



**Soil Quality Enhancement Activity – SQL16 – High species diversity grazing lands**

**State Criteria (same as NATIONAL CRITERIA)**

**Additional State Criteria:**

1. This enhancement is only applicable for low diversity, degraded pastures and not applicable on rangeland. Degraded pasture is defined as pastureland with a Pasture Condition Score of 25 or less.
2. Refer to the Nebraska Cover Crop standard (340) and the [Cover Crop Worksheet \(NE-CPA-7\)](#) to develop seed mixes that meet the national criteria. See Table 1 for a list of annual species that work well for grazing and provide numerous soil health benefits.
3. If the stand of existing vegetation is thick, high in vigor and/or composed primarily of sod-forming grasses, chemical and/or mechanical measures may be necessary to ensure the success of the seeding.
4. The need for fertilization will depend upon the species seeded and fertility of the soil.

**Documentation Requirements: (SEE NATIONAL ENHANCEMENT ACTIVITY JOBSHEET)**

**ADDITIONAL STATE DOCUMENTATION REQUIREMENTS**

1	2	3	4	5	6	7	8
Tract	Field	Planned Acres	Existing functional group(s)	Approximate Timeframe of Planting	Applied Acres	Functional Groups added	Date Planted
EX.101	5	25.0ac	Native Cool Season Grasses	March of 2015	27.0 ac	Warm season grasses, Broadleaf forbs, Legumes	March 30, 2015

NRCS will complete columns 1-5 at the time of planning. Participant will complete columns 6-7 after enhancement has been completed.

**I certify that the multi-species planting meets these specifications listed in the national enhancement worksheet and state supplement and I have attached the following documentation:**

1. Completed [Cover Crop Worksheet \(NE-CPA-7\)](#).
2. Completed Prescribed Grazing Plan – NE-ECS-528 Cover Crops (found in the [Nebraska Prescribed Grazing Tool](#)) or equivalent.
3. Map with high species diversity planting clearly identified (highlighted, outlined, etc.).
4. Amount, kind and date applied for fertilizer applied (if applicable).

**Certified by:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**TABLE 1: Annual plants for SQL16 – High Species Diversity Grazinglands.**



**High Diversity Plant List for CSP Enhancement SQL16 in Nebraska**

The following annual plants may be overseeded into rangeland and pastureland. The following list indicates the functional group and benefits provided. Benefits are listed on a scale of 1 to 5 with 5 being the highest and 1 the lowest. **Some of the forages listed below are agricultural commodities. Use of these species on HEL land may cause the activity to be "sodbusting". Check with your Farm Service Agency before use of any of these species.**

Forage Species	Functional Group	Grazing Value	Soil Builder	Capture, recycle, redistribute nutrients in soil profile	Suppress Weeds	Reduce Compaction	Pollinator Habitat
Barley, Spring	Grass (CS)	3.5	4.5	3	4.5	3	NO
Buckwheat	Broadleaf (WS)	1	3	3	5	1	YES
Canola/rapeseed	Broadleaf (CS)		3	5	3.5	1	YES
Chickling Vetch	Legume	3	3	5	3	1	YES
Chickpea	Legume	3	1				YES
Clover, Arrowleaf	Legume	5					YES
Clover, Berseem	Legume	5	4		5	2	YES
Clover, Crimson	Legume	5	4		4	2	YES
Clover, Red	Legume	4	3.5				YES
Clover, Sweet	Legume		4	3	3.5	4	YES
Corn (BMR)	Grass (WS)	3	5	5	3	5	NO
Cowpea	Legume	3	2	3	5	3	YES
Lentil, Spring	Legume	3	1	1	3	1	YES
Millet, foxtail	Grass (WS)	3	3	3	3	3	NO
Millet, Pearl	Grass (WS)	3	5	3	5	3	NO
Millet, Proso	Grass (WS)	3	3	3	3	1	NO
Mustard (brown, oriental or yellow)	Broadleaf (CS)	3	3.5	3	4.5	2.5	YES
Oats	Grass (CS)	3	4	3	4	2	NO
Pea, spring field	Legume	3.5	2	1	3	1.5	YES
Pea, spring forage	Legume	4	3		4	3	YES
Pea, winter	Legume	4	3		4	3	YES
Radish	Broadleaf (CS)	4	2.5	5	5	5	YES
Ryegrass (annual)	Grass (CS)	3.5	4.5	5	4.5	4	NO
Ryegrass, Italian	Grass (CS)	5	5	5	5	3	NO
Safflower	Broadleaf (WS)	5	3	5	3	3	YES
Sorghum, grain	Grass (WS)	3	5	5	5	5	NO
Sorghum, forage	Grass (WS)	3	5	5	5	5	NO
Soybean	Legume	3	1	3	3	1	NO
Sudan-sorghum hybrid	Grass (WS)	4.5	5	5	4.5	5	NO
Sunflower	Broadleaf (WS)	5	3	3	3	3	YES
Sunn Hemp	Legume			4			
Triticale	Grass (CS)	3	5	5	5	3	NO
Turnip	Broadleaf (CS)	5	1	5	5	5	
Vetch, hairy	Legume	3	3.5	3	3	3	YES
Vetch, woolypod (Lana)	Legume	5	5		5	4	YES
Wheat, Winter	Grass (CS)	3.5	4.5	5	4.5	3	

WS = Warm Season; CS = Cool Season