

Inputs		Coverage Level Calculation Examples - Assuming 80% Selected Coverage Level	
<b>Zone 1 Yield</b>			
	90 lbs per hive		
<b>Producers Operation</b>			
Total Hives	2500	<b>No Pollination Contracts</b>	
Production	2000	$(130 \times 2500 \times 80\%) / 2500 =$	
Pollination	500	104 lbs per hive	
	80%	<b>Pollination Contracts</b>	
	20%	$((80\% \times 2500 \times 130) + (20\% \times 2500 \times 90)) \times 80\% / 2500 =$	
		97.6 lbs per hive	
<b>Individual Average Yield</b>			
	130 lbs per hive		

Zone 1 Yield			Example of Coverage Implications (Holding Pollination Yields Constant)					
Yearly	Average		2015		2016		2019	
			Producers Operation		Producers Operation		Producers Operation	
			Total Hives	2500	Total Hives	2500	Total Hives	2500
			Production	Pollination	Production	Pollination	Production	Pollination
			2000	500	2000	500	2000	500
			80%	20%	80%	20%	80%	20%
Individual Average Yield			Coverage Levels		Coverage Levels		Coverage Levels	
Yearly Yield	Average Yield		No Pollination	104.0 lbs/hive	No Pollinatio	106.0 lbs/hive	No Pollinatio	112.0 lbs/hive
			Pollination	97.6 lbs/hive	Pollination	99.2 lbs/hive	Pollination	104.0 lbs/hive
2010	90	90 lbs per hive						
2011	90	90						
2012	90	90						
2013	90	90						
2014	90	90						
2015	90	90						
2016	90	90						
2017	90	90						
2018	90	90						
2010	120	120 lbs per hive						
2011	125	122.5						
2012	130	125						
2013	135	127.5						
2014	140	130						
2015	145	132.5						
2016	150	135						
2017	155	137.5						
2018	160	140						

Zone 1 Yield			Example of Coverage Implications (Holding Production Yields Constant)					
Yearly Yield	Average Yield		2015		2016		2019	
			Producers Operation		Producers Operation		Producers Operation	
2010	90	90.0 lbs per hive						
2011	95	92.5						
2012	100	95.0						
2013	105	97.5						
2014	110	100.0						
2015	115	102.5						

2016	120	105.0
2017	125	107.5
2018	130	110.0

Total Hives	2500
Production	Pollination
2000	500
80%	20%

Total Hives	2500
Production	Pollination
2000	500
80%	20%

Total Hives	2500
Production	Pollination
2000	500
80%	20%

Individual Average Yield

Yearly Yield	Average Yield
2010	120 120.0 lbs per hive
2011	120 120.0
2012	120 120.0
2013	120 120.0
2014	120 120.0
2015	120 120.0
2016	120 120.0
2017	120 120.0
2018	120 120.0

Coverage Levels

No Pollination	96.0 lbs/hive
Pollination	92.8 lbs/hive

Coverage Levels

No Pollinatio	96.0 lbs/hive
Pollination	93.2 lbs/hive

Coverage Levels

No Pollinatio	96.0 lbs/hive
Pollination	94.4 lbs/hive

Example of Coverage Implications (Nothing Held Constant)

Zone 1 Yield

Yearly Yield	Average Yield
2010	93 93.0 lbs per hive
2011	94 93.5
2012	90 92.3
2013	82 89.8
2014	89 89.6
2015	82 88.3
2016	80 87.1
2017	94 88.0
2018	90 88.2

Year of Coverage

2015	
Producers Operation	
Total Hives	2500
Production	Pollination
2000	500
80%	20%

2016	
Producers Operation	
Total Hives	2500
Production	Pollination
2000	500
80%	20%

2019	
Producers Operation	
Total Hives	2500
Production	Pollination
2000	500
80%	20%

Individual Average Yield

Yearly Yield	Average Yield
2010	122 122.0 lbs per hive
2011	121 130.0
2012	131 124.7
2013	138 128.0
2014	138 121.5
2015	132 130.3
2016	121 129.0
2017	131 129.3
2018	132 129.6

Coverage Levels

No Pollination	97.2 lbs/hive
Pollination	92.1 lbs/hive

Coverage Levels

No Pollinatio	104.3 lbs/hive
Pollination	97.5 lbs/hive

Coverage Levels

No Pollinatio	103.6 lbs/hive
Pollination	97.0 lbs/hive