

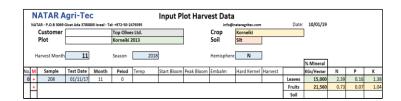
Dynamic Oil Olives Plot Fertilization Planning

To maximize the yield and profit by giving in each stage exactly the amount of fertilizers required and optimize resources and reduce environmental impact.

The service is provided throughout the year for each plot separately:

The basis for planning, minerals disposal values, taken from olives and leaves during harvest.

Based on the disposal values, the initial annual fertilization program is calculated and divided into months according to the expected demand, the phenological stage.



Measure	1	2	3	4	5	6	7	8	9	10	11	12	
Leaves	+		+		+		+		+		+		1
Fruits					+		+		+		+		1
Soil							+						1
Mineral	1	2	3	4	5	6	7	8	9	10	11	12	Total
N	0	0	12	6	23	35	35	6	6	6	6	0	132
P	О	0	5	5	8	5	3	3	1	1	1	0	33
K	0	0	24	24	24	24	12	12	12	12	12	0	154

During the year, according to NATAR-Agri-Tec guidance, samples of leaves, fruits and soil samples are collected for mineral concentrations checks.

The service provides a monthly fertilizer program - types of minerals, ratio of minerals and quantity required.

Advantages:

- Planning quantities according to the requirements of the trees.
- Relying on simple lab measurements.
- Reduce environmental impact.
- Costs saving.
- No dedicated equipment or sensors are required.
- Easy and inexpensive application.
- Preserving the fertility of the plot.

													% Mineral	ineral						
No.	М	Sample	Test Date	Month	Peiod	Temp	Start Bloom	Peak Bloom	Embalm	Hard Kernel	Harvest			N	P	K				
7	+	30709	01/07/18	7	7							Leaves		1.98	0.14	1.24				
	+											Fruits		0.73	0.07	1.04				
	+											Soil		11.8	65.6	243.60				

The results of the test measurements are fed into NATAR Agri-Tec algorithm to adjust the fertilization quantity recommendation, to maximize yields this season and maintain the fertility of the olive grove next season.

	Month	1	2	3	4	5	6	7	8	9	10	11	12	Total
	Peiod	1	2	3	4	5	6	7	8	9	10	11	12	
Measurements	% Minerals													
Leaves	N	1.94		1.94		1.97		1.98		2.00		2.00		1
	P	0.12		0.12		0.13		0.14		0.14		0.14		
	K	0.71		0.71		1.02		1.24		1.09		1.09		
Fruits	N					0.73		0.73		0.73				1
	P					0.07		0.07		0.07				
	K					1.04		1.04		1.04				
Soil	N							11.80						1
	P							65.60						
	K							243.60						
Alerts	Minerals													1
Leaves	N	Н		Н										1
	P	L		L		L		L		L		L		
	K							Н						
Fruits	N													1
	Р							L						
	K													
Soil	N							L						1
	P							Н						
	K													
	Minerals													
Units	N	0	0	11	6	23	35	35	6	6	6	6	6	13
to	Р	0	0	7	7	8	5	1	1	1	1	1	1	3.
Fertilize	K	0	0	24	24	24	24	12	12	12	12	12	12	15
								N - Low						
		P - Low		P - Low		P - Low		P - Low		P-Low		P - Low		1
														1

Precise fertilization needed to ensure profit with minimal impact on the environment