OHIO COVER CROP FACT SHEET

Grasses

Triticale AS A COVER CROP IN OHIO



Triticum x Secale

Identification Information

- Resembles wheat and winter cereal rye
- Plant looks like wheat, but the awns resemble cereal rye.
- Membranous ligules

Cultural Traits

- Winter annual
- Minimum germination temperature: 38°F
- Reliable establishment window (state average): Aug. 15–Nov. 1
- Upright growth habit: 3–5 feet
- Preferred soil pH: 6.0–7.0

Heat tolerance:	Good
Drought tolerance:	Good
Shade tolerance:	Good
Flood tolerance:	Good
Low fertility tolerance:	Very good
Winter auguinal. Expected for	n winter triticale

Winter survival: Expected for winter triticale Spring triticale is cold tolerant but not winter hardy.



THE OHIO STATE UNIVERSITY

This fact sheet summarizes information specific to Ohio that is available from the Midwest Cover Crops Council. For more information, see the *Midwest Cover Crops Field Guide, Third Edition,* and the Cover Crop Selector Tool found at: **midwestcovercrops.org/selector-tool**/

Individuals participating in financial assistance programs are required to follow NRCS Appendix A regarding seeding rates and dates. Failure to do so will jeopardize payments. Appendix A can be found in Ohio's Field Office Technical Guide, Section 4, Ecological Sciences Tools: <u>https://efotg.sc.egov.usda.gov/#/state/OH/documents/</u> <u>section=4&folder=-6</u>

Planting Information

- Drilled at ³/₄-1¹/₂ inches
 40-90 lbs./acre (pure live seed)
- Broadcast with shallow incorporation
 45–90 lbs./acre (pure live seed)
- Broadcast without incorporation
 50–90 lbs./acre (pure live seed)

Additional planting information:

- 13,000 seeds/lb.
- When planting on slopes or using for forage/grazing, increase seeding rate.
- When interseeding, time seeding to match appropriate crop growth/maturity.
- Broadcasting without incorporation is usually less dependable than drilling or broadcasting with incorporation.

Performance

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

Nitrogen scavenger:	Very good
Soil builder:	Very good
Erosion fighter:	Excellent
Weed fighter:	Very good
Grazing:	Excellent
Quick growth:	Very good
Lasting residue:	Very good
Mechanical forage harvest:	Excellent
Grain seed harvest:	Very good
Cash crop interseed:	Good



Termination Information

- Tillage
 - If terminating with only tillage, multiple passes are often required.
 - Triticale may be difficult to terminate with tillage.
- Roller crimper
 - Roller crimping is the most difficult/variable termination method.
 - Crimp during reproductive stage (full bloom).
- Chemical

Additional performance information:

- The high seed cost of triticale typically restricts its use to forage.
- Triticale has good biomass production and rooting capability.
- Residue presence could increase risk of spring cutworm and potato stem borer.
- Triticale is a host for penetrans root lesion nematode, but it is a non-host for sugarbeet cyst nematode, soybean cyst nematode, and root knot nematode.
- Triticale may reduce sclerotinia risk.

Potential Advantages

SOIL IMPACTS

Subsoiler:	Good
Frees P and K:	Very good
Compaction fighter:	Good
Disease:	Good
Allelopathic:	Very good
Chokes weeds:	Very good
 Cool-season cereals a of the best weed-sup 	are some pressing

OTHER

cover crops.

Bears traffic:	Good when drilled
Short windows:	Very good

Additional termination information:

- It is best to terminate when plants are small *except* when rolling/crimping.
- Mowing after heading may terminate.
- Adjust termination dates based on soil moisture.
- Terminate at least two weeks before planting corn.
- Triticale can become a weed if not completely terminated.
- Follow NRCS guidelines for cover crop termination dates for crop insurance compliance.

Potential Disadvantages

Increased weed potential: Occasionally a minor problem

Increased insects/nematodes: Could be a moderate problem

Increased crop diseases: Could be a minor problem

Hinders crops: Could be a minor problem

Mature incorporation challenges: Could be a moderate problem

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(Note: This publication was adapted with consent from MCCC with content from the Midwest Cover Crops Field Guide, Third Edition, and Cover Crop Selector Tool: midwestcovercrops.org/selector-tool/.)

The Midwest Cover Crops Council (www.midwestcovercrops.org) aims to facilitate widespread adoption of cover crops throughout the Midwest by providing educational/outreach resources and programs, conducting new research, and communicating about cover crops to the public.

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