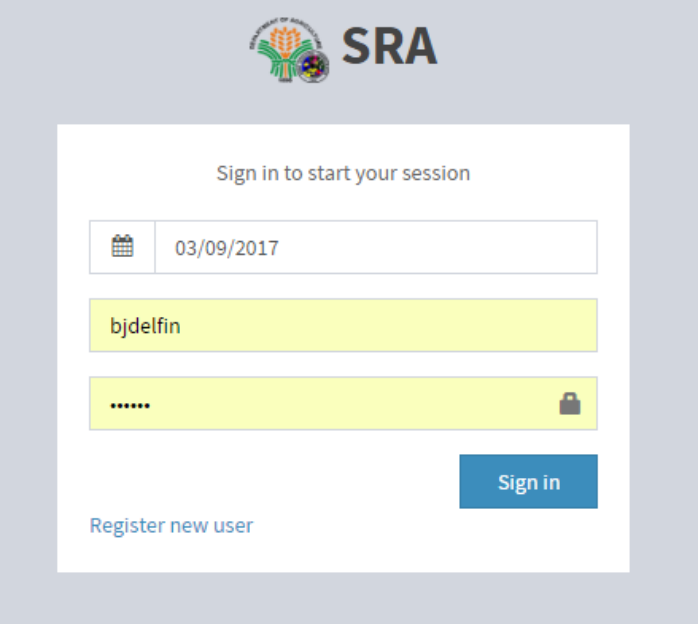
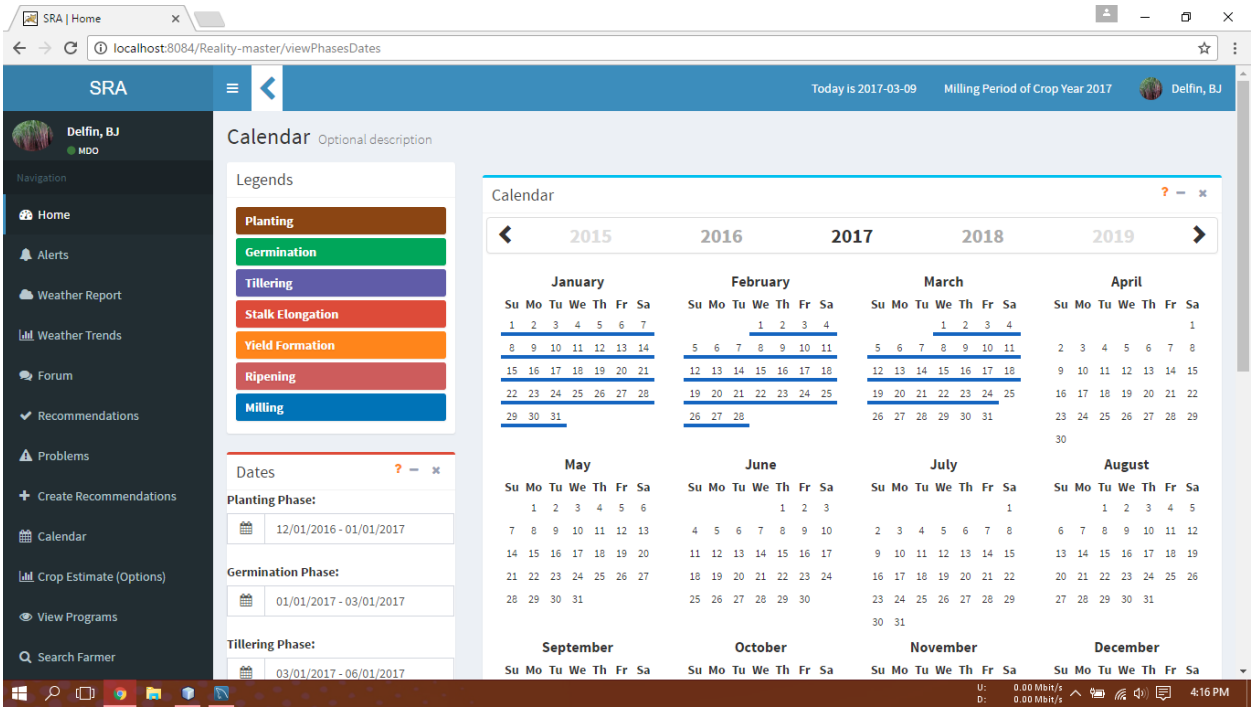
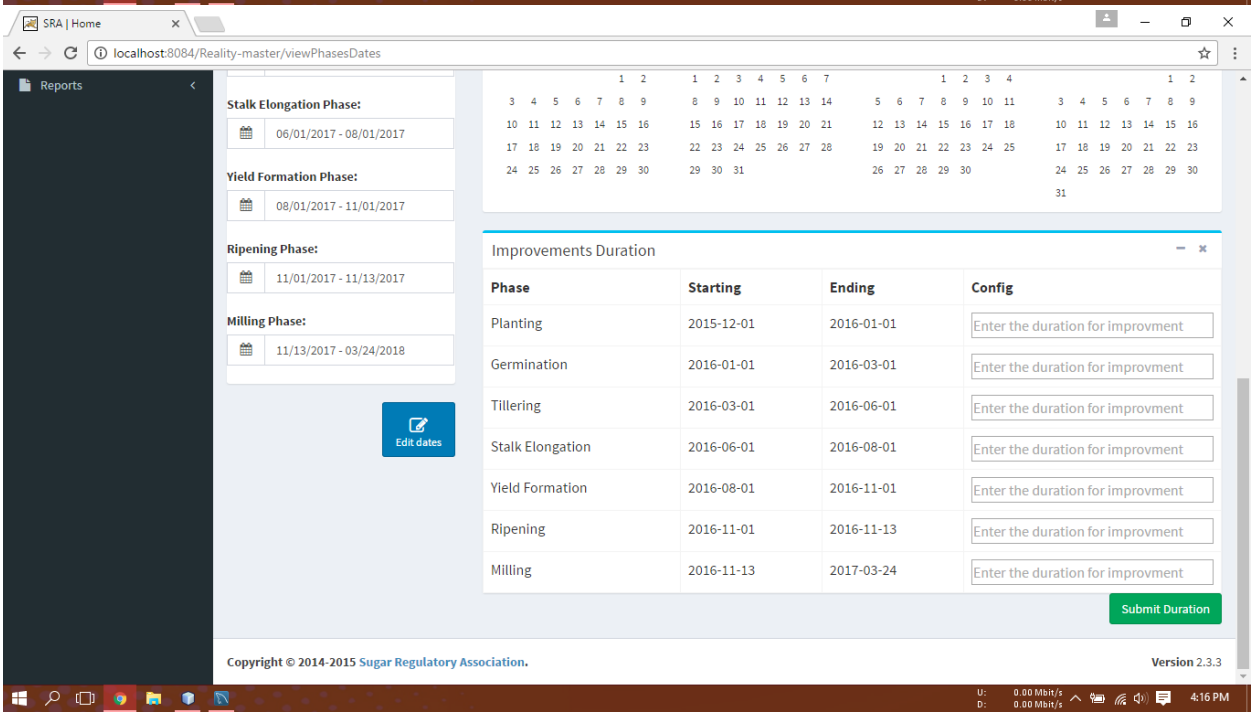
Scenario 1: Monitoring Production, Programs and Crop Estimate

The crop cycle for sugarcane has seven phases, namely planting, germination, tillering, elongation, yield formation, ripening and milling. It is currently the end of the crop cycle which is the milling period of crop year 2016-2017 where the farmers are harvesting their sugarcane crop to be processed by the mill. Mr. Bj Delfin, the mill district officer of Tarlac would prepare the schedule for the farmers in his district to follow for the next crop year. He logs in for the day.

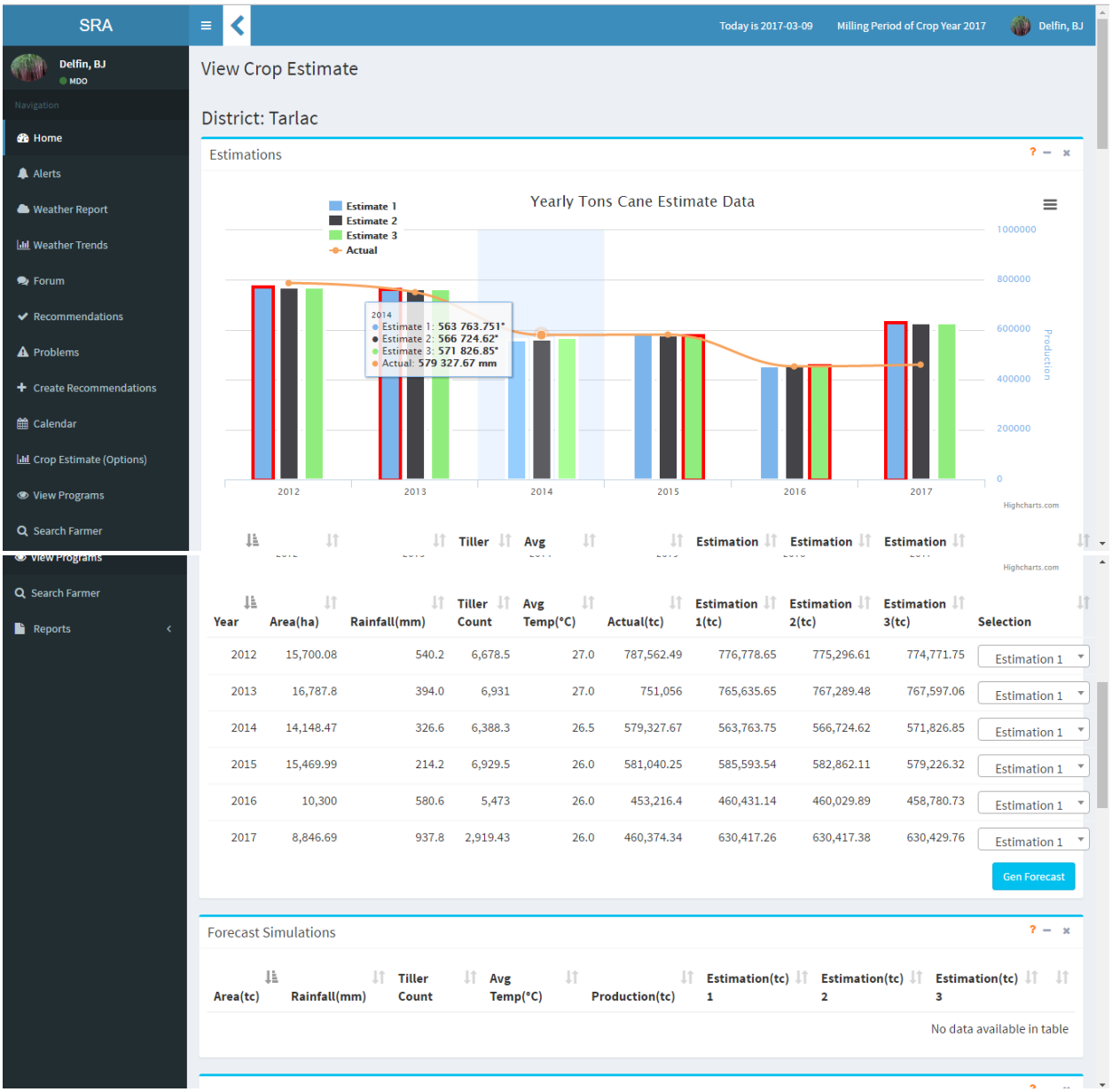


Since it is the milling phase and the crop year is almost ending, MDO Bj goes to the crop calendar page. There, the system has already generated dates for each phase for the crop year. The generated dates are based from the current year. However, Bj can adjust the dates for the crop growth phases for the following crop year if necessary. Refer to Revision#5



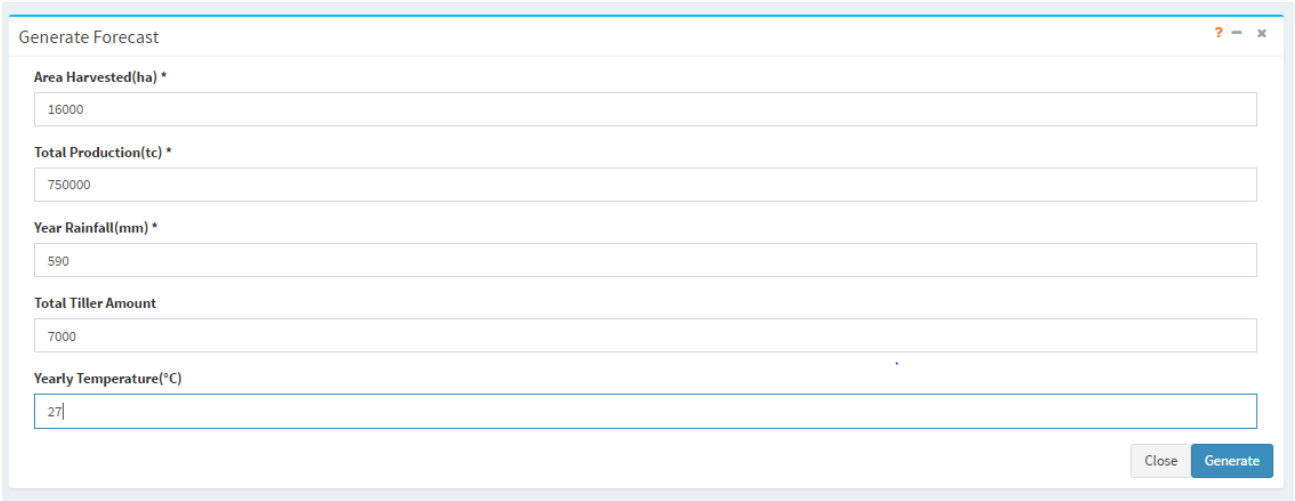


First things first, the production of Tarlac can be seen by MDO Bj for this crop year in order to see the harvest potential of the farms in the district. He goes to the crop estimate page and there he will be able to see the estimates of the previous years. He will also be able to see that the system has automatically generated a forecast for this year. The system now highlights in the bar graph, the closest estimate to the actual. Refer to revision #3

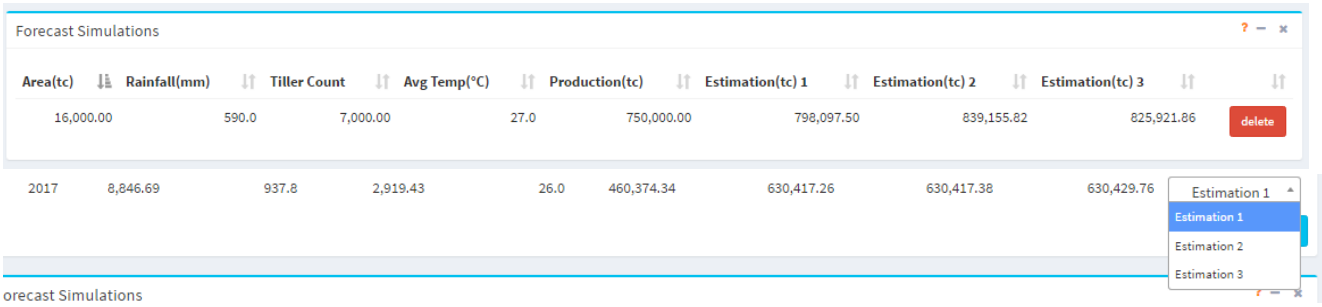


He sees that there are three estimates. Now Bj will validate on which forecast he will be using for this crop year, using the previous years, and the forecast simulation. To do that, MDO Bj will click the generate forecast button and a form will appear. In the forecast form, he manually inputs the following parameters:

Area= 16000
Production= 750000
Rainfall= 590
Tiller= 7000
Average Temperature= 27

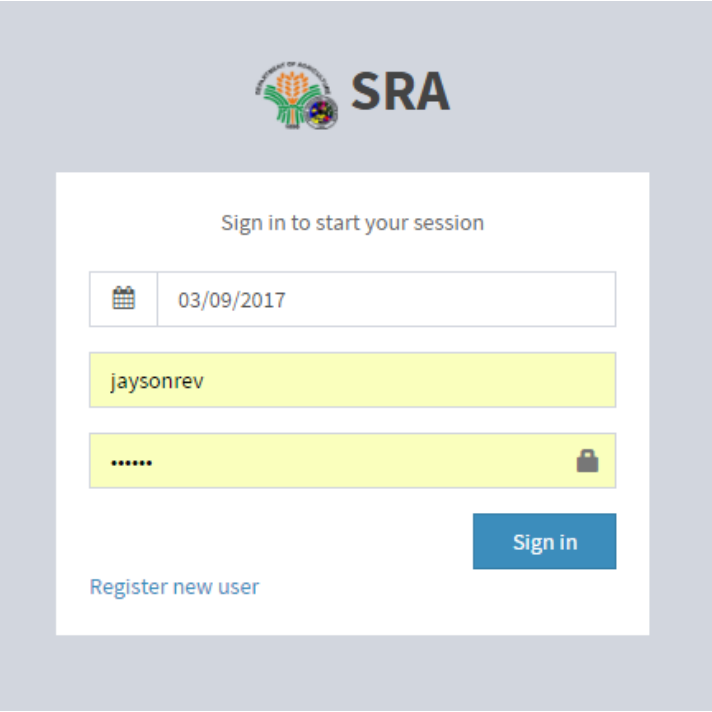


He inputs production so that he can cross validate it with the three estimates that will be generated. He notices that estimate 1 is the closest to the production he inputted earlier, and so he chooses estimate 1 from the dropdown for the crop year 2017. The estimate he chose would be the estimate the system will be using for the entire crop year. The basis for his selection would be the generated forecast and the highlighted bar graph which shows the closest estimate to the actual.



He also sees the system generated weekly estimates that will be used to cross validate with the weekly production in crop assessment and weekly production statistics.

Now board member Jayson Revidad is to login. He will first have to go to Tarlac district.

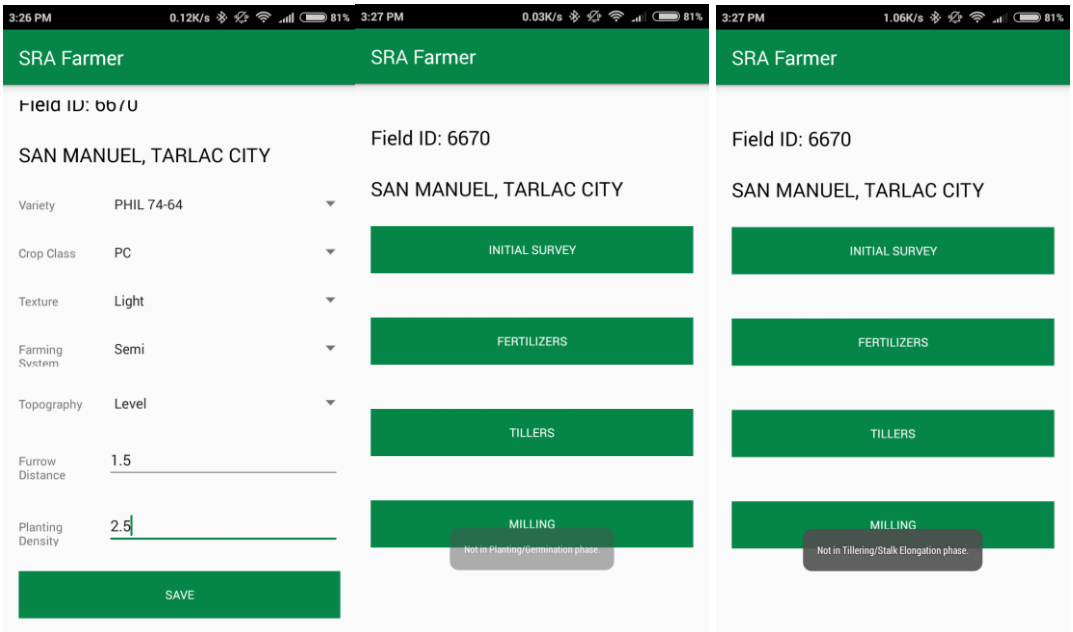


He goes to the crop estimate page of each district and there the system has the three automatically generated forecasts for LKG and he is to select the closest estimate based on the previous years and also from the bar graph which now highlights the closest estimate to the actual. The selection of the estimate will update the crop assessment report of both the board member and the MDO.

