



CALCULATION CARD FOR SILVICULTURE SURVEY CONFIDENCE LIMITS

OPENING NUMBER		
STRATUM NUMBER OR LETTER		
AREA		ha
n = NUMBER OF PLOTS		
\bar{X} = AVERAGE trees/ha	\bar{X} = \bar{X} x pm = tr/ha <input type="checkbox"/> Well Spaced <input type="checkbox"/> Free Growing	\bar{X} = \bar{X} x pm = tr/ha <input type="checkbox"/> Well Spaced <input type="checkbox"/> Free Growing
S = STANDARD DEVIATION		
STANDARD ERROR $S_{\bar{X}} = S/\sqrt{n}$		
t Value t_{90} for n-1 See FS660		
CONFIDENCE INTERVAL for t_{90} $CI_{90} = S_{\bar{X}} \times t$	$CI_{90} =$ CI_{90} x pm = tr/ha	$CI_{90} =$ CI_{90} x pm = tr/ha
LOWER CONFIDENCE LIMIT $LCL = \bar{X} - CI_{90}$	LCL = LCL x pm = tr/ha	LCL = LCL x pm = tr/ha
MSS p+a trees/ha		tr/ha
Desired Precision if $\bar{X} \leq 1000$ tr/ha e = 0.5 or, if $\bar{X} > 1000$ tr/ha e = 0.1 x \bar{X}	e = e x pm = tr/ha	e = e x pm = tr/ha
New n = $\left[\frac{t \times s}{e} \right]^2$	n = plots	n = plots New n - n = number of additional plots to max. of 1.5 x Area.
RECOMMEN- DATION		