

INTERNAL DRAFT

Appendix K
Noxious Weeds

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Appendix K. Noxious Weeds

K.I NEW MEXICO NOXIOUS WEED LIST

This weed list, which originated from the New Mexico Department of Agriculture, was last updated in [September 2016](#) [July 2020](#) (New Mexico Department of Agriculture [20202016](#)). It categorizes species in Classes A, B, and C, depending on whether they are currently in New Mexico and to what degree.

K.I.1 Class A Species

Class A species are currently not present in New Mexico or have limited distribution. Preventing new infestations of these species and eradicating existing infestations is the highest priority.

Table K-1: Class A Noxious Weed Species

Common Name	Scientific Name
Alfombrilla	Drymaria arenarioides
Black henbane	<i>Hyoscyamus niger</i>
Brazilian egeria	Egeria densa
Camelthorn	<i>Alhagi psuedalhagi</i>
Canada thistle	<i>Cirsium arvense</i>
Dalmation toadflax	<i>Linaria dalmatica</i>
Diffuse knapweed	<i>Centaurea diffusa</i>
Dyer's woad	<i>Isatis tinctoria</i>
Giant salvinia	<i>Salvinia molesta</i>
Hoary cress	<i>Cardaria spp.</i>
Leafy spurge	<i>Euphorbia esula</i>
Oxeye daisy	<i>Leucanthemum vulgare</i>
Purple loosestrife	<i>Lythrum salicaria</i>
Purple starthistle	<i>Centaurea calcitrapa</i>
Ravenna grass	<i>Saccharum ravennae</i>
Scentless chamomile	<i>Matricaria perforata</i>
Scotch thistle	<i>Onopordum acanthium</i>
Spotted knapweed	<i>Centaurea biebersteinii</i>
Yellow starthistle	<i>C. solstitialis</i>
Yellow toadflax	<i>Linaria vulgaris</i>

[Source: New Mexico Department of Agriculture 2020](#)

K.I.2 Class B Species

Class B Species are limited to portions of the state. In areas with severe infestations, management should be designed to contain the infestation and stop any further spread.

Table K-2: Class B Noxious Weed Species

Common Name	Scientific Name
African rue	<i>Peganum harmala</i>
Bull thistle	<i>Cirsium vulgare</i>
Chicory	<i>Cichorium intybus</i>
Halogeton	<i>Halogeton glomeratus</i>
Malta starthistle	<i>Centaurea melitensis</i>
Perennial pepperweed	<i>Lepidium latifolium</i>
Poison hemlock	<i>Conium maculatum</i>
Quackgrass	<i>Elytrigia repens</i>

Common Name	Scientific Name
Russian knapweed	Acroptilon repens
Spiny cocklebur	<i>Xanthium spinosum</i>
Teasel	<i>Dipsacus fullonum</i>

Source: [New Mexico Department of Agriculture 2020](#)

K.1.3 Class C Species

Class C species are widespread in the state. Management decisions for these species should be determined at the local level, based on feasibility of control and level of infestation.

Table K-3: Class C Noxious Weed Species

Common Name	Scientific Name
Cheatgrass	<i>Bromus tectorum</i>
Curlyleaf pondweed	<i>Potamogeton crispus</i>
Eurasian watermilfoil	<i>Myriophyllum spicatum</i>
Giant cane	<i>Arundo donax</i>
Hydrilla	<i>Hydrilla verticillata</i>
Jointed goatgrass	<i>Aegilops cylindrica</i>
Musk thistle	<i>Carduus nutans</i>
Parrotfeather	<i>Myriophyllum aquaticum</i>
Russian knapweed	Acroptilon repens
Russian olive	<i>Elaeagnus angustifolia</i>
Saltcedar	<i>Tamarix</i> spp.
Siberian elm	<i>Ulmus pumila</i>
Tree of heaven	<i>Ailanthus altissima</i>

Source: [New Mexico Department of Agriculture 2020](#)

K.1.4 Watch List Species

Watch list species are species of concern in the state. These species have the potential to become problematic. More data are needed to determine if these species should be listed. When these species are encountered, their location should be documented and appropriate authorities should be contacted.

