0	2400
90.0	6050

Vegetation: corn\112 bu ac

*Residue type corn stalks

Growth chart

*Age, day + -	*Root mass in top 4 (10cm), kg/ha	*Canopy cover, %	*Fall height, cm
0	0	0	0
15	44.8	5	3.05
30	179	10	15.2
45	359	50	30.5
60	538	75	51.8

https://apps.agrentools.com/SoilCalculator/Agren.SoilCalculator.Viewer/index.html

SoilCalculator
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Welcome, John Waterman

- Find

Address | TRS | Lat\Lon

Enter an Address or Place:

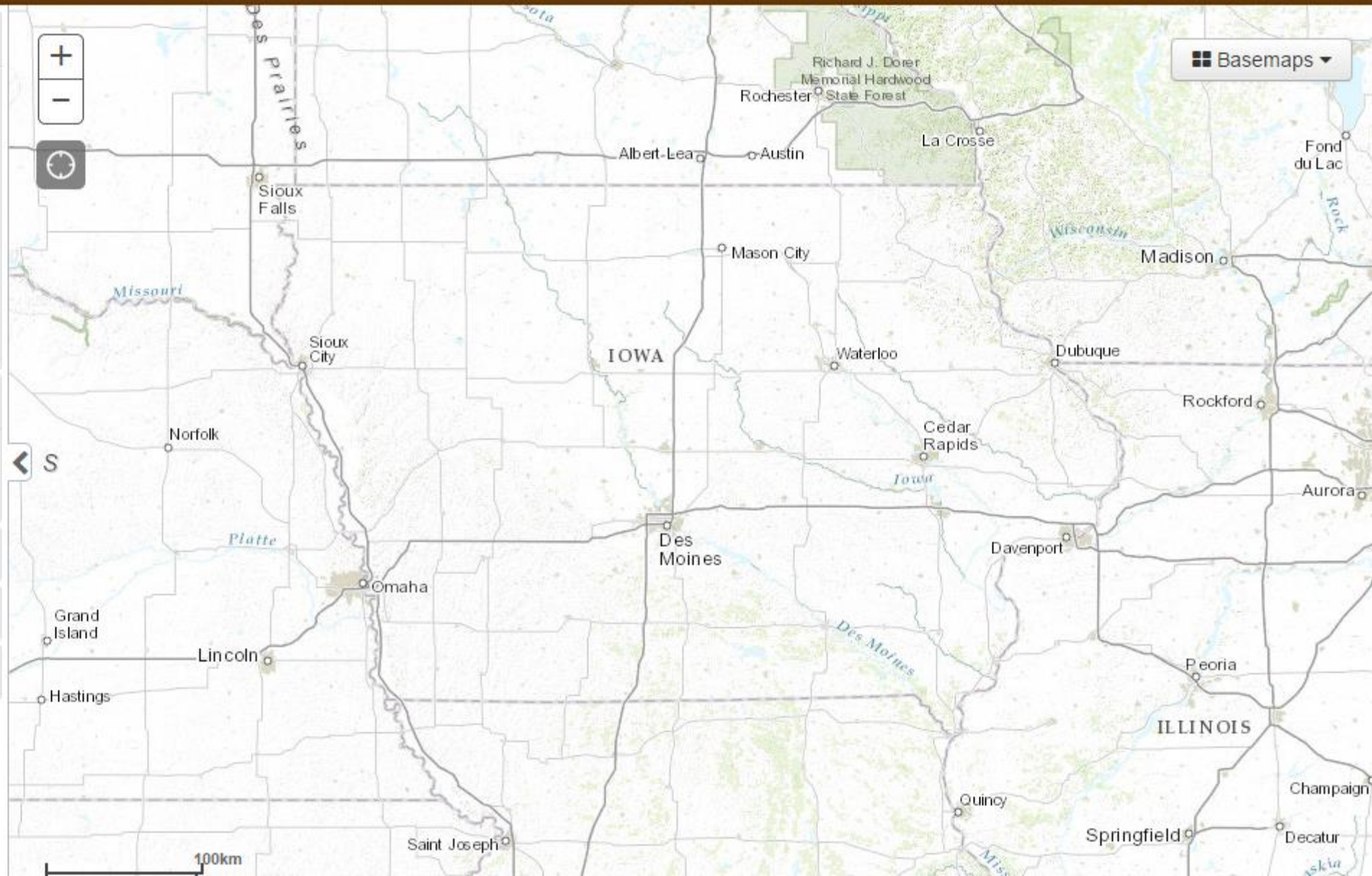
123 Main St., Anywhere, USA

- Field Editor

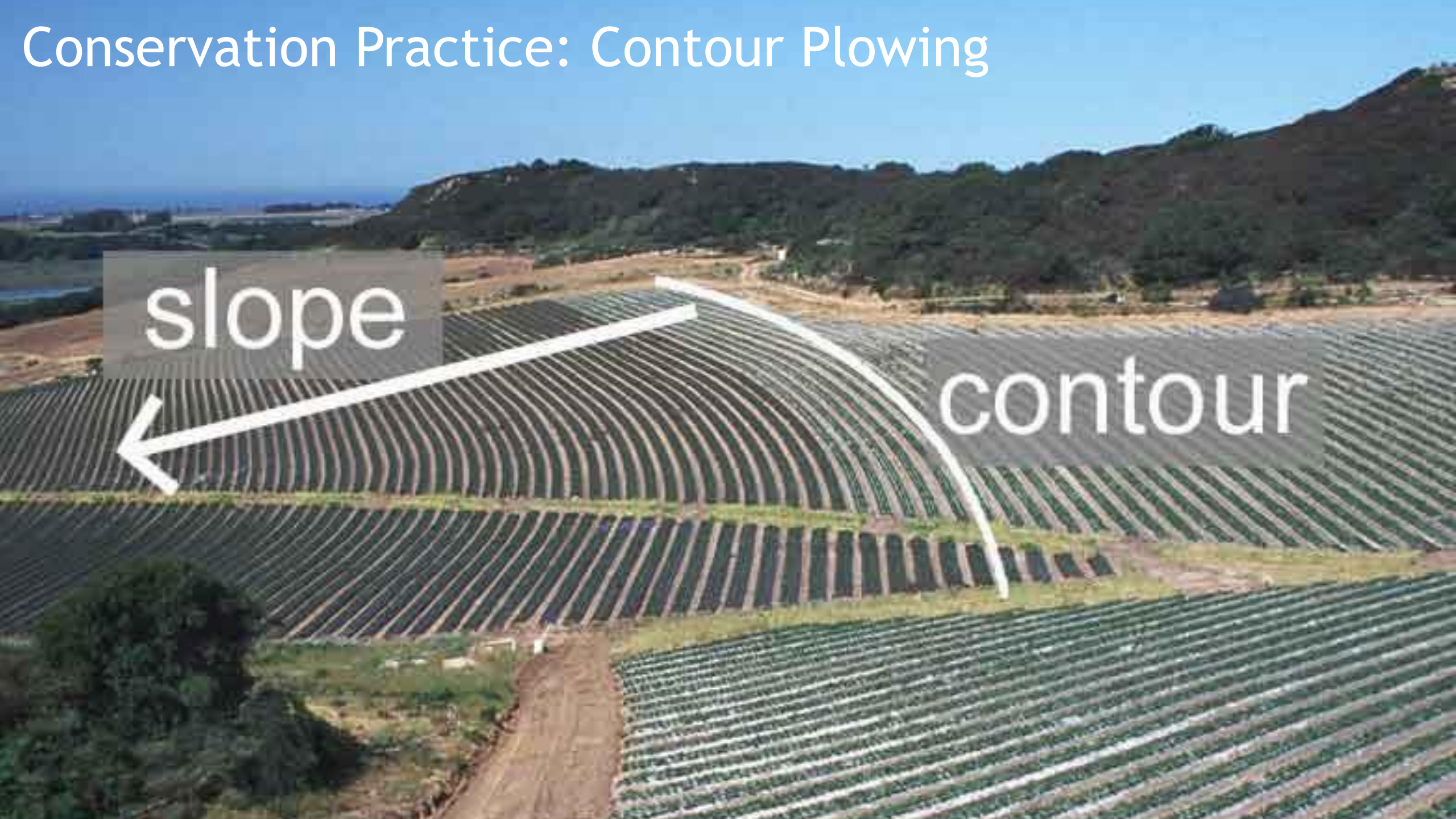
Add Field Map Tool

- Soil Loss Calculation
- Session Management
- Layers

Basemaps



Conservation Practice: Contour Plowing



Conservation Practice: Contour Buffer Strips

