Appendix-K Economic Analysis - Cost & Benefit Flow

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 Work-ord   Difference   Work-ord   Difference   Work-ord   Difference   Work-ord   Difference   Diffe | Work-page   Difference   Work-page   State   State | Workshop   Tablescope   Workshop   Tablescope   Workshop   Tablescope   Tablescop | Workers   Work | March and College   Marc | March and Collections | March and College   Marc | Workey   Palescone   Week   Pa | Weilland         Type         State         < | Well-well Tablescored   1997   2004   2019 | Withhelm   Tablescot   Table | With the property of the pro | With will Chinesons   1997   2894   2815   2819   2 | With any Chinescond (1997) 2010 2010 2010 2010 2010 2010 2010 201 | Week-bar   Colored   Col | Well-well-bell-benches | With well distributed   Wild   Wild | Wilst   Wils | Without Childrens   Wilson   Wilson | Windows   Children   Children | Windows   Colorected   1997 | Windows   Table   Ta | Windows   Tolking   Tolk | Windows   Total Control Cont | Windows   Wind | Windows   Part   Part | Married   Marr | Windows   Wind | Married   Marr | Married   Marr | Market   Total Control Contr |

## (No. 1 Kurizampa & No. 2 Chamkar Zam)

Discount Rate 0.1500

Cost (NPV) 163.34 IRR
Benefit (NPV) 117.29
B.NPV-C.NPV 46.06
B/C Rate 0.718

		1 11.	11.7				·' '' : ;	
YEAR		COST	BENEFIT			RET PRESENT	VALUE	
•		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate	(AxC)	Accomulated	(BxC)	Accumulated
			• •	(r= 15.0 %)			1 1 1	* :
ı	1999	6.264	0.000	1.000	6.26	6.26	0.00	0.00
2	2000	113.688	0.000	0.870	98.86	105.12	0.00	0.00
3	2001	72.930	0.000	0.756	55.15	160.27	0.00	0.00
4	2002	1.908	0.000	0.658	1.25	[61.52]	6.00	0.00
5	2003	0.149	20.696	0.572	0.08	161.60	11.83	11.83
6	2004	0.140	21.329	0.497	0.07	161.67	10.60	22.44
7	2005	0.140	21.980	0.432	0.06	t61.73	9.50	31.94
8	2006	0.140	23.131	0.376	0.05	161.79	8.70	40,64
9	2007	0.823	24.342	0.327	0.27	162.06	7.96	48.59
10	2008	0.140]	25.617	0.284	0.04	162.09	7.28	55,88
11	2009	2.149	26.958	0.247	0.53	162.63	6.66	62.54
12	2010	0.140	28.370	0.215	0.03	162.66	6.10	68.64
В	2011	0.140	29.699	0.187	0.03	162.68	5.55	74.19
14	2012	0.823	31.091	0.163	0.13	162.82	5.05	79.24
15	2013	0.140	32.548	0.141	0.02	162.84	4.60	83.84
16	2014	0.140	34.073	0.123	0.02	162.85	4.19	83.03
17	2015	0.140	35.670		0.01	162.87	3.81	91.84
18	2016	2.149	36.264	0.093	0.20	163.07	3.37	95.21
19	2017	0.823	36.868	0.031	0.07	163.13	2.98	98.19
20	2018	0.140	37.482	0.070	0.01	163.14	2.63	100.82
21	2019	0.140	38.106		0.01	163.15	2.33	103.15
25	2020	0.140	38.740		0.01	163.16	2.06	105.21
23	2021	0.140	39.361	0.046	0.01	163.17	1.82	107.03
24	2022	0.823	39.992		0.03	163.20	1.61	108.63
25	2023	2.149	40.634		0.08	163.27	1.42	
26	2024	0.140	41.285		0.00	163.28	1.25	
27	2025	0.140	41.947	0.026	0.00	163,28	1.11	112.42
28	2026	0.140	42.620		0.00	163.29	0.98	
29	2027	0.823	43.303		0.02	163.30	0.86	
30	2028	0.140	43.998		0.00	163.30	0.76	
31	2029	0.140	44.703		0.00	163.31	0.68	
32	2030	2.149	45.420		0.03	163.34	0.60	
33	2031	0.140	46.148		0.00	163.34	0.53	116.82
34	2032	0.823	46.888	0.010	0.01	163.34	0.47	117.29
35	2033	0.140	47.640	0.009	0.00	163.35	0.41	117.70

(No. 1 Kurizampa & No. 2 Chamkar Zam)

(Cost \* 0.9)

YEAR	1	COST	BENEFIT	_		NET PRESENT		
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate (r= 15.0 %)	(AxC)	Accumulated	(BxC)	Accumulated
1	1999	5.638	0.000	1.000	5.64	5.64	0.00	0.00
2	2000	102.319	0.000	0.870	88.97	94.61	0.00	0.00
3	2001	65.637	0.000	0.756	49.63	144.24	0.00	0.00
4	2002	1.717	0.000	0.658	1.13	145.37	0.00	0.00
5	2003	0.140	20.696	0.572	0.08	145.45	11.83	11.83
6	2004	0.140	21.329	0.497	0.07	145.52	10.60	22.44
7	2005	0.140	21.980	0.432	0.06	145.58	9.50	31.94
8	2006	0.140	23.131	0.376	0.05	145.63	8.70	
9	2007	0.823	24.342	0.327	0.27	145.90	7.96	48.59
10	2008	0.140	25.617	0.284	0.04	-145.94	7.28	55.88
11	2009	2.149	26.958	0.247	0.53	146.47	6.66	62.54
12	2010	0.140	28.370	0.215	0.03	146.50	01.6	68.64
13	2011	0.140	29,699	0.187	0.03	146.53	5.55	74.19
14	2012	0.823	31.091	0.163	0.13	146.66	5.05	79.24
15	2013	0.140	32.548	0.141	0.02		4.60	
16	2014	0.140	34.073	0.123	0.02		4.19	
17	2015	0.140	35.670		10.0		3.81	91.84
18	2016	2.149	36.264		0.20		3.37	95.21
19	2017	0.823	36.868	0.081	0.07		2.98	
20	2018	0.140	37.482		0.01		2.63	
21	2019	0.140	38.106		0.01		2.33	
22	2020	0.140	38.740		0.01		2.06	
23	2021	0.140	39.361		0.01		1.82	
24	2022	0.823	39,992		0.03		1.61	
25	2023	2.149	40.634		0.08		1.42	
26	2024	0.140	41.285		0.00		1.25	
27	2025	0.140	41.947		0.00		1.11	1
28	2026	0.140	42.620		0.00		0.98	
29	2027	0.823	43.303		0.02		0.86	
30	2028	0.140	43.998		0.00		0.76	
31	2029	0.140	44.703	1 .	0.00			
32	2030	2.149	45,420		0.03		0.60	
33	2031	0.140	46.148	0.011	0.00			
34	2032	0.823	46.888	1	0.01		0.47	
35	2033	0.140	47.640	0.009	0.00	147.19	0.41	117.70