Table K-4: Watch List Species

Common Name	Scientific Name
Crimson fountaingrass	Pennisetum setaceum
Buffelgrass	Pennisetum ciliaris
Crimson fountaingrass	Pennisetum setaceum
Meadow knapweed	<i>Centaurea pratensis</i>
Myrtle spurge	<i>Euphorbia myrsinites</i>
Pampas grass	<i>Cortaderia sellonana</i>
Yellow bluestem	Bothriochloa ischaemum
Sahara mustard	Brassica tournefortii
Syrian beancaper	Zygophyllum fabago L.
Wall rocket	Diploaxis tenuifolia

Source: [New Mexico Department of Agriculture 2020](#)

K.2 NOXIOUS WEED CONTROL STANDARD OPERATING PROCEDURES

The BLM will follow the standard operating procedures found in [BLM](#) Instruction Memorandum NM-010-99-01 (Noxious Weed Prevention Schedule for the Albuquerque Field Office), listed below. Additionally, guidance from the Final Programmatic Environmental Impact Statement (PEIS) for Vegetation Treatments Using Herbicides on BLM Lands in 17 Western States (BLM 2007) and the Final PEIS for Vegetation

32 Treatments Using Aminopyralid, Fluroxypyr, and Rimsulfuron on BLM Lands in 17 Western States (BLM
33 2016) will be followed, along with guidance in BLM Handbook 1740-2, Integrated Vegetation Management
34 (BLM 2008):

- 35 • Ensure equipment involved in land-disturbing actions is clean of noxious weed seeds or propagative
36 parts prior to entry on-site. When work takes place in areas with noxious weeds, equipment should
37 be cleaned prior to moving off-site.
- 38 • Survey and inventory proposed work areas for noxious weeds; take reasonable measures to avoid
39 spread of noxious weeds found (e.g., cleaning equipment with pressure washers, stockpiling
40 overburden material for later treatment, avoiding driving through weed patches).
- 41 • The following noxious weeds have been identified as occurring on lands within the boundaries of
42 the Albuquerque Field Office (AFO):
 - 43 1. Russian knapweed (*Centaurea repens*)
 - 44 2. Musk thistle (*Carduus nutans*)
 - 45 3. Bull thistle (*Cirsium vulgare*)
 - 46 4. Canada thistle (*C. arvense*)
 - 47 5. Scotch thistle (*Onopordum acanthium*)
 - 48 6. Hoary cress (*Cardaria draba*)
 - 49 7. Perennial pepperweed (*Lepidium latifolium*)
 - 50 8. Halogeton (*Halogeton glomeratus*)
 - 51 9. Spotted knapweed (*Centaurea maculosa*)
 - 52 10. Dalmation toadflax (*Linaria genistifolia*)
 - 53 11. Yellow toadflax (*L. vulgaris*)
 - 54 12. Camelthorn (*Alhagi pseudalhagi*)
 - 55 13. Yellow starthistle (*Centaurea solstitialis*)
 - 56 14. Saltcedar (*Tamarix* spp.)
 - 57 15. Diffuse knapweed (*Centaurea diffusa*)
 - 58 16. Cheatgrass (*Bromus tectorum*)
 - 59 17. Tree of heaven (*Ailanthus altissima*)
 - 60 18. African rue (*Peganum harmala*)
- 61 • Use only certified weed free erosion control and revegetation materials (e.g., mulch, seed, and
62 natural fiber mats).
- 63 • If fill dirt or gravel will be required, the source needs to be free of noxious weeds.
- 64 • The site should be monitored for the life of the project for the presence of noxious weeds (includes
65 maintenance and construction activities). If weeds are found, the [AFO Field Office staff](#) will be
66 notified, and ~~the AFO they~~ will determine the best method for the control of the particular weed
67 species.
- 68 • Reclamation and revegetation of the work site will use species specified by the [Field Office staff AFO](#).
69 All seed shall be certified weed free. The area will be monitored to determine the success of the
70 revegetation, and revegetation will continue until successful.