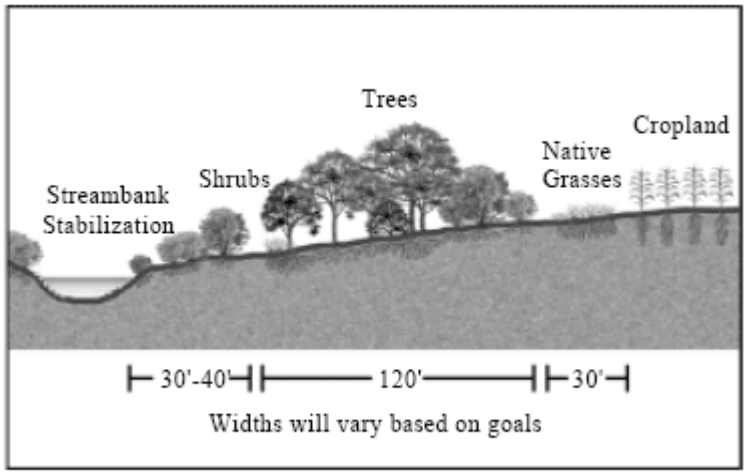


Figure 1. Cross section of an alternative buffer design.

Conservation Practice: Terraces

https://apps.agrentools.com/SoilCalculator/Agren.SoilCalculator.Viewer/index.html

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Field A

Field B

Field C

Soil Loss Calculation

Session Management

Save Session File

Save File

Agren Soil Savings Plan - Lone Willow Creek - Message (HTML)

FILE MESSAGE

Ignore Junk Delete | Reply Reply All Forward Meeting More | IT - john@agre... Team Email Reply & Delete To Manager Done Create New | Move Rules OneNote Actions | Assign Policy Mark Unread Categorize Follow Up | Translate Find Related Select | Zoom | Add to Evernote 5

Delete Respond Quick Steps Move Tags Editing Zoom Evernote

Sun 5/31/2015 7:30 PM

