

ForageMonster 30

Canadian Forage Sudan Hybrid (CFSH30) | **Sudan x Sudan** | **Multi-Cut Variety**

- Ideal for forage or silage
- Superior nutrition feed for dairy, beef, sheep, hogs, and goat
- Hyper-growth with first cut as early as 35 to 40 days
- Highly tolerant to drought and alkaline/saline soils

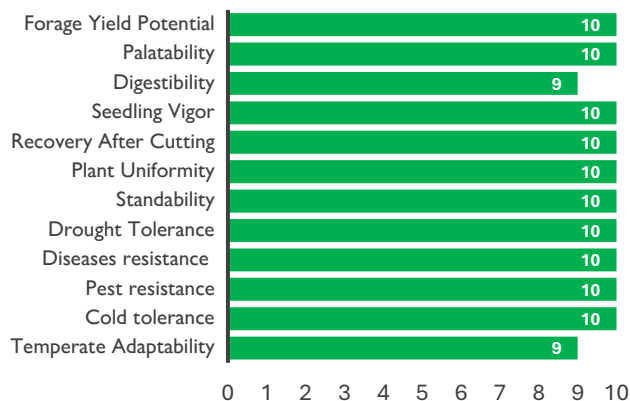
SNAPSHOT

Name (ID) ForageMonster 30 (CFSH30)

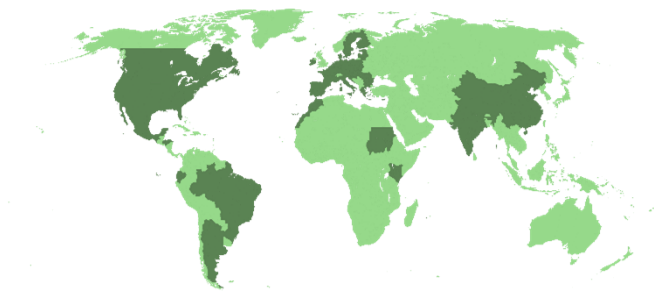
Type Sudan x Sudan (Multi-cut, Red Grain)

Development Period 12 years

Initial Release 2001



AREAS OF ADAPTATION



CFSH30 has been extensively tested in North America, South America, Europe, Africa, and Asia including Brazil, Argentina, China, India, Netherlands, Sudan, and others.

CROP USE

Rotational Crop	10
Underseeding	10
Continuous Grazing	9
Hay/Hailage/Pasture	9

ForageMonster 30 is the world's first and only temperate-climate adapted Sudan x Sudan hybrid. A high-yielding multi-cut variety, it is suitable for both silage and forage production, engineered to deliver high-performance in both biomass production and nutritive value in a variety of climates. This hybrid stands out for its rapid growth and establishment, allowing for multiple harvests (seeing as many as 2 to 3 cuttings in North America and 3 to 5 cuttings in Asia, Africa, and European Countries) within a single growing season.

FIELD POSITIONING

Tough Dryland	HS
High Yield Dryland	HS
Limited Irrigation	HS
Full Irrigation	S
Early Planting/Cold Soils*	S
No-Till	HS
Poorly Drained Soils	HS
Anthraxnose Prone Area	HS
Fusarium Prone Area	HS

Observed Suitability and Field-by-Field Positioning

HS = Highly Suitable **S** = Suitable **MA** = Manage Appropriately **X** = Poor Suitability

*Soil temperature should be at least 12° Celsius

CHARACTERISTICS AND RATINGS

- **Plant Height** (Main Stem) 90 to 110 cm
- **Maturity** 35 to 45 days
- **Number of Leaves** 9 to 12
- **Leaf Length** 60 to 80 cm
- **Leaf Width** 5 to 7 cm
- **Leaf Color** Leaf mid-rib, color green
- **Stalk Width** 0.5 to 2 cm
- **Number of Tillers** 3 to 6
- **Brix Rate** 4.5 to 5%
- **1000 Seed Weight** 15 to 16 grams
- **Lodging** No lodging

PERFORMANCE†

- **Yield:** ForageMonster 30 outperforms US Sudan x Sorghum grass with up to 76% in total forage dry matter yield during field trials conducted across Canada
- **Quality:** ForageMonster30 consistently demonstrates high quality with 14 to 16% crude protein, 28 to 32% acid detergent fiber, 57 to 66% neutral detergent fiber, and 64 to 68% total digestible nutrients (TDN)
- **Nutrition:** ForageMonster 30 silage maintains similar dry matter intake, milk yield, and composition as compared to alfalfa and corn silage
- **Feeding:** Beef heifers fed with ForageMonster 30 silage show a weight gain of 0.88 kg/day compared to 0.82 kg/day with mixed haylage, indicating superior performance in beef production
- **Versatility:** With optimum planting, seeding, fertility, and harvesting practices, ForageMonster 30 delivers high yields and quality across diverse growing conditions, making it a reliable choice for forage production
- **Water Efficiency:** Requires 300 liters of water per kg of dry matter production (versus 849 liters used for Alfalfa)

