



# SEEDING YOUR LANDSCAPE

For Beauty, Health and Wildfire Mitigation

Kendra Brewer



#### 700 ACRE FARM Near Pleasantview

GROW NAITVE VARIETIES
 OF FLOWERS AND
 GRASSES FOR SEED









# SOUTHWEST SEED CLEANING FACILITY AND OFFICE between Dolores and Cortez

- Clean and store seed
- Seed sales
  - Agriculture
  - Reclamation
  - Landscaping
  - Homeowners

# SEEDING DISCLAIMER



#### MHA SEEDS

#### THE FAR SIDE • Gary Larson



The woods were dark and foreboding, and Alice sensed that sinister eyes were watching her every step. Worst of all, she knew that Nature abhorred a vacuum.

#### Cover Bare Ground

- Reduce erosion
- Weed control
- Habitat
- Beauty
   Replace existing vegetation
   that isn't serving needs
- water use
- flammability

### WHAT TO PLANT:

	Seed Categories			
GERMINATES IN 45° – 55°	COOL SEASON	VS	WARM SEASON	GERMINATE IN 55° - 65°
EACH SUCCESSFUL SEED IS A DISTINCT PLANT.	BUNCH GRASS	VS	SOD FORMER	EACH SUCCESSFUL SEED CAN SPREAD RUNNERS LATERALLY
NARROW BLADE TYPE LEAF	GRASSES	VS	FORBS	BROADLEAVES, FLOWERS
ABLE TO SURVIVE ON LESS H <sub>2</sub> O	DRYLAND	VS	IRRIGATED	NEEDS SUPPLEMENTAL H <sub>2</sub> O
PLANTS FROM OTHER PARTS OF THE WORLD	INTRODUCED	VS	NATIVE	PLANTS THAT EXISTED LOCALLY BEFORE NEW SPECIES ARRIVED
PLANTS THAT LIVE 1 SEASON THEN DIE	ANNUAL	VS	PERENNIAL	PLANTS THAT RETURN YEAR AFTER YEAR FROM ROOTS

## Season of Green up

Cool Season grasses GERMINATES IN 45° – 55°



Warm Season grasses
GERMINATE IN 55° - 65°



Summer

#### BUNCH GRASS



Arizona Fescue (Fesuca arizonica)

#### SPREADING GRASS

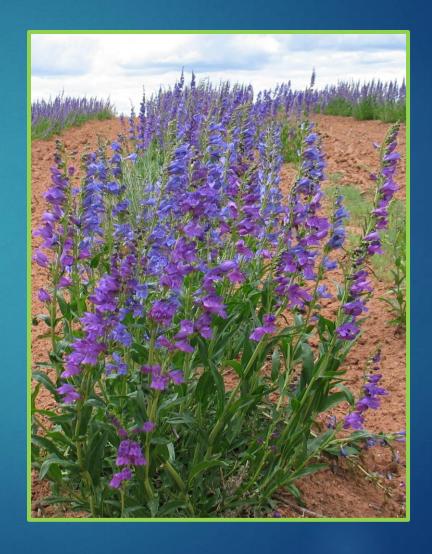


Smooth Brome (Bromus inermis)

#### Grasses



### Forbs/ Broadleaves



# DRYLAND



# IRRIGATED



# NATIVE



# INTRODUCED



# **NON-NATIVE PLANTS NATIVE PLANTS** Black-eyed Susan Common Ninebark Perennial Fountain Grass

# NATIVE



# INTRODUCED



# PERENNIALS

# ANNUALS





## FIREWISE PLANTNING IN COLORADO



CSU Extension Factsheet 6.3.5

#### FOOTHILLS NATIVE MIX

- 40% Slender Wheatgrass
- 20% Indian Ricegrass
- 15% Sandberg Bluegrass
- 15% Arizona Fescue
- 10% Lewis Flax
- Bonus: add Blue grama!



