RED CLOVER COVER CROP FACT SHEET FOR IOWA

Red Clover (Trifolium pratense) is an easy to establish cool-season/winter annual legume that provides an excellent nitrogen source to the soil. Many lowa farmers use red clover in a mix for livestock grazing.



Identifying Features

- » Large, elongated leaflets with inverted, V-shaped variegation. Three leaflets per leaf.
- Densely pubescent »
- Palmately trifoliate »

Cultural Traits

- Cool-season/winter annual legume »
- Minimum germination soil temperature: 42° F »
- Cold temperature tolerance: -30° F »
- Seeding date: Early August to Mid September* (W)*** »
- Seeding date: Early April to Mid May* (S)*** »

Planting Information*

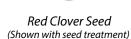
- Drill at 1/4 1/2 inch (8 lbs./acre PLS**) »
- Broadcast (10 lbs./acre PLS) »
- Aerial (12 lbs./acre PLS) »

***W=Winter Red Clover S=Spring Red Clover

Additional planting information:

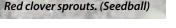
» ~270,000 seeds/lb.

- Increase seeding rate if » using for forage/grazing.
- » Red clover may be frostseeded.
- Planting in a mixture can enhance » performance as a cover crop.
- » When interseeding, time seeding to match appropriate crop growth/ maturity.
- If growing for nitrogen production, » consider using inoculation.









Cattle graze a mix that includes red clover in southeast lowa.

C:N (Carbon:Nitrogen) Ratio

» Red Clover 14:1

^{*} Planting information from Midwest Cover Crop Council (midwestcovercrops.org). Refer to local NRCS office recommendations (Iowa Field Office Technical Guide, Section 4, 340 Cover Crop) for seeding dates and rates pertinent to location specific financial assistance program requirements. **Pure Live Seed

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Dry matter = 2,000 - 5,000 lbs./acre per year (Biomass quantity is dependent on planting and termination dates and precipitation.)

Good

Good

Very good

Very good

Excellent

Good

Good Very good

Good

Good

Good

Good

Good

Fair

Performance Ratings

- » Cash crop interseed (early vegetative)
- » Cash crop overseed (late seed fill)
- » Grazing quality
- » Mechanical forage harvest
- » Nitrogen fixer
- » Nitrogen scavenger
- » Weed suppression
- » Compaction fighter
- » Erosion control
- » Lasting residue
- » Quick grower
- » Drought tolerance
- » Low fertility tolerance
- » Shade tolerance

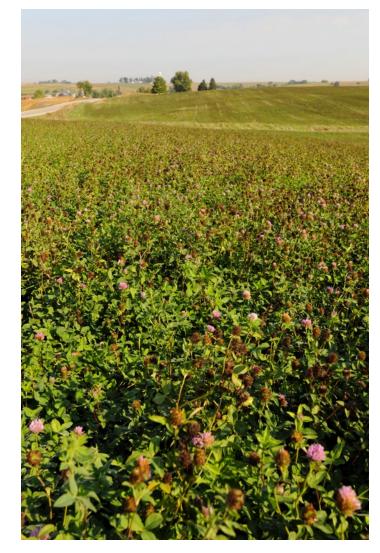
Additional Considerations

- » May cause bloat when grazed.
- » Grows best where corn grows well.
- » A poor host for soybean cyst nematode.
- » Extensive root system permeates the soil. Taproot may penetrate several feet.
- » Excellent pollinator if allowed to flower in the spring.
- » To produce measurable nitrogen for a cash crop, allow red clover to grow until at least mid-May.



Wheat with red clover in an lowa cover crop mix.

Red Clover Field in Iowa



This fact sheet is a collaborative effort of USDA's Natural Resources Conservation Service (NRCS) and Iowa State University Extension and Outreach to provide cover crop options and information for Iowa landowners.