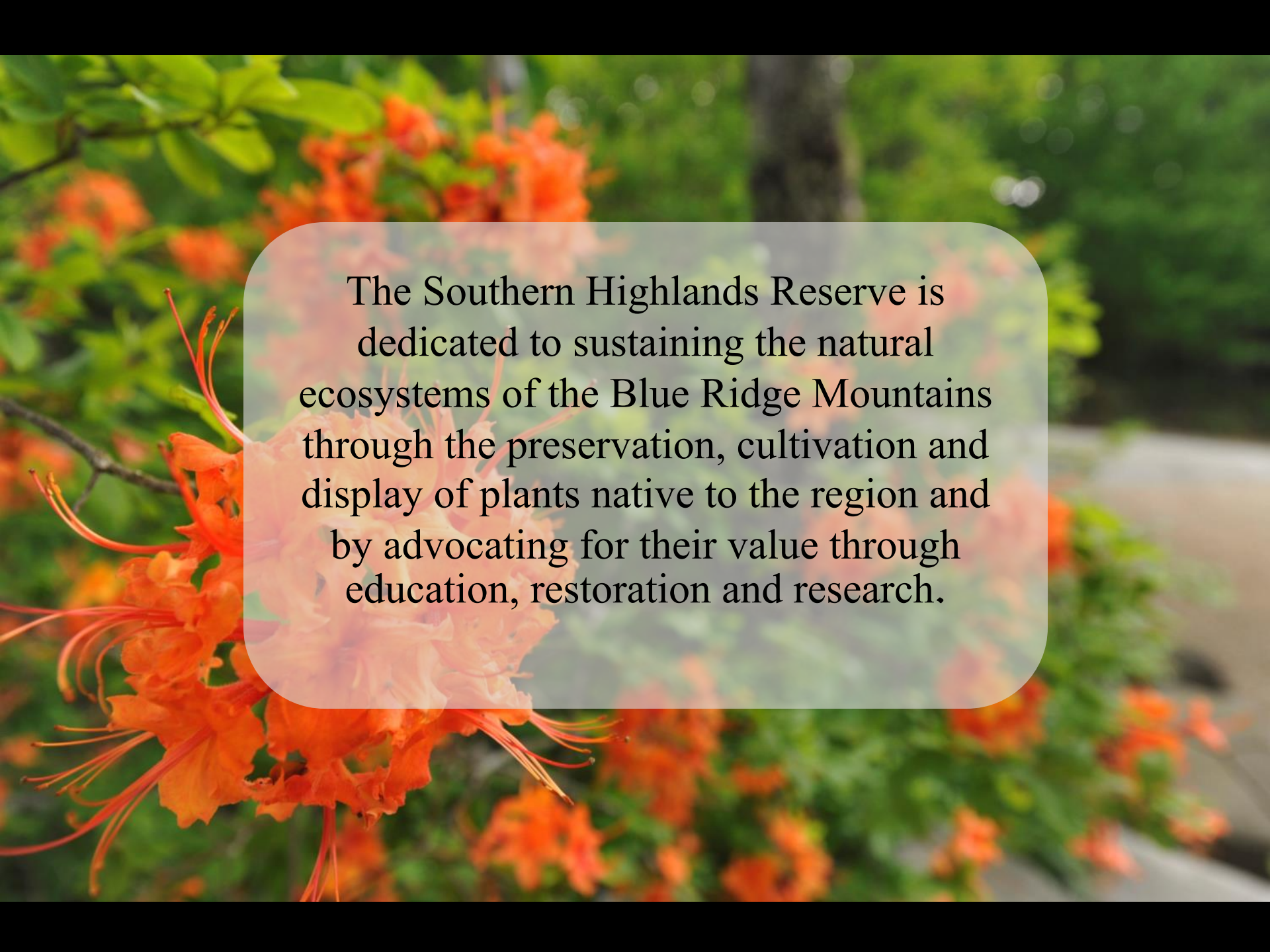




# SOUTHERN HIGHLANDS RESERVE

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Native Plant Arboretum | Research Center



The Southern Highlands Reserve is dedicated to sustaining the natural ecosystems of the Blue Ridge Mountains through the preservation, cultivation and display of plants native to the region and by advocating for their value through education, restoration and research.







# Greenhouse Materials Red Spruce Propagation

- Peat moss- seed germination- water retention properties
- Water soluble fertilizer- supplemental nutrients mainly during seedling stage
- Osmocote- nutrient slow release long lasting saves labor
- Superthrive- vitamin b/humate helps plant save energy and transplant shock, increases growth (size)
- Sand- drainage- loosens soil structure, ballast
- Pelletized & pulverized limestone- provides calcium & balances pH
- Sungro potting mix- used in 2" 32 Rootmaker trays for better water holding capacity
- Aged pine bark fines- screened to a smaller size- lighter than peat moss- best (industry standard) potting media
- Leonard complete- helps media mimic real mineral soil; amendment contains:
  - Mycorrhizae (endo & ecto)- increases growth/vigor, spruce benefit from
  - Humic acid- nutrient
  - Yucca plant extract- wetting agent for faster watering
  - Root promoting vitamins- increases root growth
  - Trichoderma fungo- nutrient uptake
  - Sea kelp- nutrient























Monitoring is conducted by SASRI  
partners

Three sites seedlings grown at SHR  
have been planted:

- Graham County
- Whigg Meadow
- Flat Laurel







# Stanley Smith Horticultural Trust











**Thank you!**

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