#### HOW TO READ A SEED TAG



13514 Road 29

(3)

Dolores, CO 81323

Phone: (970) 565-8722

Kind: BLUE GRAMA

Variety: CERTIFIED HACHITA

7B 6D

Lot# 2020.0572

2 Pure: 87.37

Inert: 12.63

Crop: 0.00

Weed: 0.00

Origin: CO

Noxious Seeds: None Found

WEIGHT (Bulk Lbs): 21.947

(PLS Lbs):

Germ:

Hard Seed:

Dormant:

Pure Live:

Test Date:

TZ:

16.682

86.00

0.00

1.00

76.01

02/22

LAB: Indiana State Seed Laboratory

TEST#: 22-4365

NOTICE TO BUYER - EXCLUSION OF WARRANTY AND LIMITATION. We warrant that the seed sold has been labeled as required in the State and Federal Seed Laws, and that it conforms to the label description within tolerances recognized by law. NO OTHER WARRANTY IS MADE, expressed or implied, INCLUDING without limitation, THE MERCHANTABILITY, THE PERFORMANCE OF THE CROP AS TO YIELD OR QUALITY, OR THE FITNESS FOR PARTICULAR PURPOSES. It is expressly agreed that the liability to the buyer or others from any type of lass shall be limited solely to the amount of the purchase price of the seed. Seed not accepted on the above terms and conditions may be returned to the place of purchase in the unopened containers within 10 days. Under the "Colorado Seed Act" arbitration is required as a prerequisite to certain legal actions, counterclaims, or defenses against a seller of seed. Information about this requirement may be obtained from the Colorado Commissioner of Agriculture.

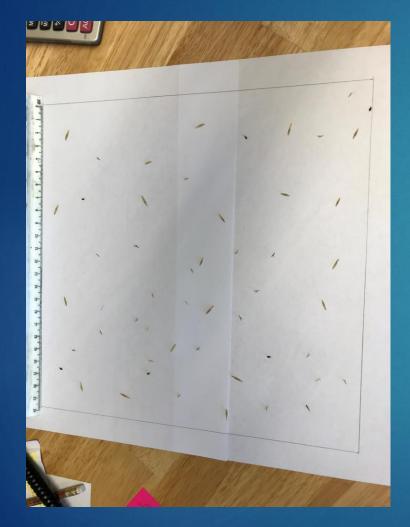
- 1.LOT #
- 2. PURITY ANALYSIS
- 3. VIABILITY ANALYSIS
- 4. PURE LIVE SEED

% of what is in the bag that is actual seed and living seed

PLS=Purity % x Viability %

5. Test date

# SEEDING RATES





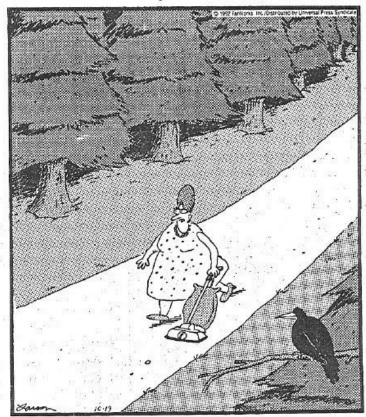


100 SEEDS PER SQ. FT

400 SEEDS PER SQ. FT

#### WHEN TO PLANT

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- Winter dormant
- Spring
- Late Summer/ Early Fall

#### GERMINATION



#### **GERMINATION EXAMPLES**

SPECIES	TYPE I= introduced, N=Native/ W=Warm Season, C=Cool Season/ A=Annual, P=Perennial	GERMINATION TEMERATURE RANGE (degrees Fahrenheit)	GERMINATION TIME**	
Kentucky bluegrass	I/C/P	50-65		
Perennial ryegrass	I/C/P	45-65	7-14 days	
Tall fescue	I/C/P	50-65	14-21 days	
Thickspike wheatgrass	N/C/P	50-77	7-25 days	
Winter rye	I/C/A	34-65	7-14 days	
Smooth brome	I/C/P	55-75	14-28 days	
Orchardgrass	I/C/P	50-80	7-14 days	
Buffalo grass	N/W/P	55+	15-21 days	
Indian Ricegrass  * Needs vernalization/scarification	N/C/P	40-60	40+ days	
California poppy	N/C/A	60-70	15-30 days	
Rocky Mtn Penstemon	N/C/P	50-60	14-35 DAYS	

<sup>\*\*</sup>Germination time depends on factors such as seed depth, ideal temperature range and water availability. For some seeds, scarification and vernalization are also factors that will affect germination time and rate.

