SUITABILITY GROUP A-1

(Loamy Bottomland)

Description: Deep, well drained or moderately well drained soils with loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas. (Soils with a clayey subsoil have at least 14 inches of loamy material above the subsoil.)

Limitations: Soils in this subgroup can have slight wetness and slight salinity or alkalinity.

Soils:
Alluvial land
Eudora silt loam, complex, fine sandy loam
Haynie silt loam, complex
Judson silty clay loam
Kennebec silt loam
Muir silt loam
Reading silt loam
Rodaway silt loam

Recommended Species: See chart on next page.

LRA: 106 & 107
SUITABILITY GROUP: A-1

SPECIES	SPECIES ADAPTABILITY 1 / DRYLAND	IRRIGATED	SPECIES PRODUCTIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISHMENT 4_/	FERTILIZER NEEDS 5_/ N	P	K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES										
BIG BLUESTEM	9	9	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	9	9	6	7	2-3					FAIR-GOOD
PAWNEE	8	8	6	7	2-3					FAIR-GOOD
ROUNTREE	8	8	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	7	8	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	9	9	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	8	8	6	7	1-3					FAIR
NEBRASKA 54	8	8	6	7	1-3					FAIR
OSAGE	9	9	6	7	1-3					FAIR
RUMSEY	8	8	6	7	1-3					FAIR
SWITCHGRASS	9	9	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	9	9	6	5	1-2					GOOD
CAVE-IN-ROCK	9	9	7	5	1-2					GOOD
KANLOW	8	8	8	4	1-2					POOR
PATHFINDER	9	9	6	5	1-2					GOOD
TRAILBLAZER	9	9	6	6	1-2					GOOD
COOL SEASON GRASSES										
CREEPING FOXTAIL	4	5	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	4	5	7	7	1-2					POOR
ORCHARDGRASS	7	8	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	7	8	7	7	1-2					POOR
REED CANARYGRASS	6	8	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	6	8	8	6	1-2					POOR
RISE	5	7	8	6	1-2					POOR
SMOOTH BROMEGRASS	9	9	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	9	9	7	7	1					FAIR
LINCOLN	8	8	7	7	1					FAIR
SOUTHLAND	8	8	7	7	1					FAIR
TALL FESCUE	8	8	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENHY	7	7	7	4	1					POOR
KENTUCKY 31	8	8	7	4	1					POOR
MISSOURI 96	8	8	7	4	1					POOR
WHEATGRASS										
WESTERN	7	7	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	7	7	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	9	9	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	8	8	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD
BIRDSFOOT TREFOIL	6	8	8	8	1	0-1	1-3	1-3	6.2-7.0	FAIR
CROWNVETCH	8	8	8	5	1-3	0-1	0-2	1-2	6.5-8.0	FAIR
EMERALD	8	8	8	5	1-3					FAIR
RED CLOVER	6	7	6	8	1	0-1	1-3	1-3	6.5-8.0	POOR
SWEET CLOVER	7	8	7	7	1	0-1	0-2	1-2	6.5-8.0	FAIR

1_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-2

(Loamy)

Description: Deep, well drained or moderately well drained soils with loamy surfaces and loamy or clayey subsoils. Soils in this subgroup occur on uplands and receive little or no extra moisture from adjoining areas. (Soils with a clayey subsoil have at least 14 inches of loamy material above the subsoil.)

Limitations: Few or no limitations. Soils in this subgroup can have slight wetness and slight salinity or alkalinity.

