

**APPENDIX OF THE PROJECT DESIGN DOCUMENT FORM
FOR AFFORESTATION AND REFORESTATION PROJECT ACTIVITIES (CDM-AR-PDD) - Version 01**

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Table 1b: Timber parameters of indemnified concessions

vegetation Code	vegetation type (PLUS)	Moira		Paragua I		El Paso		El Chore	
		Area before indemnification [ha]	Area affected by indemnification [ha]	Area before indemnification [ha]	Area affected by indemnification [ha]	Area before indemnification [ha]	Area affected by indemnification [ha]	Area before indemnification [ha]	Area affected by indemnification [ha]
B/a/v	Bosque alto siempreverde	29,814	27,333						
B/a/v-1	Bosque alto siempreverde en laderas	23,613	22,468	4,767	4,767	71,196	71,196	53,306	35,363
B/b/d	Bosque bajo decíduo	3,041							
B/b/s	Bosque bajo semi-siempreverde	3,388	3,388	7,046	7,046				
B/b/s-1	Bosque bajo semi-siempreverde en laderas	4,821	4,821					10,426	10,426
B/m/d-1	Bosque mediano decíduo en laderas	13,748							
B/m/s	Bosque mediano semi-siempreverde	149,328	39,982	35,271	27,035	18,190	17,347		
B/m/s-1	Bosque mediano semi-siempreverde en laderas	62,870	25,520	8,341	5,588	116,956	116,955	27,960	27,954
B/m/v	Bosque mediano siempreverde	48,089	39,854	14,417	7,122	16,953	14,008	48,485	45,757
B/m/v-1	Bosque mediano siempreverde en laderas	89,895		33,899				1,593	14
Bm/b/s	Bosque montano bajo semi-siempreverde							9,423	
Bm/m/s	Bosque montano mediano semi-siempreverde							5,422	
Bm/m/v-1	Bosque montano mediano semi-siempreverde en laderas							5,863	
Br/m/s	Bosque ribereño mediano semi-siempreverde	3,779	73	15,415	7,651				
Br/m/v	Bosque ribereño mediano siempreverde	16,651	11,814	1,490	1,043	3,935	2,703	7,458	4,849
L	Lagunas								

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Pz	Pastizal	1,898	358	2,908	2,908				
Sa	Sabana	3,780	917						
Sma-l	Sabana montana arbolada en laderas	75,187	10,618	31,854	8,357	34,513	16,807	31,891	27,982
VI	Vegetación cerca lagunas							10,599	
	Total	531,097	187,554	155,409	71,516	261,744	239,017	212,426	152,345
	Productive forest area: medio (ha)	363,930	105,356	91,929	39,745	152,099	148,311	78,038	73,725
	Productive forest area: alto (ha)	53,427	49,802	4,767	4,767	71,196	71,196	53,306	35,363
	Total Productive forest (ha)	417,357	155,158	96,696	44,511	223,296	219,507	131,344	109,088
	Productive areas within protected areas								
	medium forest	38,414	38,414	2,261	2,261	1,421	1,421		
	tall forest	1,704	1,704	-	-	438	438		
	Net Productive forest area: mediano	325,517	105,356	89,667	37,483	150,678	146,890	78,038	73,725
	Net Productive forest area: alto	51,723	49,802	4,767	4,766	70,758	70,758	53,306	35,363
	Total Net Productive forest (ha)	377,239	155,158	94,435	42,250	221,437	217,648	131,344	109,088
	Total volume of net productive area (m ³)	4,310,690	1,795,234	3,393,107	1,513,933	7,862,844	7,726,430	4,646,022	3,872,725
	Volume of 5 export species in net productive area (m ³)	1,917,127	934,576	1,580,490	698,048	3,501,085	3,437,027	2,037,662	1,723,023

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Table 2a: Wood densities of species with commercial values: Paragua I

