

#### HYBRID LINEUP





igrowth is the first commercially available non-GMO, herbicide-tolerant innovation for grain sorghum in the world. The technology allows for pre-emergent or postemergent control of broadleaf and grass weeds without causing damage to the crop, helping growers improve crop production and achieve better returns on their investments. The **igrowth** companion herbicide from UPL called IMIFLEX<sup>\*\*</sup> (imazamox) is expected to receive registration from the EPA before the 2021 growing season. It will be the only imazamox herbicide registered for use with **igrowth**.

Advanta Seeds was the first to discover the technology in 2007, and since then, **igrowth** has been successfully introduced in Argentina, Australia and multiple other countries. Now the company, through its premium seed brand Alta Seeds, is the first to commercialize herbicidetolerant sorghum in the United States.

\* Registration pending as of August 2020





#### igrowth Geography

**igrowth** hybrids are well-adapted to the broad U.S. sorghum growing areas to provide flexibility for growers. The initial five **igrowth** varieties offer weed control benefits that will appeal to growers of both high- and low-input acres. Additional hybrids are in development. See hybrid overviews in this guide for the geography where each is best suited.

#### Non-GMO

**igrowth** is a non-GMO product. There was no insertion of DNA from other species or plants into the sorghum genome. **igrowth** is a naturally occurring tolerance found by genetic screening of many germplasm lines and has global market acceptance.

#### Purchasing igrowth

Growers wanting to purchase **igrowth** seed for the upcoming growing season will need to register and sign the **igrowth** WEED CONTROL SORGHUM GROWER AGREEMENT at **AgCelerate.com**. Alta Seeds will provide registered **igrowth** users with additional stewardship documents in the future.





#### MEDIUM RED GRAIN SORGHUM

### DESCRIPTION

MEDIUM	RELATIVE MATURITY
65	DAYS TO MID BLOOM
600,000	SEEDS/BAG
RED	GRAIN COLOR
SEMI-OPEN	HEAD TYPE
40-48"	PLANT HEIGHT
PURPLE	PLANT COLOR

- » Strong yield performance in maturity
- » Ideal for rainfed production
- » Strong disease ratings
- » Good uniformity

### **RECOMMENDED SEEDING RATES**

Seeding rates may vary depending on local growing conditions. Please see your Alta Seeds retailer for local recommendations.



### **FIELD POSITIONING**



POOR EXCELLENT 10 9 8 7 6 5 4 3 2 1

YIELD FOR MATURITY	2
HEAD EXERTION	
PLANT UNIFORMITY	2
SEEDLING VIGOR	3
ROOT LODGING	3
DROUGHT TOLERANCE	3
TEST WEIGHT	2
THRESHABILITY	2



#### MEDIUM RED GRAIN SORGHUM

### DESCRIPTION

MEDIUM	RELATIVE MATURITY
66	DAYS TO MID BLOOM
600,000	SEEDS/BAG
RED	GRAIN COLOR
SEMI-OPEN	HEAD TYPE
36-45"	PLANT HEIGHT
PURPLE	PLANT COLOR

- » Extends maturity in ideal environments
- » Travels throughout grain belt
- » Strong agronomics
- » Moderate SCA tolerance

### **RECOMMENDED SEEDING RATES**

Seeding rates may vary depending on local growing conditions. Please see your Alta Seeds retailer for local recommendations.



### **FIELD POSITIONING**



# RATINGS

POOR EXCELLENT 10 9 8 7 6 5 4 3 2 1

YIELD FOR MATURITY	4
HEAD EXERTION	1
PLANT UNIFORMITY	2
SEEDLING VIGOR	4
ROOT LODGING	2
DROUGHT TOLERANCE	4
TEST WEIGHT	2
THRESHABILITY	2



#### MEDIUM RED GRAIN SORGHUM

### DESCRIPTION

MEDIUM	RELATIVE MATURITY
65	DAYS TO MID BLOOM
600,000	SEEDS/BAG
RED	GRAIN COLOR
SEMI-COMPACT	HEAD TYPE
36-44"	PLANT HEIGHT
PURPLE	PLANT COLOR

- » Top yield potential on good ground
- » Travels well across geographies
- » True to maturity
- » Great standability

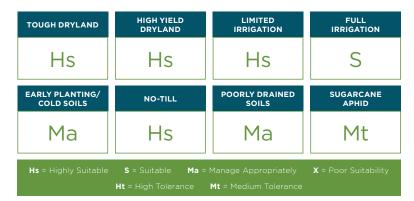
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### **RECOMMENDED SEEDING RATES**

Seeding rates may vary depending on local growing conditions. Please see your Alta Seeds retailer for local recommendations.



#### **FIELD POSITIONING**





#### MEDIUM-EARLY RED GRAIN SORGHUM

### DESCRIPTION

MEDIUM EARLY	RELATIVE MATURITY
63	DAYS TO MID BLOOM
600,000	SEEDS/BAG
RED	GRAIN COLOR
SEMI-COMPACT	HEAD TYPE
40-48"	PLANT HEIGHT
PURPLE	PLANT COLOR

- » Consistent performer
- » Yields well in maturity
- » Quick-season hybrid
- » Strong in western environments

### **RECOMMENDED SEEDING RATES**

Seeding rates may vary depending on local growing conditions. Please see your Alta Seeds retailer for local recommendations.



#### **FIELD POSITIONING**



## RATINGS

POOR EXCELLENT

YIELD FOR MATURITY	4
HEAD EXERTION	1
PLANT UNIFORMITY	2
SEEDLING VIGOR	4
ROOT LODGING	2
DROUGHT TOLERANCE	4
TEST WEIGHT	2
THRESHABILITY	2



#### MEDIUM-EARLY RED GRAIN SORGHUM

### DESCRIPTION

MEDIUM EARLY	RELATIVE MATURITY
61	DAYS TO MID BLOOM
600,000	SEEDS/BAG
RED	GRAIN COLOR
SEMI-COMPACT	HEAD TYPE
45-55"	PLANT HEIGHT
RED	PLANT COLOR

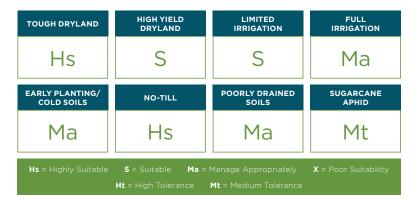
- » Drought-hardy producer
- >> Great head exertion for efficient harvest
- » Responds to rainfall and irrigation
- » Travels into western environments

### **RECOMMENDED SEEDING RATES**

Seeding rates may vary depending on local growing conditions. Please see your Alta Seeds retailer for local recommendations.



### **FIELD POSITIONING**



RATINGS
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POOR EXCELLENT

YIELD FOR MATURITY	2
HEAD EXERTION	3
PLANT UNIFORMITY	2
SEEDLING VIGOR	2
ROOT LODGING	3
DROUGHT TOLERANCE	2
TEST WEIGHT	2
THRESHABILITY	2



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