

LANDIS-II Meeting notes from wind group
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Wind disturbance occurs at a range of scales (tornadoes->thunderstorms->Squall lines->Tropical storms). This notion of scale includes both the size of the disturbance and the length/duration of its track. Larger scale events can have smaller scale events embedded.

Damage to a stand from a wind event depends upon the magnitude/duration of the wind event, stand structure (age and species composition, density) and other environmental parameters (such as topography, soil type and precipitation, snow/ice loading).

Combining a method of creating wind fields for a wind event with a model for calculating tree damage would allow wind damage to be an emergent property of the simulation similar to how fire is handled. Damage could be simple (complete cohort removal) or use the biomass succession for partial cohort removal.

Wind disturbance would need ability to link to dynamic fuel module and possibly to the rules of the harvest module to allow for salvage logging.

Some interest in being able to prescribe specific wind events as well as stochastic events to allow examination of the long-term impact of specific events such as hurricane Katrina.