71 **K.3 WEED PREVENTION SCHEDULE**72 **Table K-5: Weed Prevention Schedule**

Prevention Activity	When	Staff
Reestablish vegetation on all areas of soil disturbance. The RPFO will provide proper dates and the seeding mix to be used. Only certified weed free seed and mulch will be used in the reestablishment of vegetation. All reseeded sites should be monitored and the permit holder notified if spot reseeding is required.	All year	Lands and Minerals, Watershed, Engineering Teams
Include weed prevention and treatment in all mining plans of operation and reclamation plans. Retain bonds for weed control until the site is returned to vegetative conditions matching the surrounding area. Method of treatment for any infestations must be approved by the RPFO.	All year	Lands and Minerals Team
Require that all archaeological site excavations greater than 1/4 acre be reclaimed. The RPFO will provide dates of seeding and seed mix to be used. Seed must be certified weed free.	All year	Cultural Team

73 **K.4 RIO PUERCO FIELD OFFICE SEED MIXTURES**

74 The following seed mixtures, with allowable listed substitutions, will be recommended for use within the
 75 [AFO-RPFO](#) administrative area. All seed used in reclamation projects shall be certified noxious weed free
 76 prior to use. Annual rye is planted separately from the species mix and serves as only a once-planted cover
 77 crop to establish ground cover. The seed is sterile and will die off once other species become established.
 78 These mixes are subject to change based on site-specific conditions and best management practices
 79 determined by the specialists or authorized representative on approval.

80 **K.4.1 Grassland Vegetation Type (Sagebrush Draws)**81 **Table K-6: Seed Mix for the Grassland Vegetation Type**

Common Name	Variety	Drilled Rate	Broadcast Rate	Percent for Mix	Pounds per Acre
Alkali sacaton	Salado	0.5	1.0	15	0.2
Western wheatgrass	Arriba	8.0	17.0	25	4.3
Galleta	Viva	6.0	11.0	20	2.2
Blue grama	Lovington	1.5	2.5	25	0.6
Scarlet globemallow	N/A	4.0	8.0	5	0.4
Blue flax	Appar	8.0	16.0	10	1.6
Annual rye*	Gulf	4.0	8.0	100	8.0

82 *Annual rye grass is included as a [first-year](#) cover crop.

83 **K.4.2 Piñon-Juniper Vegetation Type**84 **Table K-7: Seed Mix for the Piñon-Juniper Vegetation Type**

Common Name	Variety	Drilled Rate	Broadcast Rate	Percent for Mix	Pounds per Acre
Mountain brome	Bromar	11.0	25.0	15	3.8
Western wheatgrass	Arriba	8.0	17.0	25	4.3
Galleta	Viva	6.0	11.0	20	2.2
Blue grama	Lovington	1.5	2.5	25	0.6
American vetch		4.0	8.0	5	0.4
Rocky Mountain penstemon	Bandera	3.0	6.0	10	0.6
Annual rye*	Gulf	4.0	8.0	100	8.0

85 *Annual rye grass is included as a [first-year](#) cover crop.

86 **K.4.3 High-High-Elevation-elevation Vegetation Type**87 **Table K-8: Seed Mix for the High Elevation Vegetation Type**

Common Name	Variety	Drilled Rate	Broadcast Rate	Percent for Mix	Pounds per Acre
Mountain brome	Bromar	11.0	25.0	15	3.8
Western wheatgrass	Arriba	8.0	17.0	25	4.3
Arizona fescue	Redondo	2.0	3.0	20	2.2
June grass	N/A	0.5	1.0	25	0.3
American vetch	N/A	4.0	8.0	5	0.4
Scarlet penstemon	N/A	3.0	6.0	10	0.6
Annual rye*	Gulf	4.0	8.0	100	8.0

88 *Annual rye grass is included as a first-year cover crop.

89 **K.4.4 Alternative Species for Consideration**90 **Table K-9: Alternative Species for Consideration**

Common Name	Scientific Name
Grass: Sand dropseed	<i>Sporobolus cryptandrus</i>
Forbs: Desert marigold	<i>Baileya multiradiata</i>
Rocky Mountain beeplant	<i>Cleome serrulata</i>
Purple coneflower	<i>Echinacea purpurea</i>
California poppy	<i>Eschscholtzia californica</i>
Annual sunflower	<i>Helianthus annuus</i>
Yellow evening primrose	<i>Oenothera biennis</i>
Purple prairie clover	<i>Petalostemum purpureum</i>
Prairie coneflower	<i>Ratibida columnaris</i>
Desert globemallow	<i>Sphaeralcea ambigua</i>
Purple verbena	<i>Verbena stricta</i>

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92 **K.5 REFERENCES**

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