

Comparison of BehavePlus to Spatial Fire Behavior Systems

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System	Condition variation in time	Condition variation in space	Duration specification	Input	Modeling	Output	Computer access
BehavePlus fire modeling system	Constant	Uniform	Elapsed time for size or spread distance	Interactive user input; generally ranges of values	Separate, independent calculation for each cell of a table or point on a graph	Tables, graphs, simple diagrams	Personal computer
FlamMap fire mapping and analysis system— Basic fire behavior option	Constant	Variable across the landscape	No time duration in the modeling	Spatial (GIS) fuel and terrain data User-defined fuel moisture, weather, and wind	Separate, independent calculation for each point (pixel) on the landscape	Map of potential fire behavior for every point on the landscape	Personal computer
FlamMap fire mapping and analysis system— Minimum travel time and fuel treatment optimization options	Constant	Variable across the landscape	Total burning time (minutes)	Spatial (GIS) fuel and terrain data User-defined fuel moisture, weather, and wind Percentage of the landscape to treat and maximum treatment size	Minimum travel time based on numerous fire spread pathways	Map of minimum travel time pathways, arrival time contours. Fuel treatment placement recommendation	Personal computer
FARSITE fire area simulator	Vary diurnally and by day	Variable across the landscape	Hours/day of active burning Number of days for the simulation	Spatial (GIS) fuel, terrain, etc. data User-defined fuel moisture, weather, and wind	Fire growth simulation	Maps of fire growth, perimeter, intensity, etc.	Personal computer
FSPro fire spread probabilities	Vary by day	Variable across the landscape	Hours/day of active burning by fire danger class Number of days for the simulation	Spatial (GIS) fuel and terrain data Current fire perimeter Weather stations for fire danger and wind climatology	Fuel moisture and wind sequences from climatology Hundreds or thousands of fire growth simulations	Map of probability of the fire reaching each point by the end of the simulation period	'High end' computers with internet access by authorized analysts

From: Andrews, Patricia L. 2007. BehavePlus fire modeling system: past, present, and future. In: Proceedings, 7th conference on fire and forest meteorology; 1983 April 25-28; Fort Collins, CO. Boston, MA: American Meteorological Society: 18-21.