

PROJECT: CONSTRUCTION AND OPERATION OF A DAM IN THE EJIDO LA VICTORIA, IN THE REGION OF EL SALTO, IN THE STATE OF DURANGO, MEXICO.

ESTIMATION 2 : Estimation of NPV in the comparison of SCENARIO ONE (current situation - without project) and SCENERY THREE (with the project INCLUDING THE COST OF DAM construction and maintenance)

(see "Hoja 1" for the estimation WITHOUT including such costs
PLANNING HORIZON CONSIDERED IS: 60 YEARS

THE NET PRESENT VALUE UNDER THE CONDITIONS OF ESTIMATION 2, IS: \$ (in Mexican pesos)
Therefore if Government did not pay for dam construction and maintenance, the project **WILL NOT BE ATTRACTIVE** to the ejidatarios of La Victoria

This is de Economic Net present value (considering 4%/yr as discount rate), **INCLUDING THE DAM'S CONSTRUCTION AND MAINTENANCE COSTS**

Present value of incremental net benefit (your discount rate)

-1222635.38

END OF YEAR	SCENERY THREE				Net benefit/year	SCENERY ONE				Incremental net benefit	DISCOUNT FACTOR (with 4%/YR FOR INFLATION)	NPV	
	WITH PROJECT	WITH PROJECT	WITH PROJECT	WITH PROJECT		WITHOUT PROJECT	WITHOUT PROJECT	WITHOUT PROJECT	WITHOUT PROJECT				
1	20211800		The first year there are no b	Maintenance of forest \$300/ha/yr	-20211800						1	-20280700	
2	542085	1652362.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	1110277.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton	\$100/ha*706ha + \$3000,	68900		0.961538462	1001324.346
3	542085	1652362.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	1110277.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.924556213	962811.8713
4	542085	1652362.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	1110277.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.888996359	925780.6455
5	542085	1652362.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	1110277.32	147100	531000	Benefit: 24 ha*1.5ton/ha/yr**\$6000/ton + 90 livestock heads each 5 year		383900		0.854804191	620910.3774
6	542085	1652362.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	1110277.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.821927107	855936.2477
7	542085	1652362.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	1110277.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.790314526	823015.6228
8	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.759917813	630410.5829
9	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.730690205	606164.022
10	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	5826000	Std timber \$500/m3*15m3/ha*706ha (every 10 years) + agriculture 24 h		5678900		0.702586736	-3358661.565
11	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.675564169	560432.7127
12	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.649580932	538877.6083
13	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.62459705	518151.5465
14	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.600574086	498222.5805
15	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	531000	Benefit: 24 ha*1.5ton/ha/yr**\$6000/ton + 90 livestock heads each 5 year		383900		0.577475083	297155.6408
16	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.555264503	466304.8381
17	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.533908176	442918.1135
18	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.513373246	425882.8015
19	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.493628121	409502.6937
20	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	5826000	Std timber \$500/m3*15m3/ha*706ha (every 10 years) + agriculture 24 h		5678900		-4780422.68	-2268991.409
21	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.474644244	378608.2597
22	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.456386946	364046.4036
23	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.438833602	350044.6188
24	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.421955387	336581.3642
25	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	531000	Benefit: 24 ha*1.5ton/ha/yr**\$6000/ton + 90 livestock heads each 5 year		383900		0.405726333	200747.6627
26	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.390121474	311188.9351
27	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.375116802	299219.6072
28	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.360689233	287711.1608
29	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.34681657	276645.3469
30	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.333477471	-1532849.295
31	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	5826000	Std timber \$500/m3*15m3/ha*706ha (every 10 years) + agriculture 24 h		5678900		0.320651415	255774.1743
32	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.308318668	245936.706
33	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.296460258	236477.602
34	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.28505794	227382.3096
35	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.274094173	216117.9279
36	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	531000	Benefit: 24 ha*1.5ton/ha/yr**\$6000/ton + 90 livestock heads each 5 year		383900		0.26355209	135611.341
37	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.253415471	120227.7271
38	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.243668722	202142.0452
39	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.234296848	194367.3512
40	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.225285431	186891.6838
41	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	5826000	Std timber \$500/m3*15m3/ha*706ha (every 10 years) + agriculture 24 h		5678900		0.216620606	-1035538.06
42	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.208289045	172791.8675
43	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.200277928	166146.0264
44	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.19257493	159755.7946
45	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.185168202	153611.341
46	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	531000	Benefit: 24 ha*1.5ton/ha/yr**\$6000/ton + 90 livestock heads each 5 year		383900		0.178046348	16168.61276
47	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.171198412	142022.3197
48	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.164613858	136559.9228
49	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.158282555	131307.6181
50	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.152194765	126219.3251
51	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	5826000	Std timber \$500/m3*15m3/ha*706ha (every 10 years) + agriculture 24 h		5678900		0.14634112	-699572.4088
52	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.140712615	116731.9943
53	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.135300592	112242.3022
54	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.130096723	107925.2906
55	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.125093003	103774.3179
56	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	531000	Benefit: 24 ha*1.5ton/ha/yr**\$6000/ton + 90 livestock heads each 5 year		383900		0.120281733	61894.25198
57	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.115655513	95945.19036
58	542085	1440562.3	There are 4359 households	Maintenance of forest \$300/ha/yr paid by	898477.32	147100	216000	Agriculture: 24 ha*1.5ton/ha/yr**\$6000/ton		68900		0.111207224	92254.99073
59	542085												