Source: Mancilla / Bascopé 1999, table 4a

CATEGORIA	VOLUMEN Area before indemnification					VOLUMEN Area affected by indemnification				
	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Muy valiosas										
Roble	0	-	0	-	-	0	-	0	-	-
Subtotal		-		-	-		-		-	-
Valiosas										
Almendrillo	2.68	12,776	0.82	73,527	86,304	2.68	12,774	0.82	28,882	41,656
Bibosi	2.12	10,107	3.02	270,795	280,902	2.12	10,105	3.02	106,370	116,475
Cambará hembra	10.25	48,865	11.75	1,053,591	1,102,456	10.25	48,857	11.75	413,857	462,714
Canelón	1.67	7,961	0.7	62,767	70,729	1.67	7,960	0.7	24,655	32,615
Cuta	0	-	0	-	-	0	-	0	-	-
Itauba	0	-	0.69	61,870	61,870	0	-	0.69	24,303	24,303
Jichituriqui	0	-	0.45	40,350	40,350	0	-	0.45	15,850	15,850
Mapajo	0.67	3,194	0	-	3,194	0.67	3,194	0	-	3,194
Mururé	4.26	20,309	8.44	756,792	777,101	4.26	20,305	8.44	297,273	317,578
Paquíó	0	-	0.91	81,597	81,597	0	-	0.91	32,052	32,052
Sauco blanco	0	-	0	-	-	0	-	0	-	-
Serebó	0	-	0	-	-	0	-	0	-	-
Verdolago	0.69	3,289	1.95	174,851	178,141	0.69	3,289	1.95	68,683	71,972
Yesquero	1.1	5,244	1.23	110,291	115,535	1.1	5,243	1.23	43,323	48,566
Subtotal		111,746		2,686,433	2,798,179		111,727		1,055,248	1,166,975

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	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Poco valiosas					-					-
Azucaro	0	-	0	-	-	0	-	0	-	-
Bacuri	1.58	7,532	0.36	32,280	39,813	1.58	7,531	0.36	12,680	20,211
Blanquillo	0.79	3,766	0	-	3,766	0.79	3,766	0	-	3,766
Cupesí	3.88	18,497	0.56	50,214	68,711	3.88	18,494	0.56	19,724	38,218
Chiriguano	0	-	0.44	39,454	39,454	0	-	0.44	15,498	15,498
Gabetillo	0.59	2,813	0.52	46,627	49,440	0.59	2,812	0.52	18,315	21,128
Guitarrero	0.51	2,431	0	-	2,431	0.51	2,431	0	-	2,431
Isotoubo	0	-	0.28	25,107	25,107	0	-	0.28	9,862	9,862
Marupa	1.11	5,292	0	-	5,292	1.11	5,291	0	-	5,291
Leche leche	1.22	5,816	0	-	5,816	1.22	5,815	0	-	5,815
Ocorocillo	0	-	0	-	-	0	-	0	-	-
Ojoso colorado	0	-	0.49	43,937	43,937	0	-	0.49	17,259	17,259
Pacay	0.54	2,574	1.5	134,501	137,075	0.54	2,574	1.5	52,833	55,407
Palo coco	0.78	3,719	0.67	60,077	63,796	0.78	3,718	0.67	23,599	27,317
Resina moralla	0	-	0	-	-	0	-	0	-	-
Toborocho	0	-	0	-	-	0	-	0	-	-
Toco	0	-	1.23	110,291	110,291	0	-	1.23	43,323	43,323
Subtotal		52,441		542,487	594,928		52,431		213,092	265,524
Total		164,187		3,228,920	3,393,107		164,158		1,268,340	1,432,499

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Table 2b: Wood densities of species with commercial values: El Paso

Source: Mancilla / Bascope 1999, table 6a

CATEGORIA	VOLUMEN Area before indemnification					VOLUMEN Area affected by indemnification				
	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Muy valiosas										
Roble	0	-	0	-	-	0	-	0	-	-
Subtotal		-		-	-		-		-	-
Valiosas										
Almendrillo	2.68	189,632	0.82	123,556	313,189	2.68	189,632	0.82	120,450	310,082
Bibosi	2.12	150,008	3.02	455,048	605,056	2.12	150,008	3.02	443,608	593,616
Cambará hembra	10.25	725,273	11.75	1,770,470	2,495,743	10.25	725,273	11.75	1,725,959	2,451,232
Canelón	1.67	118,166	0.7	105,475	223,641	1.67	118,166	0.7	102,823	220,990
Cuta	0	-	0	-	-	0	-	0	-	-
Itauba	0	-	0.69	103,968	103,968	0	-	0.69	101,354	101,354
Jichituriqui	0	-	0.45	67,805	67,805	0	-	0.45	66,101	66,101
Mapajo	0.67	47,408	0	-	47,408	0.67	47,408	0	-	47,408
Mururé	4.26	301,431	8.44	1,271,725	1,573,156	4.26	301,431	8.44	1,239,752	1,541,183
Paquío	0	-	0.91	137,117	137,117	0	-	0.91	133,670	133,670
Sauco blanco	0	-	0	-	-	0	-	0	-	-
Serebó	0	-	0	-	-	0	-	0	-	-
Verdolago	0.69	48,823	1.95	293,823	342,646	0.69	48,823	1.95	286,436	335,259
Yesquero	1.1	77,834	1.23	185,334	263,169	1.1	77,834	1.23	180,675	258,509
Subtotal		1,658,576		4,514,322	6,172,898		1,658,576		4,400,827	6,059,403