(No. 1 Kurizampa & No. 2 Chamkar Zam)

(Cost \* 1.1)

Discount Rate 0.1500

Cost (NPV) 179.50 tRR
Benefit (NPV) 117.29
B NPV-C NPV -62.21
B/C Rate 0.653

			<u></u>			<u> </u>		
YEAR		COST	BENEFIT			NET PRESENT		
		(A)	(B)	(C)	(D) Cost		(E) Benefit	+ 1
				Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
				(r= 15.0 %)		:		
i	1999	6.890	0.000	1.000	6.89	6.89	0.00	0.00
2	2000	125.057	0.000	0.870	103.75	115.64	0.00	0.00
3	2001	80.223	0.000	0.756	60.66	176.30	0.00	0.00
4	2002	2.099	0,000	0.658	1.38	177,68	0.00]	0.00
5	2003	0.140	20.696	0.572	0.08		11.83	11.83
6	2004	0.140	21.329		0.07		10.60	22.44
7	2005	0.140	21.980		0.06		9.50	31.94
8	2006	0.140	23.131	0.376	0.05	177.94	8.70	40.64
9	2007	0,823	24.342	0.327	0.27	178.21	7.96	48.59
10	2008	0.140	25.617	0.284	0.04	178.25	7.28	55.88
11	2009	2.149	26.958	0.247	0.53	178.78	6.66	62.54
12	2010	0.140	28.370		0.03	178.81	6.10	68.64
13	2011	0.140	29.699		0.03		5.55	
14	2012	0.823	31.091	0.163	0.13		5.05	79.24
15	2013	0.140	32.548		0.02	178.99	4.60	83.84
16	2014	0.140	34.073	0.123	0.02	179.01	4.19	88.03
17	2015	0.140	35,670		0.01	179.02	3.81	91.84
18	2016	2.149	36.264	0.093	0.20		3.37	95.21
19	2017	0.823	36.868	0.081	0.07	179.29	2.98	
20	2018	0.140	37.482	0.070	0.01	179.30	2.63	
21	2019	0.140	38.106	0.061	0.01		2.33	103.15
22	2020	0.140	38.740	0.053	0.01		2.06	
23	2021	0.140	39.361	0.046	0.01	179.32	1.82	
24	2022	0.823	39.992	0.040	0.03		1.61	108.63
25	2023	2.149	40.634	0.035	0.08		1.42	110.05
26	2024	0.140	41.285		0.00		1.25	
27	2025	0.140	41.947		0.00		1.11	
28	2026	0.140	42.620		0.00		0.98	
29	2027	0.823	43.303	0.020	0.02	179.45	0.86	
30	2028	0.140	43.998	0.017	0.00	179.46	0.76	
31	2029	0.140	44.703	0.015	0.00		0.68	
32	2030	2.149	45.420	0.013	0.03		0.60	
33	2031	0.140	46.148	0.011	0.00	179.49	0.53	
34	2032	0.823	46.838		0.01			1
35	2033	0.140	47.640	0.009	0.00	179.50	0.41	117.70

# (No. 1 Kurizampa & No. 2 Chamkar Zam)

(Two yeras delay)

Cost (NPV) 123.51 IRR Discount Rate 0.1500 Benefit (NPV) 95.63 B.NPV-C.NPV -27.89 B/C Rate 0.774

0.122635

YEAR NET PRESENT VALUE COST BENEFIT (A) (C) (B) (D) Cost (E) Benefit Discount Rate (AxC) Accumulated (BxC) Accumulated (r = 15.0 %)1999 0.000 0.000 0.00 1.000 0.00 0.00 0.00 2 2000 0.000 0.000 0.870 0.00 0.00 0.000.00 3 2001 6.264 0.000 0.756 0.00 4.74 4.74 0.00 2002 113.688 0.000 74.75 0.658 79.49 0.000.60 5 2003 72.930 0.000 0.572 41.70 121.19 0.00 0.00 6 2004 1.908 0.000 0.497 0.95 122.13 0.00 0.00 2005 0.140 21.980 0.432 0.06 122.20 9.50 9.50 8 2006 0.140 23.131 0.376 0.05 122.25 8.70 18.20 9 2007 0.140 24.342 0.327 0.05 122.29 7.96 26.16 10 2008 0.140 25.617 0.284 0.04 122.33 7.23 33.44 н 26.958 2009 0.823 0.247 0.20 122.54 6.66 40.10 12 2010 0.140 28.370 0.215 0.03 122.57 6.10 46.20 13 2011 2.149 29.699 0.187 0.40 122 97 51.75 5.55 14 2012 0.140 31.091 0.163 0.02 122.99 5.05 56.80 15 2013 0.140 32.548 0.141 0.02 123.01 4.60 61.40 16 2014 0.823 34.073 0.123 0.10 123.11 65.59 4.19 17 35.670 2015 0.140 0.01 0.107 123.13 3.81 69.40 18 2016 0.140 36.264 0.093 0.01 123.14 3.37 72.77 19 2017 0.140 36.868 0.081 0.01 123.15 2.98 75.75 20 2018 2.149 37,482 0.070 0.15 123.30 2.63 78.39 21 2019 0.823 38.106 0.061 0.05 123.35 2.33 80.71 22 2020 0.140 38.740 0.053 0.01 123,36 2.06 82.77 23 2021 0.140 39.361 0.046 123.37 0.01 1.82 84.59 24 2022 0.140 39.992 0.040 0.01 123.37 1.61 86.20 25 2023 0.140 40.634 0.035 0.00 123.38 87.62 1.42 26 2024 0.823 123.40 41.285 0.030 0.03 1.25 88.87 27 2025 2.149 41.947 0.026 0.06 123.46 1.11 89.98 28 2026 0.140 42.620 0.023 0.00 123.46 0.98 90.96 29 123.47 2027 0.140 43.303 0.020 0.00 91.82 0.86 30 2028 0.140 43,998 0.017 0.00 123,47 0.76 92.59 31 2029 0.823 44.703 0.015 10.0 123.48 93.26 0.68 32 2030 0.140 45.420 0.013 0.00 123.48 93.86 0.60 33 2031 0.140 46.148 0.011 0.00 123.48 0.53 94.39 34 2032 2.149 46.888 0.010 0.02 123.50 0.47 94.85 35 2033 0.140 47.640 0.009 0.00 123.51 0.41 95.26 36 2034 0.823 43.404 0.008 123.51 10.0 0.36 95.63 2035

