

Seed Mix

Seeding Excerpt

4 – Ascalon

5 – Ascalon

As of Date: 10 Nov 2023

NRCS Soil Survey

Reference Soil Map Unit 4 – Ascalon

Reference Soil Map Unit 5 - Ascalon

Reference Ecological Site Description (ESD) – R067BY024CO – Sandy Loam

NRCS Consultation and References

- Reference CO_ECS_05 NRCS Grass Seeding Plan
- Reference 512-CPS-1 NRCS Conservation Practice Standard Pasture and Hay Planting Code 512
- Reference Forage Harvest Management (Code 511)
- Reference Prescribed Grazing (Code 528)
- Reference MU 4 & MU 5 – Rangeland Vegetation Productivity and Plant Composition

Sites

Reclamation Sites that fall within Map Unit 4

- 455554 – True Ranch Free 27 East

Land Use

Non-irrigated Dryland Rangeland

Planned Weed Control

Active in the Spring and throughout the growing season to control existing weed pressure

Seeding Methods

Soil and Seeding

Action	Specification	Purpose
Seeding	Broadcast seed on the existing soil stockpile surface	Soil stabilization on a slope
Seeds	Ascalon Seed Mix	Rate - 22 Lbs/acre
Stabilization	Place erosion control blanket over the seeds	Soil stabilization on a slope

Seeding Description

Seeding should be conducted using a broadcast seeder using the seed mix provided in the NCRS Grass Seeding Plan Worksheet (native seed mixture). It is recommended that the seed be covered immediately with an erosion control blanket to secure the seeds from wind and water erosion. The erosion control blanket is also used to stabilize the soil on a slope. **The recommended seed mix should be seeded at a rate of 22 lbs per acre.**

Grazing

In accordance with 512-CPS-1 NRCS Conservation Practice Standards

“Exclude livestock until the plants are well established. Ensure the plants have reached the full start grazing heights or the recommended hay cutting heights (late elongation phase or later) before the first grazing or cutting begins. See NRCS CPSs Prescribed Grazing (Code 528) and Forage Harvest Management (Code 511) for details. There may be conditions and time of the growing season that require letting the plants reach maturity before any haying or grazing takes place to avoid the risk of killing the new plants.”

Additional Grazing Guidance

- Delay grazing time frame 12 – 15 months after planning as recommended by NRCS – reference email correspondence with Maria Bumgarner 30 Oct 2023.
- Protection of plantings (if applicable), such as livestock exclusion periods and through use of NRCS CPSs Forage Harvest Management (Code 511) and Prescribed Grazing (Code 528), as needed.
 - Description of successful establishment and when evaluation of establishment should be completed (e.g., minimum percent ground or canopy cover, percent stand, and stand density)

Seed Mix

Ascalon Seed Mix

NRCS ECS-05

4 – Ascalon

5 - Ascalon

Seed Mixture Notes

- Seed mixture developed to tolerate herbicide application during the growing season and deep rooting species for soil stabilization. Forbs/shrubs were omitted from seed mix due to low tolerance of herbicide application.
- Grazing exclusion is required until the seeds have been established as requested by NRCS at this site – refer to grazing section for references.
- ***Increasing pounds/acre is recommended for areas that have heavy weed infestation or slope stabilization to 2x the seeding rate**
- **Seeding rate will be 22 Lbs/acre**

Grass Seeding PART I - Planned

Cooperator	CCRP	Date	1 NOV 2023
Tract/Field No	TA	Acres	
Soil Survey Area	Weld County CO617	Map Unit (s)	4 - Ascalon & 5 - Ascalon
Contract No.		CIN	
Seeding dates	Nov 1 - Apr 30	Purpose	Other
Seedbed preparation	Limited: less than 3 tillage operations	Seed rate	50
Drill type	grass	Acres to be seeded	1.00
Planting depth-Drill spacing (in)	.25 ----7-10inches		
Planned fertilizer application (lb/ac)	N	P ₂ O ₅	K ₂ O
Planned weed control activities	Description: Herbicide Date(s): as needed	A Nutrient Management Plan is not required for the establishment of vegetative conservation practices.	
Planned residue cover or mulch	Type: Other NRCS approved cover	Attach WIN-PST Soil-Pesticide Interaction Risk Report for all chemical suppression activities	
	Amount (lb/ac)		
	Application method		

Seed Mix Recommendation, † ‡

Common name N=native, I=introduced	Genus, species	Recommended Cultivar	% of seed mix	Pounds (lbs) pure live seed (PLS)
Grasses, forbs				
Prairie sandreed	Native <i>Calimovilfa longifolia</i>	Blackwell	25.0	1.99
Little bluestem	Native <i>Schizachyrium scoparium</i>	Aldous, cimm.,camper, blaze	25.0	2.10
Needleandthread	Native <i>Hesperostipa comata</i>	cheyenne	20.0	2.72
Sideoats grama	Native <i>Bouteloua curtipendula</i>		10.0	1.14
Sand bluestem	Native <i>Andropogon hallii</i>		10.0	1.98
Blue grama	Native <i>Bouteloua gracilis</i>		5.0	0.15
Western wheatgrass	Native <i>Pascopyrum smithii</i>		5.0	0.99
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00
0			0.0	0.00

Shrubs

0				0.00
0				0.00
0				0.00
			Shrubs	0.00
			Grasses, Forbs	11.07
			Total lbs PLS	11.07
			Seed Rate (lbs PLS/acre)	11.07

† Certified Seed is required for all NRCS cost share programs

‡ Complete a Tree and Shrub Establishment 612 Job Sheet for bare-root shrub plantings

Additional Recommendations

Seed MUST be sorted by size and type (e.g., large hard, small, fluffy). Grazing delay for 12-15 months post seeded to ensure establishment. Reference NRCS Conservation Practice Standards, Pasture and Hay Planting - CODE 512, Prescribed Grazing (Code 528), and Forage Harvest Management (Code 511)