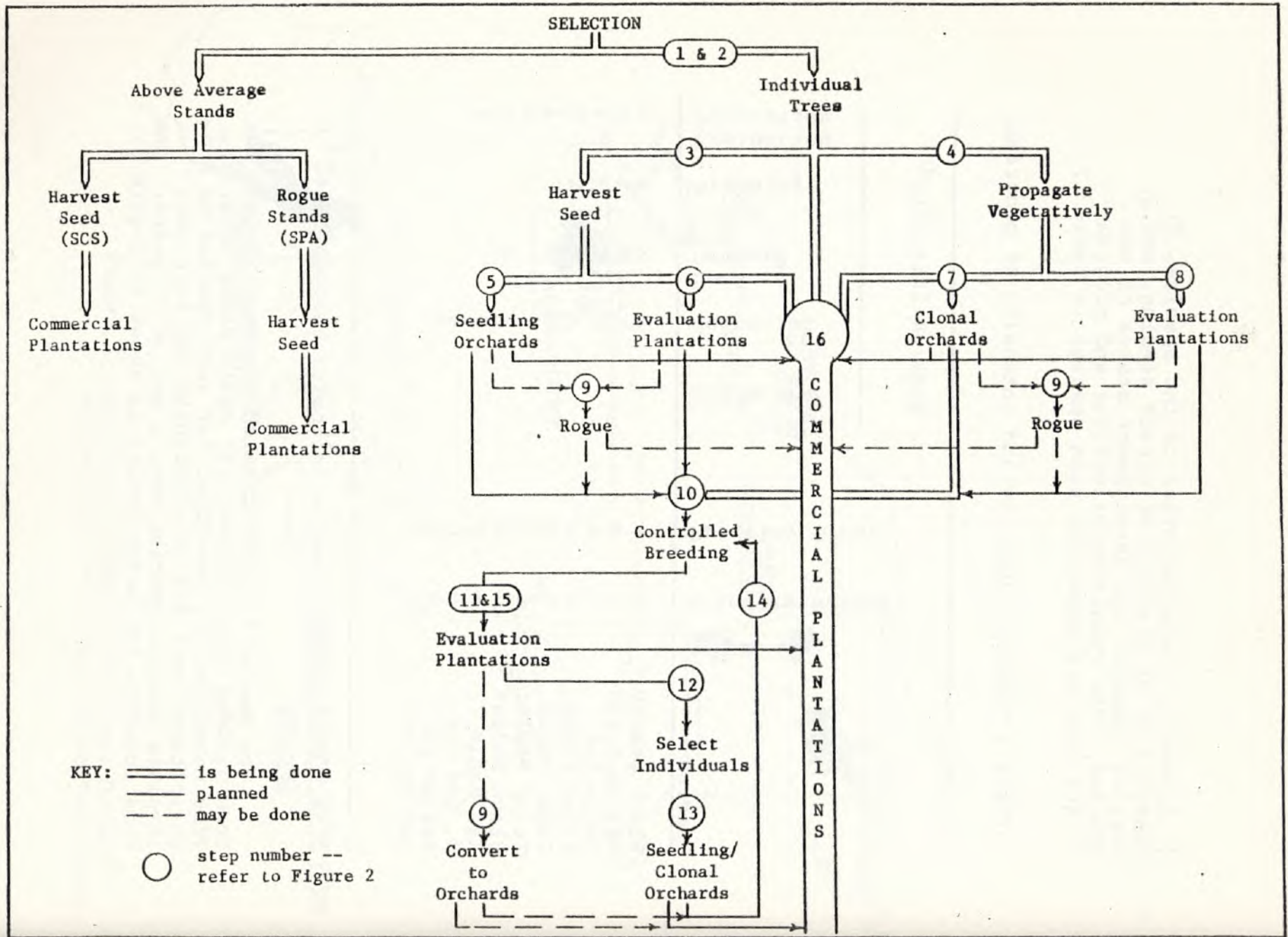


Figure 1.--Location of Eastern National Forests and boundaries of seed collection zones.



FORESTS: ALLEGHENY & MONONGAHELA SEED ZONES: 12 & 13

SPECIES: BLACK CHERRY

LOCATIONS OF SEED ORCHARDS AND EVALUATION PLANTATIONS: ALLEGHENY & MONONGAHELA

| STEP | DESCRIPTIONS | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 2000 | 01 | 02 | 03 | 04 | |
|------|--|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|------|----|----|----|----|--|
| 1 | Individual Tree Selections | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | Additional Selections as Required | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | Collect Half-Sib Seed (Steps 1 & 2 ^{1/2}) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | Propagate Vegetatively (Steps 1&2) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | Establish Seedling Seed Orchards (Step 3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | Establish Half-Sib Evaluation Plantations (Step 3) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | Establish Clonal Seed Orchards (Step 4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | Establish Clonal Evaluation Plantations (Step 4) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | Rogue Seed Orchards or Evaluation Plantations (Steps 5, 6, 7 & 8) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | Controlled Breeding (Steps 5,6,7,8&9) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | Establish Full-Sib Evaluation Plantations (Step 10) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | Select Individuals in Evaluation Plantations (F ₁ , F ₂ , etc.) (Step 11) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 13 | Establish Advanced Generation Orchards (Step 12) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 14 | Controlled Breeding (Steps 12 & 13) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 15 | Establish Advanced Generation Full-Sib Evaluation Plantations (Step 14) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 16 | Establish Commercial Plantations with Improved Seed (Steps 3-9 & 11,13&15) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

¹The numbers in parentheses refer to previous steps that this action is dependent on.

Figure 3.--Black cherry tree improvement time schedule.

