

5.4. Annual operating plan, Brown Tract. In order to develop a budget for management activities next year, the forest staff needs information regarding of the amount of land area that can be treated with various silvicultural treatments. Through conversations with them, the criteria have been narrowed down to the following:

[Perform these queries in a fashion similar to that described in Application 5.3]

Pre-commercial thinning candidate stands:

a) How many acres of even-aged stands are ≤ 20 years old and have ≥ 400 trees per acre?

Query: ([Age] ≤ 20) and ([Trees_acre] ≥ 400)

Result: 511.5 acres

Commercial thinning candidate stands:

b) How many acres of even-aged stands are ≥ 30 and ≤ 40 years old?

Query: ([Landalloc] = "Even-Aged") and ([Age] ≥ 30) and ([Age] ≤ 40)

Result: 207.6 acres

c) How many acres of even-aged stands are ≥ 30 and ≤ 40 years old, with ≥ 200 trees per acre?

Query: ([Landalloc] = "Even-Aged") and ([Age] ≥ 30) and ([Age] ≤ 40) and
([Trees_acre] ≥ 200)

Result: 192.1 acres

Final harvest candidate stands:

d) How many acres of even-aged stands are ≥ 45 years, ≤ 100 years, and have a board foot volume per acre $\geq 30,000$?

Query: ([Landalloc] = "Even-Aged") and ([Age] ≥ 45) and ([Age] ≤ 100) and
([Board_feet] ≥ 30000)

Result: 271.0 acres