CONVERSIONS FOR SITE INDEX SYSTEMS
USED IN THE NORTH COAST OF CALIFORNIA

by

Keitlyn Watson, Bruce Krumland and Lee C. Wensel

In March of 1978, the Advisory Panel endorsed the 50
year base age site curves of Krumland and Wensel (1977) for
redwood and King (1961) for Douglas fir as the site index
systems to use in growth and yield modeling efforts.

There is still some confusion, however, as to proper
conversions between the older, 100 year base age systems
still in use in this region, such as those of McArdle (1949)
and Lindquist and Palley (1961), and the 50 year base age
systems mentioned above. Part of this problem stems from
the varying methods of curve construction, the difference in
stand components used in classification and the fact that
site index equivalences vary with age.

While uniform conversions would require age as an
access variable, an approximate, age independent conversion
table was prepared. Conversions were based on ages over 50
as site index equivalences between systems are fairly stable
in this age range. Table 1 was prepared using the tables
and conversion equations found in Research Note No. 5 and
Table 1 of Technical Bulletin #201 (McArdle 1961). McArdle's site classes were converted to King's site classes
by interpolation using Table 3 in Research Note 5. The fol-
lowing equation, found in Research Note 5, was used to con-
vert from King's Douglas Fir site classes to Krumland and
Wensel site classes.

\[
\text{Redwood Site} = 46.5 + 0.465(\text{Douglas Fir Site})
\]

Table 2 in Research Note 5 was used to obtain estimates of
Lindquist and Palley's site classes. For more accurate esti-
mates, see Research Note No. 5.

Revised March 27, 1979. Errors in Table 1 were
corrected.
Table 1

Corresponding site indices under different systems, for each site class.

<table>
<thead>
<tr>
<th>Site Class</th>
<th>DOUGLAS FIR</th>
<th>REDWOOD</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bull. 201 (100 yr base)</td>
<td>King (50 yr base)</td>
</tr>
<tr>
<td>I</td>
<td>185-215</td>
<td>145-165</td>
</tr>
<tr>
<td>II</td>
<td>155-185</td>
<td>120-145</td>
</tr>
<tr>
<td>III</td>
<td>125-155</td>
<td>95-120</td>
</tr>
<tr>
<td>IV</td>
<td>95-125</td>
<td>75-95</td>
</tr>
<tr>
<td>V</td>
<td>75-95</td>
<td>&lt;75</td>
</tr>
</tbody>
</table>

Literature Cited

