### MAPLE START-UP INVESTMENT AND FINANCIAL BENCHMARKS

Thanks for joining us today.
The presentation will begin shortly.

Everyone will be muted for the first portion of the presentation and you will be able to unmute yourself for the question/answer period.

You can type comments or questions into the CHAT feature at any time.



Funding Provided by: USDA Agricultural Marketing Service: Acer Development Grant

## MAPLE START-UP INVESTMENT AND FINANCIAL BENCHMARKS

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Rob Guay Viewpoint Ag Valuation and Consulting



Funding Provided by: USDA Agricultural Marketing Service: Acer Development Grant





**Business Plan** 



Ask the Team



Legal Resources and Templates



Forestry

#### Sugarbush Lease 2020: An Annotated Guide

Annette Higby, Attorney at Law Mark Cannella, UVM Extension Associate Professor Mark Isselhardt, UVM Extension Maple Specialist

FBFS031-1/20

Acer Series: Maple Forest Business Development
Visit www.maplemanarer.org for maple development resources

#### About This Guide

This educational resource is designed for maple syrup producers, maple sap producers and forest land owners to consider, discuss and formalize lease agreements. This resource is not intended to replace the guidance of a legal professional. The situation for each person and party is different and professional legal assistance is recommended to ensure your business agreements are accurate, appropriate and complete.



#### Visit the <u>Upcoming Events</u> page to register for upcoming webinars

Date	Time	Тор
Wednesday, July 21 <sup>st</sup>	7 pm EST	Total Yields from Red Maple
Wednesday, July 28 <sup>th</sup>	7 pm EST	Maple Start-Up Profiles and Financial Benchmarks
Wednesday, August 11 <sup>th</sup>	7 pm EST	Best Practices for Birch Syrup Flavor
Wednesday, August 25 <sup>th</sup>	7 pm EST	Sugarbush Inventory Methods
Wednesday, September 15 <sup>th</sup>	7 pm EST	Sap-Only Enterprises
Wednesday, September 29 <sup>th</sup>	7 pm EST	Binding Contracts and Legal Agreements
Wednesday, October 13 <sup>th</sup>	7 pm EST	Maple Forests and Carbon
Wednesday, October 27 <sup>th</sup>	7 pm EST	Northeast Forest Land Taxes and Programs

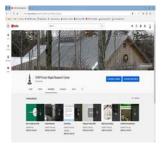




#### www.mapleresearch.org

Recent maple resources

Papers (Maple Syrup Digest, Maple News, etc)



#### UVM Proctor Maple YouTube Channel

Videos on production techniques, grading, research, etc.



**UVM Extension Maple Program** 

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#### NORTHEAST MAPLE BENCHMARK

- Financial Analysis in NY, VT, NH, ME, MA
- Looking for more participants
  - Syrup: ~15,000 tap and higher
  - With Retail: \$100,000 sales and higher
- Sap-Only: looking for case studies





#### FINANCIAL BENCHMARKS

- ☐ A way to measure and identify the <a href="business situation">business situation</a>
- ☐ A way to monitor business performance over time.
- ☐ Information to support start-ups and capital access.



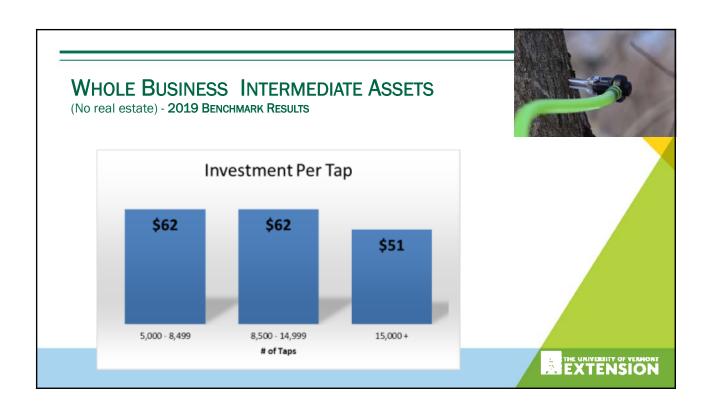
THE UNIVERSITY OF VERHORT EXTENSION

#### COST OF PRODUCTION- 2019 BENCHMARK RESULTS

- ☐ Marketing strategies are a significant driver of costs
- ☐ Large Bulk Producers demonstrate lower costs: ~\$1.80 per pound \$2.20 per pound
- ☐ Mixed Bulk and Wholesale/Resale demonstrate higher costs: <u>~\$3.38 per pound or ~\$40 per gallon</u>
- ☐ Profitability is not always directly linked to low production costs or scale of the operation
- ☐ Managers must assess the interaction of costs vs. revenue for their specific business







#### START-UP INVESTMENT RESEARCH

Special Thanks to Rob Guay (Viewpoint Ag Valuation & Consulting)

- lue Average costs from equipment manufacturers
- ☐ Two Business Activities
  - Sap Collection
  - Sap-to-Syrup Processing
- ☐ Several Scales and Growth Stages



