Rainfall Index Pasture, Rangeland and Forage

Rainfall Index (RI) Pasture, Rangeland, and Forage (PRF) Tools
August 2015
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How to get to the Web Based Tools

www.rma.usda.gov
Rainfall and Vegetation Indices

The Rainfall and Vegetation Index plans of insurance are designed as risk management tools to insure against declines in an index in a designated area called a grid. They are primarily intended for use by producers whose crop production tends to follow the average precipitation or vegetation patterns for the grid. It is possible for you to have low crop production on the acreage that you insure and still not receive a payment under these plans. Because the program is designed for producers whose crop production tends to follow average patterns and not individual crop production, you should review the historical indices, additional tools, and information provided to determine if these programs are suitable for your risk management needs.

Rainfall Index (RI)

Rainfall Index (RI) is based on weather data collected and maintained by NOAA’s Climate Prediction Center. The index reflects how much precipitation is received relative to the long-term average for a specified area and timeframe.

- Crops covered:
  - Annual Forage
  - Apiculture
  - Pasture, Rangeland, Forage (PRF)

Vegetation Index (VI)

Vegetation Index (VI) is based on the U.S. Geological Survey’s Earth Resources Observation and Science (EROS) normalized difference vegetation index (NDVI) data derived from satellites observing long-term changes in greenness of vegetation of the earth since 1989.

- Crops covered:
  - Apiculture
Pasture, Rangeland, Forage

Pasture, Rangeland, and forages cover approximately 55 percent of all U.S. land. Forage grows differently in different areas, so it's important for farmers and ranchers to know which types and techniques work best for their region. The following insurance program is available for Pasture, Rangeland, and Forage (PRF). Also see livestock policies or PRF NAP Table.

New

- USDA Encourages Farmers and Ranchers to Take Advantage of Safety Net Tools for Livestock Operations
- Pasture, Rangeland, Forage Pilot Insurance Program Fact Sheet
- Summary Overview of Rainfall Index Insurance plan for Pasture, Rangeland, and Forage
- Pasture, Rangeland, Forage FAQs
- Rainfall Index and Vegetation Index Pasture, Rangeland, and Forage General Program Overview
- Rainfall Index Pasture, Rangeland, and Forage Technology
- Rainfall Index and Vegetation Index Pasture, Rangeland, and Forage Shares
- Rainfall Index and Vegetation Index Pasture, Rangeland, and Forage Tools

Rainfall Index (RI) - is based on weather data collected and maintained by NOAA’s Climate Prediction Center. The index reflects how much precipitation is received relative to the long-term average for a specified area and timeframe.

- County Availability (PDF): Map | Text
- Basic Provisions (PDF)
- Policy Provisions (PDF)
- Insurance Standards Handbook (PDF) (Revised Apr 2013)
- Grid ID Locator, Decision Support Tool, Historical Indices

Net Hay Production Index was terminated beginning with the 2009 crop year. Archive
Grid Locator tool is used to find your Grid ID.
Use the Zoom to Grids feature to find your location.
Once you found your Grid ID click on the Historical Rainfall Indices link.
### Protection Information

**Intended Use:** Grazing

**Coverage Level (%):** Please Select

**Productivity Factor (%):** 100

**Insurable Interest (%):** 100

**Insured Acres:**

**Sample Year:** 2015

### Graph

**Type:**
- Index Values
- Estimated Indemnities

**Range:**
- Start: 1991
- End: 2015

**Intervals:**
- Jan-Feb
- Feb-Mar
- Mar-Apr
- Apr-May
- May-Jun
- Jun-Jul
- Jul-Aug
- Aug-Sep
- Sep-Oct
- Oct-Nov
- Nov-Dec

### Table

<table>
<thead>
<tr>
<th>Index Interval</th>
<th>Percent of Value (%)</th>
<th>Policy Protection per Unit</th>
<th>Premium Rate per $100</th>
<th>Total Premium</th>
<th>Premium Subsidy</th>
<th>Producer Premium</th>
<th>Actual Index Value</th>
<th>Indemnity</th>
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<tbody>
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<td>Apr-May</td>
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<td>Jun-Jul</td>
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</table>

### Instructions

- Click on table to get back to DST tools
- Enter all required information
- Select Percent of Value % for each interval you want to insure

Once you entered all required information, click the Calculate button.
### Protection Information

- **Intended Use:** Haying
- **Coverage Level (%):** 90
- **Productivity Factor (%):** 100
- **Insurable Interest (%):** 100
- **Insured Acres:** 1000
- **Sample Year:** 2013

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<table>
<thead>
<tr>
<th>Index Interval</th>
<th>Percent of Value (%)</th>
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<th>Producer Premium</th>
<th>Actual Index Value</th>
<th>Indemnity</th>
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<tr>
<td>Jan-Feb</td>
<td></td>
<td>$0</td>
<td>30.82</td>
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**Results from 2013**

- County Base Value: $180.46
- Dollar Amount of Protection: $162,414
- Total Insured Acres: 1,000
- Total Policy Protection: $162,414
- Subsidy Level: 51.0%
Historical Indices and Decision Support Tool

• Actuarial information will not change.
  – Actual Final Grid Index for past years.

• Tools are designed to be fluid and will change:
  – Updated annually; and
  – Final Grid Index values will reflect the change in average.