Agren Tools <support@agrensupport.com>

Agren Soil Savings Plan - Lone Willow Creek

To John Waterman

Message

- Soil Savings Plan.pdf (1 MB)
- Field A Slope.asc (100 KB)
- Field B Alternative 1 Soil Loss.asc (28 KB)
- Field C Alternative 1 Soil Loss.asc (52 KB)
- JimS_Lone_ssp_648760651cad413d8bfe386543075568.txt (37 KB)
- Field A Alternative 2 Soil Loss.asc (100 KB)
- Field B Slope.asc (28 KB)
- Field C Slope.asc (52 KB)
- Field A Alternative 1 Soil Loss.asc (100 KB)
- Field A Alternative 3 Soil Loss.asc (100 KB)
- Field B Alternative 2 Soil Loss.asc (29 KB)
- Field C Alternative 2 Soil Loss.asc (51 KB)

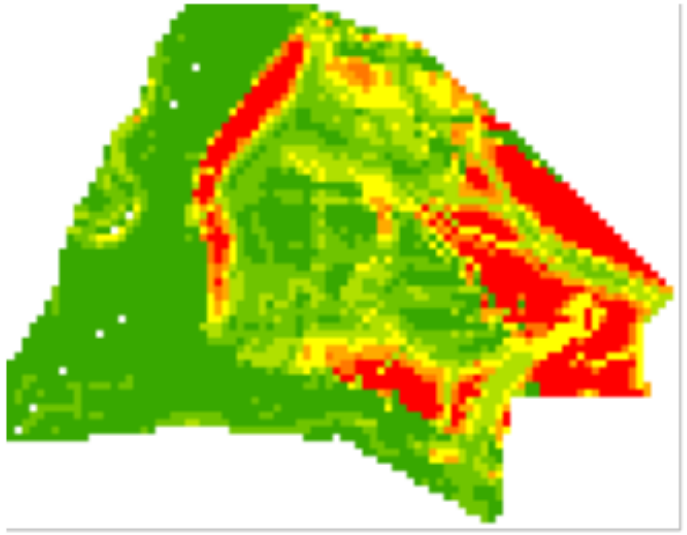
Attached is the Soil Savings Plan Report that was created based on the information that was submitted. If you have any questions, please contact Agren Support.