#### Find out your current soil temperature!

CSU's Station Data is available online at:

https://coagmet.colostate.edu/station/selector

#### WARM SEASON VS COOL SEASON PLANTS

#### Cool Season grasses GERMINATES IN 45° – 55°



Spring
Late Summer/Early Fall
Winter Dormant

#### Warm Season grasses GERMINATE IN 55° - 65°



Late Spring thru Mid Summer

#### What are the Basic Needs for Germination?

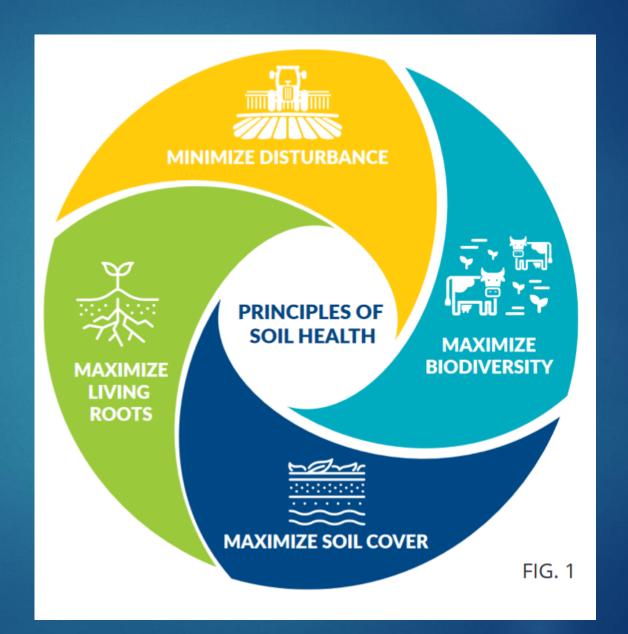
- 1. Good Seed
- 2. Water
- 3. Soil Temperature



#### THE PERFECT WORLD OF PLANTING

- Most seed needs to be planted 1/4" 1/2" deep.
- Virtually all seed in the Arid Southwest MUST be covered with soil.
- Seeds do best with the soil 'packed' around it to hold warm temperatures and moisture around the seed.
- Since none of us live in the perfect world we aim for the best we can manage.

# THE BASICS OF SOIL HEALTH



#### SOIL PREP AND SEEDING



#### GOALS:

- Minimize soil disturbance
- Plant seed under
- 1/4-1/2 inch of soil
- Minimize weed growth

### SOIL PREP AND SEEDING



METHODS:
DRILL SEEDING
One pass!