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	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Poco valiosas					-					-
Azucaro	0	-	0	-	-	0	-	0	-	-
Bacuri	1.58	111,798	0.36	54,244	166,042	1.58	111,798	0.36	52,880	164,679
Blanquillo	0.79	55,899	0	-	55,899	0.79	55,899	0	-	55,899
Cupesí	3.88	274,542	0.56	84,380	358,922	3.88	274,542	0.56	82,258	356,801
Chiriguano	0	-	0.44	66,298	66,298	0	-	0.44	64,632	64,632
Gabetillo	0.59	41,747	0.52	78,353	120,100	0.59	41,747	0.52	76,383	118,130
Guitarrero	0.51	36,087	0	-	36,087	0.51	36,087	0	-	36,087
Isotoubo	0	-	0.28	42,190	42,190	0	-	0.28	41,129	41,129
Marupa	1.11	78,542	0	-	78,542	1.11	78,542	0	-	78,542
Leche leche	1.22	86,325	0	-	86,325	1.22	86,325	0	-	86,325
Ocorocillo	0	-	0	-	-	0	-	0	-	-
Ojoso colorado	0	-	0.49	73,832	73,832	0	-	0.49	71,976	71,976
Pacay	0.54	38,210	1.5	226,017	264,227	0.54	38,210	1.5	220,335	258,545
Palo coco	0.78	55,192	0.67	100,954	156,146	0.78	55,192	0.67	98,416	153,608
Resina moralla	0	-	0	-	-	0	-	0	-	-
Toborochoi	0	-	0	-	-	0	-	0	-	-
Toco	0	-	1.23	185,334	185,334	0	-	1.23	180,675	180,675
Subtotal		778,342		911,604	1,689,946		778,342		888,685	1,667,027
Total		2,436,918		5,425,926	7,862,844		2,436,918		5,289,512	7,726,430

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Table 2c: Wood densities of species with commercial values: El Chore

Source: Mancilla / Bascopé 1999, table 5a

CATEGORIA	VOLUMEN Area before indemnification					VOLUMEN Area affected by indemnification				
	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Muy valiosas										
Roble	0	-	0	-	-	0	-	0	-	-
Subtotal		-		-	-		-		-	-
Valiosas										
Almendrillo	2.68	142,860	0.82	63,992	206,852	2.68	94,773	0.82	60,454	155,227
Bibosi	2.12	113,009	3.02	235,676	348,685	2.12	74,969	3.02	222,649	297,618
Cambará hembra	10.25	546,386	11.75	916,952	1,463,338	10.25	362,470	11.75	866,265	1,228,735
Canelón	1.67	89,021	0.7	54,627	143,648	1.67	59,056	0.7	51,607	110,663
Cuta	0	-	0	-	-	0	-	0	-	-
Itauba	0	-	0.69	53,847	53,847	0	-	0.69	50,870	50,870
Jichituriqui	0	-	0.45	35,117	35,117	0	-	0.45	33,176	33,176
Mapajo	0.67	35,715	0	-	35,715	0.67	23,693	0	-	23,693
Mururé	4.26	227,083	8.44	658,645	885,728	4.26	150,646	8.44	622,236	772,882
Paquíó	0	-	0.91	71,015	71,015	0	-	0.91	67,089	67,089
Sauco blanco	0	-	0	-	-	0	-	0	-	-
Serebó	0	-	0	-	-	0	-	0	-	-
Verdolago	0.69	36,781	1.95	152,175	188,956	0.69	24,400	1.95	143,763	168,164
Yesquero	1.1	58,637	1.23	95,987	154,624	1.1	38,899	1.23	90,681	129,581
Subtotal		1,249,492		2,338,032	3,587,524		828,907		2,208,792	3,037,698