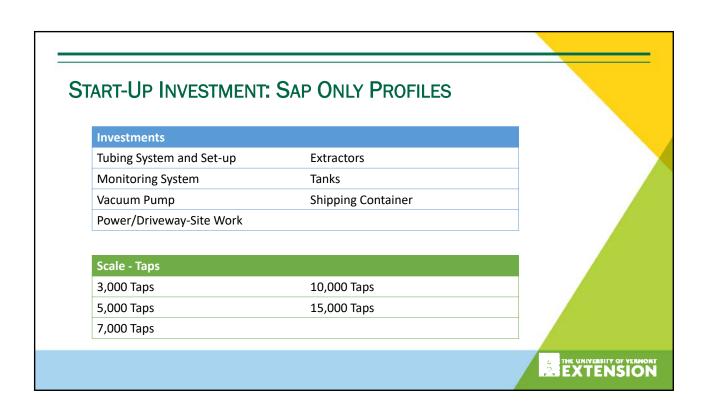
#### START-UP INVESTMENT: THE PROFILES

#### Sap Only

#### Assumptions:

- Sap Picked up at the tank by sap buyer (see additional truck cost estimate).
- Retail costs minus typical 10% dealer discount
- Includes 40 ft. shipping container with insulated pump room
- Includes limited site work, 200 Amp service hook-up





#### SAP ONLY: 3,000 TAPS **Equipment** 3,000 Taps Vacuum Pump \$ 4,698 Extractor \$ 3,239 Tanks \$ 4,534 **Tubing** \$ 45,000 Monitoring System \$ 5,578 **Shipping Container** \$ 5,000 Power/Driveway \$ 5,000 **Total** \$73,142 Per Tap \$24.38 THE UNIVERSITY OF VERHORT

#### SAP ONLY

	3,000 Taps	5,000 Taps	7,000 Taps
Total	<u>\$73,000</u>	<u>\$110,000</u>	\$149,000
Per Tap	\$24.00	\$22.00	\$21.00

	10,000 Taps	15,000 Taps
Total	<u>\$205,000</u>	<u>\$306,000</u>
Per Tap	\$21.50	\$20.50

Real Estate will be added later Truck Hauling: add \$3-\$8 per tap



#### SAP AND PROCESSING



Investments	
Sap Collection Item List (seen before)	Permeate Tank
Sugarhouse	Evaporator
Reverse Osmosis	Filter Press
Concentrate Tank	Miscellaneous Tools
Barrels	



#### SAP AND PROCESSING

#### Scale (taps) and Locations

5,000 Taps- Direct to Sugarhouse

10,000 Taps - Direct to Sugarhouse

10,000 Taps - 7k taps to SH, 3k taps hauled

20,000 Taps – 15k taps to SH, 5k taps hauled

EXTENSION



#### Sap and Processing

#### Assumptions:

- 5,000 Tap Part-Time: 4-5 hours per day RO and Evap. run time
- 10,000 Tap Full-Time: Up to 6 hours RO/Evap run time
- 20,000 Tap Full-Time (with help): Up to 7-8 hours run time
- Sugarhouse: \$50-\$55 per square foot
- No Shipping Container for "Direct" Profiles



SAP AND	Equipment	5,000 Taps, Direct to Sugarhouse	
PROCESSING	Sap Collection (shown earlier)	\$99,969	100 20 20 20 20 20 20 20 20 20 20 20 20 2
	Sugarhouse	\$42,240	
	Reverse Osmosis	\$21,500	
	Concentrate Tank	\$1,198	
	Permeate Tank	\$1,901	
	Evaporator	\$ 27,200	
	Filter Press	\$3,156	
	Misc. Tools	\$1,000	
	Barrels	\$9,600	
	Processing Subtotal	\$107,794	
	<b>Processing Subtotal Per Tap</b>	\$21.56	
	TOTAL COST PROCESSING	<u>\$207,763</u>	
	TOTAL COST PER TAP	\$41.55	KTENSIO

## SAP AND PROCESSING

	5,000 Direct	10,000 Direct
Sap Subtotal	\$99,969	\$196,596
Processing Subtotal	\$107,794	\$153,730
TOTAL COSTS	<u>\$207,763</u>	<u>\$353,326</u>
TOTAL PER TAP	\$41.55	\$35.33