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Benefit (Bridge No.3 & No.4)

Economic Analysis (No. 3 Bjee & No. 4 Wachy Zam)

Discount Rate

129.56 IRR Cost (NPV) Benefit (NPV) 291.49 B.NPV-C.NPV 161.93 B/C Rate

YEAR		COST	BENEFIT			NET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
				(r= 15.0 %)				
i	1999	6.264	0.000	1.000	6.26	6.26	0.00	0.00
2	2000	8 586	0.000	0.870	7.47	13.73	0.00	0.00
3	2001	90.999	0.000	0.756	68.81	82.54	0.00	0.00
4	2002	69.096	0.000	0.658	45.43	127.97	0.00	0.00
5	2003	0.140	51.909	0.572	0.03	128.05	29.68	29.63
6	2004	0.140	53.718	0.497	0.07	128.12	26.71	56.39
7	2005	0.140	55.590		0.06	128.18	24.03	80.42
8	2006	0.140	58.256		0.05	128.23	21.90	
9	2007	0.568	61.049		0.19		19.96	
10	2008	0.140	63.977	0.284	0.04	128.46	18.19	
11	2009	1.984	67.045		0.49	128.95	16.57	
12	2010	0.140	70.260		0.03	128.98	15.10	172.14
13	2011	0.140	72.934		0.03		13.63	185.77
14	2012	0.568	75.711	4	0.09	129,10	12.31	198.03
15	2013	0.140	78.593		0.02	129.12	11.11	209.18
16	2014	0.140	81.584		0.02	129.13		
17	2015	0.140	84.690		0.01			
18	2016	1.984	86.704		0.18			
19	2017	0.568	88.766		0.05			
20	2018	0.140	90.877		0.01	129.39	6.39	
21	2019	0.140	93.038		0.01	129,40		
22	2020	0.140	95.250		0.01	129.41	5.06	
23	2021	0.140	97.515		0.01	129.41	4.51	
24	2022	0.568	99.833		0.02			
25	2023	1.984	102.206		0.07			
26	2024	0.140			0.00		3.18	
27	2025	0.140			0.00		2.83	
28	2026	0.140	i		0.00		2.52	
29	2027	0.568	112.278		0.01	1		
30	2028	0.140			0.00			
31	2029	0.140			0.00		1.78	
32	2030	1.984			0.03			
33	2031	0.140			0.00			ł .
34	2032	0.568	1			1		
35	2033	0.140	129.277	0.009	0.00	129.57	1.12	292.61

(No. 3 Bjee & No. 4 Wachy Zam)

(Cost \* 0.9)

Discount Rate 0.1500

Cost (NPV) 116.77 IRR
Benefit (NPV) 291.49
B.NPV-C.NPV 174.73
B/C Rate 2.496

						100 117 4 7		
YEAR		COST	BENEFIT		1	NET PRESENT	VALUE	
		(A)	(B)	: (C)	(D) Cost		(E) Benefit	
		` '		Discount Rate	(AxC)	Accumulated	: (BxC)	Accumulated
		ļ		(r= 15.0 %)				<u> </u>
1	1999	5.638	0.000	1.000	5.64	5.64	0.00	0.00
2	2000	7.727	0.000	0.870	6.72	12.36	0.00	0.00
3	2001	81.899	0.000	0.756	61.93	74.28	0.00	0.00
4	2002	62.186	0.000	0.658	40.89	115.17	0.00	0.00
5	2003	0.140	51.909	0.572	0.08	115.25	29.68	29.68
6	2004	0.140	53.718	0.497	0.07	115.32	26.71	56.39
7	2005	0.140	55.590	0.432	0.06	. 115.38	24.03	80.42
8	2006	0.140	58.256	0.376	0.05	115.44	21.90	102.32
9	2007	0.568	61.049	0.327	0.19	115.62	19.96	122.28
10	2008	0.140	63.977	0.284	0.04	115.66	18.19	140.46
11	2009	1.984	67.045	0.247	0.49	116.15	16.57	157.04
12	2010	0.140	70.260	0.215	0.03		15.10	
13	2011	0.140	72.934	0.187	0.03	116.21	13.63	185.77
14	2012	0.568	75.711	0.163	0.09	116.30	12.31	198.08
15	2013	0.140	78.593	0.141	0.02	116.32	11.11	209.18
16	2014	0.140	81.584	0.123	0.02	116.34	10.03	219.21
17	2015	0.140	84.690	0.107	0.01	116.35	9.05	
18	2016	1.984	86.704	0.093	0.18	116.54	8.06	
19	2017	0.568	88.766	0.081	0.05	116.58	7.17	
20	2018	0.140	90.877	0.070	0.01	116.59	6.39	
21	2019	0.140	93.038	0.061	0.01		5.68	
22	2020	0.140	95.250	0.053	0.01	116.61	5.06	
23	2021	0.140	97.515		0.01		4.51	
24	2022	0.568	99.833		0.02		4.01	
25	2023	1.984	102.206	0.035	0.07		3.57	
26	2024	0.140	104.636				3.18	
27	2025	0.140	107.124				2.83	
28	2026	0.140	109.671					
29	2027	0.568				1		
30	2028	0.140	114.947		0.00			
31	2029	0.140	2		1			
32	2030	1.984						
33	2031	0.140						
34	2032	0.568						
35	2033	0.140	129.277	0.009	0.00	116.77	1.12	292. <u>61</u>

