

Planning Orchard Investments in a Rapidly Changing Market Place

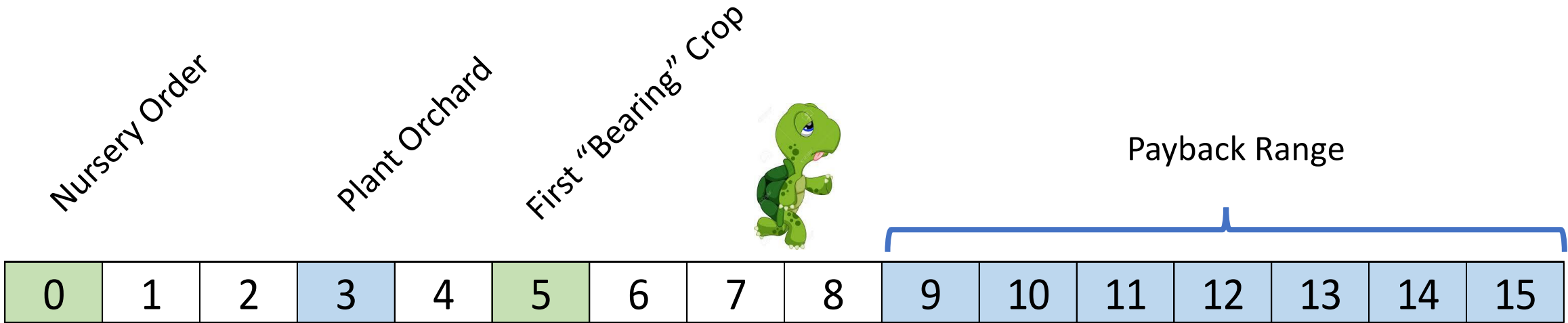
Matt Wells



Orchard Investments and Changing Market Place



Orchard Investment Timeline





- Retailers
- Consumer Demographics
- Produce Category
- Apple Industry



As individual growers, you can't.....?

My Goal Today



To give you a methodology for
making your orchard
investment decisions



Investing in the Stock Market

What steps would you take to invest money in the stock market or other investment options?



Major Steps:

- Establish objectives, goals
- Meet with an advisor
- Conduct research
- Review current portfolio
- Conduct analysis
- Make your investment



Establish Objectives/Goals

Baseline Information:

- Balance sheet – equity ratio, cash
- Current portfolio - variety mix, bearing/non-bearing
- Forecasted cash flow

Objectives/Goals Questions:

- Risk tolerance
- Short-term vs. Long-term view
- What are you trying to achieve?



Advisors and Research

Advisors:

- Banker
- Sales/marketing
- Field staff

Research:

- Production trends
- Planting trends
- Return trends
- Travel
- Retail/consumer data