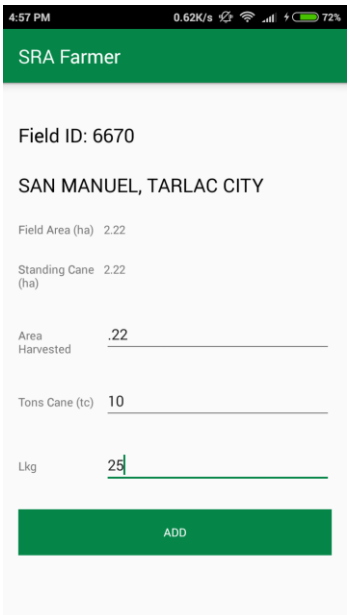
2012	15,700.08	540.2	6,678.5	27.0	787,562.49	721,011.8	707,289.5	697,396.8	693,772.23	Estimation 1
2013	16,787.8	394.0	6,931	27.0	751,056	1,264,515.78	1,343,568.38	1,307,028.29	1,327,131.31	Estimation 1
2014	14,148.47	326.6	6,388.3	26.5	579,327.67	1,454,325.37	1,357,285.62	1,398,061.2	1,373,350.14	Estimation 1
2015	15,469.99	214.2	6,929.5	26.0	581,040.25	1,003,379.82	974,060.01	1,047,060.92	1,040,099.21	Estimation 1
2016	10,300	580.6	5,473	26.0	453,216.4	983,764.26	1,044,793.53	977,449.82	992,644.13	Estimation 1
2017	8,846.69	937.8	2,919.43	26.0	460,374.34	621,529.79	1,085,406.29	1,085,414.31	1,085,372.85	Estimation 1

2017	8,846.69	937.8	2,919.43	26.0	460,374.34	621,529.79	1,085,406.29	1,085,414.31	1,085,372.85	Estimation 3

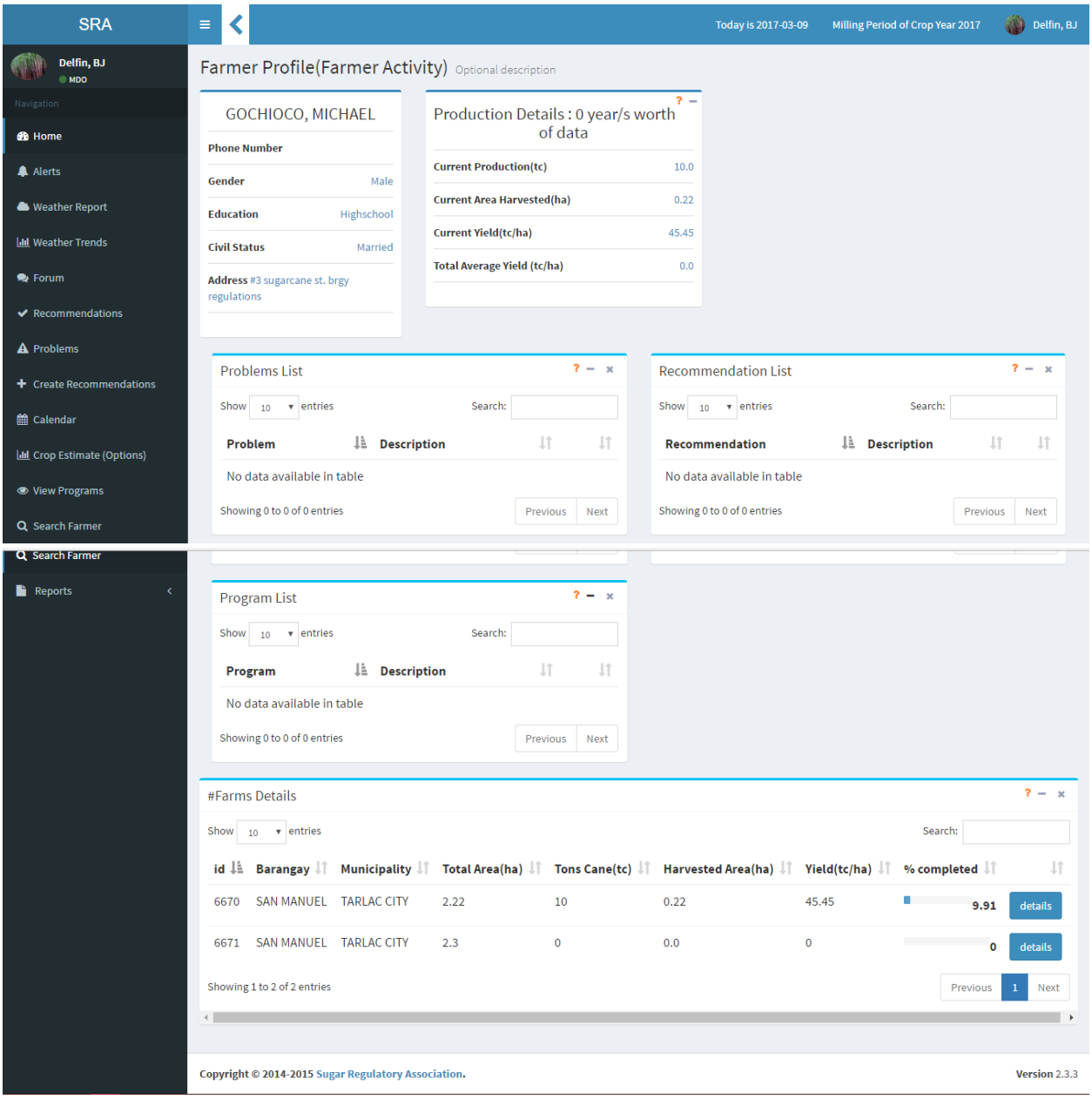
Now that Bj has already validated the initial crop estimate, he needs all the farmer's production data. Farmer Michael Gochioco logs into his mobile application to answer his quarterly Crop Validation Survey. Here he inputs the details of his farm like variety used, farming system, crop class, etc. This is necessary for the observation of the MDO to help him provide recommendations or determine problems. Michael cannot input his fertilizer and tiller data since the system's current date is not on the proper phase.



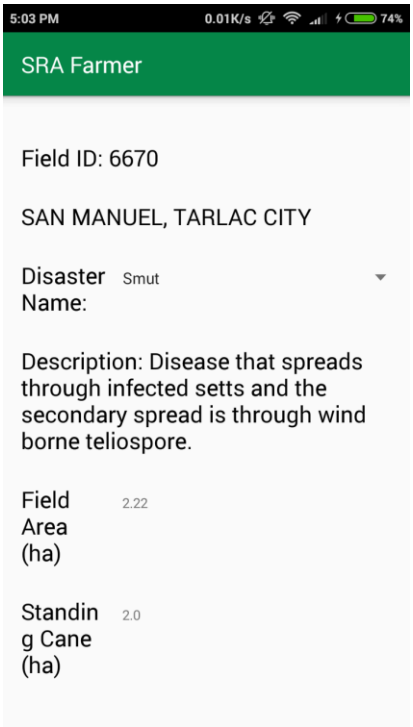
He also inputs his harvested area, tons cane and lkg necessary for the weekly Crop Assessment.

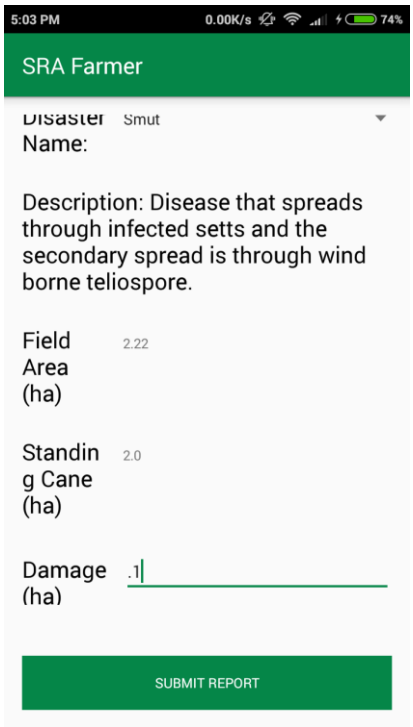


Mill District Officer Bj goes to the web application. He first searches for the farmer 'Michael Gochioco'. Clicks on more details to view Michael's profile. He will see that Michael's farm details have already been updated.

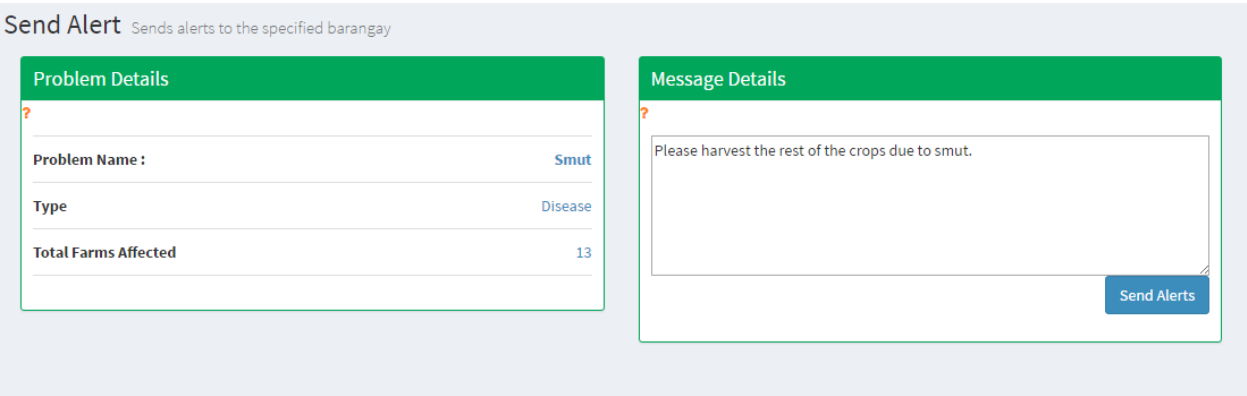


Because it is currently not rainy season and the climate has been warm lately, Farmer Michael finds out that his farm is being infected by pests. He uses his mobile application to report the estimated damage of his field to the MDO. Refer to revision # 2

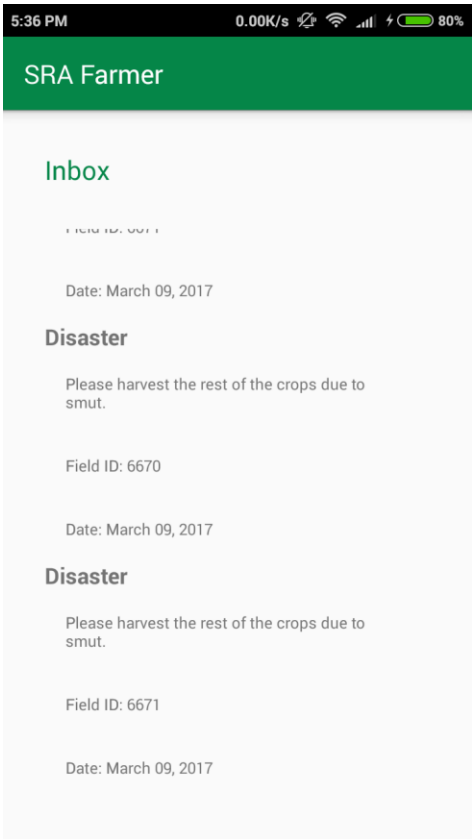




The MDO goes to the alerts page to see if there are any new disaster reports. The MDO confirms that "smut", the pest has great potential of spreading to nearby farms as well. and sends a message to all farmers that belong to the same barangay saying **" Please harvest the rest of the crops due to smut"**



Farmer Michael receives the alert in his mobile application.



Now that the damage has been reported and validated by Bj, the crop estimate should be adjusted in relation to the damaged area. He goes to the crop estimation page and sees that the estimations have been updated. He also checks in the crop assessment page and there the estimated production was also updated. **PLEASE REFER TO PAGE 6 FOR THE INITIAL ESTIMATE**

Year	Area(ha)	Rainfall(mm)	Tiller Count	Avg Temp(°C)	Actual(tc)	Estimation 1(tc)	Estimation 2(tc)	Estimation 3(tc)	Selection
2012	15,700.08	540.2	6,678.5	27.0	787,562.49	776,778.65	775,296.61	774,771.75	Estimation 1
2013	16,787.8	394.0	6,931	27.0	751,056	765,635.65	767,289.48	767,597.06	Estimation 1
2014	14,148.47	326.6	6,388.3	26.5	579,327.67	563,763.75	566,724.62	571,826.85	Estimation 1
2015	15,469.99	214.2	6,929.5	26.0	581,040.25	585,593.54	582,862.11	579,226.32	Estimation 1
2016	10,300	580.6	5,473	26.0	453,216.4	460,431.14	460,029.89	458,780.73	Estimation 1
2017	8,846.91	937.8	2,919.43	26.0	460,384.34	630,410.14	630,410.25	630,422.64	Estimation 1

Gen Forecast

Select: District

Year: 2017

Weekly District Estimates

Show 10 entries

Search:

Year	Week Ending	Harvest Area(ha)	Rainfall(mm)	Actual Production(tc)	Estimated Production(tc)	% Difference	Actual LKG	Estimated LKG	% Difference
2017	2016-11-13	47.82	0.0	2,293.86	27,966.05	91.80	3,096.45	37,752.20	91.80
2017	2016-11-14	594.63	0.0	27,242.20	27,966.05	2.59	36,741.78	37,752.20	2.68
2017	2016-11-21	544.61	0.0	29,896.04	27,966.05	-6.90	40,343.04	37,752.20	-6.86
2017	2016-12-02	482.74	0.0	27,398.85	27,966.05	2.03	36,993.88	37,752.20	2.01
2017	2016-12-06	487.39	14.0	27,129.22	28,765.72	5.69	36,617.53	38,816.24	5.66
2017	2016-12-15	501.13	0.0	27,508.18	30,320.72	9.28	37,120.07	40,921.86	9.29
2017	2016-12-21	483.33	0.0	27,072.18	30,414.71	10.99	36,573.76	41,048.70	10.90
2017	2016-12-27	510.50	0.0	27,661.91	30,488.87	9.27	37,370.43	41,150.63	9.19
2017	2017-01-03	542.38	6.4	27,117.68	30,515.23	11.13	36,628.61	41,187.83	11.07
2017	2017-01-13	568.48	5.0	27,658.21	29,777.98	7.12	37,335.05	40,200.89	7.13

Showing 1 to 10 of 18 entries

Previous 1 2 Next

Area Harvested : 2017-03-09

Particulars	Estimated Production	Previous	This Week	To Date	Percent Completed
Area (ha)	10,300.00	8,430.39	327.60	8,757.99	85.03%
Tons Cane (tc)	630,410.14	437,921.63	17,671.90	455,593.53	72.27%
LKG (lkg)	1085406.29	591,214.59	23,874.12	615,088.71	56.67%

Standing Crop

Particulars	Estimated Production
Area (ha)	1,542.01
Tons Cane (tc)	174,816.61
LKG (lkg)	470,317.58

Bj would need to create a crop assessment report since it is already nearing end of the week. He notices that the production for the week is not doing as well as previous weeks. Now, the rainfall of the week can be seen as well as the production performance of the top and lowest farmers. The district performance in terms of the recommendations implemented and problems reported are now also part of the report. He notices that Abraham Ofelia is the lowest producing farmer. He also notices that there were more reported problems as well as more problems solved than the previous week. There were also less recommendations implemented. Bj can click the values of the recommendations and problems to access the list. He proceeds to create the crop assessment report where, he inputs the narrative of his observations for the week. For the narrative fields, he enters the following information:

Weather: No rain
Price of sugar: P1,500.00
Mill operation: Normal
Price of inputs: Fertilizer at P500 per bag
Findings: There were a lot of reported problems for the week
Overall Analysis: Low productivity

Tons Cane (tc)	137,604.43	0.0 mm	0.0 mm	0.0 mm	0.0 mm	0.0 mm	0.0 mm	0.0 mm
LKG (lkg)	420,059.06							

PART 2: DISTRICT IMPROVEMENT STATUS REPORT

A. Farmer Performance

Particulars	Last Week		This Week		Improvement
	Name	TC/Yield	Name	TC/Yield	
Highest Producing Farmer	AGRIKULTO	1848.4912 TC	AGRIKULTO	1647.7274 TC	↓ 200.76
Lowest Producing Farmer	ABRAHAM, OFELIA	0.042 TC	ABRAHAM, OFELIA	0.0432 TC	↑ 0
Highest Yielding Farmer	YAQUITEN, ARNOLD	166.06502016 Yield	VALLES, RONALD	220.43400211 Yield	↑ 54.37
Lowest Yielding Farmer	CRUZ, PAOLO MARTIN	0.89914738 Yield	CRUZ, PAOLO MARTIN	1.01578451 Yield	↑ 0.12

B. District Improvements

Particulars	Improvements		Improvement
	Previous Week	This Week	
Recommendations Suggested	27	27	↓ 0
Recommendations Implemented	55	38	↓ 17
Problems Reported	35	70	↑ 35
Problems Solved	9	11	↑ 2

PART 3:NARRATIVE REPORT

A. MDO Narrative

WEATHER	There was no rain, sunny day
PRICE OF SUGAR	P1500
MILL OPERATION	Normal
PRICES OF INPUTS	Fertilizer at P500 per bag
FINDINGS (PROBLEMS & RECOMMENDATIONS)	There were a lot of reported problems for the week
OVERALL ANALYSIS	Low productivity

Print Report

Submit

He is redirected to the homepage and there he sees the narrative report he created earlier. He may also print the report if necessary. Refer to Revision # 9

Narrative Report for Week Ending 2017-03-12

WEATHER	There was no rain, sunny day
PRICE OF SUGAR	P1500
MILL OPERATION	Normal
PRICES OF INPUTS	Fertilizer at P500 per bag
FINDINGS	There were a lot of reported problems for the week
OVERALL ANALYSIS	Low productivity
BOARD NARRATIVE	
FINDINGS (PROBLEMS & SUGGESTIONS)	
OVERALL ANALYSIS	

Print Crop Assessment

Print

Total: **3 pages**

Save Cancel

Destination: Save as PDF

Change...