BROADCAST SEEDING
Level
Rake---Seed----Rake
Lightly tamp or roll

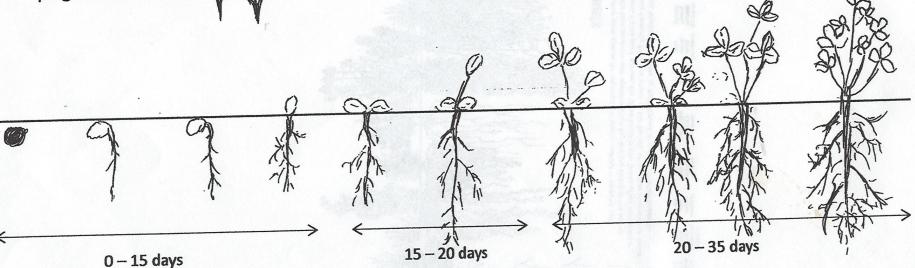
#### WATERING

#### **Typical Seedling Development**

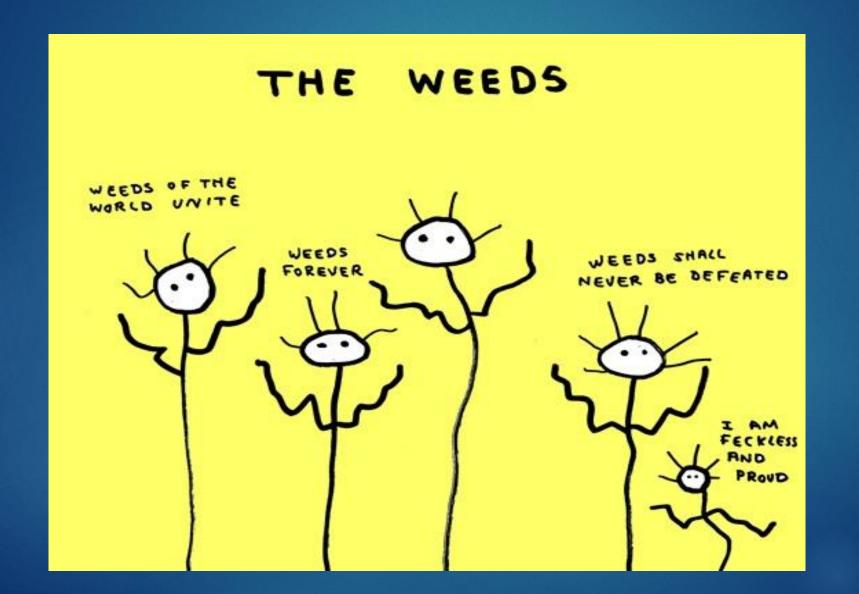
#### **Important Notes:**

- The root growth begins first and in general is more vigorous than the above ground vegetative growth.
- Grass shoots look different but follow the same progression. Example: \

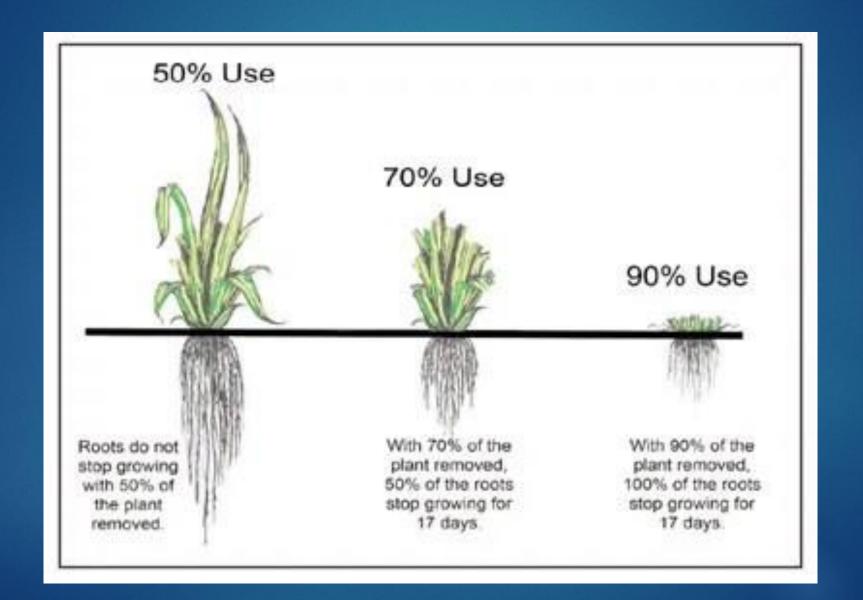
- The illustration below shows a broadleaf seedling (a flower or a legume typically.) Example: Timing may vary for each species but they follow
- the same basic pattern.



#### A WORD ABOUT WEEDS



#### LET IT GROW



#### RESEEDING/OVERSEEDING

#### More challenging than starting from scratch

- Hard to get seed under ¼ inch of soil
- Danger of damaging existing plants
- Allelopathic plants

#### Tips to improve success rate:

- Use No-Till Drill when possible
- Mow or graze existing vegetation first
- Rake up debris/ harrow
- Heavy seed rate

