

**Administrative Order
No. 12
April 01, 1992**

**SUBJECT : Annual Allowable Cut Computation And
Tree Marking Goal Determination In The
Second Growth Dipterocarp Forests**

In view of the government's policy to shift logging operations from the virgin forests to the second growth forests, and in order to promote the sustainable management of our forests, the formula for computing the annual allowable cut is hereby revised and tree marking goal for residual stocking is hereby prescribed.

Sec. 1. Allowable Cut Formula. In determining the annual allowable cut in the second growth dipterocarp forests, the following formula shall be used:

$$AAC = ACA \times Vr \times f;$$

$$ACA = Ar$$

cc

where:

AAC = Annual allowable cut in cubic meters

ACA = Annual cutting area in hectares

Ar = Total area of operable second growth forests,
net of areas above 1,000 meters in elevation
and 50% and over in slope, in hectares

Vr = Harvestable volume in cubic meters per hectare in the operable second
growth forests to be determined based on the following equation:

Vr = 50% of the volume in the 60 cm dbh/dab + 100% of 70% cm and up for all
areas except Palawan and Region 8 where the percentages shall apply to
the 50 cm dbh and 60 cm and over, respectively.

f = 0.70 initial reduction factor to compensate for logging inefficiency, internal
defects, and to allow for deficiency in attaining a satisfactory residual stand.
This factor may be changed if a more efficient and less destructive
yarding/skidding systems used as determined through studies that may be
conducted by a multi-disciplinary group.

cc = Cutting cycle of 35 years in all areas except Palawan where the cutting cycle is 45 years.

Sec. 2. Area and volume controls. The allowable cut shall be deemed exhausted when either the area limit (ACA) or the volume limit (AAC) has been reached. In which case, further cutting shall be immediately stopped.

Sec. 3. Minimum Harvestable Volume. In order that a TLA can qualify for logging operation, it must have a minimum utilizable volume as indicated in the approved Timber Management Plan adjusted to 25 years, or 67 cu.m. per hectare whichever is lower, except in Palawan and Region 8. In the case of the latter areas, the extractable volume as projected from the submitted 5 year TMP for a particular concession, the minimum project volume is the TMP, or 60 cu.m. per hectare minimum volume whichever is lower, shall be used. In cases where there is no approved TMP of the nearest TLA shall apply, provided that in cases where there are more than one (1) TLA nearest/adjacent to the concession, the lowest minimum volume shall apply.

Sec. 4. Determination of tree marking goal. To determine the tree marking goal (MG) for residual stock by diameter class, the following formula shall be used:

MG = 0.70 of trees 20 cm dbh

+0.75 of trees 30 cm dbh

+0.80 of trees 40 cm dbh; .85 in the case of Palawan and Region 8

+0.85 of trees 50 cm dbh; .50 in the case of Palawan and Region 8

+0.50 of trees 60 cm dbh

Sec. 5. Supervision. The implementation of this activity including the actual tree marking shall be strictly supervised by the Timber Management Assistant (TMA) and the Timber Management Officer (TMO) assigned in a particular concession area.

Sec. 6. Submission of Report. Tree marking reports shall be properly reviewed by the concerned ENR Officer and the same shall be submitted within one (1) week after its completion to the Regional Executive Director (RED) concerned

thru channels copy furnished the Undersecretary for Field Operations and the Director, Forest Management Bureau. The TMO, TMA, and the CENRO, PENRO, RTD for Forestry and the RED concerned shall be held accountable in case of erroneous reporting and inadequate DENR supervision in logging operations within their jurisdiction.

Sec. 7. Effectivity. This Order takes effect immediately and supersedes DAO No. 02, Series of 1992, and all other orders, memoranda and circulars inconsistent herewith.

RICARDO M. UMALI
OIC, Secretary