Soils:

Armster loam
Burchard clay loam
Dennis silt loam
Edina silt loam
Elmont silt loam
Gara loam
Grundy silt loam
Gymer silt loam
Knox silt loam, complex
Ladoga silt loam
Marshall silty clay loam
Martin silty clay loam
Monona silt loam
Morrill loam, complex
Olmitz clay loam
Pawnee clay loam, complex
Polo silt loam
Sharpsburg silty clay loam, complex
Shelby clay loam, complex
Summit silty clay loam
Welda silt loam

Aksarben silty clay loam
Contrary silt loam
Mayberry clay loam
Padonia silty clay loam
Oska silty clay loam
Pohocco silt loam

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 / DRYLAND	IRRIGATED	SPECIES PRODUC-TIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISH-MENT 4_/	FERTILIZER NEEDS 5_/ N	P	K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES										
BIG BLUESTEM	8	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	8	8	6	7	2-3					FAIR-GOOD
PAWNEE	7	7	6	7	2-3					FAIR-GOOD
ROUNTREE	8	8	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	6	8	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	8	8	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	8	8	6	7	1-3					FAIR
NEBRASKA 54	8	8	6	7	1-3					FAIR
OSAGE	8	8	6	7	1-3					FAIR
RUMSEY	8	8	6	7	1-3					FAIR
SWITCHGRASS	8	8	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	8	8	6	5	1-2					GOOD
CAVE-IN-ROCK	8	8	7	5	1-2					GOOD
PATHFINDER	8	8	6	5	1-2					GOOD
TRAILBLAZER	8	8	6	6	1-2					GOOD
COOL SEASON GRASSES										
ORCHARDGRASS	6	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	6	7	7	7	1-2					POOR
REED CANARYGRASS	3	7	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	3	7	8	6	1-2					POOR
RISE	3	7	8	6	1-2					POOR
SMOOTH BROMEGRASS	8	8	6	7		1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	8	8	7	7						FAIR
LINCOLN	8	8	7	7						FAIR
SOUTHLAND	8	8	7	7						FAIR
TALL FESCUE	7	8	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENHY	6	7	7	4	1					POOR
KENTUCKY 31	7	8	7	4	1					POOR
MISSOURI 96	7	8	7	4	1					POOR
WHEATGRASS										
WESTERN	7	7	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	7	7	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	8	8	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	7	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD
BIRDSFOOT TREFOIL	5	7	8	8	1	0-1	1-3	1-3	6.2-7.0	FAIR
CROWNVETCH	7	7	8	5	1-3	0-1	0-2	1-2	6.5-8.0	FAIR
EMERALD	7	7	8	5	1-3					FAIR
RED CLOVER	6	7	6	8	1	0-1	1-3	1-3	6.5-8.0	POOR
SWEET CLOVER	6	7	7	7	1	0-1	0-2	1-2	6.5-8.0	FAIR

1_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-4

(Sands)

Description: Deep, well drained to excessively drained soils with sandy surfaces and subsoils. Available water holding capacity in the 40-inch root zone is less than four inches.

Limitations: Choice of plants is limited by droughtiness and low fertility. Lack of moisture and soil blowing may be a hazard during establishment of recommended species.

Soils: Thurman loamy fine sand, complex

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1_/ DRYLAND	IRRIGATED	SPECIES PRODUCTIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISHMENT 4_/	FERTILIZER NEEDS 5_/ N	P	K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES										
BIG BLUESTEM	7	7	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	7	7	6	7	2-3					FAIR-GOOD
PAWNEE	7	7	6	7	2-3					FAIR-GOOD
ROUNTREE	7	7	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	5	8	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	7	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	7	7	6	7	1-3					FAIR
NEBRASKA 54	7	7	6	7	1-3					FAIR
OSAGE	7	7	6	7	1-3					FAIR
RUMSEY	7	7	6	7	1-3					FAIR
PRAIRIE SANDREED	8	8	5	3	2-3	0-1	0-1	0-1	5.5-7.0	GOOD
GOSHEN	8	8	6	3	2-3					GOOD
SAND BLUESTEM	8	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
GARDEN	8	8	5	7	1-3					FAIR-GOOD
WOODWARD	8	8	6	7	1-3					FAIR-GOOD
SWITCHGRASS	7	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	7	6	5	1-2					GOOD
CAVE-IN-ROCK	7	7	7	5	1-2					GOOD
PATHFINDER	7	7	6	5	1-2					GOOD
TRAILBLAZER	7	7	6	6	1-2					GOOD
COOL SEASON GRASSES										
CREEPING FOXTAIL	0	5	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
GARRISON	0	5	7	7	1-2					POOR
ORCHARDGRASS	5	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	5	7	7	7	1-2					POOR
SMOOTH BROMEGRASS	6	7	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	6	7	7	7	1					FAIR
LINCOLN	6	7	7	7	1					FAIR
SOUTHLAND	6	7	7	7	1					FAIR
TALL FESCUE	5	7	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENHY	4	6	7	4	1					POOR
KENTUCKY 31	5	7	7	4	1					POOR
MISSOURI 96	5	7	7	4	1					POOR
LEGUMES										
ALFALFA (STANDARD)	7	8	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	6	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-6

