

# MADONNA

WESTERWOLD  
TYPE

## TETRAPLOID ANNUAL RYEGRASS

*L. multiflorum* Lam. var *westerwoldicum*

MADONNA 4N Westerwold ryegrass was developed in the U.S.A. and tested under the experimental designation PPG LWT-104. A true annual, MADONNA produces high forage and seed yield, crown rust resistance, and excellent palatability with 'soft leaf' and high sugar and starch content.

### Use & Adaptation:

- Green chop, grazing, winter overseeding, cover crop
- **Does not require vernalization to induce flowering.**
- Plant in early autumn in warm season/sub-tropic zones.
  - Utilization in as little as 6 weeks.
- Spring plant in temperate zones.
- Superior quality and tonnage in rotational grazing systems.
  - Equine, dairy, lamb, beef.
  - Begin grazing at 8-10" height, and rotate animals out before pasture has been grazed down to 3".
- Excellent hay & green-chop production.
  - Harvest hay at boot to early head stage.
  - Green Chop at 3" when plants are 8-10" in height.
- Excellent for inter-seeding into existing pastures to boost stand productivity.
- Tolerates heat.
  - Available soil moisture will limit productivity in arid regions and during periods of drought stress.
- Superior ease of establishment.
- Valuable Cover Crop.
  - Improves tilth, adds biomass, breaks hard pan.
  - Sequesters Nitrogen & Phosphorous.
  - Prevents soil erosion & nutrient runoff.

### Agronomic Traits:

- Crown rust resistance
- Medium-late maturity.
- Highly palatable- high sugar/soft leaves.
- High leaf : stem ratio.
- No Endophyte.
- Excellent seeding success.
- High yield.
- Upright growth habit.
- Responds rapidly to N fertilization.
  - *Forage analysis is recommended prior to feeding of high N fertility Ryegrass.*
- Does not require vernalization to induce flowering.
- Soil pH range 5.5 – 7.5.
- 3-6 Tons DM yield potential.
- Excellent re-growth
  - Seeding rates:
    - 15-22 Lbs/A drilled
    - 30-40 Lbs/A broadcast

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