GIS Map Viewer

User Tutorial

Questions not answered in this document? Please contact us at rma.pm.gissupport@rma.usda.gov
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Introduction

- This tutorial provides general guidance on the features of the Farm Bill GIS Map Viewer application.

- After completing this tutorial, you will be able to:
  - Toggle between base map views
  - Select a specific Farm Bill program and read the description
  - Create a map based on your selection criteria
  - Understand your map with legend assistance
  - Print displayed maps
  - Export the data table into a spreadsheet
Map Viewer Disclaimer

When the RMA GIS Map Viewer website opens, a disclaimer appears, informing the user of important information regarding the displayed maps.

Click the OK button to access the application.
Base Map Toggle

The base map view has a toggle to display a hybrid view or a topographic view. Click the icon to change the base map view.
The top of the Map Viewer displays tabs with each available Farm Bill product, showing program availability and details. Click the product tab to get more information on the specific program.

- The SCO/STAX tab shows users if the SCO/STAX program is available for their commodity, irrigation practice, state, and county combinations.
- The APH Yield Exclusion tab shows users where the program is available and how many years of yield is excluded by irrigation practice, state, and county.
- The Commodity Programs tab informs users of the County Commodity Programs’ availability by year, commodity (crop), state, county, and insurance plan.
- The Livestock Programs tab informs users of the availability of the Livestock Gross Margin and Livestock Risk Protection insurance plans by year, commodity, and state.
- The Dates Programs tab informs users of the RMA insurance program date choices for sales closing, planting, reporting, and filing dates, per commodity, insurance plan, type, and practice.
Click the SCO/STAX tab to create maps that show if the SCO/STAX program is available for your commodity, irrigation practice, state, and county combinations.

This section includes instructions for:

- **Program Description**
- **Create Map**
- **Legend**

Instructions for **Print Setup** and **Export to Excel** are the same for all programs.
This section provides an overview about the Supplemental Coverage Option (SCO) and Stacked Income Protection Plan (STAX) programs.

It also includes a disclaimer regarding the map creation and program availability. Use the scroll bar to read the entire text.
Create Map – SCO/STAX

The Create Map section allows you to filter by commodity year, commodity, irrigation practice, state, and county.

You can also view a data table instead of the default map view. For criteria at the state level, the national map is displayed and the National Data Table button is activated. When a county is selected, the county map appears and the County Data Table button is available.

The criteria for commodity year, commodity, and irrigation practice remain selected if you change the state and county.
Create Map – SCO/STAX

The map defaults to a national view of the United States. After you select Commodity Year, Commodity and Irrigation Practice, the map updates to show the counties within the United States that offer the SCO/STAX coverage for the selected criteria highlighted in green.
Create Map – SCO/STAX

After you select the specific state of interest, the map zooms into the state, showing the specific counties highlighted in that state (and surrounding states) that offer the SCO/STAX coverage for the selected criteria. When the national or state map is selected, the National Data Table button is available.
Create Map – SCO/STAX

After you select the specific county of interest, the map zooms into the specific county, showing availability of the SCO/STAX coverage for the selected criteria.

At times, the county selected is part of a county group that offers the coverage based on group experience. This displays on the map with all counties associated in the group highlighted in green, with a red border around the selected county.
Create Map – SCO/STAX

In some instances, when viewing at a county level, the specified irrigation practice is grouped in with another irrigation practice for eligibility. When this happens, a disclaimer displays under the county selected saying, “**Coverage based on Non-Irrigated Practice.” The practice listed would not be the selected irrigation practice.

The map shows the county highlighted in green, which indicates that SCO Coverage is available.
Create Map – STAX (Cotton)

When Cotton is the commodity chosen, the SCO/STAX statement appears on the Legend, Program Description, and Create Maps functions.

The STAX program is available only for Cotton. When any other commodity is chosen, the SCO statement appears on the Legend, Program Description, and Create Map functions.
Create Map – SCO/STAX – Table View

To see the results of the selected filters in a table, click **National Data Table**. This displays the results in a table. The button changes to **View Map** to return to the results in a map view. You can also export the data into an Excel spreadsheet.

![Table View](image)

### National Data Table

- **Select Commodity Year**: 2016
- **Select Commodity**: Barley
- **Select Irrigation**: Irrigated
- **Select State**: (Select)
- **Select County**: (Select)

### Export to Excel

**Irrigated Barley Supplemental Coverage Option (SCO) National Availability**

This map represents counties where SCO is available for the listed commodity and practice.
Legend – SCO/STAX Availability

The *Legend* shows any map-specific details to define the meaning of specialized markings.