(Coarse Loamy Upland)

Description: Deep, well drained soils with loamy surfaces and subsoils. Soils in this subgroup have moderately coarse-textured surfaces and occur on uplands.

Limitations: Lack of moisture and soil blowing may be hazards during establishment of recommended species.

Soils: Konawa fine sandy loam
Ortello sandy loam

Recommended Species: See chart on next page.

LRA: 106 & 107
SUITABILITY GROUP: A-6

SPECIES	SPECIES ADAPTABILITY 1_/ DRYLAND	SPECIES ADAPTABILITY 1_/ IRRIGATED	SPECIES PRODUCTIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISHMENT 4_/	FERTILIZER NEEDS 5_/ N	FERTILIZER NEEDS 5_/ P	FERTILIZER NEEDS 5_/ K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES										
BIG BLUESTEM	8	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	8	8	6	7	2-3					FAIR-GOOD
PAWNEE	7	7	6	7	2-3					FAIR-GOOD
ROUNTREE	8	8	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	6	8	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	8	8	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	8	8	6	7	1-3					FAIR
NEBRASKA 54	8	8	6	7	1-3					FAIR
OSAGE	8	8	6	7	1-3					FAIR
RUMSEY	8	8	6	7	1-3					FAIR
SAND BLUESTEM	7	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
GARDEN	7	8	5	7	1-3					FAIR-GOOD
WOODWARD	7	8	6	7	1-3					FAIR-GOOD
SWITCHGRASS	8	8	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	8	8	6	5	1-2					GOOD
CAVE-IN-ROCK	8	8	7	5	1-2					GOOD
PATHFINDER	8	8	6	5	1-2					GOOD
TRAILBLAZER	8	8	6	6	1-2					GOOD
COOL SEASON GRASSES										
ORCHARDGRASS	6	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	6	7	7	7	1-2					POOR
REED CANARYGRASS	3	7	7	6	1-2	1-2	1-2	0-2	5.5-7.0	POOR
IOREED	3	7	8	6	1-2					POOR
RISE	3	7	8	6	1-2					POOR
SMOOTH BROMEGRASS	8	8	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	8	8	7	7	1					FAIR
LINCOLN	8	8	7	7	1					FAIR
SOUTHLAND	8	8	7	7	1					FAIR
TALL FESCUE	7	8	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENHY	6	7	7	4	1					POOR
KENTUCKY 31	7	8	7	4	1					POOR
MISSOURI 96	7	8	7	4	1					POOR
WHEATGRASS										
WESTERN	7	8	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	7	8	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	8	8	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	7	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-7

(Deep Limy)

Description: Deep, well drained or somewhat excessively drained soils with loamy surfaces and subsoils that contain lime throughout the profile.

Limitations: Soils in this subgroup are slightly affected by limy surfaces and subsoils.