Real Estate will be added later

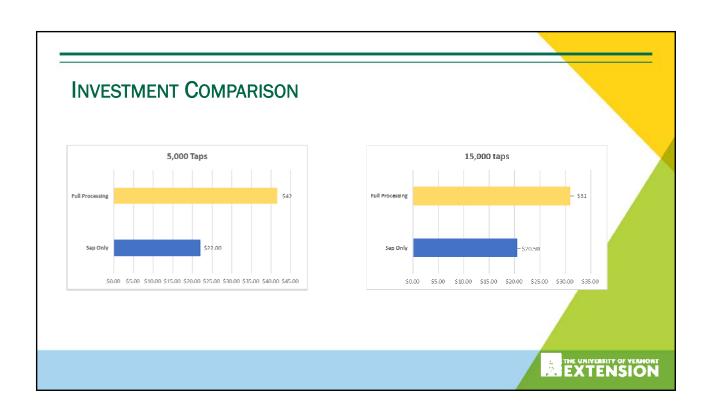


## SAP AND PROCESSING

	10,000 Tap (7k direct, 3k haul)	20,000 Tap (15k direct, 5 k haul)
Sap Subtotal	\$212,396	\$406,212
<b>Processing Subtotal</b>	\$156,730	\$224,702
TOTAL COSTS	<u>\$369,126</u>	<u>\$630,914</u>
TOTAL PER TAP	\$36.91	\$31.55

Real Estate will be added later Truck Hauling: add \$3-\$8 per tap





#### QUICK REVIEW

#### We have covered:

- ✓ Equipment and tubing set-up✓ Basic land improvements✓ Sugarhouse construction

- ✓ Processing equipment to "bulk" status

#### **Additional Costs:**

- ✓ <u>Truck Hauling:</u> add \$3-\$8 per tap ✓ .... Real estate is next!



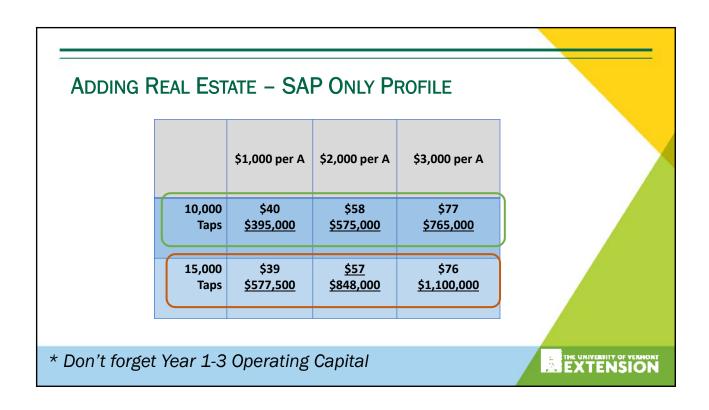


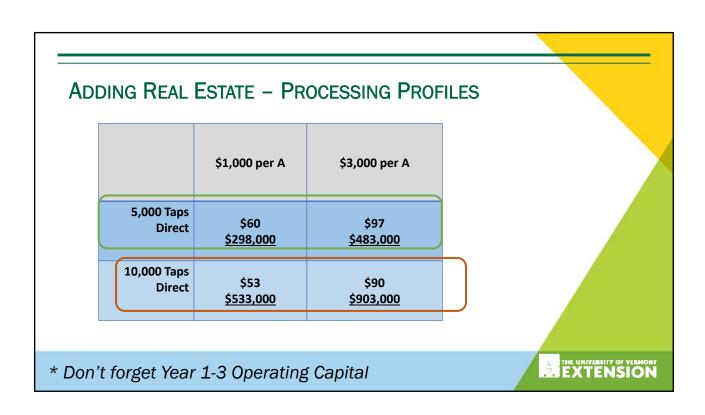
#### ADDING REAL ESTATE - SAP ONLY PROFILE

Assumption: 55 taps per acre

- □ \$1,000 per acre = \$18 per tap
- □ \$2,000 per acre = \$36 per tap
- □ \$3,000 per acre = \$55 per tap
- ☐ Don't forget Year 1-3 Operating Capital

	\$1,000 per A	\$2,000 per A	\$3,000 per A
2 222 7	A40	Aca	470
3,000 Taps	\$42	\$60	\$79
	<u>\$126,000</u>	<u>\$180,000</u>	<u>\$237,000</u>
5,000 Taps	\$40	<u>\$58</u>	\$77
3,000 Taps	· ·		
	\$200,000	<u>\$290,000</u>	<u>\$389,000</u>
7,000 Taps	\$39	\$57	\$76
,	\$273,000	\$399,000	\$532,000
	<u> </u>	<del>2333,000</del>	<del>\$552,000</del>





# \$1,000 per A \$3,000 per A 10,000 Taps \$55 \$92 \$919,000 20,000 Taps \$50 \$87 \$91,000 \* Don't forget Year 1-3 Operating Capital

#### 2019 BENCHMARK RESULTS



#### Why are actual benchmarks higher?

- ✓ \$15-\$20 per tap higher✓ Off-Road and Utility Vehicles
- ✓ Tools and other equipment
- ✓ Office Supplies
- ✓ Canning and Packing



#### PRODUCTIVITY PER TAP - BENCHMARK PARTICIPANTS

	Average Investment Value
Above Average Yield Producers	\$ 61 Per Tap
Below Average Yield Producers	\$ 54 Per Tap



## FINANCIAL BENCHMARKS - INDUSTRY ENHANCEMENT Planning Your Growth Step Access to Capital Performance Measures and Monitoring