(No. 3 Bjee & No. 4 Wachy Zam)

(Cost \* 3.1)

Discount Rate : 0.1500

Cost (NPV) 142.36 IRR Benefit (NPV) 291.49 B.NPV-C.NPV 149.13 B/C Rate 2.048

YEAR	1	COST	BENEFIT			NET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
		İ		Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
	ļ.			(r= 15.0 %)				
ı	1999	6.890	0.000	1.000	6.89	6.89	0.00	0.00
2	2000	9.445	0.000	0.870	8:21	15.10	0.00	0.00
3	2001	990.001	0.000	0.756	75.69	90.79	0.00	0.00
4	2002	76.006	0.000	0.658	49.97	140.77	0.00	0.00
5	2003	0.140	51.909	0.572	0.08	140.85	29.68	29.68
6	2004	0.140	53.718	0.497	0.07	140.92	26.71	56.39
7	2005	0.140	55.590	0.432	0.06	140.98	24.03	80.42
8	2006	0.140	58.256	0.376	0.05	141.03	21.90	102.32
9	2007	0.568	61.049	0.327	0.19	141.22	19.96	122.28
10	2008	0.140	63.977	0.284	0.04	141.26	18.19	140.46
11	2009	1.984	67.045		0.49	141.75	16.57	157.04
12	2010	0.140	70.260		0.03	141.78	15.10	172.14
13	2011	0.140	72.934		0.03	141.80	13.63	185.77
14	2012	0.568	75.711	0.163	0.09	141.89	12.31	198.08
15	2013	0.140	78.593	0.141	0.02	141.91	11.11	209.18
16	2014	0.140	81.584		0.02		10.03	219.21
17	2015	0.140	84.690		0.01	141.95	9.05	228.26
18	2016	1.984	86.704		0.18		8.06	236.32
19	2017	0.568	88,766		0.05		7.17	243.49
20	2018	0.140	90.877		0.01		6.39	249.87
21	2019	0.140	93.038		0.01	142 20	5.63	255.56
22	2020	0.140	95.250		0.01	142.20	5.06	260.62
23	2021	0.140	97.515		0.01	142.21	4.51	265.12
24	2022	0.568	99.833		0.02	142.23	4.01	269.14
25	2023	1.984	102.206		0.07	[42.30]	3.57	272.71
26	2024	0.140	104.636		0.00		3.18	
27	2025	0.140	107.124		0.00		2.83	
28	2026	0.140	109.671		0.00		2.52	
29	2027	0.568	112.278		0.01	142.32	2.24	
30	2028	0.140	114.947		0.00		2.00	285.47
31	2029	0.140	117.680		0.00		1.78	287.25
32	2030	1.984	120.478		0.03		1.58	288.83
33	2031	0.140	123.342		0.00		1.41	290.24
34	2032	0.568	126.275	1		142.36	1.25	291.49
35	2033	0.140	129.277	0.002	0.00	142.36	1.12	292.61

(No. 3 Bjee & No. 4 Wachy Zam)

(Two yeras delay)

Discount Rate 0.1500

 Cost (NPV)
 97.97
 IRR

 Benefit (NPV)
 237.22
 B.NPV-C.NPV
 139.25

 B/C Rate
 2.421

YEAR		COST	BENEFIT	<del></del>		NET	PRESENT V	ALUE
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate	(AvC)	Accumulated	(BxC)	Accumulated
		1		(r= 15.0 %)			:	
1	1999	0.000	0.000	1.000	0.00	0.00	: 0.00	0.00
2	2000	0.000	0.000	0.870	0.00	0.00	0.00	0.00
3	2001	6.264			4.74			
4	2002	8.586			5.65	10.38	0.00	
5	2003	90.999			52.03		0.00	
6	2004	69.096			34.35	96.76	0.00	
7	2005	0.140			0.06	96.82	24.03	
8	2006	0.140			0.05			
9	2007	0.140			0.05			
10	2008	0.140		0.284	0.04	96.96	18.19	
11	2009	0.568			0.14	97.10		
12	2010	0.140			0.03			
13	2011	1.984			0.37			
14	2012	0.140			0.02			
15	2013	0.140		1	0.02		11.11	
16	2014	0.568			0.07			
17	2015	0.140			0.01			
18	2016	0.140			0.01			
19	2017	0.140			0.01			
20	2018	1.984						
21	2019	0.568			0.03			
22	2020	0.140						
23	2021	0.140						
24	2022	0.140						
25	2023	0.140			0.00			
26	2024	0.568						
27	2025	1.984						
28	2026	0.140						
29	2027	0.140				1		
30	2028	0.140				1		
31	2029	0.568						
32	2030	0.140					L .	
33	2031	0.140						
34	2032	1.984		I .				
35	2033	0.140						
36	2034	0.568						
37	2035	0.140	135.497	0.007	0.00	97.97	0.88	238.10

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(No. 5 Mangdichu)

