

# RUGGED ST BRAND ALFALFA



**Northstar Seed Ltd**

*"Come grow with us"*

**Northstar Seed Ltd.**

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## QUICK OVERVIEW

1. Better Germination under Salt Stress than conventional varieties
2. Better than Certified #1 Seed Quality Standards

## NEW SALT TOLERANCE RATING

Every seed lot of Rugged ST Brand Alfalfa has significantly better germination under salt stress than the following check varieties: Malone, Rangelander. (UNIVERSITY OF ARIZONA DATA)

## ADAPTATION

Rugged ST Brand Alfalfa is an excellent alfalfa in production areas where increasing salt levels are starting to limit stand establishment and/or reduce yields. The conventional salt stress level for alfalfa is EC>4, with an associated 7-8% forage yield reduction for each additional point increase over 4. New University trials have shown that Rugged ST Brand Alfalfa has 2 to 3 times better germination under salt stress than other conventional varieties.



## CAUTION! ALFALFA LIMITS

No alfalfa will tolerate extreme salt levels. However, Rugged ST Brand Alfalfa improved salt tolerance when combined with sound management practices should allow the alfalfa producer to improve initial stands and expand the productive range of the marginal fields on the farm.

## GERMINATION AT EACH NaCl CONCENTRATION (%) /ELECTRICAL CONDUCTIVITY LEVEL (EC)

NaCl Solution Concentration (%)	0	0.5	0.75	1	1.25	2.25
Equivalent EC (mmhos/cm)	0	7.8	11.7	15.6	19.4	35
Malone Alfalfa	82.6	69.1	60.6	57.6	30.3	0
Rangelander Alfalfa	90.7	81	55.2	55.2	22	0
*Rugged ST Brand Alfalfa Lot#NS-B49	94.8	94.6	85.6	76.1	59.4	0

\*Rugged ST Brand Alfalfa is not a recognized Canadian seed variety and therefore testing was completed on the common #1 seed lot that comprises Rugged ST Brand Alfalfa.



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