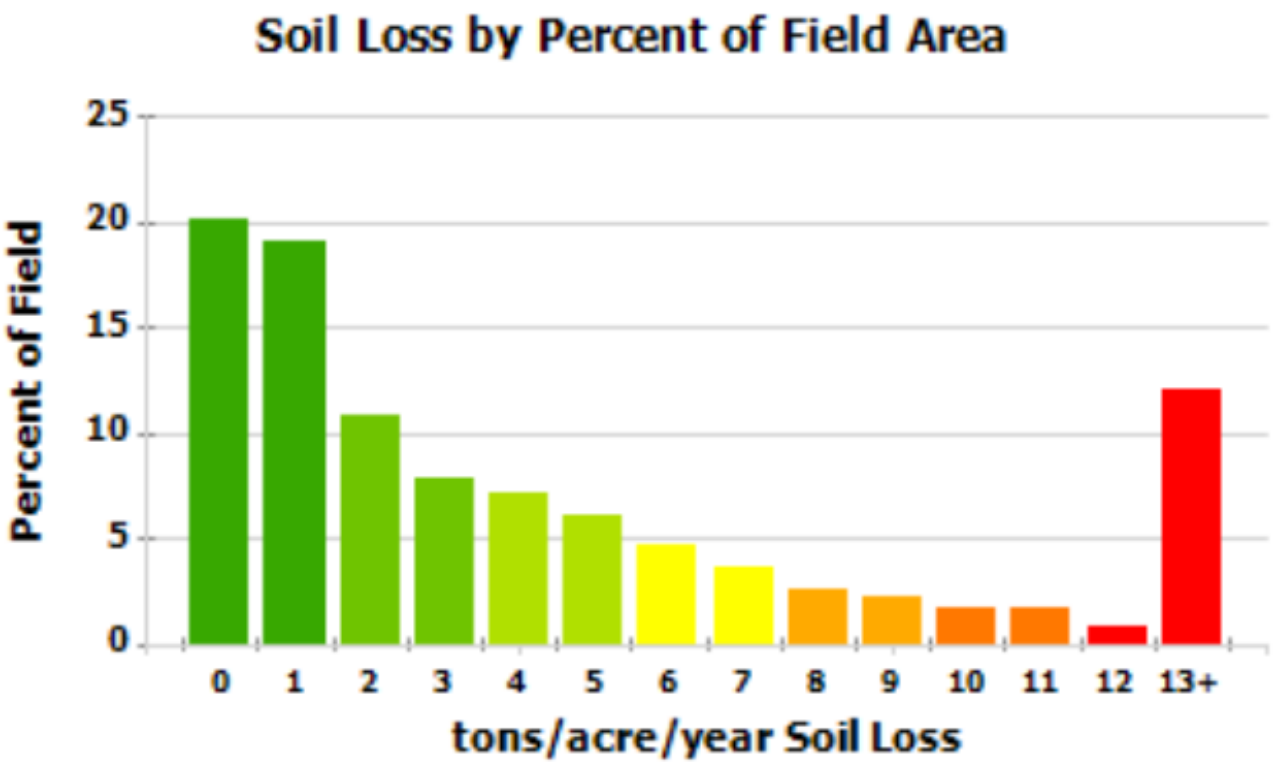
Preparer: Jim Smith (john@agreninc.com)
Session: 648760651cad413d8bfe386543075568

Calculated Soil Loss

Alternative 1

362.64 tons/yr annual soil loss





Alternative 2

362.64 tons/yr annual soil loss

Precision Conservation Blog

Precision Conservation is a blog by Tom Buman with the intent to discover, uncover, and promote new technologies in targeting, planning, and applying soil and water conservation at both field and watershed-level scales. Join Tom in a weekly discussion of how and why both private and public sector conservationists can and should aim to apply conservation practices in the right place, at the right time, and at the right scale. Tom is founder and CEO of the Iowa-based small-business Agren.

http://www.agrentools.com/blog/

Tom Buman, CEO

Power to the People

April 22, 2015 by Tom Buman — 4 Comments

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