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CATEGORIA	VOLUMEN Area before indemnification					VOLUMEN Area affected by indemnification				
	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Poco valiosas					-					-
Azucaro	0	-	0	-	-	0	-	0	-	-
Bacuri	1.58	84,223	0.36	28,094	112,317	1.58	55,873	0.36	26,541	82,414
Blanquillo	0.79	42,112	0	-	42,112	0.79	27,937	0	-	27,937
Cupesí	3.88	206,827	0.56	43,702	250,529	3.88	137,208	0.56	41,286	178,494
Chiriguano	0	-	0.44	34,337	34,337	0	-	0.44	32,439	32,439
Gabetillo	0.59	31,451	0.52	40,580	72,031	0.59	20,864	0.52	38,337	59,201
Guitarrero	0.51	27,186	0	-	27,186	0.51	18,035	0	-	18,035
Isotoubo	0	-	0.28	21,851	21,851	0	-	0.28	20,643	20,643
Marupa	1.11	59,170	0	-	59,170	1.11	39,253	0	-	39,253
Leche leche	1.22	65,033	0	-	65,033	1.22	43,143	0	-	43,143
Ocorocillo	0	-	0	-	-	0	-	0	-	-
Ojoso colorado	0	-	0.49	38,239	38,239	0	-	0.49	36,125	36,125
Pacay	0.54	28,785	1.5	117,058	145,843	0.54	19,096	1.5	110,587	129,683
Palo coco	0.78	41,579	0.67	52,286	93,864	0.78	27,583	0.67	49,396	76,979
Resina moralla	0	-	0	-	-	0	-	0	-	-
Toborocho	0	-	0	-	-	0	-	0	-	-
Toco	0	-	1.23	95,987	95,987	0	-	1.23	90,681	90,681
Subtotal		586,366		472,133	1,058,498		388,992		446,034	835,026
Total		1,835,857		2,810,165	4,646,022		1,217,899		2,654,826	3,872,725

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Table 2d: Wood densities of species with commercial values: El Chore

Source: Mancilla / Bascopé 1999, table 7a

CATEGORIA	VOLUMEN Area before indemnification					VOLUMEN Area affected by indemnification				
	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Muy valiosas										
Roble	0.52	27,782	0.46	158,363	186,145	0.52	26,922	0.46	63,574	90,496
Subtotal		27,782	0	158,363	186,145		26,922		63,574	90,496
Valiosas (13)										
Almendrillo	1.71	91,359	1.45	499,187	590,546	1.71	88,532	1.45	200,397	288,930
Bibosi	0	-	0.61	210,003	210,003	0	-	0.61	84,305	84,305
Cambará hembra	6.89	368,109	0.45	154,920	523,029	6.89	356,718	0.45	62,192	418,910
Canelón	0	-	0	-	-	0	-	0	-	-
Cuta	0	-	1.08	371,808	371,808	0	-	1.08	149,261	149,261
Itauba	0	-	0	-	-	0	-	0	-	-
Jichituriqui	0	-	0.52	179,019	179,019	0	-	0.52	71,867	71,867
Mapajo	0	-	0.36	123,936	123,936	0	-	0.36	49,754	49,754
Paquíó	2.09	111,662	1.26	433,776	545,438	2.09	108,206	1.26	174,138	282,344
Sauco blanco	0	-	0.45	154,920	154,920	0	-	0.45	62,192	62,192
Serebó	0	-	0.25	86,067	86,067	0	-	0.25	34,551	34,551
Verdolago	0	-	0.33	113,608	113,608	0	-	0.33	45,608	45,608
Yesquero	0	-	1.6	550,827	550,827	0	-	1.6	221,128	221,128
Subtotal		571,130		2,878,071	3,449,202		553,457		1,155,393	1,708,850

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	m3/ha*	m3	m3/ha	m3	m3	m3/ha*	m3	m3/ha	m3	m3
		B. Alto		B. Medio			B. Alto		B. Medio	
	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio	B. ALTO	SUBTOTAL	B. MEDIO	SUBTOTAL	B. Alto+B. Medio
Poco valiosas (17)					-					-
Azucaro	0.89	47,550	0	-	47,550	0.89	46,078	0	-	46,078
Bacuri	0	-	0	-	-	0	-	0	-	-
Blanquillo	0	-	0	-	-	0	-	0	-	-
Cupesí	0	-	0	-	-	0	-	0	-	-
Chiriguano	0	-	0	-	-	0	-	0	-	-
Gabetillo	0	-	0	-	-	0	-	0	-	-
Guitarrero	0	-	0.27	92,952	92,952	0	-	0.27	37,315	37,315
Isotoubo	0	-	0.37	127,379	127,379	0	-	0.37	51,136	51,136
Marupa	0	-	0	-	-	0	-	0	-	-
Leche leche	0	-	0	-	-	0	-	0	-	-
Ocorocillo	0	-	1.01	347,710	347,710	0	-	1.01	139,587	139,587
Ojoso colorado	0	-	0	-	-	0	-	0	-	-
Pacay	0	-	0	-	-	0	-	0	-	-
Palo coco	0	-	0	-	-	0	-	0	-	-
Resina moralla	0	-	0	-	-	0	-	0	-	-
Toborochi	0	-	0.33	113,608	113,608	0	-	0.33	45,608	45,608
Toco	0	-	0.52	179,019	179,019	0	-	0.52	71,867	71,867
Subtotal		47,550		860,667	908,217		46,078		345,512	391,591
Total		646,462		3,897,101	4,543,563		626,457		1,564,480	2,190,937

