



Corvallis Teff

Corvallis is a medium maturing teff variety well suited to hay production or grazing in the hot summer months. It has been tested in several locations across the US and has done quite well from Oregon to New York and into Kentucky as well. Corvallis is a warm season annual grass with an appearance similar to orchardgrass. It has a finer texture and better density than other warm season annuals such as sorghum-sudan hybrids. It also dries down much quicker, which is a huge benefit for hay production. Corvallis is great for horse feed as well.



Teff hay sample

Teff is a self-pollinated, warm season annual grass which can be harvested multiple times during the growing season as dry hay, silage or pasture. As a fast-growing crop, teff combines excellent forage quality with high yield during a relatively short growing season.

Seed Bed Preparation

Teff seed is extremely small, and proper seed bed preparation can't be stressed enough when it comes to planting any teff, including Corvallis.

Dr. Bruce Anderson (University of Nebraska) illustrates this point to his teff growers by saying that the seed bed must be firm enough to bounce a basketball on it. Other researchers compare the proper seed bed to that needed to plant alfalfa. Another method of gauging the correct firmness is if you can walk across the field without sinking below the soles of your shoes. Seed bed firmness is especially important if grain drills are used to plant the teff and cultipacking before and after planting is highly recommended. Brillion planters are also useful in conditioning the fields and are the preferred planter for teff. Planting teff in a firm seed bed helps in proper seed to soil contact and reduces the chance of burying the seed too deep with loose soil. It also provides good seed to soil contact, allowing for better soil moisture movement to the seed. Teff plantings in loose seed beds can often be identified by quicker seedling emergence in the wheel tracks of the planter than in the rest of the field.

Planting teff seed too early in cold soils, too deep, or in soil that is too fluffy can all lead to establishment failures.

At A Glance

- Medium maturity
- Good disease resistance
- High yield potential
- Excellent forage quality—similar to timothy
- Excellent horse hay
- Can be harvested multiple times for hay or silage
- Very heat tolerant, high summer survivability
- Good performance in both wetter and droughty conditions

Best Uses

Dry Hay, haylage/baleage

Establishment

Plant after soils are 65 degrees and rising

Seeding rate: 4-6 lbs/A.
Brillion seeder recommended.

Depth: 1/8" - 1/4" on a well-prepared, firm seed-bed

Ideal pH range: 5.5-7.5



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Table 14. Dry matter yields, stand rating and maturity of teff varieties sown May 21, 2014 at Lexington, Kentucky.

| Variety ² | Percent Stand Jun 17 | Maturity ¹ | | Yield (tons/acre) | | | | |
|--|----------------------|-----------------------|-------|-------------------|-------|--------|--------|-------|
| | | Jul 8 | Aug 4 | Jul 8 | Aug 4 | Aug 29 | Oct 13 | Total |
| Commercial Varieties—Available for Farm Use | | | | | | | | |
| Summer Delight | 100 | 55.5 | 54.0 | 1.63 | 1.01 | 1.78 | 0.93 | 5.34* |
| Corvalis | 100 | 52.3 | 52.5 | 1.27 | 1.05 | 1.64 | 0.98 | 4.95* |
| Witkope | 96 | 56.0 | 59.0 | 1.09 | 1.09 | 1.68 | 0.94 | 4.81* |
| VA-T1Brown | 100 | 55.5 | 52.0 | 1.15 | 1.09 | 1.70 | 0.76 | 4.70* |
| Tiffany | 98 | 54.0 | 53.0 | 1.23 | 1.17 | 1.55 | 0.73 | 4.69* |
| Highveld | 89 | 50.5 | 54.5 | 0.89 | 1.11 | 1.74 | 0.85 | 4.59* |
| Dessie | 95 | 54.0 | 56.0 | 0.97 | 1.18 | 1.39 | 1.00 | 4.55* |
| Moxie | 100 | 52.8 | 54.0 | 1.28 | 1.11 | 1.40 | 0.53 | 4.33* |
| Velvet | 100 | 56.0 | 54.0 | 0.78 | 0.91 | 1.60 | 1.00 | 4.29* |
| Pharaoh | 97 | 51.7 | 51.5 | 1.09 | 0.91 | 1.42 | 0.75 | 4.18* |
| Rooiberg | 98 | 54.5 | 59.0 | 0.66 | 1.05 | 1.44 | 0.82 | 3.97* |
| HorseCandi | 98 | 54.5 | 53.0 | 0.78 | 0.89 | 1.30 | 0.61 | 3.58 |
| Experimental Varieties | | | | | | | | |
| F11 | 99 | 50.5 | 53.5 | 0.97 | 0.89 | 1.30 | 0.87 | 4.04* |
| Mean | 98 | 53.7 | 54.3 | 1.06 | 1.04 | 1.54 | 0.83 | 4.47 |
| CV,% | 6 | 6.8 | 4.3 | 44.66 | 16.00 | 23.91 | 38.16 | 20.95 |
| LSD,0.05 | 8 | 5.5 | 3.4 | 0.70 | 0.24 | 0.54 | 0.46 | 1.38 |

¹ Maturity rating scale: 37 = flag leaf emergence, 45 = boot swollen, 50 = beginning of inflorescence emergence, 58 = complete emergence of inflorescence, 62 = beginning of pollen shed. See Table 2 for complete scale.

² Check with local dealer for available varieties.

*Not significantly different from the highest numerical value in the column, based on the 0.05 LSD. Nitrogen application: 50 lb/A of actual nitrogen on May 27 and July 11.



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