Soils: Hamburg silt loam
Steinauer clay loam
Netawaka silt loam

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1 / DRYLAND	IRRIGATED	SPECIES PRODUCTIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISHMENT 4_/	FERTILIZER NEEDS 5_/ N	P	K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES										
BIG BLUESTEM	8	8	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	8	8	6	7	2-3					FAIR-GOOD
PAWNEE	7	7	6	7	2-3					FAIR-GOOD
ROUNTREE	8	8	6	7	2-3					FAIR-GOOD
INDIANGRASS	7	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	7	7	6	7	1-3					FAIR
NEBRASKA 54	7	7	6	7	1-3					FAIR
OSAGE	7	7	6	7	1-3					FAIR
RUMSEY	7	7	6	7	1-3					FAIR
SWITCHGRASS	7	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	7	6	5	1-2					GOOD
CAVE-IN-ROCK	7	7	7	5	1-2					GOOD
PATHFINDER	7	7	6	5	1-2					GOOD
TRAILBLAZER	7	7	6	6	1-2					GOOD
COOL SEASON GRASSES										
ORCHARDGRASS	5	6	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	5	6	7	7	1-2					POOR
SMOOTH BROMEGRASS	6	6	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	6	6	7	7	1					FAIR
LINCOLN	6	6	7	7	1					FAIR
SOUTHLAND	6	6	7	7	1					FAIR
TALL FESCUE	4	6	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENHY	3	5	7	4	1					POOR
KENTUCKY 31	4	6	7	4	1					POOR
MISSOURI 96	4	6	7	4	1					POOR
WHEATGRASS										
WESTERN	7	7	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	7	7	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	6	7	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	5	6	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD

1_/ ADAPTABILITY - 0=NOT ADAPTED, 1-3=POOR, 4-6=FAIR, 7-9=GOOD; N=NORTH OF THE SMOKY HILL AND KANSAS RIVERS; S=ADAPTED IN SOUTHERN COUNTIES ONLY.

2_/ SPECIES PRODUCTIVITY - A POTENTIAL ANIMAL UNIT MONTH RATING FOR EACH CULTIVAR. THIS AUM FACTOR, FOR THE SPECIES, TIMES THE ADAPTABILITY FACTOR, DIVIDED BY 9, SHOULD GIVE A POTENTIAL AUM PRODUCTIVITY RATING OF THIS SPECIES OR CULTIVAR ON THIS GROUP.

3_/GRAZING PREFERENCE - SCALE 1 - 8, (1=POOR, 8=EXCELLENT).

4_/ STAND ESTABLISHMENT - NUMBERS = APPROXIMATE YEARS FOR ESTABLISHMENT.

5_/ FERTILIZER NEEDS - 0=NONE; 1=10-50 POUNDS OF N, 20-40 POUNDS OF P, 20-40 POUNDS OF K; 2=50-100 POUNDS OF N, 40-60 POUNDS OF P, 40-70 POUNDS OF K; 3=100+ POUNDS OF N, 60+ POUNDS OF P, 70+ POUNDS OF K. THE FIRST CATEGORY IS WHAT IS NEEDED TO MAINTAIN A HEALTHY STAND. THE SECOND CATEGORY IS THE HIGHEST AMOUNT EXPECTED TO GIVE A FAVORABLE RESPONSE ON DRYLAND. SOIL TEST RECOMMENDATIONS SHOULD ALWAYS BE USED ON IRRIGATED PASTURES AND OTHER INTENSIVELY MANAGED PASTURES.

6_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP A-9

(Sandy Bottomland)

Description: Deep, well drained or excessively drained soils with sandy surfaces and subsoils. Soils in this subgroup have sandy surfaces and occur on bottomlands and receive extra water from upland drainage.

Limitations: Choice of plants is limited by droughtiness and low fertility. Soil blowing may be extremely hazardous during establishment and early growth.

Soils: Sarpy sand, loamy fine sand, complex

Recommended Species: See chart on next page.