The legend at the state-level map shows counties coded in a dark green when the selected commodity availability is based on Irrigated practice.

The legend shows available counties shaded in a lighter green when the selected commodity availability is based on Non-Irrigated practice.
Legend – SCO/STAX

For SCO/STAX, the items that appear on the legend are the *County of Interest* and the *Production Area*.

*County of Interest* is used only when a specific county has been selected. This marking shows the specific county on the map.

*Production Area* shows all counties in the specified view that are eligible for the SCO/STAX endorsement.
Click the *APH Yield Exclusion* tab to create maps showing where the program is available and to see how many years of yield are excluded by irrigation practice, state, and county.

This section includes instructions for:

- **Program Description**
- **Create Map**
- **Legend – APH Yield Exclusion**
- **Legend – APH Availability**

Instructions for *Print Setup* and *Export to Excel* are the same for all programs.
This section provides an overview about the APH Yield Exclusion program. It also includes a disclaimer regarding the map creation and program availability. Use the scroll bar to read the entire text.
Create Map - APH Yield Exclusion

The *Create Map* section allows you to filter by Commodity Year, Commodity, Irrigation Practice, State, and County.

You can also view a data table instead of the default map view.

The criteria for commodity year, commodity, and irrigation practice remain selected if you change the state and county.
The map defaults to a national view of the United States. After you select *Commodity Year*, *Commodity*, and *Irrigation* practice, the map updates to show each county in the United States, color-coded based on how many years each county has been eligible to be excluded.
Create Map - APH Yield Exclusion

After you select the specific state of interest, the screen centers the state on the national map. The counties in the selected state and surrounding states are color-coded based on how many years each county has been available to be excluded, reflecting the selected criteria.

Clicking the **National Data Table** button displays a grid listing all states and counties with the number of years excluded (not shown).
Create Map - APH Yield Exclusion

At the state-level map, you can hover the cursor over a county of interest and view a pop-up window showing:

- County Name
- Total Years Excluded
- Primary Years (number of years the county itself had eligibility)
- Contiguous Years (number of years the county is eligible based on surrounding county experience)
- Years Excluded
Create Map - APH Yield Exclusion

After you select the specific county of interest, the map zooms into the specific county.

The **County Data Table** button becomes available.

The county remains highlighted based on how many years eligible for exclusion.
Create Map - APH Yield Exclusion

At the county-level map, you can hover the cursor over the county and view a pop-up window showing:

- County Name
- Total Years Excluded
- Primary Years (number of years the county itself had eligibility)
- Contiguous Years (number of years the county is eligible based on surrounding county experience)
- Years Excluded
Create Map – APH Yield Exclusion– Table View

To see the results of the selected filters in a table view, click **County Data Table**. This displays the results in a table view. You can export the data from the table into an Excel spreadsheet.

The button then changes to **View Map**, to return to the results in a map view.

<table>
<thead>
<tr>
<th>Commodity Year</th>
<th>State Name</th>
<th>County Name</th>
<th>Commodity Name</th>
<th>Irrigation Practice</th>
<th>Number of Excluded Years</th>
<th>Primary Years</th>
<th>Contiguous Years</th>
<th>Years Excluded</th>
</tr>
</thead>
</table>
Legend - APH Yield Exclusion

The legend shows any map-specific details to define the meaning of specialized markings.

For APH Yield Exclusion, the items that appear on the map show buckets:

- Zero Years Excluded
- One Year Excluded
- 2-4 Years Excluded
- 5-7 Years Excluded
- 8-10 Years Excluded
- 11-15 Years Excluded
Click the *Commodity Programs* tab to create maps informing users of the program availability by year, commodity (crop), state, county, and insurance plan. This section includes instructions for:

- **Program Description**
- **Create Map**
- **Legend**

Instructions for [Print Setup](#) and [Export to Excel](#) are the same for all programs.
Program Description – Commodity Programs

This Program Description provides an overview about the Commodity Programs.

It also includes a disclaimer regarding the map creation and program availability.

Additionally, it provides a link to the Actuarial Information Browser (AIB) where you can find more details.
Create Map – Commodity Programs

The *Create Map* section allows you to filter by Commodity Year, Commodity, State, and County.