CROP MANAGEMENT GUIDE

USECASES AND FEATURES:

- Ideal feed for dairy, beef, sheep, goat, hog, and poultry
- Excellent recovery from grazing and palatability
- Robust tolerance to alkaline and saline soils and increased suitability for even for the harshest growing conditions
- Excellent under-seeding qualities, especially when used in Alfalfa applications where there is a winter killing
- Extensive returns with forage dry matter yield, testing showing between 14 to 16 t/ha with high nutritional values
- Rapid growth with flowering in as little as 40 to 50 days and as many as 2 to 5 cuts per season
- No prussic acid risk ensures safety for feeding even after frost, hail, drought, or other stresses

SEEDING:

- **Planting:** To select the optimal week of planting, ensure that the soil temperature remains at least 12°C consistently, even overnight **CRITICAL**
- **Spacing:** Rows 7 inches apart with seeds planted 2 to 3 inches apart within the row **CRITICAL**
- **Seed Size:** Small seeds with approximately 30,000 seeds/lb and 66,000 seeds/kg
- **Seed Rate:** 4 lb/ac or 10 kg/ha **CRITICAL**
- **Planting Depth:** Shallow at ¾ to 1 inch **CRITICAL**

- **Planting Equipment:** Utilize corn planters/air seeders with sorghum plates for optimal seed handling or a grain drill with a grass box. Broadcasting of seeds results in uneven stand. Use 80% of opening for sorghum or sudangrass because the seed of ForageMonster 30 is smaller than plain sorghum or sudangrass varieties

FERTILITY:

- **Preparation:** A soil test is always recommended to establish a baseline of fertility requirements
- **Fertilizer Application:** Apply 40 lb/acre Nitrogen, 40 lb/acre Phosphorus at planting. Add 20 to 40 lb/acre of Nitrogen after first cut and 40 lb/acre Nitrogen after second cut. Adjust NPK based on soil analysis. Sandy soils will require increased values of NPK
- **Soil pH:** Optimal range 5.5 to 9.5

WEED CONTROL:

- **Weed Pressure:** ForageMonster 30 forms a dense canopy that shades out most weeds. However, early season growth is slow, and it is important to have low weed pressure during this critical period.
- **Cultivation For Control:** If grass weed pressure is heavy, use Roundup® before planting. Cultivation/pre-burn is the best option for controlling most weeds.

Seeding into a stale seedbed is another viable option. Prepare the soil 2 to 3 weeks ahead of planting, allowing

sorghum including: 2,4-D, Basagran Forté, Peak, and others (please follow OMAFRA guidelines)

WEED CONTROL (CONT'D):

weeds to emerge and broadcast a burn-down herbicide Glyphosate. Plant by no-tilling into the stale seed bed

- **Cultivation For Control:** There are a number broad spectrum herbicides for chemical control of weeds in

HARVEST:

- **Harvesting:** Ready at 40 to 50 days after planting. Optimum forage quality at 1 m height. Schedule the 2nd and 3rd cut approximately after every 20 to 25 days
- **Cutting:** Use sharp blades for a clean cut. Leave 4 to 6 inches of stubble for faster re-growth

[†]Ratings are based on testing over a number of years in numerous locations. Adverse environmental conditions and planting dates may alter a hybrid's performance, maturity and resistance to certain diseases and insects.

ForageMonster 30

5-YEAR PERFORMANCE AVERAGES ACROSS CANADA

VIGOR:

Early Vigor	Regeneration Vigor
2	3

TILLERING:

Tillers on First Cut	Tillers on Second Cut
2.5	6.5

PLANT HEIGHT:

Height on First Cut (cm)	Height on Second Cut (cm)	Height on Third Cut (cm)
102.8	85	90

MOISTURE:

Moisture % on First Cut	Moisture % on Second Cut	Moisture % on Third Cut
73.1	72	75

GREEN FORAGE YIELD:

Total GFY mt/ha Season
57.24

DRY MATTER YIELD:

mt/ha on First Cut	mt/ha on Second Cut	mt/ha on Third Cut	Total DMY mt/ha Season
4.59	5.46	4.26	14.31

NUTRITIONAL CONTENT (% OF DMY):

Total Digestible Nutrients	Crude Protein	Acid Detergent Fiber	In-vitro Digestibility
64.83	15.71	33.78	76.64
Phosphorus	Calcium	Potassium	
0.375	0.551	1.489	

Early Vigor Rating Scale: 1 = Excellent, 2 = Very Good, 3=Good, 4 = Acceptable, 5 = Poor | Fat measurements are for OMEGA-3.