

Irrigated Wheat Producer Documentation Tool

1) Do you have adequate water in the planting zone for germination of winter wheat?

| | |
|--|------------------------|
| | Yes, go to question 2. |
| | No, go to question 3. |

2) Do you have 2 feet of stored soil water at or near field capacity?

| | |
|--|--|
| | Yes, adequate moisture for irrigated winter wheat with no fall irrigation. |
| | No, go to question 3. |

3) Do you have access to fall irrigation water?

| | |
|--|---|
| | Yes, go to question 4. |
| | No, can not insure as irrigated winter wheat. |

4) Calculate irrigated acres

| | | |
|---|--------|---|
| 1.2 | inches | Average precipitation from planting to dormancy |
| <i>Average precipitation during the growing season (values must be taken from the monthly average precipitation table, the High Plains Regional Climate Center see link below) or another certified collecting agency. Please document the source used. (1)</i> | | |

| | | |
|-----|--------|---|
| 2.2 | inches | Amount of water needed to refill 2 feet of soil (inches)? (2) |
|-----|--------|---|

| | | |
|------|--------|--|
| 1.48 | inches | Net irrigation amount needed to meet needs. Precipitation storage efficiency is @ 60%. |
|------|--------|--|

| | | |
|----|-----------|--|
| 40 | acre-feet | Amount of water available for fall irrigation (acre-feet)? |
|----|-----------|--|

| | | |
|----|---|---------------------------|
| 30 | % | Irrigation efficiency (%) |
|----|---|---------------------------|

| | | |
|----|-------|--|
| 97 | acres | Potential Irrigated Acres with fall irrigation |
|----|-------|--|

If a producer has a better understanding of what an average gross irrigation is to apply water across the field you can utilize that amount below. With furrow irrigation, irrigation efficiency will be lower to apply small amounts of water

| | | |
|---|--------|------------------|
| 6 | inches | Gross Irrigation |
|---|--------|------------------|

| | | |
|----|-------|--|
| 80 | acres | Potential Irrigated Acres with fall irrigation |
|----|-------|--|

(1) http://www.hprcc.unl.edu/data/historical/index.php?state=co&action=select_state&submit=Select+State

(2) Based upon work by Dean Yonts of Nebraska www.ianrpubs.unl.edu/live/ec731/build/ec731.pdf

The producer documentation tool is a suggested method for producers to document the number of acres in which their expected irrigation supply will support planting wheat in the fall.

Use of this documentation tool is strictly voluntary. Producers may work individually with their insurance provider to document their planting decisions. This tool is not all-inclusive. Additional calculations will be necessary for determining the actual number of acres eligible for reporting as an irrigated practice and those eligible for prevented planting based on the producers individual situation. This tool is not intended to replace any other documents required to be completed for insurance eligibility and payment determinations. As such, acceptance of any information included in the tool is subject to verification and approval by the insurance provider.

This tool was developed by Colorado State University Cooperative Extension as a documentation aid for producers when assessing available irrigation water and making planting decisions. Colorado State University and the USDA do not control nor guarantee the accuracy, relevance, timeliness, or completeness of this information.

If you have questions, please contact: USDA-RMA-Topeka Regional Office, Telephone: 785-228-5512.