You can also view a data table instead of the default map view.

The criteria for commodity year and commodity remain selected if you change the state and county.
Create Map – Commodity Programs

The map defaults to a national view of the United States. After you select Commodity Year and Commodity, the screen displays the national availability of the program.
Create Map – Commodity Programs – National Data Table

To see the results of the selected filters in a table, click National Data Table. This displays the results in a table. You can also export the data into an Excel spreadsheet. The button changes to View Map to return to the results in a map view.

<table>
<thead>
<tr>
<th>Commodity Year</th>
<th>State Name</th>
<th>County Name</th>
<th>Commodity Name</th>
<th>Insurance Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Woodson</td>
<td>Wheat</td>
<td>Revenue Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Revenue Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Supp Cov Opt - Yield Prot</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Area Yield Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Area Revenue Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Area Revenue Protection - Harvest Price Exclusion</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Yield Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Supp Cov Opt - Rev Prot</td>
</tr>
<tr>
<td>2015</td>
<td>Kansas</td>
<td>Wyandotte</td>
<td>Wheat</td>
<td>Revenue Prot with Harvest Price Exclusion</td>
</tr>
<tr>
<td>2015</td>
<td>Washington</td>
<td>Adams</td>
<td>Wheat</td>
<td>Revenue Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Washington</td>
<td>Adams</td>
<td>Wheat</td>
<td>Revenue Prot with Harvest Price Exclusion</td>
</tr>
<tr>
<td>2015</td>
<td>Washington</td>
<td>Adams</td>
<td>Wheat</td>
<td>Yield Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Washington</td>
<td>Asotin</td>
<td>Wheat</td>
<td>Revenue Protection</td>
</tr>
<tr>
<td>2015</td>
<td>Washington</td>
<td>Asotin</td>
<td>Wheat</td>
<td>Revenue Prot with Harvest Price Exclusion</td>
</tr>
<tr>
<td>2015</td>
<td>Washington</td>
<td>Benton</td>
<td>Wheat</td>
<td>Yield Protection</td>
</tr>
</tbody>
</table>
After you select the specific state of interest, the map zooms into the state, showing the specific counties highlighted in that state that offer the Commodity Program coverage for the selected criteria.
Create Map – Commodity Programs

At the state-level map, you can hover the cursor over a county of interest and view a pop-up window showing:

- Commodity Name for County Name, State Name
- Plans: A list of the Insurance Plans available for that commodity in that county and state.
When the county-level map is displayed, the **County Data Table** button becomes available. Clicking the button displays the results in a table view. You can export the data from the table into an Excel spreadsheet.

The button then changes to **View Map**, to return to the results in a map view.
Legend – Commodity Programs

The legend shows any map-specific details to define the meaning of specialized markings.

For Commodity Programs, the legend shows the National Availability or State Availability for the Program Counties for the selected commodity.
Click the *Livestock Programs* tab to create maps informing users of the availability of the Livestock Gross Margin and Livestock Risk Management insurance plans by year, commodity, and state.

This section includes instructions for:

- **Program Description**
- **Create Map**
- **Legend**

Instructions for [Print Setup](#) and [Export to Excel](#) are the same for all programs.
Program Description – Livestock Programs

This Program Description provides an overview about Livestock Programs. It also includes a disclaimer regarding the map creation and program availability.

Additionally, it provides a link to the Actuarial Information Browser (AIB) where you can find more details.

Disclaimer:

Data represented in this map viewer are updated periodically as RMA issues actuarial data. Actuarial data are issued prior to the contract change date for the given county/commodity program. In some cases, multiple contract change dates exist for a single commodity across the United States.

Maps viewed or printed for commodity programs with multiple contract change dates will display only those counties where the contract change date has been reached and actuarial data has been released.
Create Map – Livestock Programs

The map defaults to a national view of the United States. After you select *Commodity Year*, *Insurance Plan*, and *Commodity*, the map displays the national availability of the program.
Create Map – Livestock – National Data Table

To see the results of the selected filters in a table, click National Data Table. This displays the results in a table. You can also export the data into an Excel spreadsheet. The button changes to View Map to return to the results in a map view.