Pages: All

e.g. 1-5, 8, 11-13

Layout: Portrait

Paper size: Letter

Margins: Default

Options: Headers and footers

Background graphics

3/4/2017 SRA | Home

CROP ASSESSMENT REPORT

Crop Year: 2017

Week Ending: 2017-03-12

PART 1:PRODUCTION STATUS DATA

Area Harvested

Particulars	Estimated Production			Percent Completed	
	Previous	This Week	To Date		
Area (ha)	10,300.00	8,430.39	327.60	8,757.99	85.03%
Tons Cane (tc)	630,410.14	437,921.63	17,671.90	455,593.53	72.27%
LKG (lkg)	1085406.29	591,214.59	23,874.12	615,088.71	56.67%

Standing Crop

Particulars	Estimated Production
Area (ha)	1,542.01
Tons Cane (tc)	174,816.61
LKG (lkg)	470,317.58

Weather Update

Rainfall Amount(mm) of the week						
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
0.0 mm	0.0 mm	0.0 mm	0.0 mm	0.0 mm	0.0 mm	0.0 mm

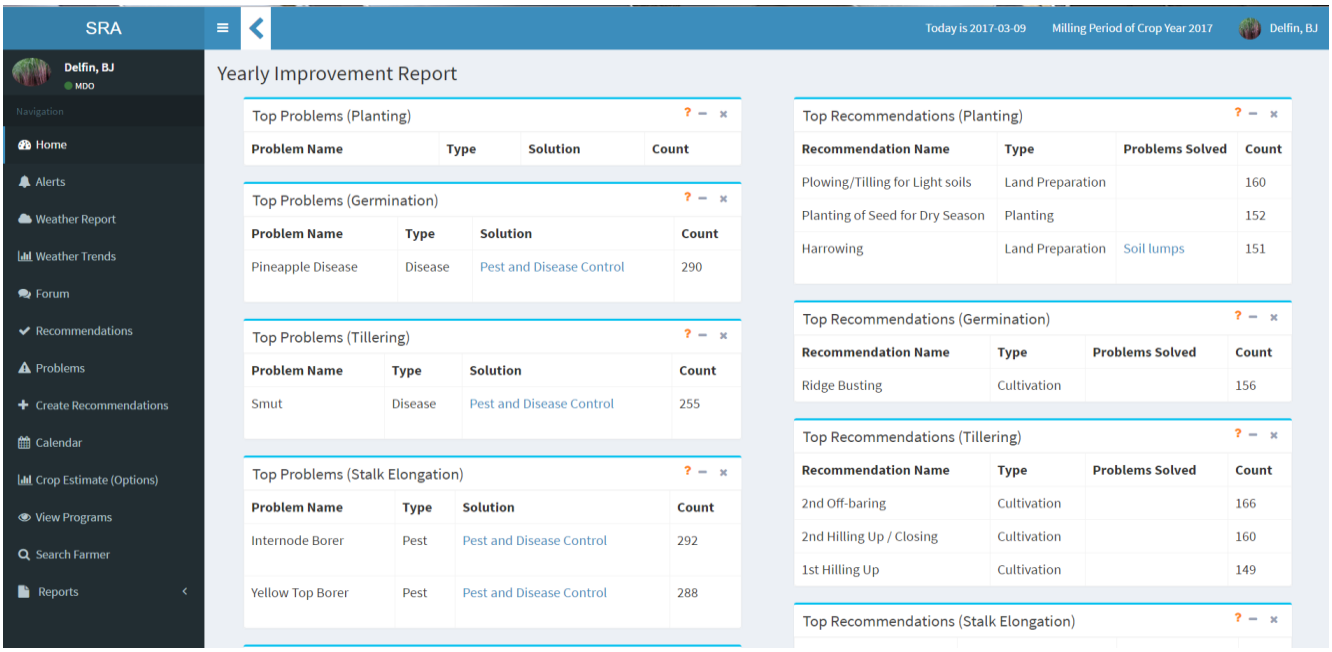
PART 2: DISTRICT IMPROVEMENT STATUS REPORT

A. Farmer Performance

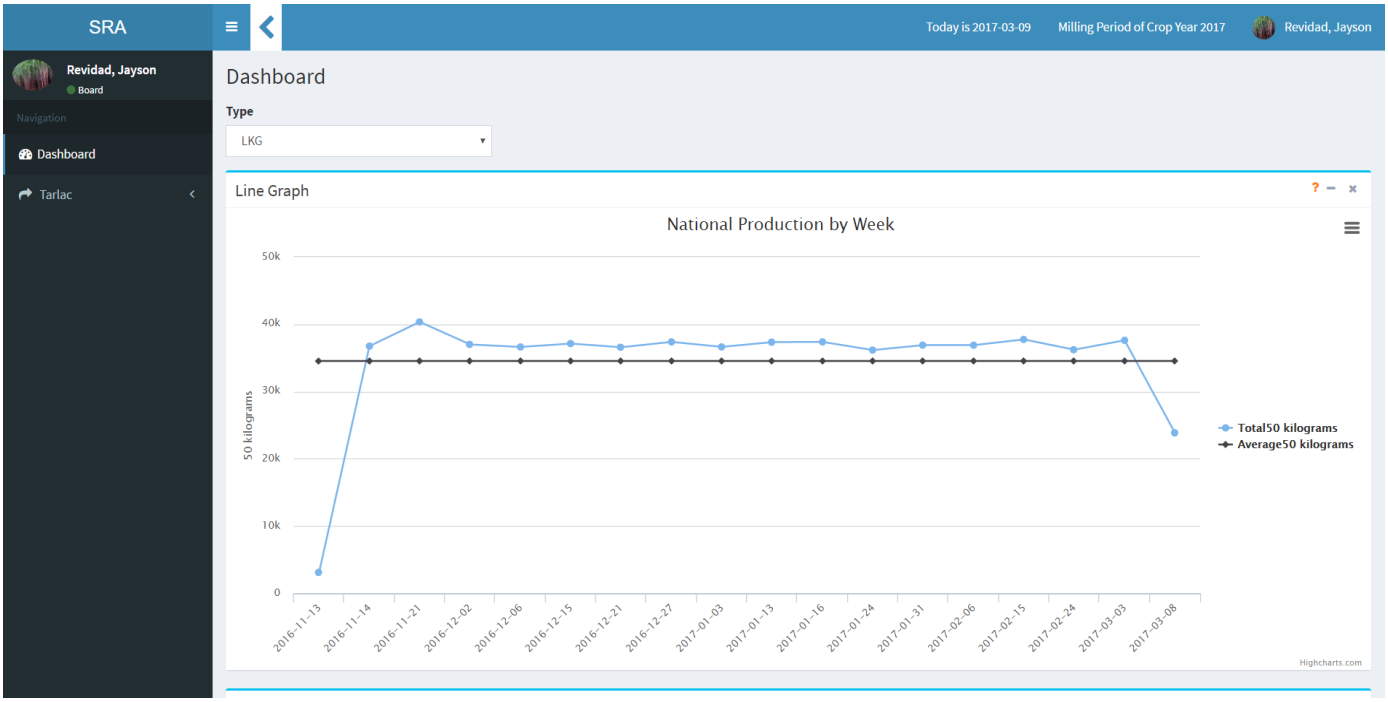
http://localhost:8084/Reality-master/viewCropAssessment?toprint=true 1/3

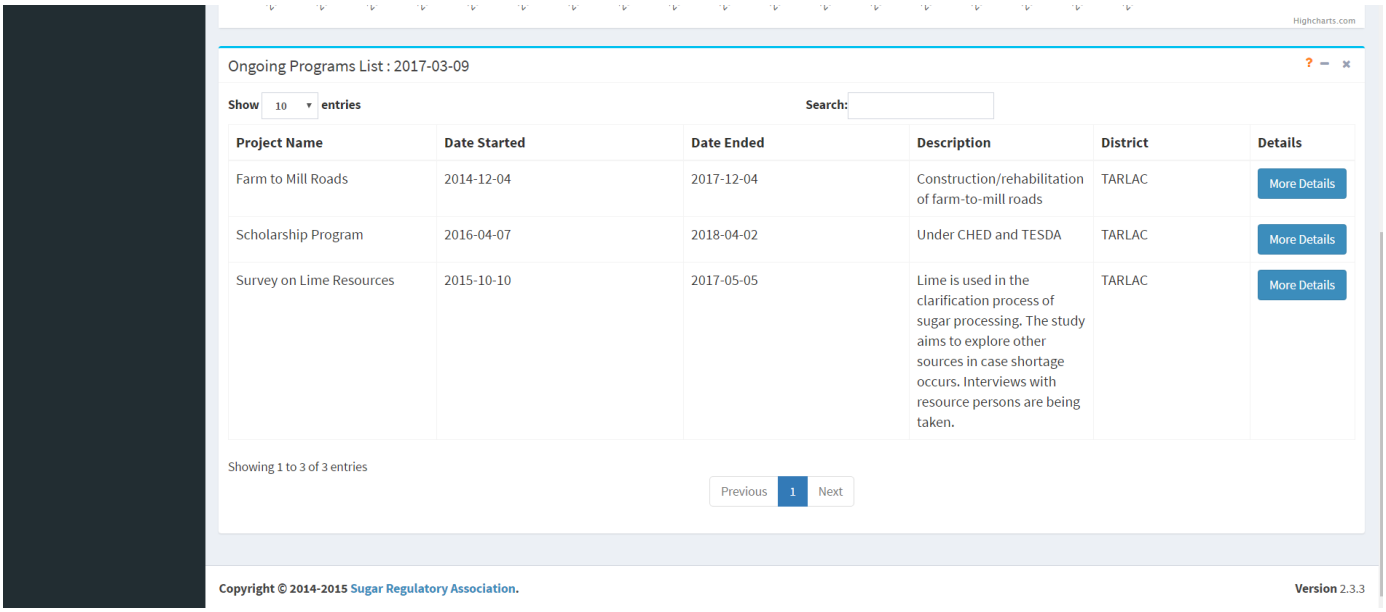
LKG (lkg) 470,317.58

Since it is almost the end of the crop year, Bj may see the performance reports on all the recommendations implemented and problems that have occurred over the year. The yearly report contains the top occurring problems and recommendations for the current crop year per phase.



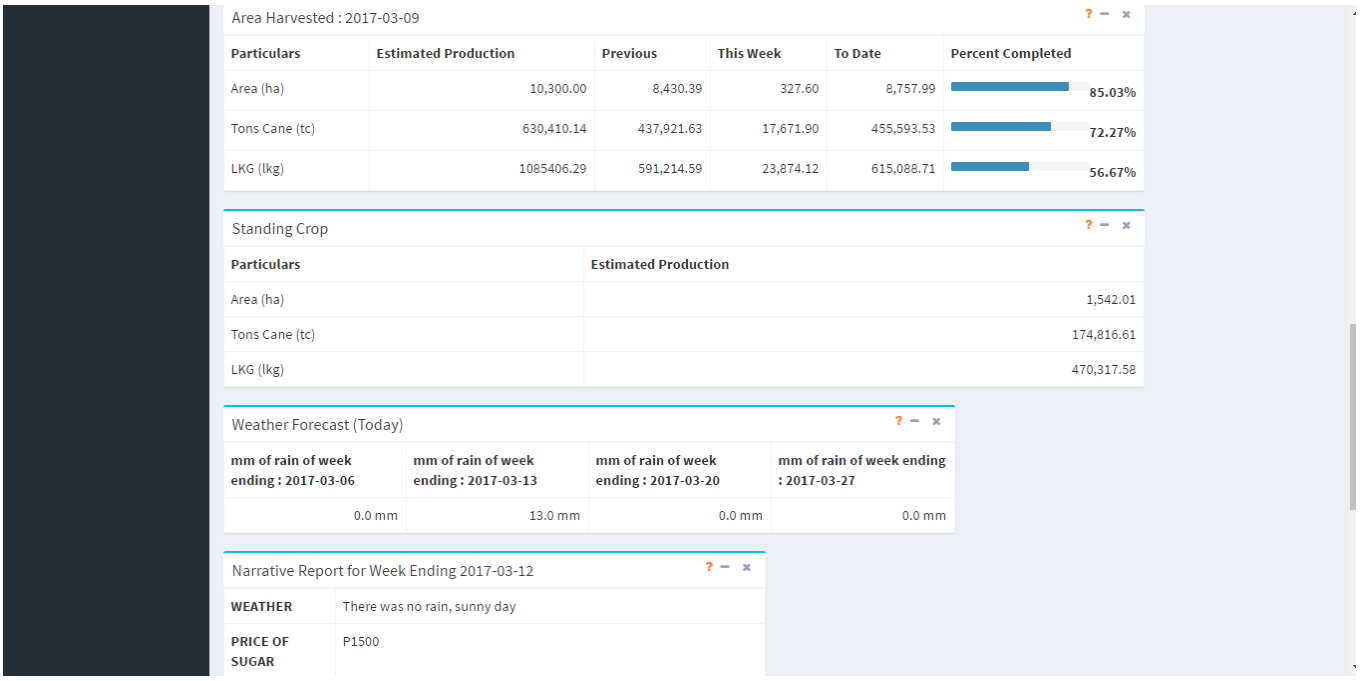
Now Board Member Jayson Revidad is to see the weekly production for all the districts in the dashboard. The first thing he sees is the summary of all the weekly production of the crop year 2017 in terms of LKG. He is also able to see the list of ongoing programs. The board can use this graph and the various drilldowns to help in sugar allocation.





Project Name	Date Started	Date Ended	Description	District	Details
Farm to Mill Roads	2014-12-04	2017-12-04	Construction/rehabilitation of farm-to-mill roads	TARLAC	More Details
Scholarship Program	2016-04-07	2018-04-02	Under CHED and TESDA	TARLAC	More Details
Survey on Lime Resources	2015-10-10	2017-05-05	Lime is used in the clarification process of sugar processing. The study aims to explore other sources in case shortage occurs. Interviews with resource persons are being taken.	TARLAC	More Details

On drill down to Tarlac district, he can see the district's crop assessment which can also be used for sugar allocation.



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Standing Crop

Particulars	Estimated Production
Area (ha)	1,542.01
Tons Cane (tc)	174,816.61
LKG (lkg)	470,317.58

Weather Forecast (Today)

mm of rain of week ending : 2017-03-06	mm of rain of week ending : 2017-03-13	mm of rain of week ending : 2017-03-20	mm of rain of week ending : 2017-03-27
0.0 mm	13.0 mm	0.0 mm	0.0 mm

Narrative Report for Week Ending 2017-03-12

WEATHER	There was no rain, sunny day
PRICE OF SUGAR	P1500

There are two other ways the board can be assisted in allocating his sugar. First he could use the previous week's weekly forecasts for LKG which is in the board crop estimate page. Another way is by generating a weekly forecast in terms of LKG, to simulate how much the district would be producing for the week.

he enters the following information in the simulation:

Area Harvested: 450
Rainfall: 0
Actual Production: 30,000
Expected LKG: 40,000

2017	2016-12-02	482.74	0.0	27,398.85	27,966.18	2.03	36,993.88	37,752.81	2.01
2017	2016-12-06	487.39	14.0	27,129.22	28,765.72	5.69	36,617.53	38,816.24	5.66
2017	2016-12-15	501.13	0.0	27,508.18	30,320.72	9.28	37,120.07	40,921.86	9.29
2017	2016-12-21	483.33	0.0	27,072.18	30,414.71	10.99	36,573.76	41,048.70	10.90
2017	2016-12-27	510.50	0.0	27,661.91	30,488.87	9.27	37,370.43	41,150.63	9.19
2017	2017-01-03	542.38	6.4	27,117.68	30,515.23	11.13	36,628.61	41,187.83	11.07
2017	2017-01-13	568.48	5.0	27,658.21	29,777.98	7.12	37,335.05	40,200.89	7.13

Showing 1 to 10 of 18 entries

Previous 1 2 Next

Generate Forecast

Area Harvested(ha) *

450

Week Rainfall(mm) *

0

Total Tons_Cane(tc) *

30000

Expected Total LKG(to be used as part of the next test forecast) *

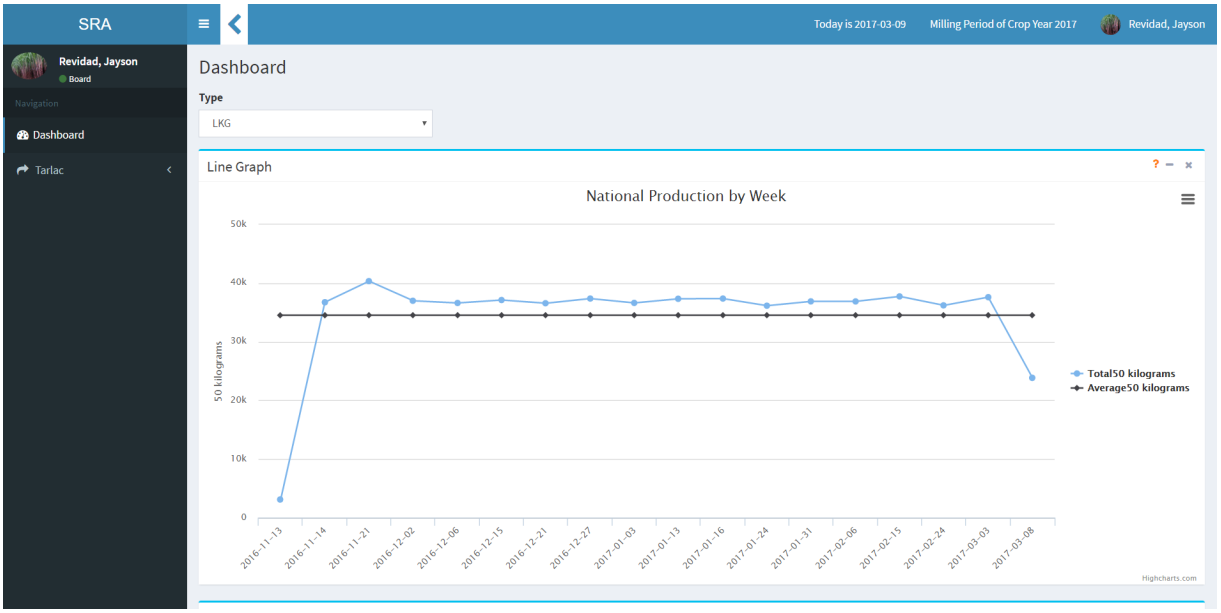
40000

Close Generate

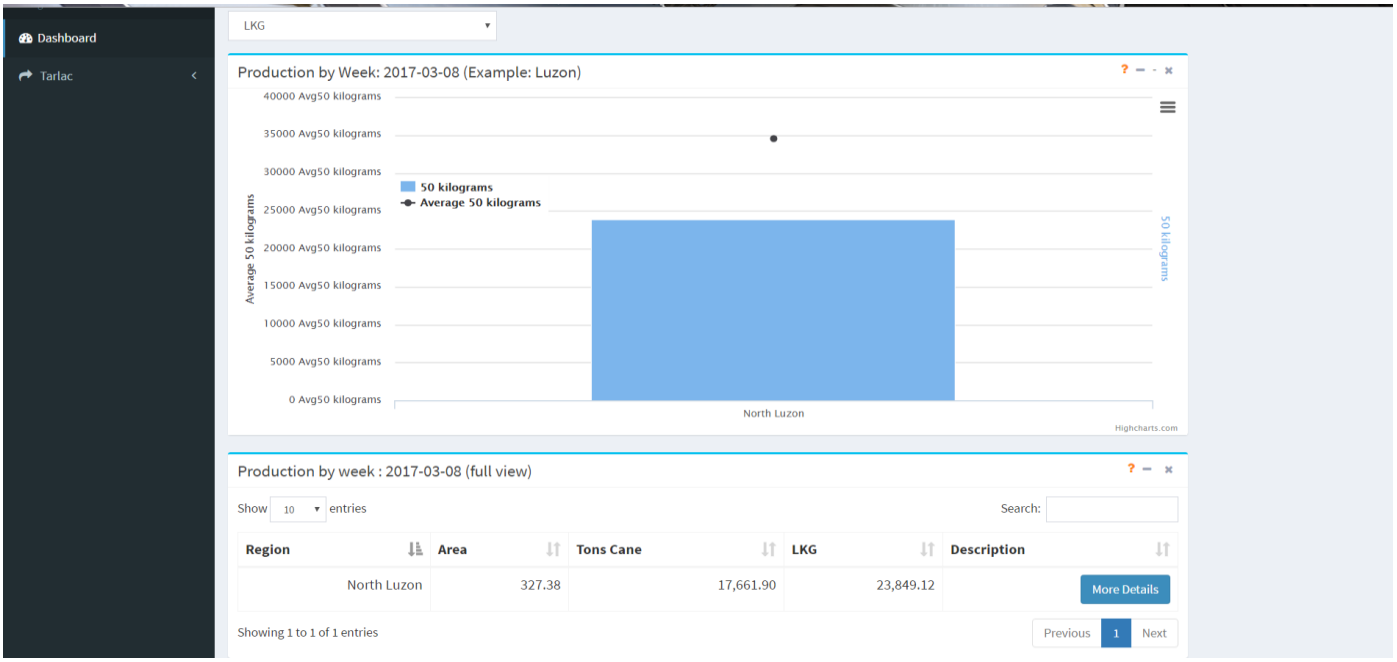
Forecast Simulations

Area(ha)	Rainfall(mm)	Tons_Cane(tc)	LKG	LKG Estimation 1	LKG Estimation 2	LKG Estimation 3	
450.00	0.0	30,000.00	40,000.00	32,014.26	46,280.73	46,280.73	delete