Discount Rate 0.1500

Cost (NPV) 169.35 IRR
Benefit (NPV) 66.94
B NPV-C NPV -102.40
B/C Rate 0.395

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YEAR		COST	BENEFIT			NET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost	•	(E) Benefit	
		i		Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
				(r= 15.0 %)		·		
1	1999	8.353	0.000	1.000	8.35	8.35	0.00	0.00
2	2000	79.723	0.000	0.870	69.32	77.68	0.00	0.00
3	2001	117.438	0.000	0.756	88.80	166.48	0.00	0.00
4	2002	0.954	0.000	0.658	0.63	167,10	0.00	0.00
5	2003	0.175	12.313	0.572	0.10	167.20	7.04	7.04
6	2004	0.175	12.773	0.497	0.09	167.29	6.35	13.39
7	2005	0.175	13.250	0.432	0.08	167.37	5.73	19.12
8	2006	0.175	13.794	0.376	0.07	167.43	5.19	24.30
9	2007	0.762	14.359	0.327	0.25	167.68	4.69	29.00
10	2003	0.175	14.948	0.284	0.05	167.73	4.25	33.25
11	2009	3.033	15.562	0.247	0.75	168.48	3.85	37.09
12	2010	0.175	16.200	0.215	0.04	168.52	3.48	40.58
13	2011	0.175	16.742	0.187	0.03	168.55	3.13	43.71
14	2012	0.762	17.303	0.163	0.12	168.68	2.81	46.52
15	2013	0.175	17.882	0.141	0.02	168.70	2.53	49.05
16	2014	0.175	18.481	0.123	0.02	168.72	2.27	51.32
17	2015	0.175	19.100	0.107	0.02	168.74	2.04	53.36
18	2016	3.033	19.393	0.093	0.28	169.02	1.80	55.16
19	2017	0.762	19.690	0.081	0.06	169.08	1.59	56.75
20	2018	0.175	19.992	0.070	0.01	169.10	1.40	58.16
21	2019	0.175	20.299	0.061	0.01	169.11	1.24	59.40
22	2020	0.175	20.610		0.01	169.12	1.10	60.49
23	2021	0.175	20.957	0.046	0.01	169.12	0.97	61.46
24	2022	0.762	21.309	0.040	0.03	169.16	0.86	62.31
25	2023	3.033	21.668		0.11	169.26	0.76	63.07
26	2024	0.175	22.033		0.01	169.27	0.67	63.74
27	2025	0.175	22.403		0.00	169.27	0.59	64.33
28	2026	0.175	22.780	0.023	0.00	169.28	0.52	64.86
29	2027	0.762	23.163	0.020	0.02	169.29	0.46	65.32
30	2028	0.175	23.553	0.017	0.00	169.29	0.41	65.73
31	2029	0.175	23.949		0.00	169.30	0.36	66.09
32	2030	3.033	24.352	0.013	0.04	169.34	0.32	66.41
33	2031	0.175	24.762	0.011	0.00	169.34	0.28	
34	2032	0.762	25.179		0.01	169.35	0.25	66.94
35	2033	0.175	25.602	0.009	0.00	169.35	0.22	67.16

(No. 5 Mangdichu)

(Cost \* 0.9)

Discount Rate 0.1500

Cost (NPV) 152.63 1RR
Benefit (NPV) 66.94
B.NPV-C.NPV -85.69
B/C Rate 0.439

YEAR		COST	BENEFIT			NET PRESENT	VALUE	
	-	(A)	(B)	(C)	(D) Cost		(E) Benefit	
		[		Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
	<b>-</b>			(r= 15.0 %)		•		
1	1999	7.518	0.000	1.000	7.52	7.52	0.00	0.00
2	2000	71.751	0.000	0.870	62.39	69.91	0.00	0.00
3	2001	105.694	0.000	0.756	79.92	149.83	0.00	0.00
4	2002	0.859	0.000	0.658	0.56	150.39	0.00	0.00
5	2003	0.175	12.313	0.572	0.10	150.49	7.04	7.04
6	2004	0.175	12.773	0.497	0.09	150.58	6.35	13.39
7	2005	0.175	13.250	0.432	0.03	150.66	5.73	19.12
8	2006	0.175	13,794	0.376	0.07	150.72	5.19	24.30
9	2007	0.762	14.359	0.327	0.25	150.97	4.69	29.00
10	2008	0.175	14.948	0.284	0.05	151.02	4.25	33.25
1 F	2009	3.033	15.562	0.247	0.75	151.77	3.85	37.09
12	2010	0.175	16.200	0.215	0.04	151.81	3.48	40.58
13	2011	0.175	16.742	0.187	0.03	151.84	3.13	43.71
14	2012	0.762	17.303	0.163	0.12	151.97	2.81	46.52
15	2013	0.175	17.882	0.141	0.02	151.99	2.53	49.05
16	2014	0.175	18.431	0.123	0.02	152.01	2.27	51.32
17	2015	0.175	19.100	0.107	0.02	152.03	2.04	53.36
18	2016	3.033	19.393	0.093	0.28	152.31	1.80	55.16
19	2017	0.762	19.690	0.031	0.06	152.37	1.59	56.75
20	2018	0.175	19.992	0.070	0.01	152.39	1.40	58.16
21	2019	0.175	20.299	0.061	0.01	152.40	1.24	59.40
22	2020	0.175	20.610	0.053	0.01	152.41	1.10	60.49
23	2021	0.175	20.957	0.046	0.01	152.41	0.97	61.46
24	2022	0.762	21.309	0.040	0.03	152.44	0.86	62.31
25	2023	3.033	21.668	0.035	0.11	152.55	0.76	63.07
26	2024	0.175	22.033	0.030	0.01	152.56	0.67	63,74
27	2025	0.175	22.403	0.026	0.00	152.56	0.59	64.33
28	2026	0.175	22.780	0.023	0.00	152.56	0.52	61.86
29	2027	0.762	23.163	0.020	0.02	152.58	0.46	65.32
30	2028	0.175	23.553	0.017	0.00	152.58	0.41	65.73
31	2029	0.175	23.949	0.015	0.00	152.59	0.36	66.09
32	2030	3.033	24.352	0.013	0.04	152 63	0.32	66.41
33	2031	0.175	24.762	0.011	0.00	152.63	0.28	66.69
34	2032	0.762	25.179	0.010	0.01	152.63	0.25	66.94
35	2033	0.175	25.602	0.009	0.00	152.64	0.22	67.16

(No. 5 Mangdichu)

(Cost \* 1.1)

