

Arizona Planning Guide for Natural Resource Concerns

Soil Erosion - Wind

Resource Concern Description –
 Detachment and transport of soil particles caused by wind degrade soil quality and/or damage plants.



Planning Criteria – Land use and management do not cause accelerated wind erosion.

1. Wind erosion on cropland and pastureland does not exceed the established soil loss tolerance “T” for the soil.
2. On rangeland the soil site stability is slight to moderate or less.
3. On forestland the site is stable without visible signs of erosion.

Methods for evaluating resource condition

- Visual assessment (pedestals, blow-out areas)
- Rangeland Health Assessment
- Wind Erosion Prediction System (WEPS)

Conservation Practices that may be needed as part of a Conservation Management System to achieve Planning Criteria for this resource concern include those listed here.

- 314 Brush Management
- 327 Conservation Cover

- 328 Conservation Crop Rotation
- 340 Cover Crop
- 342 Critical Area Planting
- 588 Cross Wind Ridges
- 589C Cross Wind Trap Strips
- 324 Deep Tillage
- 382 Fence
- 386 Field Border
- 512 Forage and Biomass Planting
- 655 Forest Trails and Landings
- 666 Forest Stand Improvement
- 548 Grazing Land Mechanical Treatment
- 561 Heavy Use Area Protection
- 422 Hedgerow Planting
- 603 Herbaceous Wind Barriers
- 441 Irrigation System, Microirrigation
- 443 Irrigation System, Surface and Subsurface
- 447 Irrigation System, Tailwater Recovery
- 449 Irrigation Water Management
- 484 Mulching
- 528 Prescribed Grazing
- 550 Range Planting
- 562 Recreation Area Improvement
- 329 Residue and Tillage Management, No Till
- 345 Residue and Tillage Management, Reduced Till
- 557 Row Arrangement
- 610 Salinity and Sodic Soil Management
- 442 Sprinkler System
- 585 Stripcropping
- 609 Surface Roughening
- 612 Tree/Shrub Establishment
- 645 Wildlife Upland Habitat Management
- 380 Windbreak/Shelterbelt Establishm