

# ForageMonster 30

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

- Cold-tolerant, prussic-free and 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

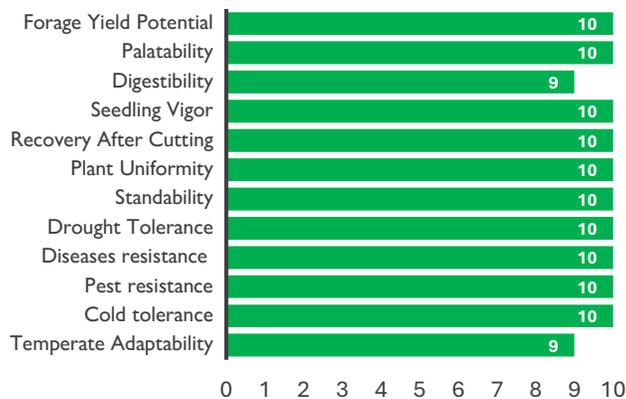
## SNAPSHOT

**Name (ID)** ForageMonster 30 (CFSH30)

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

**Development Period** 12 years

**Initial Release** 2001



## CROP USE



**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

## 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.

## 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, 55 to 60% 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:** 10 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

<sup>†</sup>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.