SPECIES	SPECIES ADAPTABILITY 1_/ DRYLAND	IRRIGATED	SPECIES PRODUCTIVITY 2_/	GRAZING PREFERENCE 3_/	STAND ESTABLISHMENT 4_/	FERTILIZER NEEDS 5_/ N	P	K	Ph RANGE 6_/	DROUGHT TOLERANCE
WARM SEASON GRASSES										
BIG BLUESTEM	7	7	5	7	2-3	0-1	0	0	6.0-7.5	FAIR-GOOD
KAW	7	7	6	7	2-3					FAIR-GOOD
PAWNEE	7	7	6	7	2-3					FAIR-GOOD
ROUNTREE	7	7	6	7	2-3					FAIR-GOOD
EASTERN GAMAGRASS	6	8	10	8	2-4	0-3	0-2	0-1	5.5-7.5	FAIR
INDIANGRASS	7	7	5	7	1-3	0-1	0	0	5.5-7.5	FAIR
CHEYENNE	7	7	6	7	1-3					FAIR
OSAGE	7	7	6	7	1-3					FAIR
RUMSEY	7	7	6	7	1-3					FAIR
PRAIRIE SANDREED	8	8	5	3	2-3	0-1	0-1	0-1	5.5-7.0	GOOD
GOSHEN	8	8	6	3	2-3					GOOD
SAND BLUESTEM	8	8	5	7	1-3	0-1	0-1	0-1	5.5-7.5	FAIR-GOOD
GARDEN	8	8	5	7	1-3					FAIR-GOOD
WOODWARD	8	8	6	7	1-3					FAIR-GOOD
SWITCHGRASS	7	7	5	5	1-2	0-2	0	0	5.5-8.0	GOOD
BLACKWELL	7	7	6	5	1-2					GOOD
CAVE-IN-ROCK	7	7	7	5	1-2					GOOD
PATHFINDER	7	7	6	5	1-2					GOOD
TRAILBLAZER	7	7	6	6	1-2					GOOD
COOL SEASON GRASSES										
ORCHARDGRASS	5	7	6	7	1-2	1-2	1-2	0-2	5.5-7.0	POOR
LATAR	5	7	7	7	1-2					POOR
SMOOTH BROMEGRASS	6	7	6	7	1	1-2	1-2	0-2	5.5-7.0	FAIR
ACHENBACH	6	7	7	7	1					FAIR
LINCOLN	6	7	7	7	1					FAIR
SOUTHLAND	6	7	7	7	1					FAIR
TALL FESCUE	5	7	6	4	1	1-2	1-2	0-2	6.2-7.0	POOR
KENHY	4	6	7	4	1					POOR
KENTUCKY 31	5	7	7	4	1					POOR
MISSOURI 96	5	7	7	4	1					POOR
WHEATGRASS										
WESTERN	6	7	4	5	1-3	0-1	0-1	0-1	6.5-8.5	GOOD
BARTON	6	7	5	5	1-3					GOOD
LEGUMES										
ALFALFA (STANDARD)	7	8	10	8	1	0-1	1-3	1-3	6.5-8.0	GOOD
(RHIZOMATOUS)	6	7	7	8	1-2	0-1	1-3	1-2	6.5-8.0	GOOD
SWEET CLOVER	6	7	7	7		0-1	0-2	1-2	6.5-8.0	FAIR

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5_/ Ph RANGE - LOW AND HIGH Ph RECOMMENDED FOR THE SPECIES.

SUITABILITY GROUP C-1

(Wet Loamy)

Description: Deep, somewhat poorly or poorly drained soils with loamy surfaces and loamy to clayey subsoils. Soils in this subgroup occur on floodplains and terraces which receive extra moisture from adjoining areas.

Limitations: Seasonal wetness during a portion of the growing season

Soils:
Bremer silty clay loam
Chase silty clay loam
Colo silt loam
Kimo silty clay loam, complex
Onawa silty clay loam, complex
Zook silty clay loam
Moscotah silty loam

Recommended Species: See chart on next page.