

### Scenario #3

#### Property Overview:

The Lupine property consist of 70 acres, all of which are productive forest aside from a small clearing for their home and barn >3 acres. Eastern hemlock provides the majority of the tree stocking especially along the eastern boundary of the property while the western side is primarily northern red oak, sugar maple, American beech and yellow birch. The landowner's main objective is to manage the forest for its timber value while also improving forest breeding bird habitat.

#### Landscape Context:

This property is in Charlotte VT in the Champlain Valley and young forest represents 15% of the surrounding landscape.

#### Stand Description:

The northern hardwoods in the western part of the property are in the large pole and sawtimber stage, with individual trees ranging from 12-18" DBH. The abundance of these mature trees have resulted in a relatively closed canopy that is starting to negatively affect crown health. The increased competition for resources has also reduced the vegetation in the midstory and understory canopy layers. Advance regeneration is absent save for a few canopy gaps caused by individual tree die off. Large diameter snags ( $\geq 18''$  DBH) and coarse woody debris ( $>3'$  in length and  $10''$  in diameter) are both lacking. There are roughly 135 trees per acre with a mean stand diameter of  $13.0''$  DBH.

Addressing landscape and stand-level habitat considerations as well as other landowner objectives, please draft a mock silvicultural prescription for this stand:

How does your mock prescription for this stand meet landowner objectives and benefit forest breeding bird species? Please list several forest birds that may benefit from the management you are proposing.