

**CORRECTIONS & CLARIFICATIONS** 

# CORRECTIONS TO VM0045 IMPROVED FOREST MANAGEMENT USING DYNAMIC MATCHED BASELINES FROM NATIONAL FOREST INVENTORIES, V1.1

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This document provides corrections applicable to VM0045 Improved Forest Management using Dynamic Matched Baselines from National Forest Inventories, v1.1. Such corrections are effective on their issuance date. Project proponents and validation/verification bodies (VVBs) shall apply and interpret VM0045, v1.1 consistent with the corrections set out in this document.

Correction/ Clarification	Description	Document and Section Reference	Effective Date
Correction 1	Added missing parenthesis	Section 8.4, Equation 30	Effective immediately
Correction 2	Added missing parenthesis	Section 8.4, Equation 31	Effective immediately
Correction 3	Added missing mean stock change and multiplied by area to arrive at the unit tCO <sub>2</sub> e	Section 8.6, Equations 33 and 34	Effective immediately

These updates will be incorporated into the next issued version of the methodology.



## **CORRECTION 1**

Correction:

$$\overline{ER_t} = I(\Delta CO2_{wp}) \times \frac{1}{n} \times \sum_{i=1}^n (-PE_{i,t} - MIN(0, \Delta CO2_{bsl,i,t}) + MIN(0, \Delta CO2_{wp,i,t})) + (1) - I(\Delta CO2_{wp})) \times \frac{1}{n} \times \sum_{i=1}^n (PE_{i,t} - BE_{i,t} - MIN(0, \Delta CO2_{bsl,i,t}) + MIN(0, \Delta CO2_{wp,i,t}) + MAX(0, \Delta CO2_{wp,i,t}) - MAX(0, \Delta CO2_{bsl,i,t}))$$

$$(1)$$

#### Background:

In the original equation, a closing parenthesis was missing, which is necessary to conclude the second summation over n.

# **CORRECTION 2**

#### Correction:

$$\overline{CR_t} = I(\Delta CO2_{wp}) \times \frac{1}{n} \times \sum_{i=1}^{n} (MAX(0, \Delta CO2_{wp,i,t}) - MAX(0, \Delta CO2_{bsl,i,t}))$$
(2)

## Background:

In the original equation, a closing parenthesis was missing, which is necessary to conclude the second summation over n.

## **CORRECTION 3**

Correction:

$$Bu_{CR,t} = I(\Delta CO2_{wp}) \times A_t \times \frac{1}{n} \times \sum_{i=1}^{n} (MAX(0, \Delta CO2_{wp,i,t}) - MAX(0, \Delta CO2_{bsl,i,t})) \times NPR\%$$
(3)

Where:

$$I(\Delta CO2_{wp}) = 1 \text{ if } \sum_{i=1}^{n} \sum_{j=1}^{t} \Delta CO2_{wp,i,j} > 0 \text{ and};$$
$$I(\Delta CO2_{wp}) = 0 \text{ if } \sum_{i=1}^{n} \sum_{j=1}^{t} \Delta CO2_{wp,i,j} \le 0$$



Bu <sub>CR,t</sub>	=	Buffer credits to be deducted from removals in year $t$ (t CO <sub>2</sub> e)
At	=	Project area in year t (unit area)
n	=	Number of sample units in which stock change values are available for both the project and baseline scenarios
$\Delta CO2_{wp,i,t}$	=	Carbon stock change in the project scenario at sample unit <i>i</i> in year <i>t</i> (t CO <sub>2</sub> e/unit area/year)
$\Delta CO2_{bsl,i,t}$	=	Carbon stock change in the baseline scenario in composite baseline <i>i</i> in year $t$ (t CO <sub>2</sub> e/unit area/year)
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$$Bu_{ER,t} = I(\Delta CO2_{wp}) \times A_t \times \frac{1}{n}$$

$$\times \sum_{i=1}^{n} (MAX(0, \Delta CO2_{wp,i,t}) - MAX(0, \Delta CO2_{bsl,i,t})) \times NPR\%$$

$$+ (1 - I(\Delta CO2_{wp}))$$

$$\times A_t \times \frac{1}{n} \times \sum_{i=1}^{n} (MIN(0, \Delta CO2_{wp,i,t}) - MIN(0, \Delta CO2_{bsl,i,t}))$$

$$+ MAX(0, \Delta CO2_{wp,i,t}) - MAX(0, \Delta CO2_{bsl,i,t})) \times NPR\%$$
(4)

Where:

$$I(\Delta CO2_{wp}) = 1$$
 if  $\sum_{i=1}^{n} \sum_{j=1}^{t} \Delta CO2_{wp,i,j} > 0$  and;

1

$$I(\Delta CO2_{wp}) = 0 \text{ if } \sum_{i=1}^{n} \sum_{j=1}^{t} \Delta CO2_{wp,i,j} \le 0$$

BUER,t	=	Buffer credits to be deducted from reductions in year $t$ (t CO <sub>2</sub> e)
At	=	Project area in year t (unit area)
n	=	Number of sample units in which stock change values are available for both
		the project and baseline scenarios
$\Delta CO2_{wp,i,t}$	=	Carbon stock change in the project scenario at sample unit <i>i</i> in year <i>t</i>
		(t CO <sub>2</sub> e/unit area/year)
$\Delta CO2_{bsl,i,t}$	=	Carbon stock change in the baseline scenario in composite baseline <i>i</i> in
		year t (t CO <sub>2</sub> e/unit area/year)
NPR%	=	Overall project non-permanence risk rating converted to a percentage
		(percent)

## Background:

The original Equations 33 and 34 did not include the mean carbon stock change across the sample units or multiplication by the project area to obtain the result as  $tCO_2e$ .