Discount Rate 0.1500

Cost (NPV) 186.06 IRR
Benefit (NPV) 66.94
B.NPV-C.NPV -119.11
B/C Rate 0.360

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YEAR		COST	BENEFIT			NET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
				(r= 15.0 %)		į		
1	1999	9.188	0.000	1.000	9.19.	9.19	0.00	0.00
2	2000	87.695	0.000	0.870	76.26	85.45	0.00	0.00
3	2001	129.182	0.000	0.756	97.68	183.13	0.00	0.00
4	2002	1.049	0.000	0.658	0.69	183.82	0.00	0.00
5	2003	0.175	12.313	0.572	0.10	183.92	7.01	7.04
6	2004	0.175	12.773	0.497	0.09	184.00	6.35	13.39
7	2005	0.175	13.250	0.432	0.03	184.08	5.73	19.12
8	2006	0.175	13.794	0.376	0.07	184.14	5.19	24.30
9	2007	0.762	14.359	0.327	0.25	184.39	4.69	29.00
10	2008	0.175	14.948	0.284	0.05	184.44	4.25	33.25
13	2009	3.033	15.562	0.247	0.75	185.19	3.85	37.09
12	2010	0.175	16.200	0.215	0.04	185.23	3.48	40.58
13	2011	0.175	16.742	0.187	0.03	185.26	3.13	43.71
14	2012	0.762	17.303	0.163	0.12	185.39	2.81	46.52
15	2013	0.175	17.882	0.141	0.02	185.41	2.53	49.05
16	2014	0.175	18.481	0.123	0.02		2.27	51.32
17	2015	0.175	19.100	0.107	0.02	185.45	2.04	53.36
18	2016	3.033	19.393	0.093	0.28	185,73	. 1.80	55.16
19	2017	0.762	19.690	0.081	0.06	185.79	1.59	56.75
20	2018	0.175	19.992	0.070	0.01	185.81	1.40	58.16
21	2019	0.175	20.299		0.01	185.82	1.24	59.40
22	2020	0.175	20.610		10.0	185.83	1.10	60.49
23	2021	0.175	20.957		0.01	185.84	0.97	61.46
24	2022	0.762	21.309	0.040	0.03	185.87	0.86	62.31
25	2023	3.033	21.668	0.035	0.11	185.97	0.76	63.07
26	2024	0.175	22.033		0.01	185.98	0.67	63.74
27	2025	0.175	22.403		0.00		0.59	64.33
28	2026	0.175	22.780		0.00		0.52	64.86
29	2027	0.762	23.163	0.020	0.02		0.46	65.32
30	2028	0.175	23.553		0.00		0.41	65.73
31	2029	0.175	23.949		0.00		0.36	66.09
32	2030	3.033	24.352		0.04	186.05	0.32	66,41
33	2031	0.175	24.762		0.00		0.28	66.69
34	2032	0.762	25.179		0.01	186.06	0.25	66.94
35	2033	0.175	25.602	0.009	0.00	186.06	0.22	67.16

(No. 5 Mangdichu)

(Two yeras delay)

Discount Rate 0.1500

Cost (NPV) 128.05 IRR Benefit (NPV) 53.95 B.NPV-C.NPV -74.10 B/C Rate 0.421

(EAR		COST	BENEFIF			NET	PRESENT V	ALUE
		(A)	(B)	(C)	(D) Cost		(E) Benefit	T
			ŀ	Discount Rate	(AxC)	Accumulated	(8xC)	Accumulated
				(r= 15.0 %)			<b>( /</b>	
I	1999	0.000	0.000	1.000	0.00	0.00	0.00	0.0
2	2000	0.000	0.000	0.870	0.00	0.00	0.00	0.0
3	2001	8.353	0.000	0.756	6.32	6.32	0.00	0.0
4	2002	79.723	0.000	0.658	52.42	58.74	0.00	0.0
5	2003	117.438	0.000	0.572	67.15	125.88	0.00	
6	2001	0.954	0.000	0.497	0.47	126.36	0.00	
7	2005	0.175	13.250	0.432	0.08	126.43	5.73	5.7.
8	2006	0.175	13.794	0.376	0.07	126.50	5.19	10.9
9	2007	0.175	14.359	0.327	0.06	126.55	4.69	15.6
10	2008	0.175	14.948	0.284	0.05	126.60	4.25	19.80
11	2009	0.762	15.562	0.247	0.19	126.79	3.85	23.70
12	2010	0.175	16.200	0.215	0.04	126.83	3.48	27.19
13	2011	3.033	16.742	0.187	0.57	127.40	3.13	30.32
14	2012	0.175	17.303	0.163	0.03	127,42	2.81	33.13
15	2013	0.175	17.882	0.141	0.02	127.45	2.53	35.65
16	2014	0.762	18.481		0.09	127.54	2 27	37.9
17	2015	0.175	19.100	0.107	0.02	127.56	2.04	39.93
18	2016	0.175	19.393	0.093	0.02	127.58	1.80	41.77
19	2017	0.175	19.690	0.081	0.01	127.59	1.59	43.36
20	2018	3.033	19.992	0.070	0.21	127.81	1.40	44.76
21	2019	0.762	20.299	0.061	0.05	127.85	1.24	46.01
22	2020	0.175	20.610	0.053	0.01	127.86	1.10	47.10
23	2021	0.175	20.957	0.046	0.01	127.87	0.97	48.07
24	2022	0.175	21.309	0.040	0.01	127.88	0.86	43.92
25	2023	0.175	21.668	0.035	0.01	127.88	0.76	49.68
26	2024	0.762	22.033	0.030	0.02	127.91	0.67	50.35
27	2025	3.033	22.403	0.026	0.08	127.99	0.59	50.94
28	2026	0.175	22,780	0.023	0.00	127.99	0.52	51.47
29	2027	0.175	23.163	0.020	0.00	127.99	0.46	51.93
30	2028	0.175	23.553	0.017	0.00	128.00	0.41	52.34
31	2029	0.762	23.949	0.015	0.01	128.01	0.36	52.70
32	2030	0.175	24.352	0.013	0.00	128.01	0.32	53.02
33	2031	0.175	24,762	0.011	0.00	128.01	0.28	53.30
34	2032	3.033	25.179	0.010	0.03	128.04	0.25	53.55
35	2033	0.175	25.602	0.009	0.00	128.04	0.22	53.77
36	2034	0.762	23.671	0.008	0.01	128.05	0.18	53.95
37	2035	0.175	24.069	0.007	0.00	128.05	0.16	54.11

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(All Bridges)