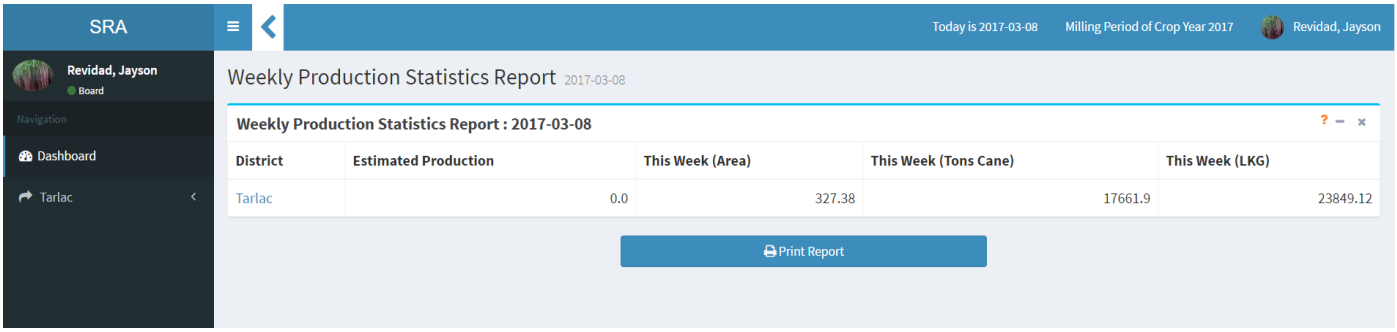
After Jayson has allocated the sugar, the board would help the districts improve by creating different plans and programs. He goes back to the dashboard as initial basis to drill down. He then notices that week of 03/08/17 is not doing well and so he clicks it to see further details. He sees that the production came from North Luzon and he wants to know which district there, is not doing better than average.



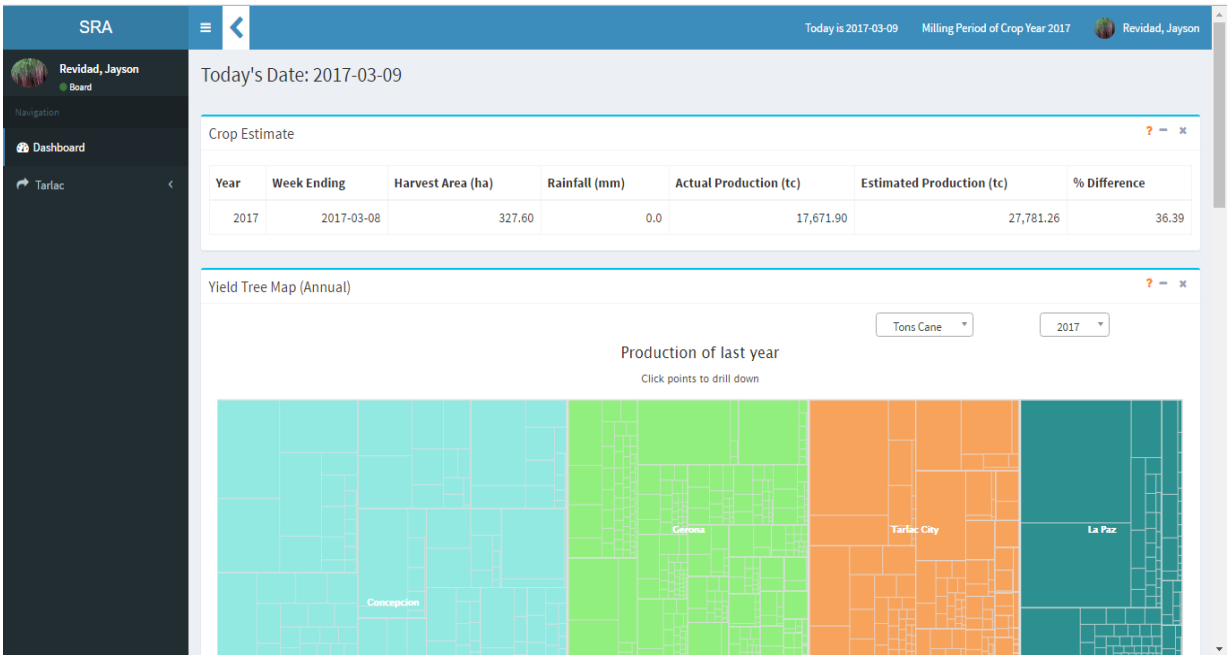
He is directed to the production of North Luzon since only that region has contributed to the week's production.

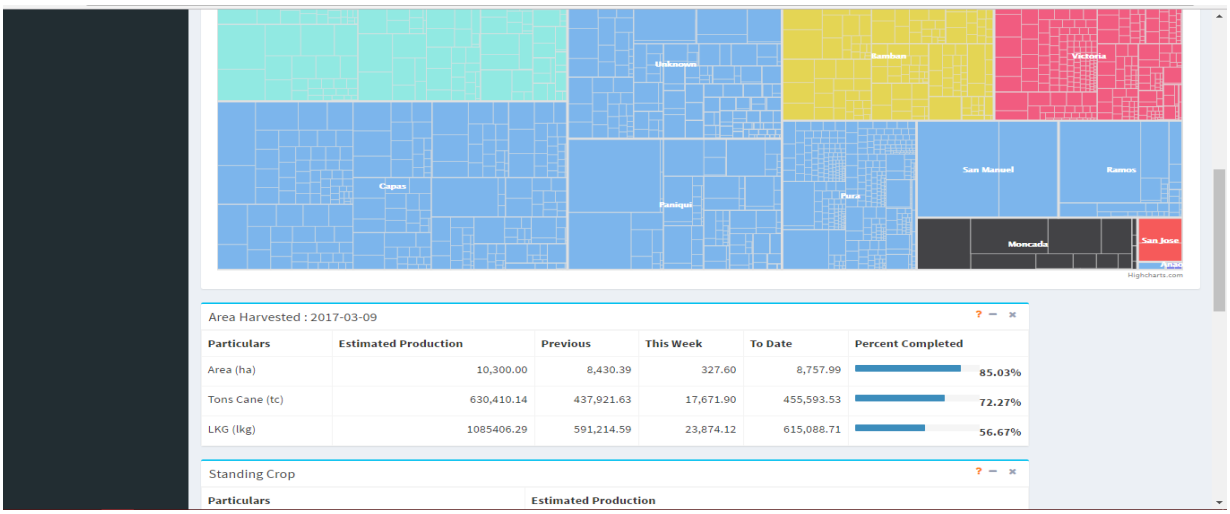


He looks into North Luzon and finds out that it is Tarlac is not doing well.



He clicks on Tarlac and is redirected to the District Homepage which contains the weekly production and the district treemap.





Standing Crop

Particulars	Estimated Production
Area (ha)	1,542.01
Tons Cane (tc)	174,816.61
LKG (lkg)	470,317.58

Weather Forecast (Today)

mm of rain of week ending : 2017-03-06	mm of rain of week ending : 2017-03-13	mm of rain of week ending : 2017-03-20	mm of rain of week ending : 2017-03-27
0.0 mm	13.0 mm	0.0 mm	0.0 mm

Narrative Report for Week Ending 2017-03-12

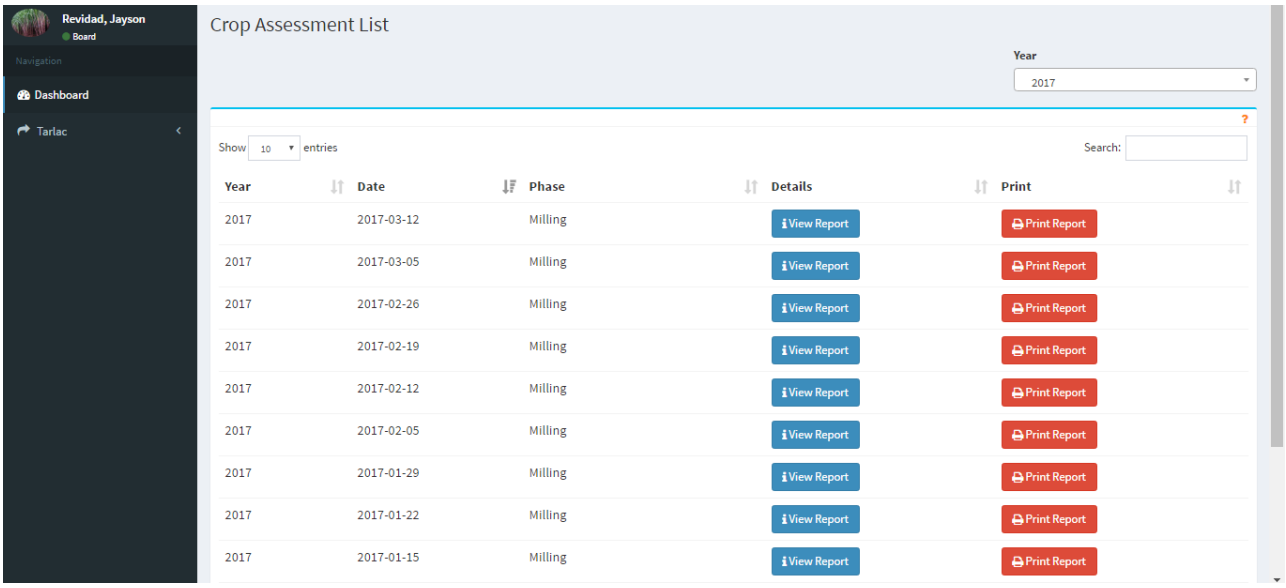
WEATHER	There was no rain, sunny day
PRICE OF SUGAR	P1500
MILL OPERATION	Normal
PRICES OF INPUTS	Fertilizer at P500 per bag
FINDINGS	There were a lot of reported problems for the week
OVERALL ANALYSIS	Low productivity

PRICES OF INPUTS	Fertilizer at P500 per bag
FINDINGS	There were a lot of reported problems for the week
OVERALL ANALYSIS	Low productivity

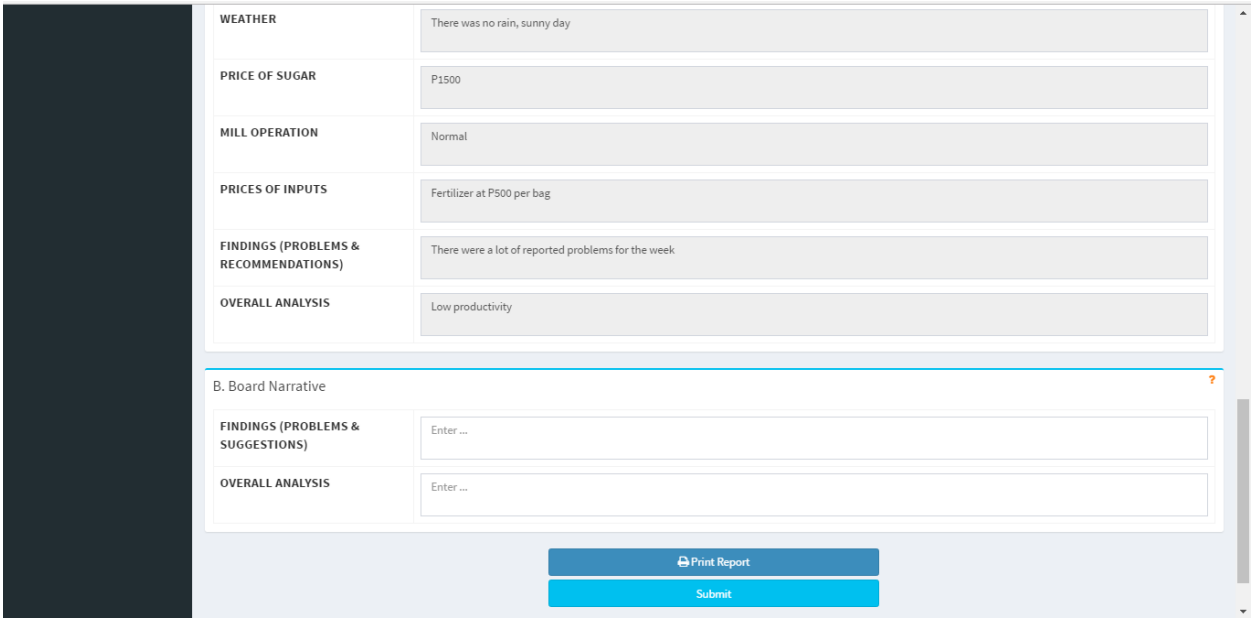
BOARD NARRATIVE	
FINDINGS (PROBLEMS & SUGGESTIONS)	
OVERALL ANALYSIS	

Print Crop Assessment

The board can check the previous crop assessment of Tarlac by clicking 'Crop Assessment Reports'. There, the board is able to see the crop assessment reports from the previous weeks. The data displayed is until the current date only but the cutoff is at the end of every week. The board can now choose to 'print report' or 'view report'.

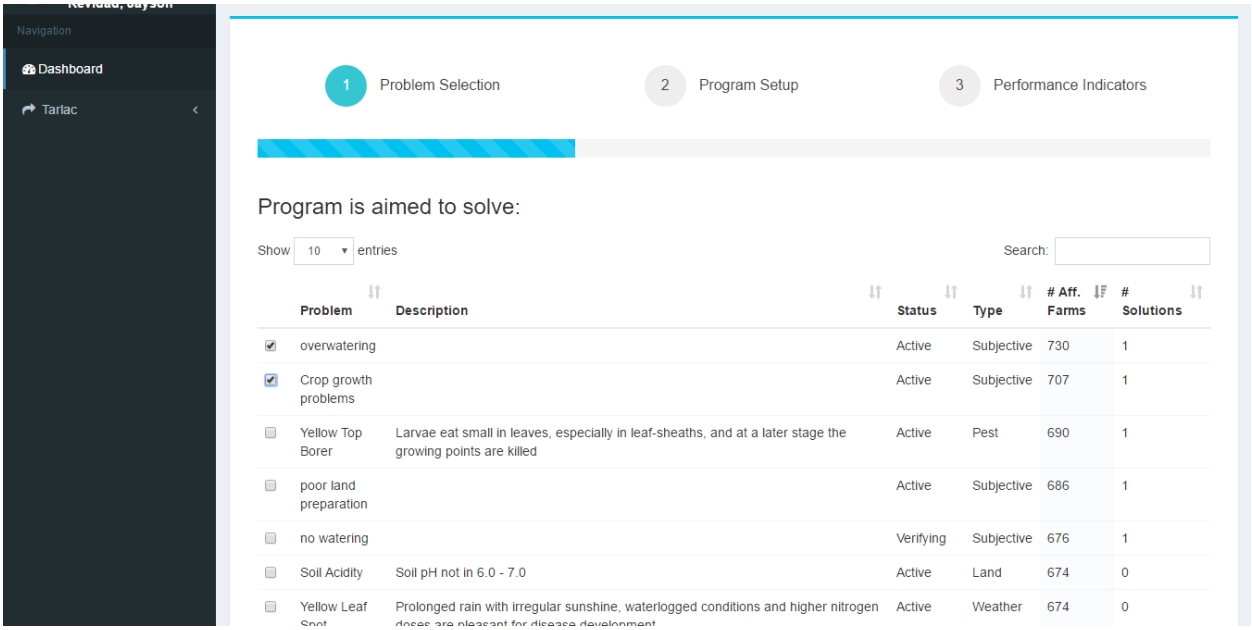


If the board chooses to 'view report', the board now has an option to submit their findings, analysis, or comments. Once submitted, the MDO can see it on their homepage.

