Tornado & Wind

Information on weather-ready landscapes



WHAT IS IT?

Thunderstorms, tornadoes and severe wind storms are a common occurrence on the Plains causing damage to plants, trees, and structures. Storms can uproot trees, cause plant material to fall on other plant material, break or crack branches, etc. which reduce the lifespan, pest susceptibility, and vigor of the plant.

Average number of days per year this occurs, within a 25 mile radius of any point (1986-2015):

- 57 mph wind or greater: 6-7 days in SE Nebraska and 3-4 days in NW Nebraska
- Any tornado: 1.0 1.25 days in SW thru NE Nebraska and 0.50 days in NW Nebraska

Average number of tornadoes per year in Nebraska

O 54 (1985–2014)

Source: Storm Prediction Center



Typical Damage: Trees with multiple leaders or narrow branching angles are more prone to significant wind damage. Broken or cracked branches increase risk of breakage in future events, while branch stubs left in trees will rot and decay.

PREVENTATIVE ACTIONS

Inspect and maintain your plants to lessen storm damage.



Prune trees correctly when young (from 3 to 4 years after planting up to 10 to 15 years of age) so tree develops a strong branching pattern.

Plant trees, shrubs,

western Nebraska.



groundcovers, perennials and

adapted to USDA hardiness zone 5 in eastern Nebraska; Zone 4 in

ornamental grasses that are

2 Do not treat wounds with pruning paint/wound dressings.



Identify brittle or easily damaged plant material like willow, cottonwood which are more prone to damage from wind or tornado.



Remove any dead, damaged, or diseased tree branches as you see them at the branch collar. Do not leave stubs.



Select and plant trees with dense wood and strong branch angles that are less susceptible to breakage, consider slower growing trees over very fast growing trees

PREVENTATIVE ACTIONS

(continued)

Do not allow codominant Inspect root ball of trees Do not plant too deep. Trunk before purchasing. Avoid trunks to develop on shade taper needs to be visible above trees with pot bound roots and ground. trees. encircling or girdling roots. Stake correctly: low on tree and Monitor tree for signs of 1 🕻 🖡 for only one year. Use strong but decay: fungal growth on bark, flexible material. discolored wood, and large wounds. **CORRECTIVE ACTIONS** Use safety and patience when assessing damage. Remove any dead or damaged Allow leaves and blooms to Cut off broken or bent stems branches if you can do so safely. fall off the plant naturally, with a by-pass hand pruner just Consult an arborist for more extensive then rake them up and compost above a node pruning or tree removal. Remove them. branches at branch collar. Stubs should not be left. Remove trees that have been Small trees that bent over or Avoid fertilization until the uprooted, have trunk failure or leaning my be staked into an plant recovers. upright position. Larger trees more than 50% of branches are may best be removed for safety. broken. Keep soils around the plant evenly Mulch with wood chips to avoid Be patient. It could take several moist, not soggy or dry. weed competition and to moderate years before some plant species soil temperature and moisture show signs of damage. For more information, visit weather-ready.unl.edu/landscapes

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