BUCKWHEAT COVER CROP FACT SHEET FOR IOWA

Buckwheat (Fagopyrum esculentum) is a summer annual broadleaf that establishes and matures quickly, helping to suppress weeds and fight soil compaction. Buckwheat attracts beneficial insects and pollinators.



Identifying Features

- Coarse, branched stems »
- Large, broadly arrow-shaped leaves »
- Alternate leaves »
- Leaf veins may be a reddish color »

Cultural Traits

- » Summer annual broadleaf
- Minimum germination soil temperature: 50° F »
- Cold temperature tolerance: 32° F »
- Seeding date: Mid May to Early September* »

Planting Information

- Drill at 1/2 1 inch (45 lbs./acre PLS**)
- Broadcast (50 lbs./acre PLS) »
- Aerial is not recommended »

Additional planting information:

» ~20,000 seeds/lb.

- ներիներիներին » Broadcasting without incorporation is usually less dependable than drilling or broadcasting with incorporation.
- When interseeding, time seeding to match the appropriate crop growth/ maturity.

Buckwheat Seed





Buckwheat seedling

Buckwheat leaves



Buckwheat sprouting up in a field.

C:N (Carbon:Nitrogen) Ratios

» Buckwheat

8:1 to 32:1



^{*} Planting information from Midwest Cover Crop Council (midwestcovercrops.org). Refer to local NRCS office recommendations (lowa 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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Performance

Dry matter = 500 - 2,500 lbs./acre per year (Biomass quantity is dependent on planting and termination dates and precipitation.)

Performance Ratings

- » Cash crop interseed (early vegetative)
- Cash crop overseed (late seed fill) Poor »

Poor

Good

Good

Fair

Fair

Good

Poor

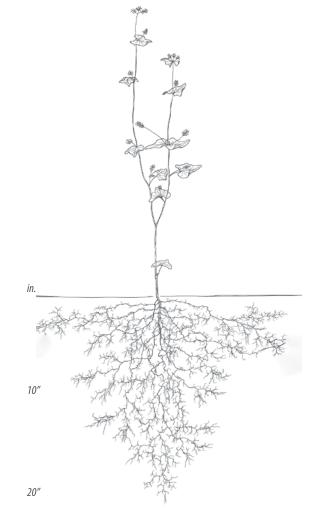
Very good

- » Grazing quality Fair
- » Mechanical forage harvest
- Fair » Nitrogen fixer N/A
- » Nitrogen scavenger
- » Weed suppression
- » Compaction fighter
- » Erosion control
- » Lasting residue Poor
- » Quick grower Very good
- » Drought tolerance
- Low fertility tolerance »
- Shade tolerance »

Additional Considerations

- Buckwheat is highly attractive to Japanese beetles. »
- » Susceptible to white mold; sensitive to frost; does not germinate in cold soil; sensitive to herbicides.
- » Buckwheat goes to seed quickly; termination timing should be considered.

Buckwheat Plant and Root Structure



Drawing provided by Conservation Cropping Systems Initiative (ccsin.org)

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.