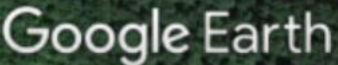


Review Current Portfolio

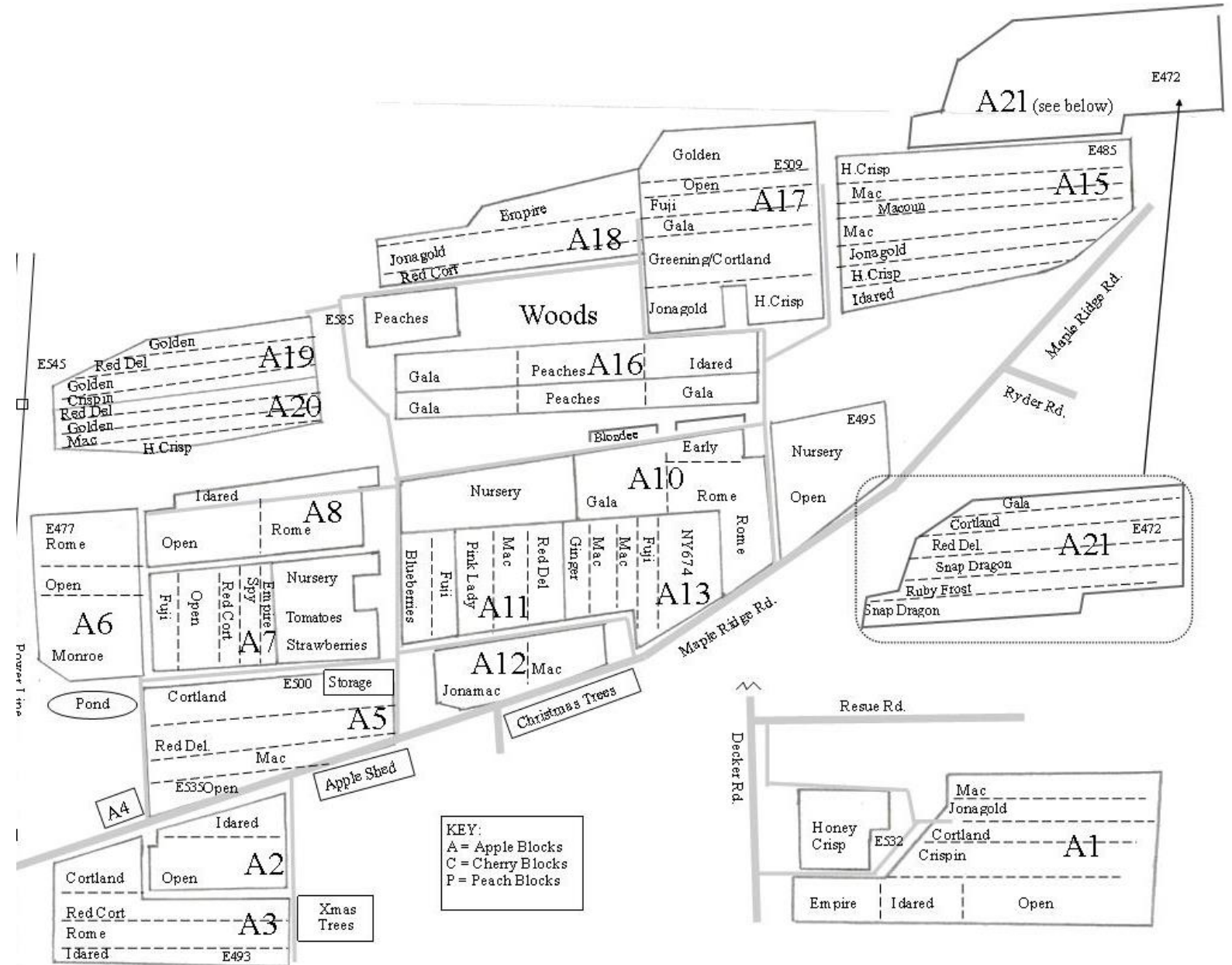
What to Review:

- List of investments (orchards/blocks)
 - Variety, Strain
 - Rootstock
 - Age
 - Yields
 - Gross Returns





- 74 Apple Investments
- From 1958-2019
- 28 Varieties
- 4 Orchard Systems:
 - Free Standing – LD
 - Free Standing – MD
 - Vertical Axe
 - Tall Spindle
- 13 Rootstocks
- Grown For:
 - Retail Farm Mkt.
 - Processing (sauce/slice)
 - Fresh Wholesale



