

Processing Apples: Base yield and price

Trees = 200

Price per Bushel = \$3.50

Packout Rate = 100%

Discount Factor = 6%

Harvest Cost = \$1.10

Land Value = \$2000

Processing Apples: Base yield and price

Year	Yield per Tree (Bu)	Yield per Acre (Bu)	Gross Income -100%	Annual Labor	Growing Mach	Cost Matls	Total Growing Costs	Total Fixed Costs	Harvest Costs	Net Cash Flow	Discount Factor	Present Value of Net Cash Flow	Accum Present Value of Net Cash Flow	Accum Cash Flow	Year	Net Income (\$/Bu)
Land	0	0	0	0	0	0	2000	0	0	-2000	1.0000	-2000	-2000	-2000	Land	0
Estab	0	0	0	108	35	2676	2819	178	0	-2997	1.0000	-2997	-4997	-4997	Prep	0
1	0	0	0	137	61	98	296	147	0	-443	0.9434	-418	-5415	-5440	1	0
2	0	0	0	148	61	117	326	147	0	-473	0.8900	-421	-5836	-5913	2	0
3	0	0	0	166	61	122	349	147	0	-496	0.8396	-416	-6252	-6409	3	#DIV/0!
4	0.28	51	179	180	119	178	477	293	56	-648	0.7921	-513	-6765	-7057	4	-12.70
5	0.93	168	588	195	119	188	502	293	185	-392	0.7473	-293	-7058	-7448	5	-2.33
6	1.67	302	1057	322	177	362	861	310	332	-446	0.7050	-315	-7373	-7895	6	-1.48
7	2.76	500	1750	353	177	362	892	332	550	-24	0.6651	-16	-7389	-7919	7	-0.05
8	4.42	800	2800	402	177	362	941	332	880	647	0.6274	406	-6983	-7272	8	0.81
9	4.70	850	2975	402	177	362	941	332	935	767	0.5919	454	-6529	-6505	9	0.90
10	4.70	850	2975	402	177	362	941	332	935	767	0.5584	428	-6100	-5738	10	0.90
11	4.70	850	2975	468	177	362	1007	332	935	701	0.5268	369	-5731	-5037	11	0.82
12	5.07	918	3213	468	177	362	1007	332	1010	864	0.4970	430	-5302	-4172	12	0.94
13	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.4688	497	-4804	-3111	13	1.06
14	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.4423	469	-4335	-2050	14	1.06
15	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.4173	443	-3892	-989	15	1.06
16	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3936	418	-3475	72	16	1.06
17	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3714	394	-3081	1133	17	1.06
18	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3503	372	-2709	2194	18	1.06
19	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3305	351	-2358	3255	19	1.06
20	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3118	331	-2027	4316	20	1.06
										2000	0.3118	624	-1404			
	Total	Costs		7250	3015	6035	16300		14618		NPV(6%)	-1404				
	Estab	Costs		2819					IRR =	6%						