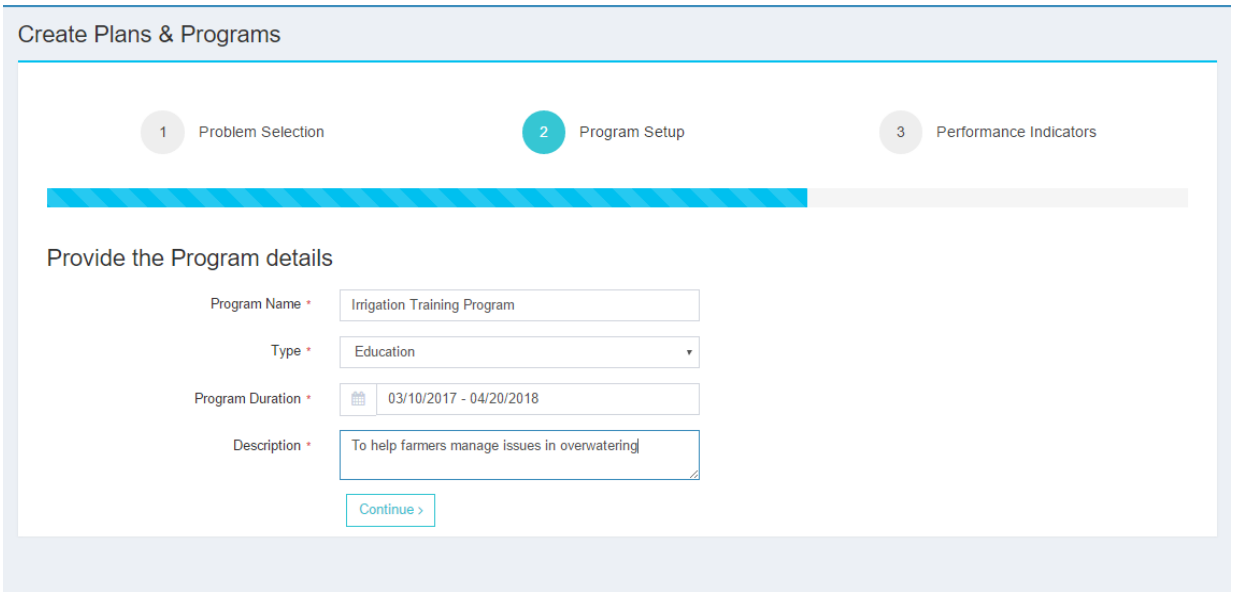


He is now to create a program for Tarlac District if he notices that there is any problem that needs to be addressed. He goes to create plans and programs page. The first thing he sees is the

problems to be addressed. He sees the list of problems with their types and the number of farms affected in the district which are now sorted by the most number of farms affected. Jayson selects overwatering and crop growth as the problems. Refer to revision#4

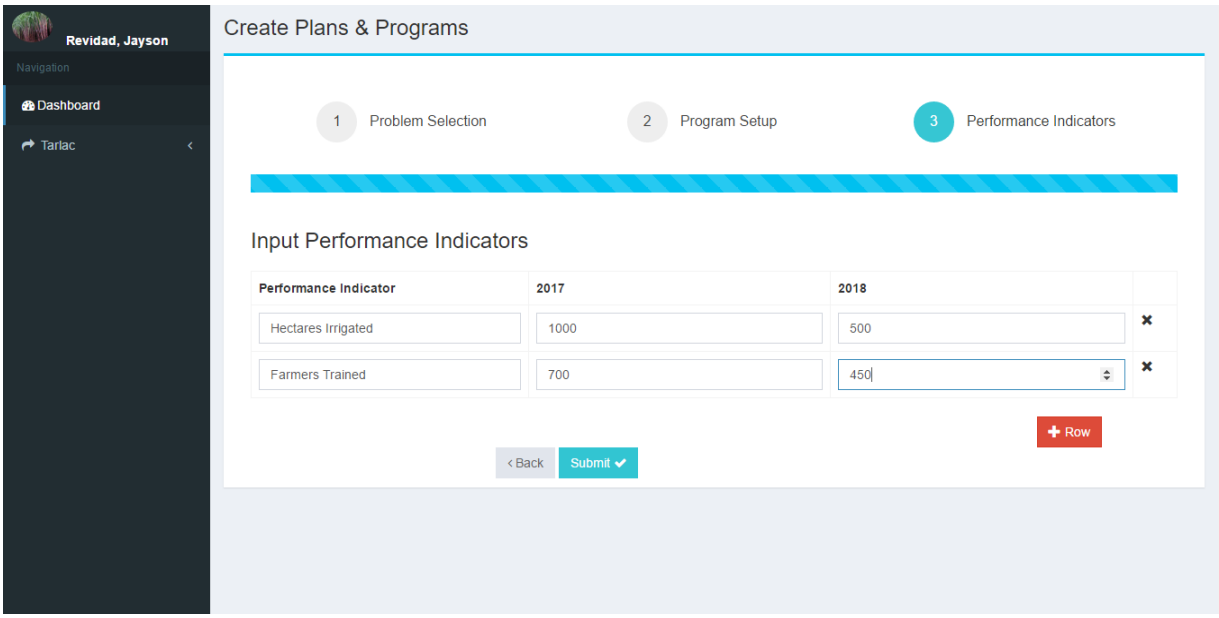


He proceeds to enter the program name "Irrigation Training Program" and enters the details for the program. He sets the duration to "03/10/17" as start date and "04/20/18" as end date. For the description, he inputs "To help farmers manage issues of overwatering"

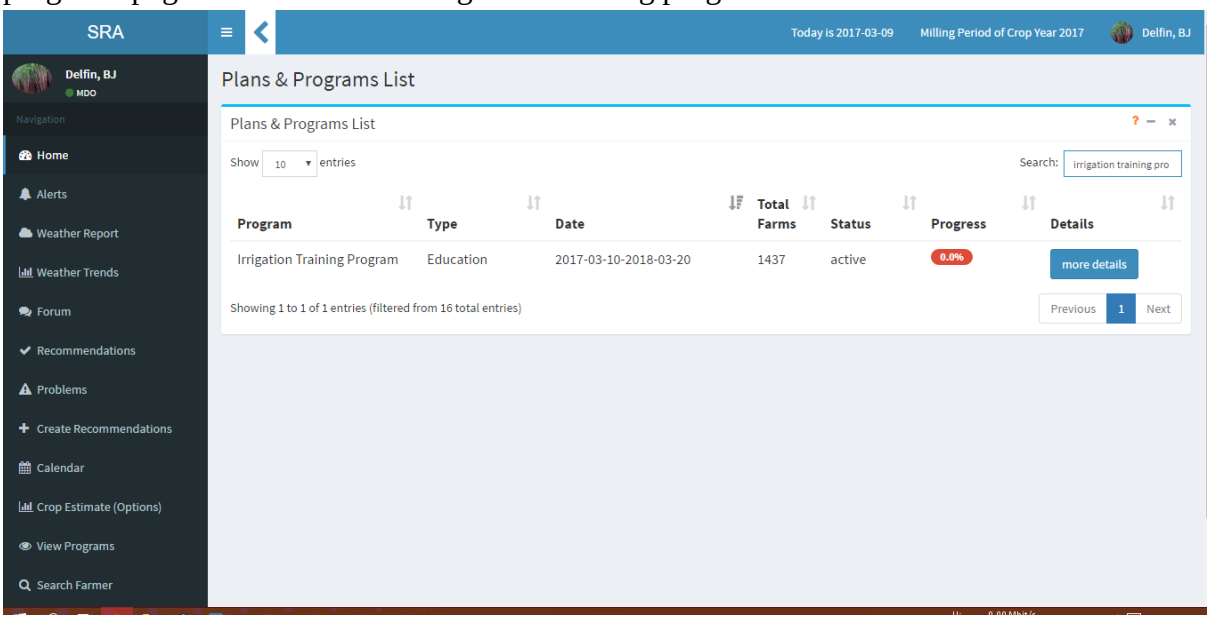


He enters the performance indicators for the program and deploys it. The performance indicators are as follows:

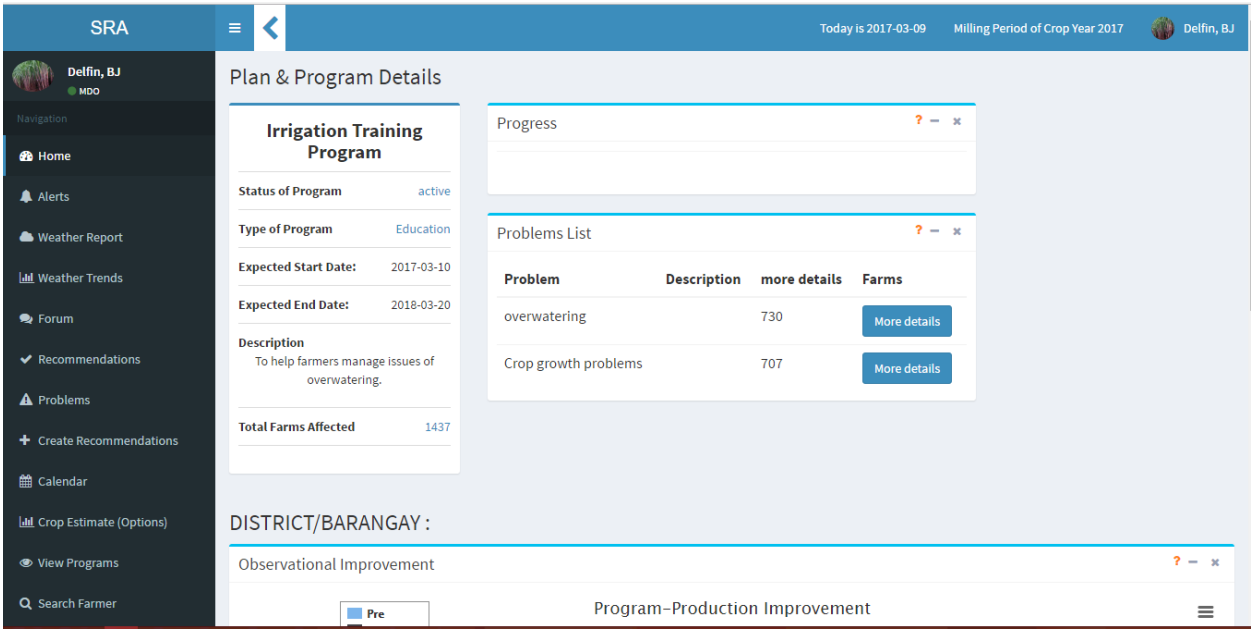
1. Hectares Irrigated
    a. 2017 Target: 1000
    b. 2018 Target: 500
2. Farmers Trained
    a. 2017 Target: 700
    b. 2018 Target: 450



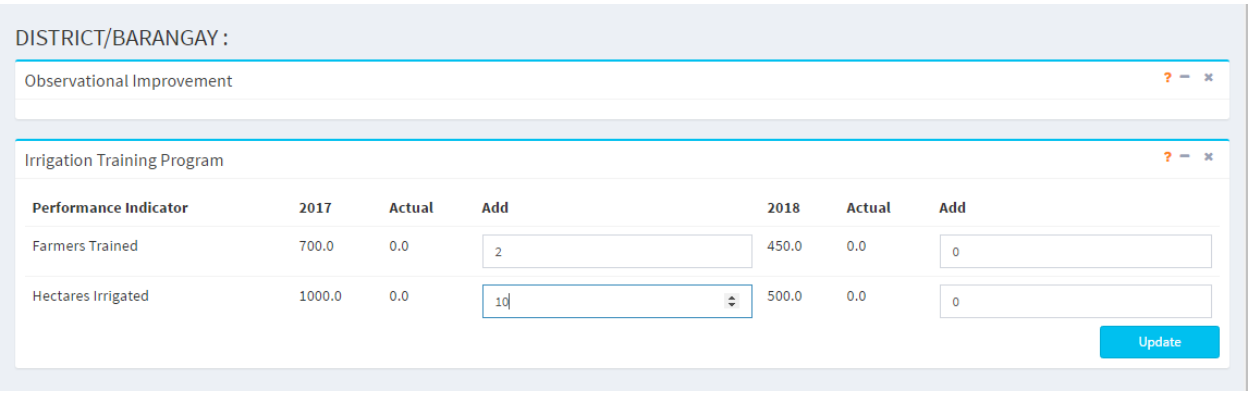
MDO Bj is the one that will be updating the program for his district. He goes to the view programs page and searches for Irrigation Training program.



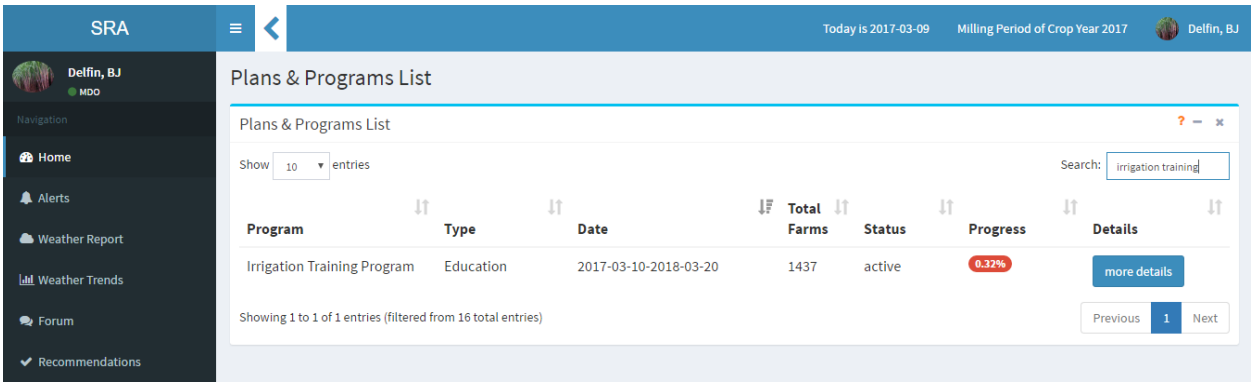
Bj views the details of the program and updates the performance indicators.



He inputs 2 for Farmers Trained, 10 for Hectares irrigated

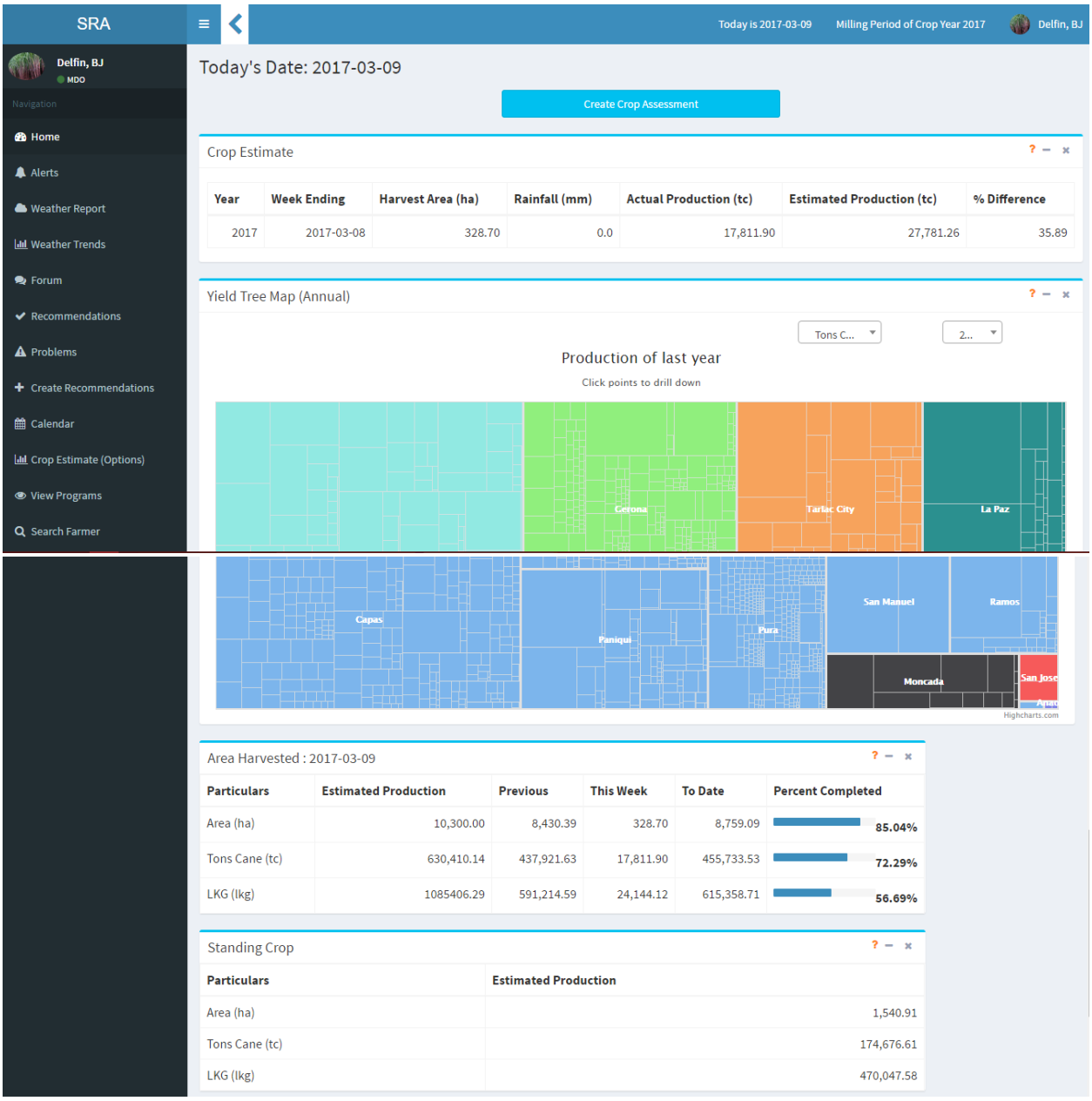


Afterwards, Bj proceeds to see how much progress the program has after updating it. He is redirected to programs list after updating and searches for Irrigation Training Program.

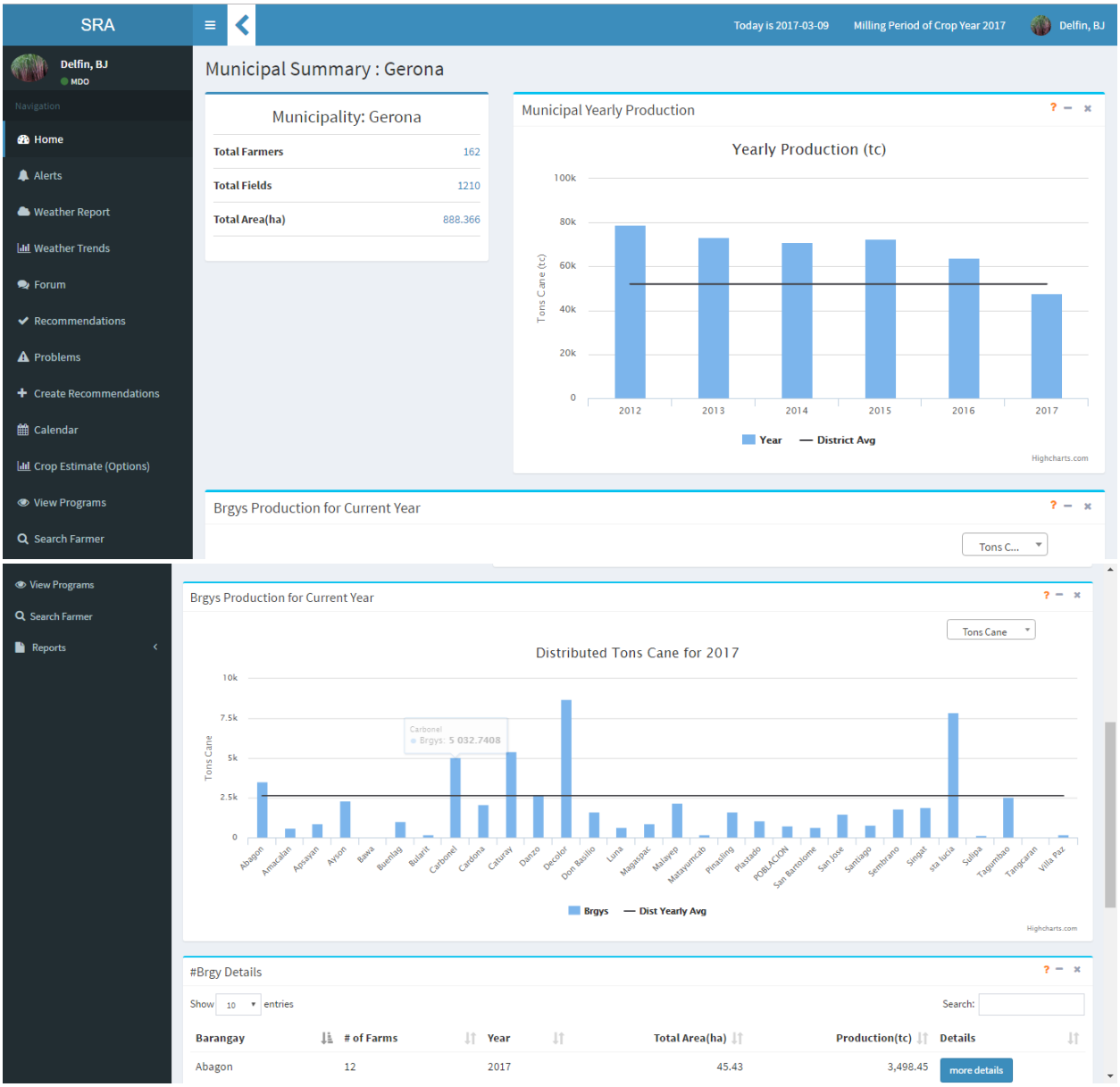


Scenario 2: Providing Farmer Recommendations and Assistance.