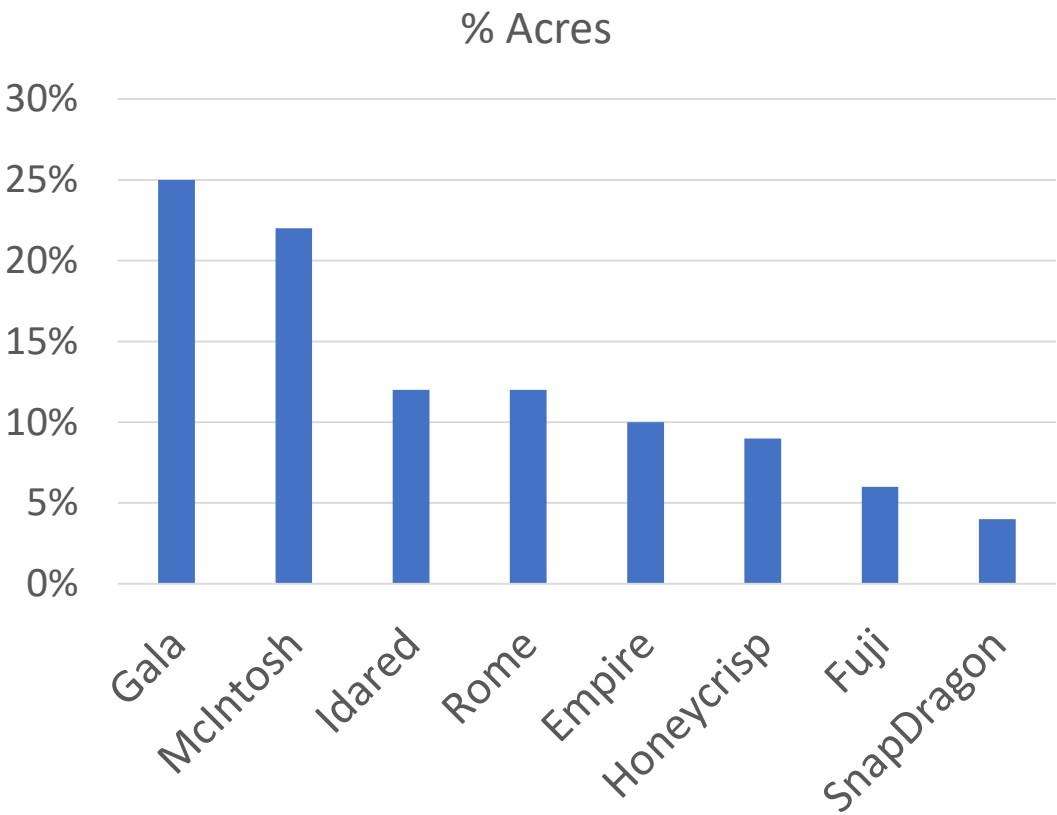
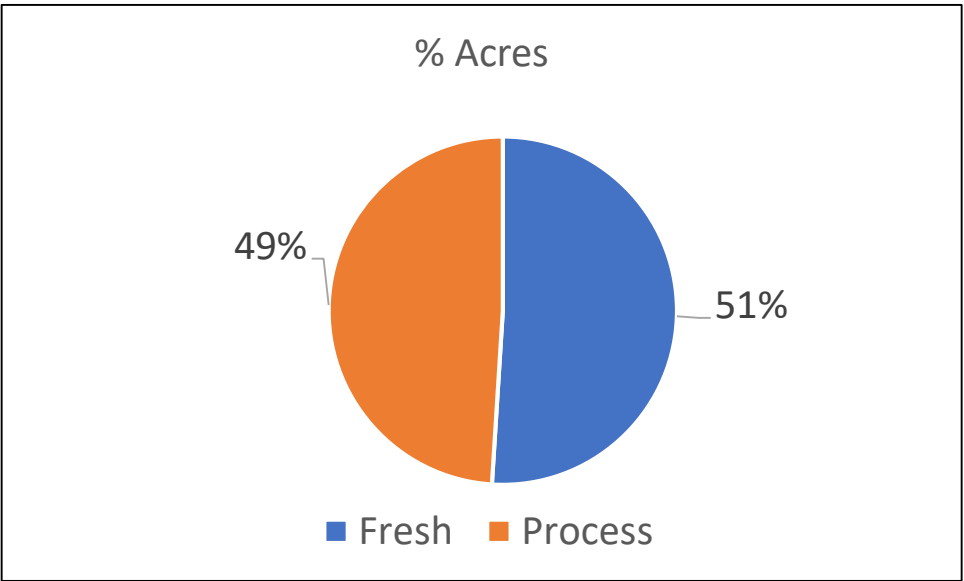
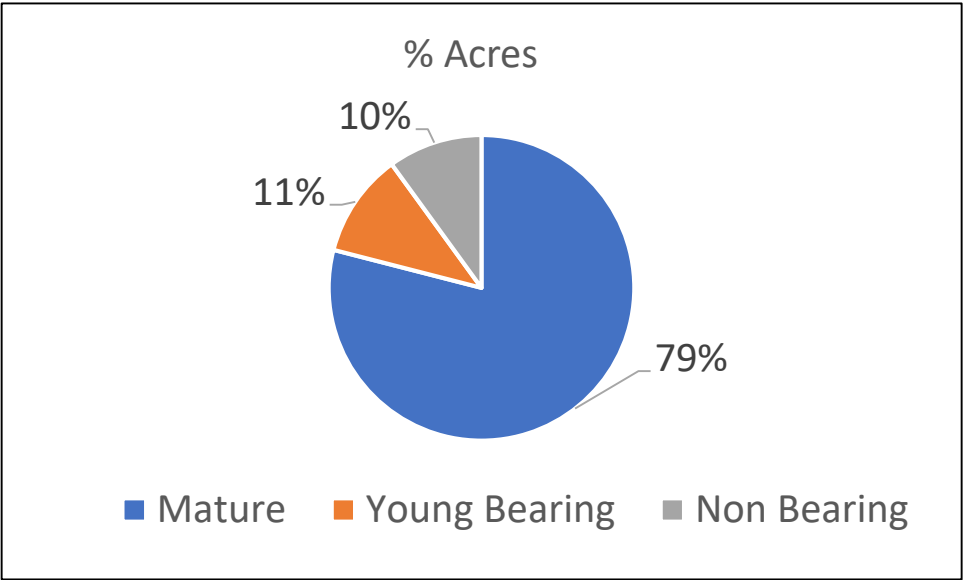
Review Portfolio (hypothetical orchard)