Processing Apples: Base with No Yield every 10 years

Processing Apples: Base with No Yield every 10 years

Trees = 200

Price per Bushel = \$3.50

Harvest Cost = \$1.10

Packout Rate = 100%

Land Value = \$2000

Discount Factor = 6%

Growing Costs reduced by 90%

Year	Yield per Tree (Bu)	Yield per Acre (Bu)	Gross Income (80% Pack)	Annual Labor	Growing Mach	Cost Matls	Total Growing Costs	Total Fixed Costs	Harvest Costs	Net Cash Flow	Discount Factor	Present	Accum Present	Accum Cash Flow	Year	Net Income (\$/Bu)
												Value of Net Cash Flow	Value of Net Cash Flow			
Land	0	0	0	0	0	0	2000	0	0	-2000	1.0000	-2000	-2000	-2000	Land	0
Estab	0	0	0	108	35	2676	2819	0	0	-2819	1.0000	-2819	-4819	-4819	Prep	0
1	0	0	0	137	61	98	296	178	0	-474	0.9434	-447	-5266	-5293	1	0
2	0	0	0	148	61	117	326	147	0	-473	0.8900	-421	-5687	-5766	2	0
3	0	0	0	166	61	122	349	147	0	-496	0.8396	-416	-6104	-6262	3	#DIV/0!
4	0.28	51	179	180	119	178	477	147	56	-502	0.7921	-397	-6501	-6764	4	-9.84
5	0.93	168	588	195	119	188	502	293	185	-392	0.7473	-293	-6794	-7155	5	-2.33
6	1.67	302	1057	322	177	362	861	293	332	-429	0.7050	-303	-7096	-7585	6	-1.42
7	2.76	500	1750	353	177	362	892	310	550	-2	0.6651	-1	-7098	-7587	7	0.00
8	0.00	0	0	40	18	36	94	33	0	-127	0.6274	-80	-7177	-7714	8	#DIV/0!
9	4.70	850	2975	402	177	362	941	332	935	767	0.5919	454	-6723	-6947	9	0.90
10	4.70	850	2975	402	177	362	941	332	935	767	0.5584	428	-6295	-6180	10	0.90
11	4.70	850	2975	468	177	362	1007	332	935	701	0.5268	369	-5926	-5479	11	0.82
12	5.07	918	3213	468	177	362	1007	332	1010	864	0.4970	430	-5496	-4614	12	0.94
13	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.4688	497	-4999	-3553	13	1.06
14	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.4423	469	-4530	-2492	14	1.06
15	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.4173	443	-4087	-1431	15	1.06
16	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3936	418	-3669	-370	16	1.06
17	0.00	0	0	47	18	36	101	33	0	-134	0.3714	-50	-3719	-504	17	#DIV/0!
18	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3503	372	-3347	557	18	1.06
19	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3305	351	-2997	1618	19	1.06
20	5.52	1000	3500	468	177	362	1007	332	1100	1061	0.3118	331	-2666	2679	20	1.06
									332	0	2000	0.3118	624	-2042		
	Total		Costs	6467	2697	5383	14547			12638		NVP(6%)	-2042			
	Estab		Costs	2819						IRR =		5%				

Processing Apples: High Price with No Yield every 10 years

Processing Apples: High Price with No Yield every 10 years

Trees = 200

Price per Bushel = 4.50

Harvest Cost = \$1.10

Packout Rate = 100%

Land Value = \$2000

Discount Factor = 6%

Growing Costs reduced by 90%

Year	Yield per Tree (Bu)	Yield per Acre (Bu)	Gross Income (80% Pack)	Annual Labor	Growing Mach	Cost Matis	Total Growing Costs	Total Fixed Costs	Harvest Costs	Net Cash Flow	Discount Factor	Present Value of Net Cash Flow	Accum Present Value of Net Cash Flow	Accum Cash Flow	Year	Net Income (\$/Bu)
Land	0	0	0	0	0	0	2000	0	0	-2000	1.0000	-2000	-2000	-2000	Land	0
Estab	0	0	0	108	35	2676	2819	178	0	-2997	1.0000	-2997	-4997	-4997	Prep	0
1	0	0	0	137	61	98	296	147	0	-443	0.9434	-418	-5415	-5440	1	0
2	0	0	0	148	61	117	326	147	0	-473	0.8900	-421	-5836	-5913	2	0
3	0	0	0	166	61	122	349	147	0	-496	0.8396	-416	-6252	-6409	3	#DIV/0!
4	0.28	51	212	180	119	178	477	293	56	-614	0.7921	-487	-6739	-7023	4	-12.05
5	0.93	168	697	195	119	188	502	293	185	-283	0.7473	-211	-6950	-7306	5	-1.68
6	1.67	302	1253	322	177	362	861	310	332	-250	0.7050	-176	-7126	-7556	6	-0.83
7	2.76	500	2075	353	177	362	892	332	550	301	0.6651	200	-6926	-7255	7	0.60
8	0.00	0	0	40	18	36	94	33	0	-127	0.6274	-80	-7006	-7382	8	#DIV/0!
9	4.70	850	3528	402	177	362	941	332	935	1320	0.5919	781	-6225	-6062	9	1.55
10	4.70	850	3528	402	177	362	941	332	935	1320	0.5584	737	-5488	-4743	10	1.55
11	4.70	850	3528	468	177	362	1007	332	935	1254	0.5268	660	-4828	-3489	11	1.47
12	5.07	918	3810	468	177	362	1007	332	1010	1461	0.4970	726	-4102	-2029	12	1.59
13	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.4688	802	-3300	-318	13	1.71
14	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.4423	757	-2543	1393	14	1.71
15	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.4173	714	-1829	3104	15	1.71
16	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3936	673	-1155	4815	16	1.71
17	0.00	0	0	47	18	36	101	33	0	-134	0.3714	-50	-1205	4681	17	#DIV/0!
18	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3503	599	-606	6392	18	1.71
19	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3305	565	-40	8103	19	1.71
20	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3118	533	493	9814	20	1.71
										2000	0.3118	624	1117			
		Total	Costs	6467	2697	5383	14547		12638		NVP(6%)	1117				
		Estab	Costs	2819					IRR =	9%						