Discount Rate 0.1500

Cost (NPV) 461.72 IRR
Benefit (NPV) 239.22
B.NPV-C.NPV -222.50
B/C Rate 0.518

YEAR		COST	BENEFIT			ET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
		ļ		Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
		i		(r= 15.0 %)				
i	1999	20.833	0.000	1.000	20.88	20.88	0.00	0.00
2	2000	201.996	0.000	0.870	175.65	196.53	0.00	0.00
3	2001	280.652	0.000	0.756	212.21	408.74	0.00	0.00
4	2002	71.958	0.000	0.658	47.31	456.06	0.00	0.00
5	2003	0.455	42.941		0.26	456.32	24.55	24.55
6	2004	0.455	44.425	0.497	0.23	456.54	22.09	46.64
7	2005	0.455	45.960	0.432	0.20	456.74	19.87	66.51
8	2006	0.455	48.158	0.376	0.17	456.91	18.10	84.61
9	2007	2.153	50.460	0.327	0.70	457.62	16.50	101.11
10	2008	0.455	52.873	0.284	0.13]	457.75	15.03	116.14
11	2009	7.166	55.401	0.247	1.77	459.52	13.69	129.83
12	2010	0.455	58.050	0.215	01.0	459.61	12.48	142.31
13	2011	0.455	60.221	0.187	0.09	459.70	11.26	153.57
14	2012	2.153	62,474	0.163	0.35	460.05	10.15	163.72
15	2013	0.455	64.811	0.141	0.06	460.11	9.16	
16	2014	0.455	67.235	0.123	0.06	460.17	8.26	181.14
17	2015	0.455	69.750	0.107	0.05	460.22	7.45	188.60
18	2016	7.166	71.195	0.093	0.67	460.83	6.62	195.21
19	2017	2.153	72.670	0.081	0.17	461.06	5.87	201.08
20	2018	0.455	74.175		0.03	461.09	5.21	206.30
21	2019	0.455	75.712		0.03		4.63	210.92
22	2020	0.455	77.280		0.02	461.14	4.11	215.03
23	2021	0.455	78.580		0.02	461.16	3.63	218.66
24	2022	2.153	79.902	0.040	0.09	461.25	3.21	221.87
25	2023	7.166	81.247		0.25		2.84	224.71
26	2024	0.455	82.614		0.01	461.51	2.51	
27	2025	0.455	84.004		0.01		2.22	
28	2026	0.455	85.417		10.0		1.96	
29	2027	2.153	86.855		0.04		1.73	
30	2028	0.455	88.316		0.01	461.59	1.53	
31	2029	0.455	89.802		0.01	461.59		
32	2030	7.166	91.313		0.09	461.69	1.20	
33	2031	0.455	92.849		0.01		1.06	
34	2032	2.153	94.411		0.02		0.94	
35	2033	0.455	96.000	0.009	0.00	461.72	0.83	240.05

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Senefit (Na,1 - Na.4)

(No.1 ~ No.4)

Discount Rate 0.1500

Cost (NPV) 292.37 IRR
Benefit (NPV) 149.29
B.NPV-C.NPV -143.08
B/C Rate 0.511

YEAR	T	COST	BENEFIT		. ]	NET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
				(r= 15.0 %)				
1	1999	12.530	0.000	1.000	12.53	12.53	0.00	0.0
2	2000	122.273	0.000	0.870	106.32	118.85	0.00	0.0
3	2001	163.214	0.000	0.756	123.41	242.27	0.00	0.0
4	2002	71.004	0.000	0.658	46.69	288.95	0.00	0.0
5	2003	0.280	26.722	0.572	0.16	289.11	15.28	15.2
6	2004	0.280	27.669	0.497	0.14	289.25	13.76	29.0
7	2005	0.280	28.650	0.432	0.12	289.37	12.39	41.4
8	2006	0.280	30.007	0.376	0.11	289.48	11.28	52.7
9	2007	1.391	31.429	0.327	0.45	289.93	10.27	62.9
10	2008	0.280	32.917	0.284	0.08	290.01	9.36	72.3
H	2009	4.133	34.477	0.247	1.02	291.04	8.52	80.8
12	2010	0.280	36.110	0.215	0.06	291.10	7.76	88.6
13	2011	0.280	37.494	0.187	0.05	291.15	7.01	95.6
14	2012	1.391	38.931	0.163	0.23	291.37	6.33	
15	2013	0.280	40.423	0.141	0.04	291.41	5.71	107.6
16	2014	0.280	41.972	0.123	0.03	291.45	5.16	112.8
17	2015	0.280	43.580	0.107	0.03	291.48	4.66	117.4
18	2016	4.133	44.550	0.093	0.38	291.86	4.14	121.6
19	2017	1.391	45.541	0.081	0.11	291.97	3.68	125.3
20	2018	0.280	46.555	0.070	0.02	291.99	3.27	128.5
21	2019	0.280	47.591	0.061	0.02	292.01	2.91	131.4
22	2020	0.280	48.650	0.053	0.01	292.03	2.58	
23	2021	0.280	49.469	0.046	0.01	292.04	2.29	136.3
24	2022	1.391	50.301	0.040	0.06	292.09	2.02	138.3
25	2023	4.133	51.147	0.035	0.14	292.24	1.79	140.1
26	2024	0.280	52.008	0.030	0.01	292.25	1.58	141.7
27	2025	0.280	52.883	0.026	0.01	292.26	1.40	143.1
28	2026	0.280	53.773	0.023	0.01	292.26	1.24	144.3
29	2027	1.391	54.677	0.020	0.03	292.29	1.09	145.4
30	2028	0.280	55.597	0.017	0.00	292.29	0.97	146.4
31	2029	0.280	56.533	0.015	0.00	292.30	0.85	147.2
32	2030	4.133	57.484	0.013	0.05	292.35	0.75	143.0
33	2031	0.280	58.451	0.011	0.00	292.36	0.67	148.7
34	2032	1.391	59,435	0.010	0.01	292.37	0.59	
35	2033	0.280	60.435		0.00	292.37	0.52	

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(No.1 & No.2 & No.5)