Block	Variety	Strain	Acres	Tree	Row	Density	Root	Age	Avg. Yield	Gross/Ac.	Bearing?	F/P
1	McIntosh	Roger	15.0	12	20	182	M26	25	1,400	\$ 7,000	Mature	Process
1	Idared		12.0	12	20	182	M111	25	1,500	\$ 8,250	Mature	Process
1	Rome		12.0	10	20		M111	25	1,400	\$ 7,350	Mature	Process
2	Gala	Fulford	13.0	10	18	242	M26	15	1,100	\$ 9,900	Mature	Fresh
2	Empire	Royal	10.0	10	18	242	M26	15	1,000	\$ 7,000	Mature	Process
3	Gala	Brookfield	6.0	6	14	519	M9	7	1,000	\$ 11,250	Mature	Fresh
3	McIntosh	Linda	7.0	6	14	519	M9	7	1,200	\$ 7,800	Mature	Fresh
3	Honeycrisp		4.0	6	14	519	M9	7	900	\$ 22,500	Mature	Fresh
4	Gala	Brookfield	3.0	2	11	1,980	M9	3	300	\$ 3,750	Young Bearing	Fresh
4	Honeycrisp		5.0	2	11	1,980	M9	3	250	\$ 6,250	Young Bearing	Fresh
4	Fuji	Aztec	3.0	2	11	1,980	B9	3	300	\$ 4,500	Young Bearing	Fresh
5	Fuji	Aztec	3.0	2	11	1,980	G41	1	-	\$ -	NonBearing	Fresh
5	Gala	Buckeye	3.0	2	11	1,980	B9	1	-	\$ -	NonBearing	Fresh
5	SnapDragon		4.0	2	11	1,980	G41	1	-	\$ -	NonBearing	Fresh