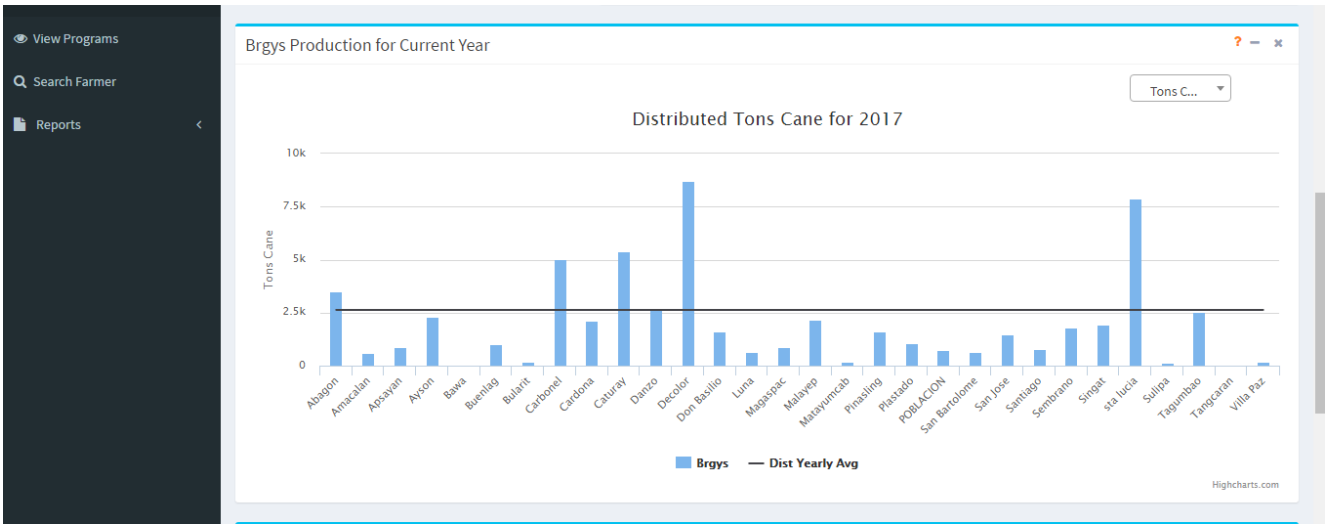
Mill District Officer Bj logs into the system and wants to conduct an observation of his farms in the district. He sees the treemap and there, the municipalities of Tarlac are shown.

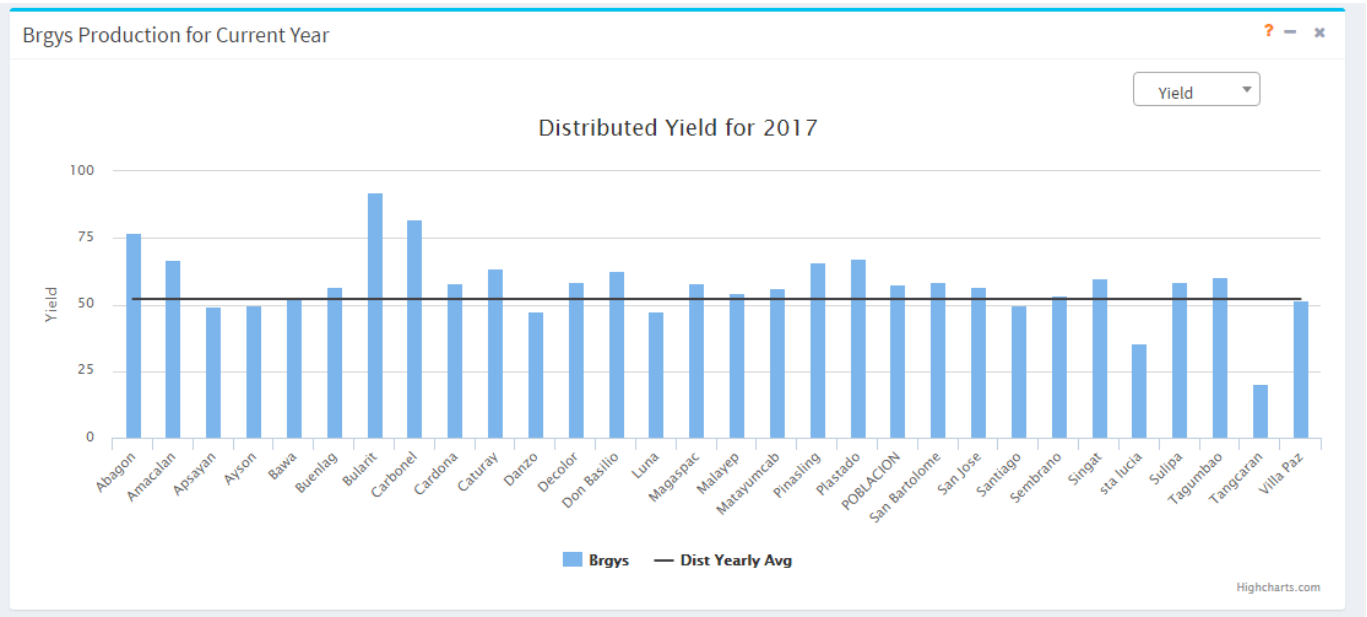


He clicks on municipality of Gerona and there he sees the production summary. He also sees the barangay production summary.

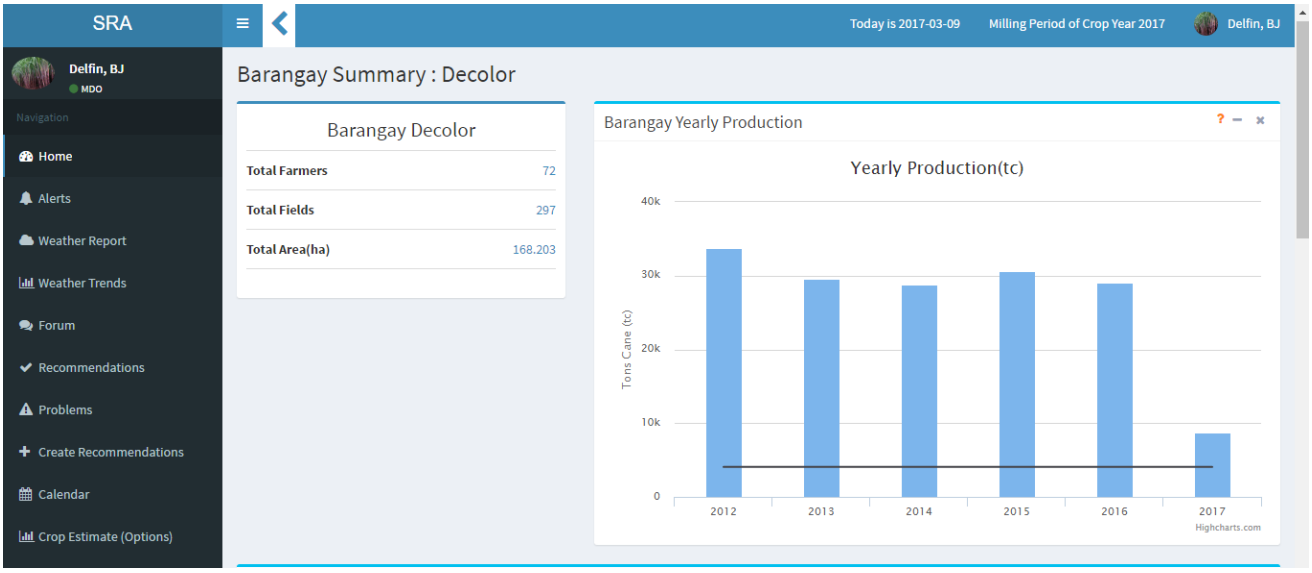


He notices that barangay “Decolor” is doing very well in terms of tons cane, he checks if the yield is also good but notices that it is not as high. He clicks on that barangay and he sees the farmers in that barangay.

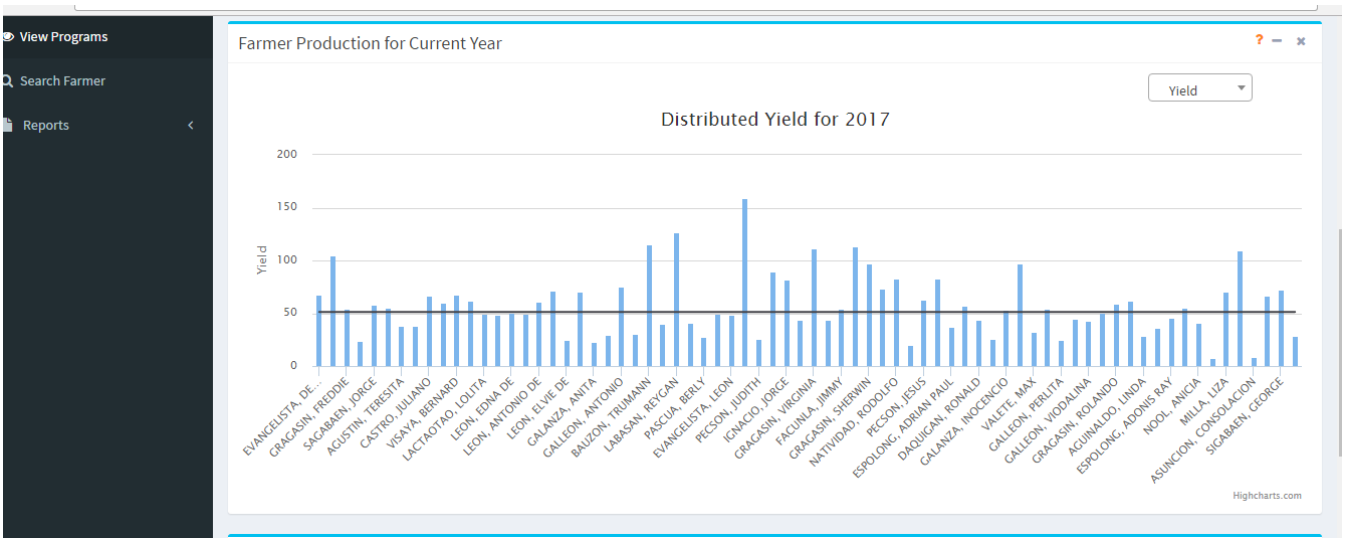


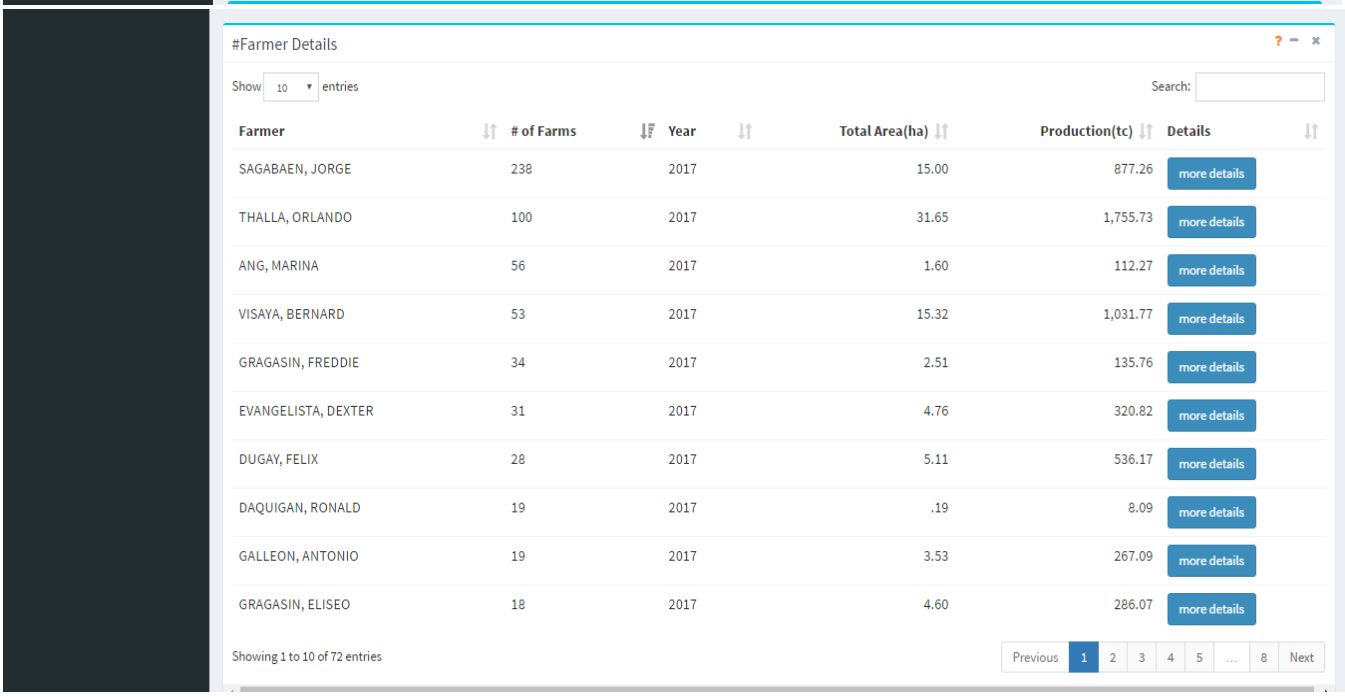


He sees the production summary of barangay Decolor.



Now he wants to know which farmer has the most number of farms because that farmer would have the most contribution in terms of production. He finds out that farmer Jorge Sagabaen is the farmer with the most farm but does not have the highest yield. Bj is interested to know how he can help.





#Farmer Details

Show 10 entries

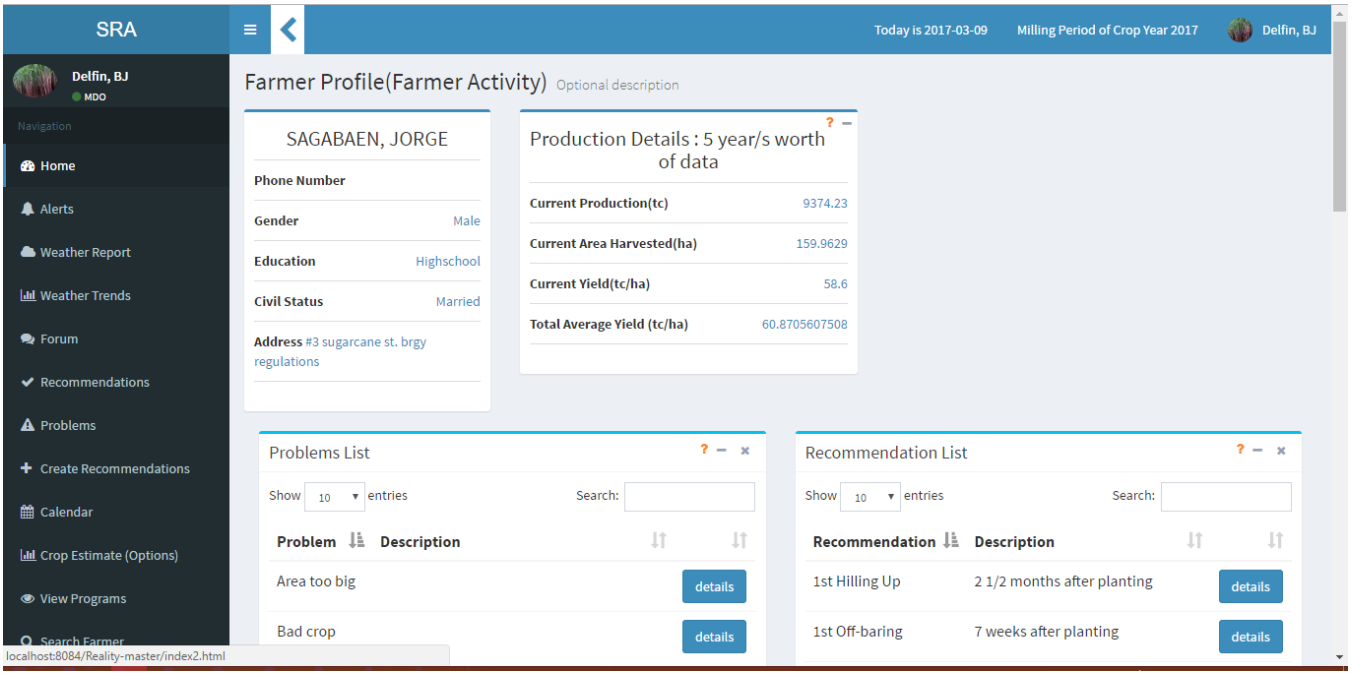
Search:

Farmer	# of Farms	Year	Total Area(ha)	Production(tc)	Details
SAGABAEN, JORGE	238	2017	15.00	877.26	more details
THALLA, ORLANDO	100	2017	31.65	1,755.73	more details
ANG, MARINA	56	2017	1.60	112.27	more details
VISAYA, BERNARD	53	2017	15.32	1,031.77	more details
GRAGASIN, FREDDIE	34	2017	2.51	135.76	more details
EVANGELISTA, DEXTER	31	2017	4.76	320.82	more details
DUGAY, FELIX	28	2017	5.11	536.17	more details
DAQUIGAN, RONALD	19	2017	.19	8.09	more details
GALLEON, ANTONIO	19	2017	3.53	267.09	more details
GRAGASIN, ELISEO	18	2017	4.60	286.07	more details

