

Annexe A1: San Rafael Project Area (La Amistad) - Projected emissions: baseline (no project) and “with project”.

A. No-Project scenario

	Area (Ha)				Note	tCO2e/ha		Note	tCO2e total	
	1997	2009	Change/yr	2030		2009	2030		2009	2030
Stratum										
High Forest	661	299	-30	15	1	961	481	1	287351	7184
Low Forest	65	50	-1	50		481	481		24026	24026
Secondary Forest	0	0	0	0	2	481	481		0	0
Reforestation	0	0	0	0			258		0	0
Agriculture	0	344	29	628		153	153		52602	96038
Grassland	457	490	3	490		110	110		53905	53905
Total	1183	1183		1183					417884	181152
Net change (negative = emissions)										-236732

Note

- 1 - assumes 5% degraded high forest relict in area.
- 2 - Degradation not taken into account - i.e. clearance assumed to be directly from high forest to agriculture.

B. With-project scenario

	Area (Ha)				Note	tCO2e/ha		Note	tCO2e total	
	1997	2009	Change/yr	2030		2009	2030		2009	2030
Stratum										
High Forest	661	299	-1	275	1	961	961	1	287351	264286
Low Forest	65	50	-1	50	2	481	481		24026	24026
Secondary Forest	0	0	0	0		481	481		0	0
Reforestation	0	0	0	10	3		258	3	0	2580
Agriculture	0	344	29	358		153	153		52602	54743
Grassland	457	490	3	490		110	110		53905	53905
Total	1183	1183		1183					417884	399540
Net change (negative = emissions)										-18344

Note

- 1 - assumes 90% take-up of PES and sustainable management system (i.e. arrests degradation but no growth increment)
- 2 - assumes low forest loss arrested
- 3 - Assumes reforestation option on 10 ha with 20 year growth increment - but not qualifying on permanence criteria

C. Net Project Benefits (tCO2e delivery)

tCO2 benefit										218388
Reforestation deduction										2580
Net tCO2 e benefit										215808
Risk Buffer					1					43162
tCO2 benefit net of leakage										172646
Leakage deduction					2					17265
Attributable benefit (VCUs)										155382

Note

- 1 - 20% i.e. medium risk rating applied.
- 2 - 10% i.e. low risk rating applied to net after risk buffer