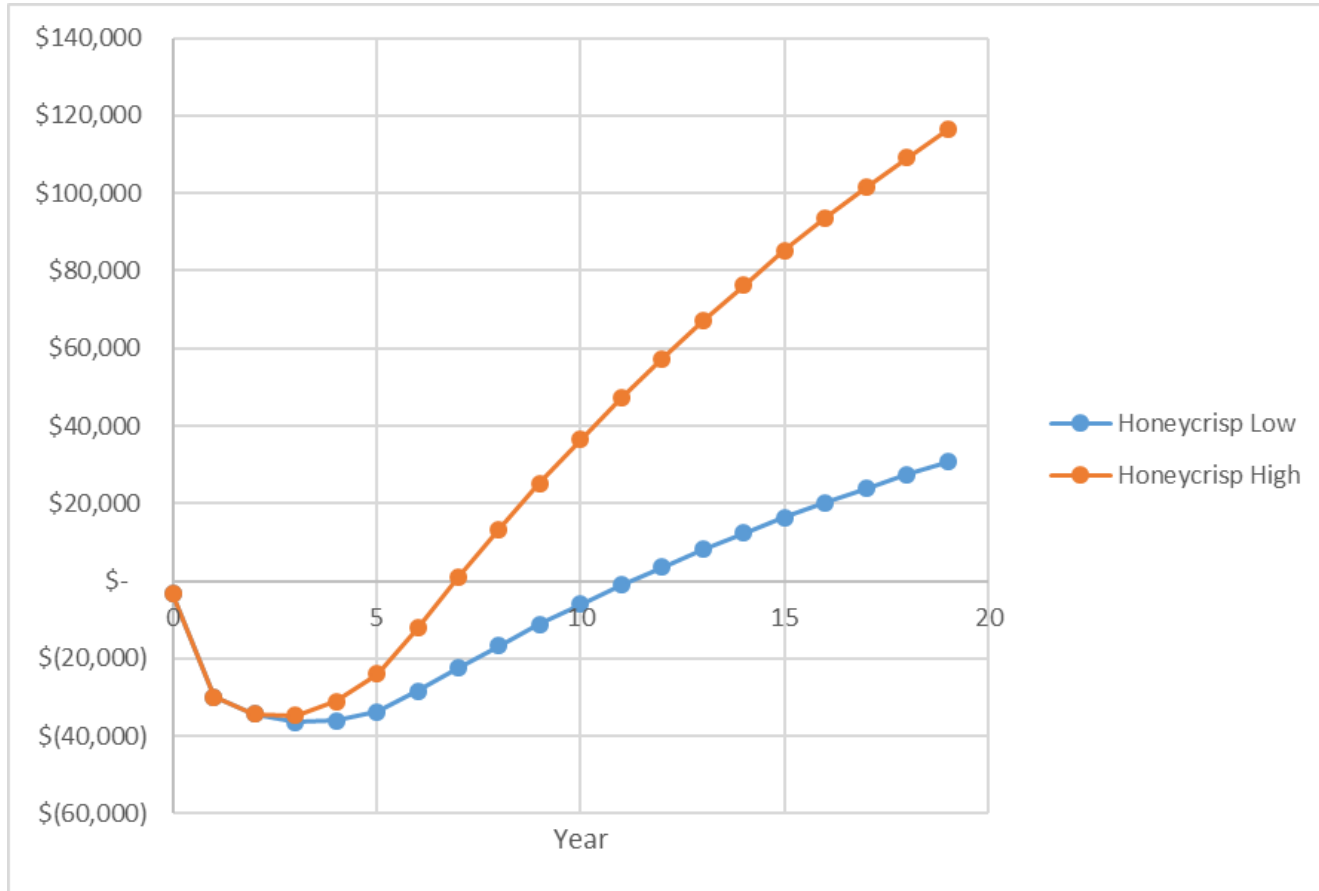
Analyze Data (hypothetical orchard)

Block	Variety	Strain	Acres	Tree	Row	Density	Root	Age	Avg. Yield	Gross/Ac.	Bearing?	F/P
3	Honeycrisp		4.0	6	14	519	M9	7	900	\$ 22,500	Mature	Fresh
3	Gala	Brookfield	6.0	6	14	519	M9	7	1,000	\$ 11,250	Mature	Fresh
2	Gala	Fulford	13.0	10	18	242	M26	15	1,100	\$ 9,900	Mature	Fresh
1	Idared		12.0	12	20	182	M111	25	1,500	\$ 8,250	Mature	Process
3	McIntosh	Linda	7.0	6	14	519	M9	7	1,200	\$ 7,800	Mature	Fresh
1	Rome		12.0	10	20		M111	25	1,400	\$ 7,350	Mature	Process
1	McIntosh	Roger	15.0	12	20	182	M26	25	1,400	\$ 7,000	Mature	Process
2	Empire	Royal	10.0	10	18	242	M26	15	1,000	\$ 7,000	Mature	Process

Analyze Data



Payback Analysis



- Conduct payback analysis:
 - Spreadsheet tool on the LOF website under “business” named “Apple System Payback Calculator”
- Know your costs of production:
 - LOF recently released Farm Business Summary

Important Analysis!

Two Main Factors:

1. Land constrained or have open ground
2. Financial status and future cash flow



Create A Plan

Goals:

- 30% Process, 70% Fresh
- 5% Renewal rate
- Improve quality/pack-outs

Market	Current	Target
Process	49%	30%
Fresh	51%	70%
Fresh	Current	Target
Gala, HC, Fuji	40%	50%
Clubs/New	4%	10%
Other (Macs)	7%	10%

Year	Plant	Acres	Remove	Acres
2021	Honeycrisp	5	McIntosh	5
2022	Pink Lady	5	McIntosh	5
2023	Fuji	5	Empire	5
2024	Gala	5	Empire	5
2025	Rome	5	Empire	5
2026	Idared	5	McIntosh	5
2027	Fresh	5	Gala	5
2028	Fresh	5	Gala	5
2029	Process	5	McIntosh	5
2030	Fresh	5	Rome	5

My Goal Today



To give you a methodology for
making your orchard
investment decisions



#1 Question?