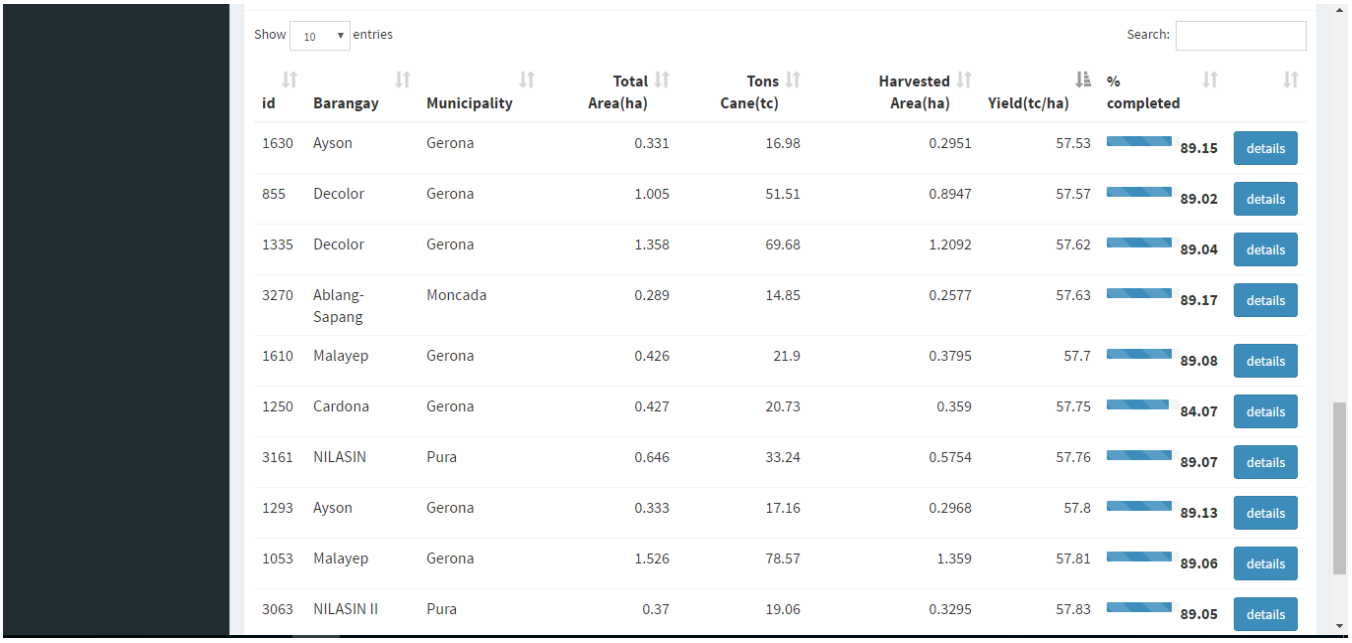
Showing 1 to 10 of 72 entries

Previous 1 2 3 4 5 ... 8 Next

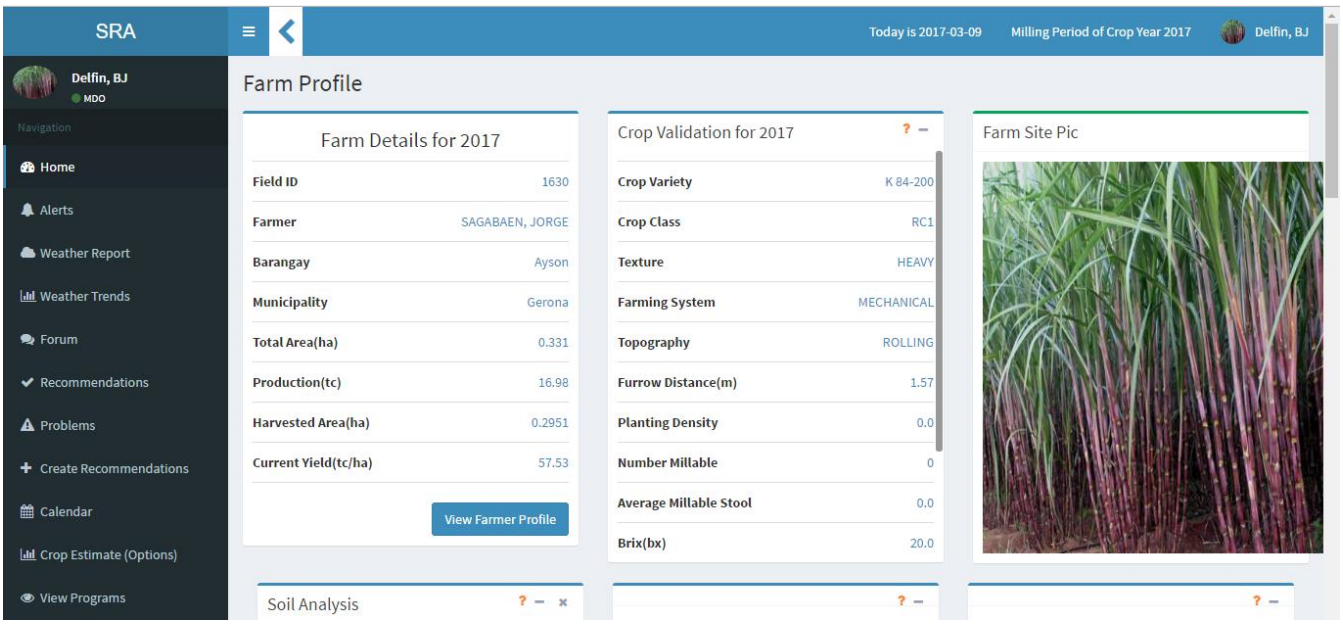
He goes to Jorge Sagabaen's profile and sees his farmer details as well as his farms. He also sees the problems occurring in Jorge's farms as well as the recommendations he is doing.

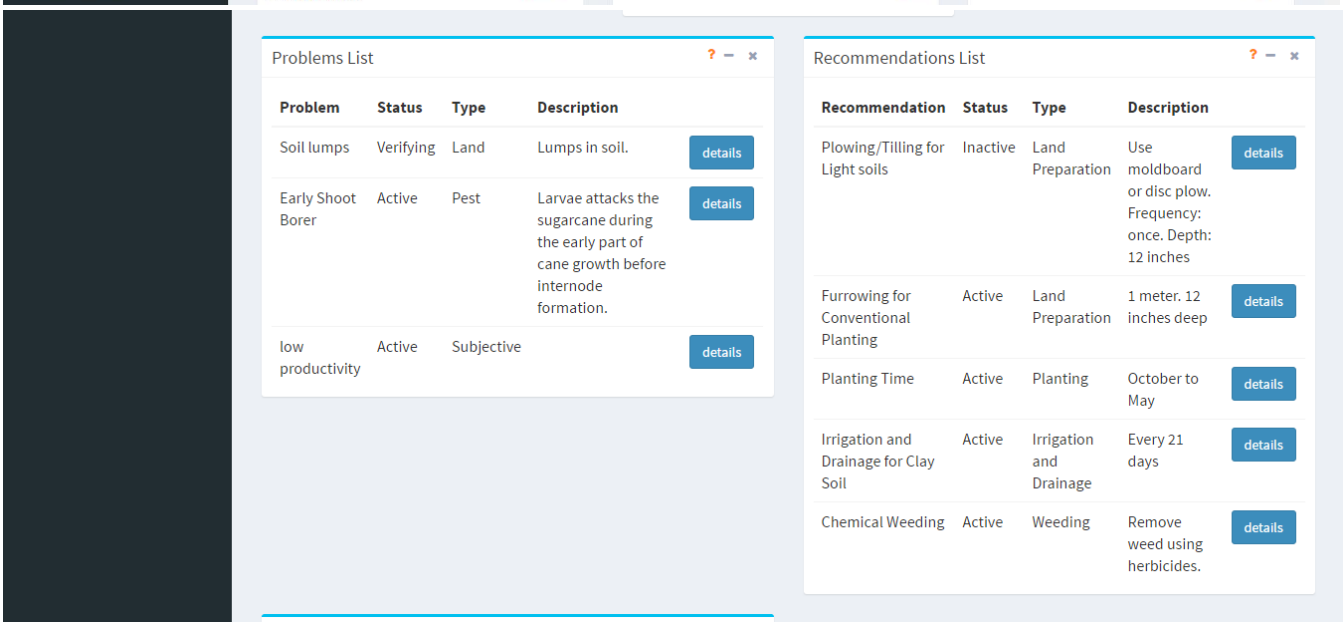


He clicks the farm with the lowest yield which is farm "1630". Refer to revision#1

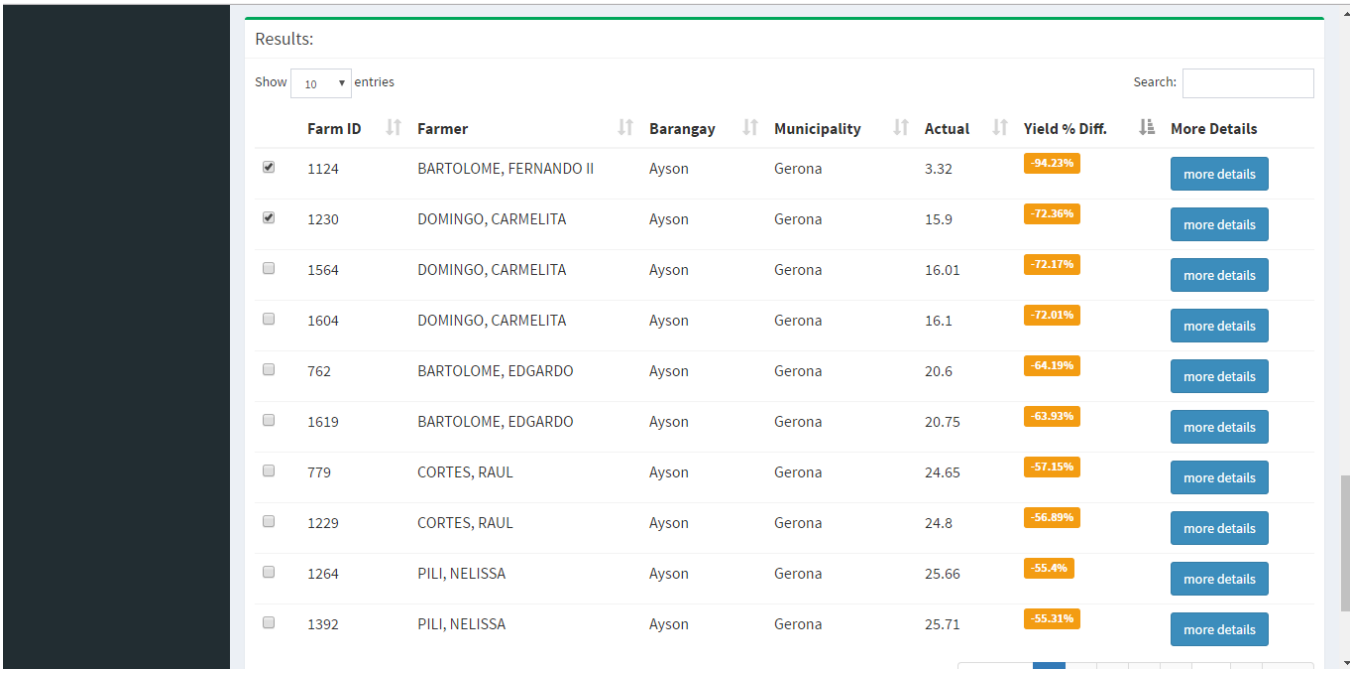


id	Barangay	Municipality	Total Area(ha)	Tons Cane(tc)	Harvested Area(ha)	Yield(tc/ha)	% completed	
1630	Ayson	Gerona	0.331	16.98	0.2951	57.53	89.15	details
855	Decolor	Gerona	1.005	51.51	0.8947	57.57	89.02	details
1335	Decolor	Gerona	1.358	69.68	1.2092	57.62	89.04	details
3270	Ablang-Sapang	Moncada	0.289	14.85	0.2577	57.63	89.17	details
1610	Malayep	Gerona	0.426	21.9	0.3795	57.7	89.08	details
1250	Cardona	Gerona	0.427	20.73	0.359	57.75	84.07	details
3161	NILASIN	Pura	0.646	33.24	0.5754	57.76	89.07	details
1293	Ayson	Gerona	0.333	17.16	0.2968	57.8	89.13	details
1053	Malayep	Gerona	1.526	78.57	1.359	57.81	89.06	details
3063	NILASIN II	Pura	0.37	19.06	0.3295	57.83	89.05	details


SRA
Today is 2017-03-09
Milling Period of Crop Year 2017
Delfin, BJ
Delfin, BJ
MDO
Navigation
Home
Alerts
Weather Report
Weather Trends
Forum
Recommendations
Problems
Create Recommendations
Calendar
Crop Estimate (Options)
View Programs
Farm Profile
Farm Details for 2017
Field ID 1630
Farmer SAGABAEN, JORGE
Barangay Ayson
Municipality Gerona
Total Area(ha) 0.331
Production(tc) 16.98
Harvested Area(ha) 0.2951
Current Yield(tc/ha) 57.53
View Farmer Profile
Crop Validation for 2017
Crop Variety K 84-200
Crop Class RC1
Texture HEAVY
Farming System MECHANICAL
Topography ROLLING
Furrow Distance(m) 1.57
Planting Density 0.0
Number Millable 0
Average Millable Stool 0.0
Brix(bx) 20.0
Farm Site Pic
Soil Analysis


Problems List
Problem Status Type Description
Soil lumps Verifying Land Lumps in soil. details
Early Shoot Borer Active Pest Larvae attacks the sugarcane during the early part of cane growth before internode formation. details
low productivity Active Subjective details
Recommendations List
Recommendation Status Type Description
Plowing/Tilling for Light soils Inactive Land Preparation Use moldboard or disc plow. Frequency: once. Depth: 12 inches details
Furrowing for Conventional Planting Active Land Preparation 1 meter. 12 inches deep details
Planting Time Active Planting October to May details
Irrigation and Drainage for Clay Soil Active Irrigation and Drainage Every 21 days details
Chemical Weeding Active Weeding Remove weed using herbicides. details

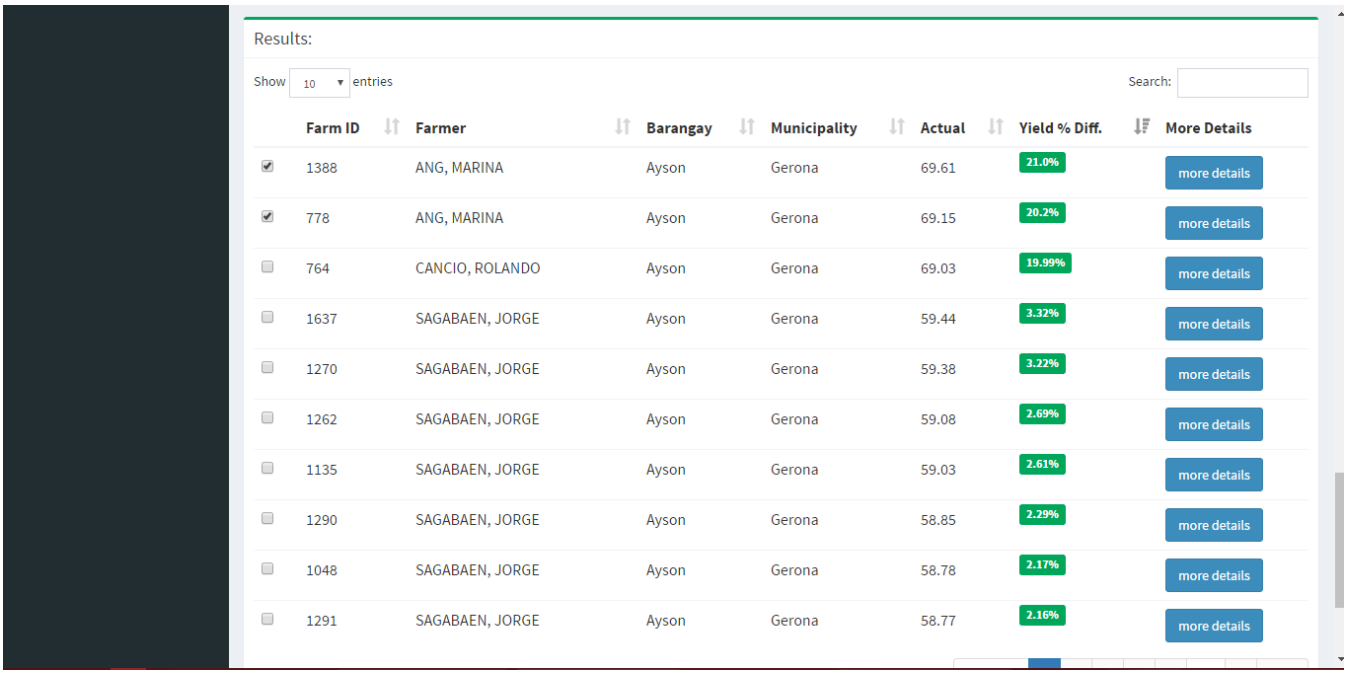
He proceeds to conduct an observation. For the tags, he chooses the tag "barangay" because he wants to compare farm 1630 with other farms of the same barangay. He chooses the 2 farms with the higher yield than farm 855 namely: farms "1388" and "778" and with the lower yield farms "1124" and "1230". He proceeds to the comparison page.