**APPENDIX OF THE PROJECT DESIGN DOCUMENT FORM
FOR AFFORESTATION AND REFORESTATION PROJECT ACTIVITIES (CDM-AR-PDD) - Version 01**

Table 9a: Final results Component A: stop timber harvesting

Year	Volume removed	Leakage	Net Volume life biomass removed	Total C removed	Damaged	Dead wood pool	Change in dead wood C pool	Annual wood products	Annual offsets from logging
	10 ³ m ³ /yr	10 ³ m ³ /yr	10 ³ m ³ /yr	1000 t C/yr	1000 t C/yr	1000 t C	1000 t C/yr	1000 t C/yr	1000 t C/yr
1997	59.70	9.01	50.7	52.7	36.9	36.9	36.9	4.6	11.2
1998	60.22	9.31	50.9	52.9	37.1	71.5	34.6	4.6	13.7
1999	60.73	9.62	51.1	53.1	37.2	103.9	32.4	4.6	16.1
2000	61.24	9.93	51.3	53.3	37.4	134.3	30.4	4.6	18.3
2001	61.75	10.24	51.5	53.5	37.5	162.7	28.4	4.6	20.4
2002	62.26	10.55	51.7	53.7	37.7	189.4	26.7	4.7	22.4
2003	63.36	10.63	52.7	54.8	38.4	215.0	25.6	4.7	24.4
2004	64.46	10.72	53.7	55.8	39.2	239.6	24.6	4.8	26.4
2005	65.57	10.81	54.8	56.9	39.9	263.3	23.7	4.9	28.2
2006	66.67	10.89	55.8	57.9	40.6	286.1	22.8	5.0	30.1
2007	67.77	10.98	56.8	59.0	41.4	308.2	22.0	5.1	31.8
2008	71.64	12.05	59.6	61.9	43.4	330.7	22.6	5.4	33.9
2009	75.51	13.13	62.4	64.8	45.4	353.8	23.1	5.6	36.1
2010	79.38	14.20	65.2	67.7	47.5	377.4	23.6	5.9	38.3
2011	83.24	15.27	68.0	70.6	49.5	401.4	24.0	6.1	40.5
2012	87.11	16.35	70.8	73.5	51.6	425.8	24.4	6.4	42.7
2013	89.15	17.05	72.1	74.9	52.5	449.5	23.7	6.5	44.6
2014	91.18	17.76	73.4	76.3	53.5	472.6	23.1	6.6	46.5
2015	93.22	18.46	74.8	77.6	54.5	495.1	22.5	6.7	48.4
2016	95.25	19.17	76.1	79.0	55.4	517.1	22.0	6.8	50.2
2017	97.28	19.87	77.4	80.4	56.4	538.5	21.4	7.0	52.0
2018	99.38	20.45	78.9	82.0	57.5	559.6	21.1	7.1	53.8
2019	101.48	21.02	80.5	83.5	58.6	580.4	20.8	7.2	55.5
2020	103.57	21.60	82.0	85.1	59.7	600.9	20.5	7.4	57.3
2021	105.67	22.18	83.5	86.7	60.8	621.1	20.2	7.5	59.0
2022	107.76	22.75	85.0	88.3	61.9	641.0	19.9	7.7	60.7
2023	109.74	23.52	86.2	89.5	62.8	660.5	19.5	7.8	62.3
2024	111.72	24.29	87.4	90.8	63.7	679.5	19.0	7.9	63.9
2025	113.69	25.05	88.6	92.1	64.6	698.2	18.6	8.0	65.4
2026	115.67	25.82	89.9	93.3	65.5	716.4	18.3	8.1	67.0
totals	2,525.37	482.66	2,042.71	2,121.36	1,488.12		716.43	183.84	1,221.08