

Air Resources Board (November 28, 2016)
Supplemental Information on Natural and Working Lands

See also "ARB Natural and Working Lands Inventory" presentation slides posted at AB 32 Scoping Plan Public Workshop (November 7, 2016) available at <https://www.arb.ca.gov/cc/scopingplan/meetings/meetings.htm>

Table 1. 2001 - 2010 Change in Land Carbon Stocks

ecosystem budget sign convention: gains (+), losses (-)

IPCC Land Category	Category Code	IPCC Category	10 ⁶ Metric Tons Carbon (MMT C)	
			Above-Ground Live (AGL)	Live & Dead (Total ¹)
3B1 Forest Land ²	3B1a	Forest Land remaining Forest Land	17.50	-16.85
	3B1bi	Cropland converted to Forest Land	TBD	TBD
	3B1bii	Grassland converted to Forest Land	0.38	3.45
	3B1biii	Wetlands converted to Forest Land	0.89	4.19
	3B1biv	Settlements converted to Forest Land		
	3B1bv	Other Land converted to Forest Land	0.01	-0.07
		<i>subtotal</i>	18.78	-9.27
3B2 Cropland	3B2a	Cropland remaining Cropland	TBD	TBD
	3B2bi	Forest Land converted to Cropland	-1.54	-7.54
	3B2bii	Grassland converted to Cropland	-0.11	-0.19
	3B2biii	Wetlands converted to Cropland	-0.05	0.12
	3B2biv	Settlements converted to Cropland		
	3B2bv	Other Land converted to Cropland	0.00	0.02
		<i>subtotal</i>	-1.70	-7.59
3B3 Grassland	3B3a	Grassland remaining Grassland	0.34	1.75
	3B3bi	Forest Land converted to Grassland	-35.44	-112.49
	3B3bii	Cropland converted to Grassland	TBD	TBD
	3B3biii	Wetlands converted to Grassland	0.03	0.14
	3B3biv	Settlements converted to Grassland		
	3B3bv	Other Land converted to Grassland	0.00	0.00
		<i>subtotal</i>	-35.07	-110.60
3B4 Wetlands	3B4ai	Peatlands remaining Peatlands		
	3B4aii	Flooded Land remaining Flooded Land	0.00	0.00
	3B4bi	Land converted for Peat Extraction		
	3B4bii	Land Converted to Flooded Land		
	3B4biii	Land Converted to Other Wetland	0.00	-0.01
		<i>subtotal</i>	0.00	-0.01
3B5 Settlements	3B5a	Settlements remaining Settlements	TBD	TBD
	3B5bi	Forest Land converted to Settlements	-0.11	-0.52
	3B5bii	Cropland converted to Settlements	TBD	TBD
	3B5biii	Grassland converted to Settlements	-0.01	-0.02
	3B5biv	Wetlands converted to Settlements	0.00	0.03
	3B5bv	Other Land converted to Settlements	0.00	0.00
		<i>subtotal</i>	-0.13	-0.51
3B6 Other Land ³	3B6a	Other Land remaining Other Land	0.01	0.03
	3B6bi	Forest Land converted to Other Land	-4.65	-22.46
	3B6bii	Cropland converted to Other Land	TBD	TBD
	3B6biii	Grassland converted to Other Land	-0.02	-0.09
	3B6biv	Wetlands converted to Other Land	0.00	-0.01
	3B6bv	Settlements converted to Other Land		
		<i>subtotal</i>	-4.66	-22.54
		<i>sum MMT C⁴</i>	-22.8	-150.5
		<i>MMT C/yr</i>	-2.5	-16.7

¹Includes Above-Ground Live (AGL) and Below-Ground Live, Standing Dead, Dead Down, Litter, Understory, Shrub, Grass/Herbaceous - Not including soil.

²IPCC definition of Forest Land includes land dominated by shrubs. AGL stock-change includes 6% stock increase associated with tree growth in 2001-2010, from FIA data (growth not detected by satellite).

³IPCC definition of Other Land includes sparsely vegetated, barren, rock/ice, and lands that do not fall within the other five categories.

⁴Does not account for carbon persisting in wood products.

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Table 2. Stock-change Attribution, 2001 - 2010

Note: Quantities reported here are subsumed within the stock changes reported in Table 1 and are not additive. Provided for informational purposes only.

Category Code		<u>10⁶ Metric Tons Carbon (MMT C)</u>	
		<u>Carbon Pools</u>	
		Above-Ground Live (AGL)	Live & Dead (Total ¹)
3C1	Biomass Burning <i>Forest Land (3C1a)², Grassland (3C1c), and Other Land (3C1d)</i>	-43.6	-123.0
3D1	Wood Harvest <i>Harvest, Thinning, and Clearcut</i>		
	<i>gross stock-change</i>	-10.4	
	<i>net stock-change³</i>	-2.7	

¹ Includes Above- and Below-ground Live, Standing Dead, Dead Down, Litter, Understory, Shrub, Grass/Herbaceous - Not including soil.

² IPCC definition of Forest Land includes land dominated by shrubs. Other Land includes sparsely vegetated, barren, rock/ice, and lands that do not fall within the other five IPCC land categories.

³ Accounts for estimated 7.6 MMT post-harvest carbon persisting in wood products.