Processing Apples: High price

Trees = 200

Price per Bushel = \$4.15

Packout Rate = 100%

Discount Factor = 6%

Processing Apples: High price

Harvest Cost = \$1.10

Land Value = \$2000

Year	Yield per Tree (Bu)	Yield per Acre (Bu)	Gross Income (80% Pack)	Annual Labor	Growing Mach	Cost Matls	Total Growing Costs	Total Fixed Costs	Harvest Costs	Net Cash Flow	Discount Factor	Present Value of Net Cash Flow	Accum Present Value of Net Cash Flow	Accum Cash Flow	Year	Net Income (\$/Bu)
Land	0	0	0	0	0	0	2000	0	0	-2000	1.0000	-2000	-2000	-2000	Land	0
Estab	0	0	0	108	35	2676	2819	178	0	-2997	1.0000	-2997	-4997	-4997	Prep	0
1	0	0	0	137	61	98	296	147	0	-443	0.9434	-418	-5415	-5440	1	0
2	0	0	0	148	61	117	326	147	0	-473	0.8900	-421	-5836	-5913	2	0
3	0	0	0	166	61	122	349	147	0	-496	0.8396	-416	-6252	-6409	3	#DIV/0!
4	0.28	51	212	180	119	178	477	293	56	-614	0.7921	-487	-6739	-7023	4	-12.05
5	0.93	168	697	195	119	188	502	293	185	-283	0.7473	-211	-6950	-7306	5	-1.68
6	1.67	302	1253	322	177	362	861	310	332	-250	0.7050	-176	-7126	-7556	6	-0.83
7	2.76	500	2075	353	177	362	892	332	550	301	0.6651	200	-6926	-7255	7	0.60
8	4.42	800	3320	402	177	362	941	332	880	1167	0.6274	732	-6194	-6088	8	1.46
9	4.70	850	3528	402	177	362	941	332	935	1320	0.5919	781	-5413	-4768	9	1.55
10	4.70	850	3528	402	177	362	941	332	935	1320	0.5584	737	-4676	-3449	10	1.55
11	4.70	850	3528	468	177	362	1007	332	935	1254	0.5268	660	-4016	-2195	11	1.47
12	5.07	918	3810	468	177	362	1007	332	1010	1461	0.4970	726	-3290	-735	12	1.59
13	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.4688	802	-2488	976	13	1.71
14	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.4423	757	-1731	2687	14	1.71
15	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.4173	714	-1017	4398	15	1.71
16	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3936	673	-343	6109	16	1.71
17	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3714	635	292	7820	17	1.71
18	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3503	599	891	9531	18	1.71
19	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3305	565	1457	11242	19	1.71
20	5.52	1000	4150	468	177	362	1007	332	1100	1711	0.3118	533	1990	12953	20	1.71
										2000	0.3118	624	2614			
	Total		Costs	7250	3015	6035	16300		14618		NVP(6%)	2614				
	Estab		Costs	2819					IRR =	11%						