Discount Rate 0.1500

Cost (NPV) 332.15 (RR Benefit (NPV) 66.35 B.NPV-C.NPV -265.80 B/C. Rate 0.200

YEAR		COST	BENEFIT		1	NET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate	(AxC)	Accumulated	(BxC)	Accumulated
				(r= 15.0 %)				
i	1999	14.617	0.000	1.000	14.62	14.62	0.00	0.00
2	2000	193.411	0.000	0.870	168.18	182.80	0.00	0.00
3	2001	189.654	0.000	0.756	143.41	326.21	0.00	0.00
4	2002	2.862	0.000	0.658	1.83	328.09	0.00	0.00
5	2003	0.315	11.947	0.572	0.18	328.27	6.83	6.83
6	2004	0.315	12.318	0.497	0.16	328,42	6.12	12.95
7	2005	0.315	12.700	0.432	0.14	328.56	5.49	18.45
8	2006	0.315	13.342	0.376	0.12	328.68	5.02	23.46
9	2007	1.585	14.016	0.327	0.52	329.20	4.58	28.04
10	2008	0.315	14.724	0.284	0.09	329.29	4.19	32.23
13	2009	5.182	15.468		1.28	330.57	3.82	36.05
12	2010	0.315	16.250		0.97	330.64	3.49	39.54
13	2011	0.315	16.848	0.187	0.06	330.69	3.15]	42.69
14	2012	1.585	17.469	0.163	0.26	330.95	2.84	45.53
15	2013	0.315	18.112	0.141	0.04	331.00	2.56	48.09
16	2014	0.315	18.779	0.123	0.04	331.04	2.31	50.40
17	2015	0.315	19.470		0.03	331.07	2.08	52.48
18	2016	5.182	19.778	0.093	0.48	331.55	1.84	54.32
19	2017	1.585	20.091		0.13	331.68	1.62	55.94
20	2018	0.315	20.409		0.02	331.70	F.43	57.38
21	2019	0.315	20.732		0.02	331.72	1.27	58.64
22	2020	0.315	21.060		0.02	331.74	1.12	59.76
23	2021	0.315	21.414		0.01	331.75	0.99	60.75
24	2022	1.585	21.775		0.06	331.81	0.87	61.63
25	2023	5.182	22.141		0.18	332.00	0.77	62.40
26	2024	0.315	22.514		0.01	332.01	0.68	63.08
27	2025	0.315	22.892		0.01	332.01	0.60	63.69
28	2026	0.315	23.278		0.01	332.02	0.53	64.22
29	2027	1.585	23,669	0.020	0.03	332.05	0.47	64.70
30	2028	0.315	24.067		0.01	332.06	0.42	65.11
31	2029	0.315	24.472		0.00	332.06	0.37	65.48
32	2030	5.182	24.884		0.07	332.13	0.33	65.81
33	2031	0.315	25.303		0.00	332.13	0.29	66.10
34	2032	1.585	25.729		0.02	332.15	0.26	66.35
35	2033	0.315	26.161	0.009	0.00	332.15	0.23	66.58

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Benefit (No.3 & No.4 & No.5)

Discount Rate 0.1500

Cost (NPV) 306.47 IRR
Benefit (NPV) 135.35
B.NPV-C.NPV -171.12
B/C Rate 0.442

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YEAR		COST	BENEFIT		1	NET PRESENT	VALUE	
		(A)	(B)	(C)	(D) Cost		(E) Benefit	
				Discount Rate	(AxC)	Accomulated	(BxC)	Accumulated
				(r= 15.0 %)		•		
i	1999	14.617	0.000	1.000	14.62	14.62	0.00	0.00
2	2000	88.309	0.000	0.870	76.79	91.41	0.00	0.00
3	2001	218.437	0.000	0.756	165.17	256.58	0.00	0.00
4	2002	70.050	0.000	0.658	46.06	302.64	0.00	0.00
5	2003	0.315	24.308	0.572	0.18	302.82	13.90	13.90
6	2004	0.315	25.077	0.497	0.16	302.97	12.47	26.37
7	2005	0.315	25.870	0.432	0.14	303.11	11.18	37.55
8	2006	0.315	27.179	0.376	0.12	303.23	10.22	47.77
9	2007	1.330	28.554	0.327	0.43	303.66	9.33	57.10
10	2008	0.315	29.998	0.284	0.09	303.75	8.53	65.63
11	2009	5.017	31.516	0.247	1.24	304.99	7.79	73.42
12	2010	0.315	33.110	0.215	0.07	305.06	7.12	80.54
13	2011	0.315	34.296	0.187	0.05	305.12	6.41	86.95
14	2012	1.330	35.524	0.163	0.22	305.33	5.71	92.72
15	2013	0.315	36.797		0.04	305.38	5.20	97.92
16	2014	0.315	38.115	0.123	0.04	305.42	4.68	102.60
17	2015	0.315	39.480	0.107	0.03	305.45	4.22	106.82
18	2016	5.017	40.251	0.093	0.47	305.92	3.74	110.56
19	2017	1.330	41.038	0.081	0.11	306.03	3.32	113.88
20	2018	0.315	41.839	0.070	0.02	306.05	2.94	116.82
21	2019	0.315	42.657	0.061	0.02	306.07	2.61	119.43
22	2020	0.315	43.490		0.02	306.08	2.31	121.74
23	2021	0.315	44.222	0.046	0.01	306.10	2.04	123.78
24	2022	1.330	44.966	0.040	0.05	306.15	1.81	125.59
25	2023	5.017	45.722	0.035	0.18	306.33	1.60	127.18
26	2024	0.315	46.492	0.030	0.01	306.34	1.41	128.60
27	2025	0.315	47.274	0.026	0.01	306.34	1.25	129.84
28	2026	0.315	48.069	0.023	0.01	306.35	01.1	130.95
29	2027	1.330	48.878		0.03	306.38	0.98	131.93
.30	2028	0.315	49.701	0.017	0.01	306.38	0.86	132.79
31	2029	0.315	50.537		0.00	306.39	<b>0</b> .76	
32	2030	5.017	51.387	0.013	0.07	306.45	0.67	134.23
33	2031	0.315	52.252		0.00	306.46	0.60	134.82
34	2032	1.330	53.131	0,010	0.01	306.47	0.53	135.35
35	2033	0.315	54.025	0.009	0.00	306.47	0.47	135.82