What to Plant?!!



Variety Rank by FOB (2018/19)

VARIETY		
HONEYCRISP	\$50-60	<i>Money Makers</i>
SWEETANGO		
EVER CRISP		
SNAPDRAGON	\$30-40	<i>Wannabees</i>
RUBYFROST		
KORU		
FUJI	\$25-30	<i>Bread and Butter</i>
PINK LADY		
GALA		
GOLDENs	\$20-25	<i>Traditionals</i>
MCINTOSH		
MACOUN		
CORTLAND	\$20 and lower	<i>On the Out</i>
RED DELICIOUS		
GINGERGOLD		
ACEY MAC		
EMPIRE		
JONAGOLD		



FOB Impact on Gross

Average FOB (\$/box)

	\$ 10	\$ 15	\$ 20	\$ 25	\$ 30	\$ 35	\$ 40	\$ 45	\$ 50	
20	\$ (80)	\$ 1,400	\$ 2,880	\$ 4,340	\$ 5,820	\$ 7,280	\$ 8,760	\$ 10,240	\$ 11,700	Gross \$/Acre
30	\$ (120)	\$ 2,100	\$ 4,320	\$ 6,510	\$ 8,730	\$ 10,920	\$ 13,140	\$ 15,360	\$ 17,550	
40	\$ (160)	\$ 2,800	\$ 5,760	\$ 8,680	\$ 11,640	\$ 14,560	\$ 17,520	\$ 20,480	\$ 23,400	
50	\$ (200)	\$ 3,500	\$ 7,200	\$ 10,850	\$ 14,550	\$ 18,200	\$ 21,900	\$ 25,600	\$ 29,250	
60	\$ (240)	\$ 4,200	\$ 8,640	\$ 13,020	\$ 17,460	\$ 21,840	\$ 26,280	\$ 30,720	\$ 35,100	
70	\$ (280)	\$ 4,900	\$ 10,080	\$ 15,190	\$ 20,370	\$ 25,480	\$ 30,660	\$ 35,840	\$ 40,950	
80	\$ (320)	\$ 5,600	\$ 11,520	\$ 17,360	\$ 23,280	\$ 29,120	\$ 35,040	\$ 40,960	\$ 46,800	
90	\$ (360)	\$ 6,300	\$ 12,960	\$ 19,530	\$ 26,190	\$ 32,760	\$ 39,420	\$ 46,080	\$ 52,650	
100	\$ (400)	\$ 7,000	\$ 14,400	\$ 21,700	\$ 29,100	\$ 36,400	\$ 43,800	\$ 51,200	\$ 58,500	

Operating Cost + Capex + Debt Service + Owner Pay = \$9,000

Assumptions: 80% pack-out, tray/poly pack charges, storage, MCP, commission

Mix Matters....A Lot

Mix Scenarios	A	B	C	D	E
On the Out	45%	40%	35%	25%	0%
Traditionals	35%	35%	25%	20%	20%
Bread Butter	20%	20%	25%	30%	55%
Wannabees	0%	0%	5%	10%	10%
Money Makers	0%	5%	10%	15%	15%
Avg. FOB	\$ 19.88	\$ 21.75	\$ 24.63	\$ 27.63	\$ 29.50
Gross/Acre	\$ 7,108	\$ 8,488	\$ 10,605	\$ 12,815	\$ 14,203
Net Less \$6,700	\$ 408	\$ 1,788	\$ 3,905	\$ 6,115	\$ 7,503
Net Less \$8,950	\$ (1,843)	\$ (463)	\$ 1,655	\$ 3,865	\$ 5,253

Assumptions: 50 bins/acre, 80% pack-out, tray/poly pack charges, storage, MCP, commission

Clubs/New Varieties



- Nielsen 57 listed varieties
- Retailer fatigue
- Retail SKU rationalization
- What do consumers think or want?
- Investment and marketing costs

Planting Systems

- Combination of a high density system and a high returning variety will pay back the soonest.
- High density systems generally produce higher quality fruit



Summary

1. Be methodical with approach to investing
2. Build a portfolio that aligns with objectives
3. Do the math
4. Make decisions with all stakeholders
5. Conduct review/analysis one time per year