<table>
<thead>
<tr>
<th>Commodity Year</th>
<th>State Name</th>
<th>County Name</th>
<th>Commodity Name</th>
<th>Insurance Plan</th>
</tr>
</thead>
<tbody>
<tr>
<td>2016</td>
<td>Arizona</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>California</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Colorado</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Idaho</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Illinois</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Indiana</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Iowa</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Kansas</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Michigan</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Minnesota</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Missouri</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Montana</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Nebraska</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Nevada</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>New Mexico</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>North Dakota</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Ohio</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Oklahoma</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Oregon</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Pennsylvania</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>South Dakota</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Texas</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Utah</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Virginia</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Washington</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>West Virginia</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Wisconsin</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
<tr>
<td>2016</td>
<td>Wyoming</td>
<td>All Counties</td>
<td>Lamb</td>
<td>Livestock Risk Protection</td>
</tr>
</tbody>
</table>
Create Map – Livestock Programs

After you select the specific state of interest, the map zooms into the state, showing every county highlighted in green, since the Livestock Program coverage extends to All Counties for each state with the selected Insurance Plan.
Legend – Livestock Programs

The legend shows any map-specific details to define the meaning of specialized markings.

For Livestock Programs, the legend shows the National Availability or State Availability for the Program Counties for the selected commodity.
Program Description – Dates Program

This section provides an overview about the Dates Programs.

It also includes a disclaimer regarding the map creation and program availability. Use the scroll bar to read the entire text.
Create Map – Dates Program

The *Create Map* section allows you to filter by commodity year, commodity, insurance plan, type, practice, date type, state, and county.

You can also view a data table instead of the default map view. For criteria at the national level, the national map is displayed and the *National Data Table* button is activated. When a state is selected, the state map appears and the *State Data Table* button is available. When a county is selected, the county map appears and the *County Data Table* button is available.

The criteria for commodity year, commodity, insurance plan, type, practice, date type remain selected if you change the state and county.
Create Map – Dates Program

The map defaults to a national view of the United States. After you select *Commodity Year, Commodity, Insurance Plan, Type, Practice, Date Type*, the map updates to show the counties within the United States that offer the Dates Program coverage for the selected criteria color ramped by date.
Create Map – Dates Program

After you select the specific state of interest, the map zooms into the state, showing the specific counties highlighted in that state (and surrounding states) that offer Dates Program coverage for the selected criteria. When the national or state map is selected, the **National Data Table** button is available.
Create Map – Dates Program

After you select the specific county of interest, the map zooms into the specific county, showing availability of the Dates Program coverage for the selected criteria.

At times, the county selected is part of a county group that offers the coverage based on group experience. This displays on the map with all counties associated in the group highlighted in green, with a red border around the selected county.
Create Map – Dates Program

In some instances, counties may also contain sub-county regions such as here in Elsmore County, Idaho. These sub-county regions may have a different Dates Program associated with them and will have their own labels on the map.

The map shows the county and sub-subcounty color ramped by Dates Program available.
Create Map – Dates Program

In this example when Acreage Reporting Date is the date type chosen, the available date/dates appear on the Legend, Program Description, and Create Maps functions.

The Dates program is available only for Acreage Reporting type. When any other combination of commodity, insurance plan, type, and practice is chosen, the appropriate statement appears on the Legend, Program Description, and Create Map functions become active.
Create Map – Dates – Table View

To see the results of the selected filters in a table, click **County Data Table**. This displays the results in a table. The button changes to **View Map** to return to the results in a map view. You can also export the data into an Excel spreadsheet.

![County Data Table](image_url)
Legend – Dates Program

The Legend shows any map-specific dates and associated color hues to define the selected counties and sub-counties.

For the Dates Program, the items that appear on the legend are available Date Type values.

Date Type is available only when a specific county or sub-county is color coded or ramped by date.

Each Date Type shows all counties in the specified view that are eligible per commodity, insurance plan, type, and practice.
Print Setup

The *Print Setup* area gives you the ability to print the displayed map from any program tab. The dropdown menu allows you to choose Landscape or Portrait view, except for the National map, which has only the Landscape view.

After a print layout is selected, the screen shows a message, “Please wait while your PDF/JPG map is generated.”

If you receive a message saying, “Please disable your pop-up blocker and click the ‘Print’ link again, click the OK button and change the settings on your browser to allow pop-ups.”
Export to Excel

The *Export to Excel* functionality gives you the ability to send the data from the table view into a spreadsheet, where it can be sorted and filtered using Excel functions.

When you click the *Export to Excel* button, a message asks if you want to open or save the file.

This function is available from any program tab.
End of Tutorial

Questions?

Please contact us at
rma.pm.gissupport@rma.usda.gov