FOREST SERVICE HANDBOOK PACIFIC SOUTHWEST REGION (R5) VALLEJO, CALIFORNIA

FSH 2409.12 - TIMBER CRUISING HANDBOOK

CHAPTER 30 - CRUISING SYSTEMS

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Approved: Randy Moore, Regional Forester

Date Approved: 3/3/2021

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Digest:

Conducted periodic review and edited for 508 compliancy.

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35 - POINT SAMPLING.

35.22a - Assessing Borderline and Other Questionable Trees

Use exhibit 01 to determine the Plot Radius Factor (PRF).

35.22a - Exhibit 01- Basal Area Factor (BAF) and Plot Radius Factor (PRF)

BAF	PRF to Face	BAF	PRF to Center
5	3.875	5	3.889
10	2.708	10	2.750
15	2.203	15	2.245
20	1.902	20	1.944
25	1.697	25	1.739
30	1.546	30	1.588
40	1.333	40	1.375
50	1.188	50	1.230
60	1.081	60	1.123
70	0.997	70	1.039
Null	Null	75.631/	1000
80	0.930		0.972

To calculate other PRF's:

$$PRF(Center) = \frac{8.696}{\sqrt{BAF}}$$

$$PRF\ (Face)\ =\ PRF\ (Center)\ -\ 0.042$$

1/ 75.62 BAF is used as a one-to-one relationship in determining a diameter outside bark on a tree stem using the Relaskop. Refer to R-5 section 13.13a for instructions.