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| Point Sampling Inventories: Concept |
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| In point inventories, trees are sampled based on their size <br> and not by how often they occur. |
| Points are located as part of a cruise <br> and a fixed angle tool is used to look <br> at the tree's DBH to determine <br> whether a tree is in or out of the plot. |
| Notes: |
| - The smaller the angle, more stems will be included |
| - Larger trees are more likely to be included in the cruise |
| - No need to set up plot corners: fast cruising method |

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## Point Sampling Inventories: Concept

In fixed area plots it was easy to scale the plot measure to an acre measure i.e. multiply the values by the reciprocal of the plot size:
e.g., For $10^{\text {th }}$ acre plot: trees in plot $\times 10=$ trees per acre
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This multiplication (or expansion factor) is called the Basal Area Factor (BAF), where \# of trees $X$ BAF = BA per acre. $\qquad$
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## Point Sampling Inventories: Application

Step 2. Plot Radius Factor
The Plot Radius Factor (PRF) allows us to calculate for a given BAF the maximum distance (or limiting distance) that a tree can be from the point to be IN.
DBH (inches) $\times$ PRF $=$ Maximum Distance from Point (feet)

| BAF <br> (ft $2 /$ /acre) | Angle size <br> $(\mathbf{m m})$ | Angle size <br> (diopters) | Ratio (DBH/plot <br> radius) | Plot Radius <br> Factor (PRF) |
| :---: | :---: | :---: | :---: | :---: |
| $\mathbf{5}$ | 73.66 | 2.14 | $1 / 46.7$ | 3.899 |
| $\mathbf{1 0}$ | 104.18 | 3.3 | $1 / 33.0$ | 2.750 |
| $\mathbf{1 5}$ | 127.59 | 3.71 | $1 / 26.9$ | 2.245 |
| $\mathbf{2 0}$ | 147.34 | 4.29 | $1 / 23.3$ | 1.944 |
| $\mathbf{2 5}$ | 164.73 | 4.79 | $1 / 20.9$ | 1.739 |
| $\mathbf{3 0}$ | 180.46 | 5.25 | $1 / 19.0$ | 1.588 |
| $\mathbf{3 5}$ | 194.92 | 5.67 | $1 / 17.6$ | 1.470 |
| $\mathbf{4 0}$ | 20.38 | 6.07 | $1 / 16.5$ | 1.375 |
| $\mathbf{5 0}$ | 232.99 | 6.79 | $1 / 14.8$ | 1.230 |
| $\mathbf{6 0}$ | 255.23 | 7.44 | $1 / 13.5$ | 1.123 |


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