Results:

Show 10 entries Search:

	Farm ID	Farmer	Barangay	Municipality	Actual	Yield % Diff.	More Details
☑	1124	BARTOLOME, FERNANDO II	Ayson	Gerona	3.32	-94.23%	more details
☑	1230	DOMINGO, CARMELITA	Ayson	Gerona	15.9	-72.36%	more details
☐	1564	DOMINGO, CARMELITA	Ayson	Gerona	16.01	-72.17%	more details
☐	1604	DOMINGO, CARMELITA	Ayson	Gerona	16.1	-72.01%	more details
☐	762	BARTOLOME, EDGARDO	Ayson	Gerona	20.6	-64.19%	more details
☐	1619	BARTOLOME, EDGARDO	Ayson	Gerona	20.75	-63.93%	more details
☐	779	CORTES, RAUL	Ayson	Gerona	24.65	-57.15%	more details
☐	1229	CORTES, RAUL	Ayson	Gerona	24.8	-56.89%	more details
☐	1264	PILI, NELISSA	Ayson	Gerona	25.66	-55.4%	more details
☐	1392	PILI, NELISSA	Ayson	Gerona	25.71	-55.31%	more details

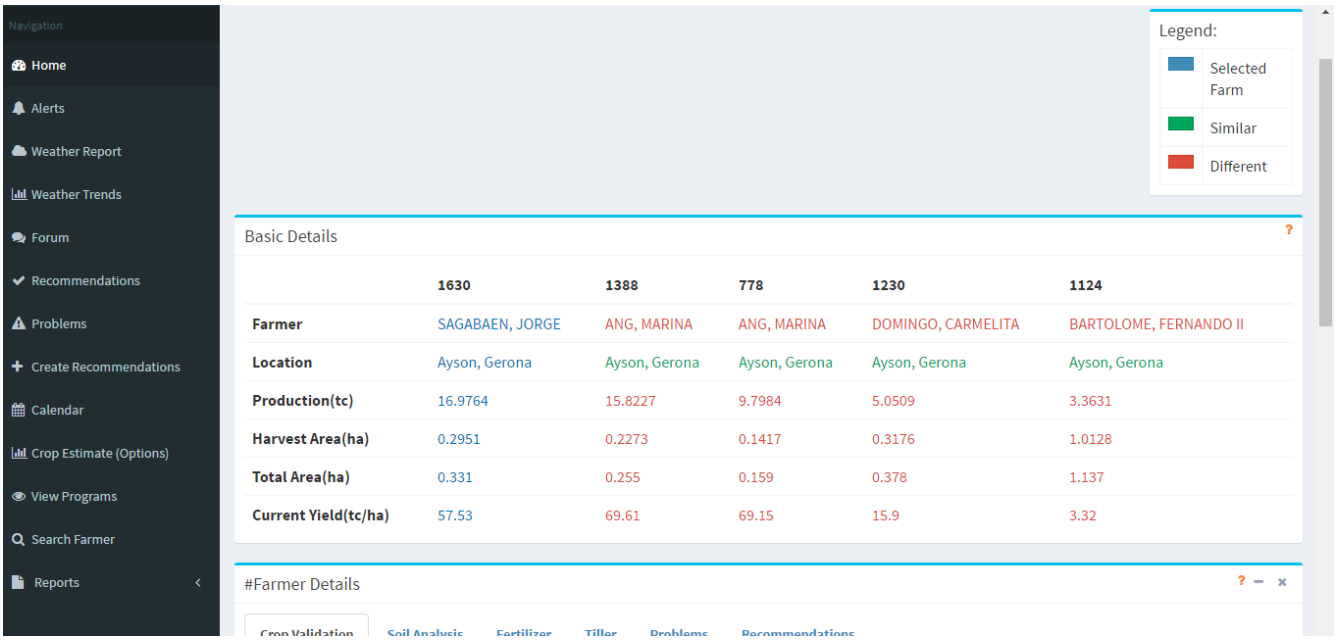


Results:

Show 10 entries Search:

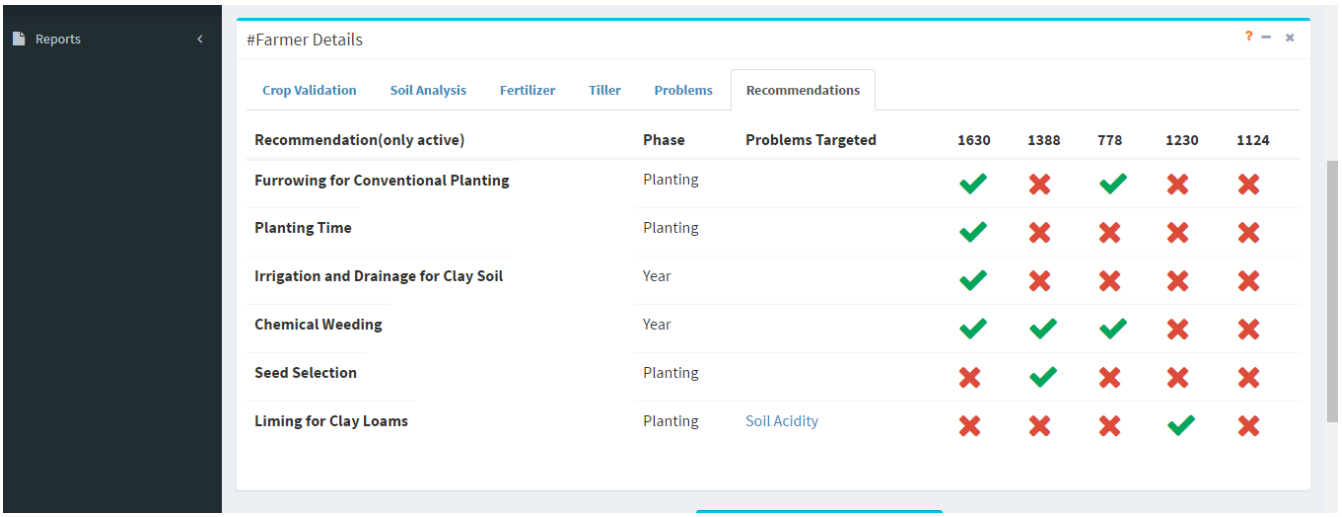
	Farm ID	Farmer	Barangay	Municipality	Actual	Yield % Diff.	More Details
☑	1388	ANG, MARINA	Ayson	Gerona	69.61	21.0%	more details
☑	778	ANG, MARINA	Ayson	Gerona	69.15	20.2%	more details
☐	764	CANCIO, ROLANDO	Ayson	Gerona	69.03	19.99%	more details
☐	1637	SAGABAEN, JORGE	Ayson	Gerona	59.44	3.32%	more details
☐	1270	SAGABAEN, JORGE	Ayson	Gerona	59.38	3.22%	more details
☐	1262	SAGABAEN, JORGE	Ayson	Gerona	59.08	2.69%	more details
☐	1135	SAGABAEN, JORGE	Ayson	Gerona	59.03	2.61%	more details
☐	1290	SAGABAEN, JORGE	Ayson	Gerona	58.85	2.29%	more details
☐	1048	SAGABAEN, JORGE	Ayson	Gerona	58.78	2.17%	more details
☐	1291	SAGABAEN, JORGE	Ayson	Gerona	58.77	2.16%	more details

Bj will see the details of the 5 selected farms in different categories. He first sees the basic details of the 5 farms like area and production. The blue text refers to the selected farm earlier. The green text refers to the similar information of the farms and red refers to the differences.



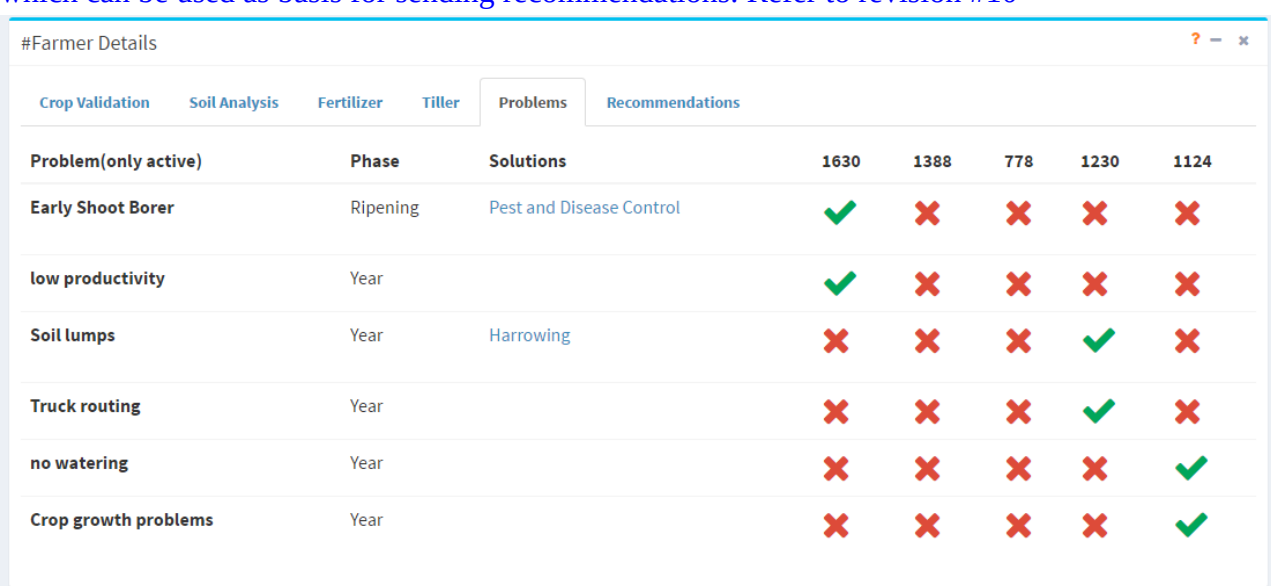
	1630	1388	778	1230	1124
Farmer	SAGABAEN, JORGE	ANG, MARINA	ANG, MARINA	DOMINGO, CARMELITA	BARTOLOME, FERNANDO II
Location	Ayson, Gerona	Ayson, Gerona	Ayson, Gerona	Ayson, Gerona	Ayson, Gerona
Production(tc)	16.9764	15.8227	9.7984	5.0509	3.3631
Harvest Area(ha)	0.2951	0.2273	0.1417	0.3176	1.0128
Total Area(ha)	0.331	0.255	0.159	0.378	1.137
Current Yield(tc/ha)	57.53	69.61	69.15	15.9	3.32

He can now know why farms 1388 and 778 are doing good when he goes to the recommendations tab. He notices that these two farms are doing many farming practices that are helping in their productivity. The two lower producing farms “1230” and “1124” are not doing very well because they are not doing much farming practices. The check mark means that the farm is having this problem or recommendation while the X means that the farm does not have that problem or recommendation. For the recommendations, the problems targeted can be seen in a column as well as the phase, both of which can be used to facilitate assistance.



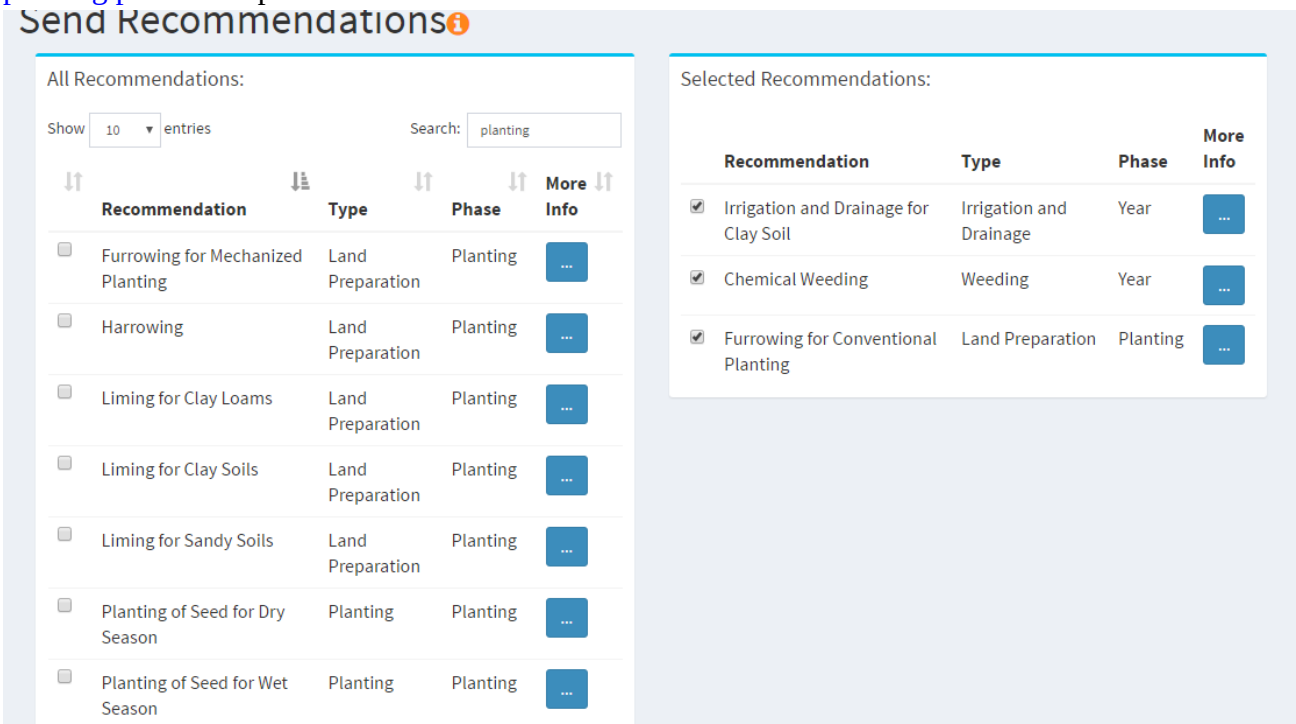
Recommendation(only active)	Phase	Problems Targeted	1630	1388	778	1230	1124
Furrowing for Conventional Planting	Planting		✓	✗	✓	✗	✗
Planting Time	Planting		✓	✗	✗	✗	✗
Irrigation and Drainage for Clay Soil	Year		✓	✗	✗	✗	✗
Chemical Weeding	Year		✓	✓	✓	✗	✗
Seed Selection	Planting		✗	✓	✗	✗	✗
Liming for Clay Loams	Planting	Soil Acidity	✗	✗	✗	✓	✗

Bj knows that having less farm practices would not automatically mean that these two farms will do bad. He goes to the problems tab and notices that farm “1230” and “1124” are experiencing many problems. Now Bj will be able to see the existing recommendations for each problem which can be used as basis for sending recommendations. Refer to revision #10

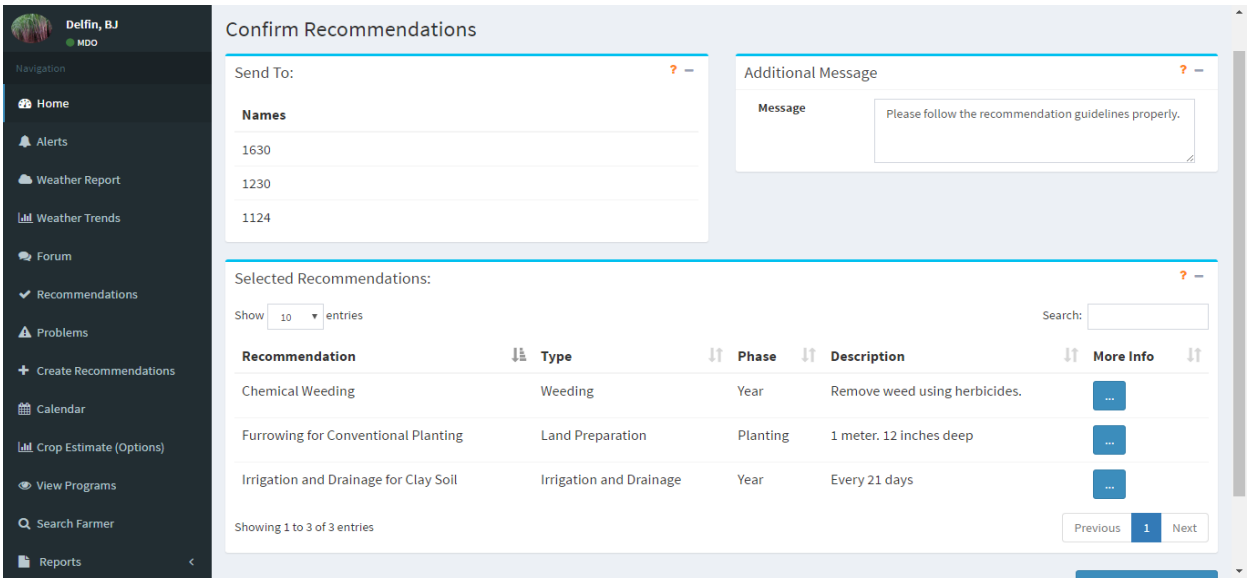


Problem(only active)	Phase	Solutions	1630	1388	778	1230	1124
Early Shoot Borer	Ripening	Pest and Disease Control	✓	✗	✗	✗	✗
low productivity	Year		✓	✗	✗	✗	✗
Soil lumps	Year	Harrowing	✗	✗	✗	✓	✗
Truck routing	Year		✗	✗	✗	✓	✗
no watering	Year		✗	✗	✗	✗	✓
Crop growth problems	Year		✗	✗	✗	✗	✓

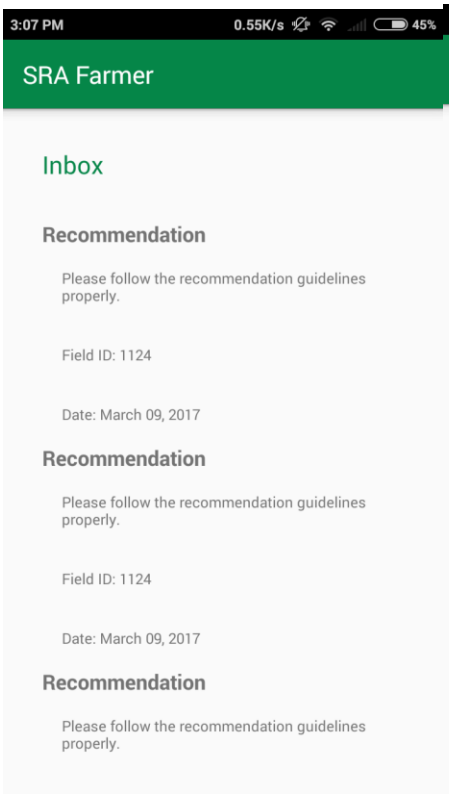
He concludes that these 3 farms are not productive and decides to send recommendations to them. He selects 'send recommendations'. There are already pre-selected recommendations that Bj can choose to include or not. He chooses to add furrowing for conventional planting as a recommendation since he noticed that there are recommendations from the table that are in the planting phase. He proceeds to select the recommendations. Refer to revision # 6 and 8

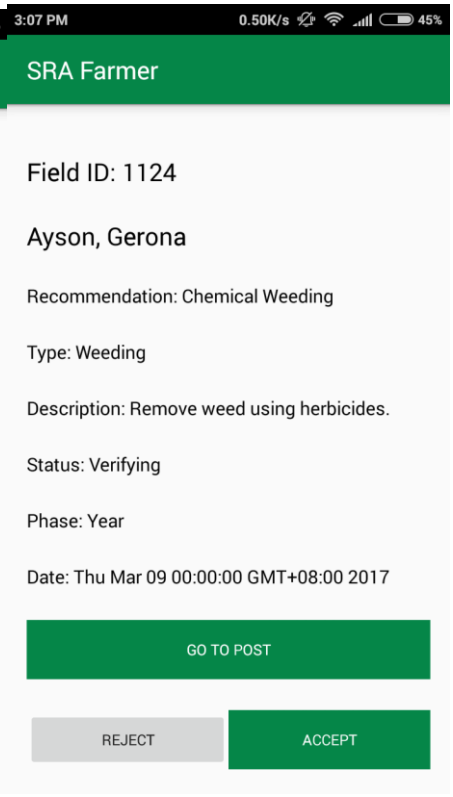


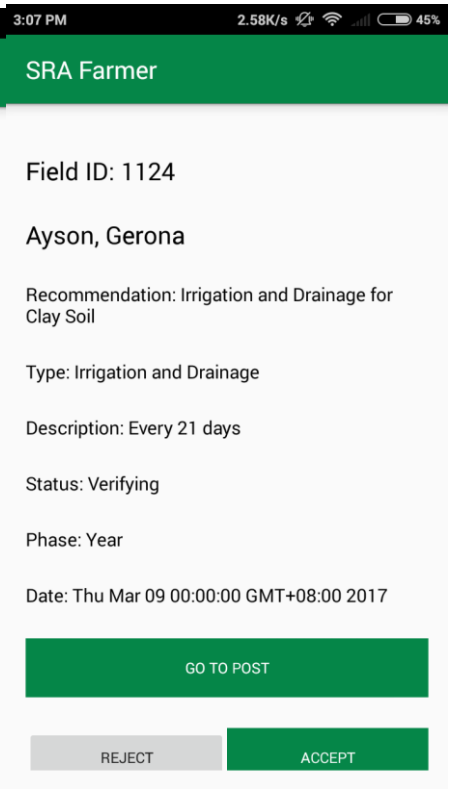
In the confirmation page, he adds a message saying "Please follow the recommendation guidelines properly."



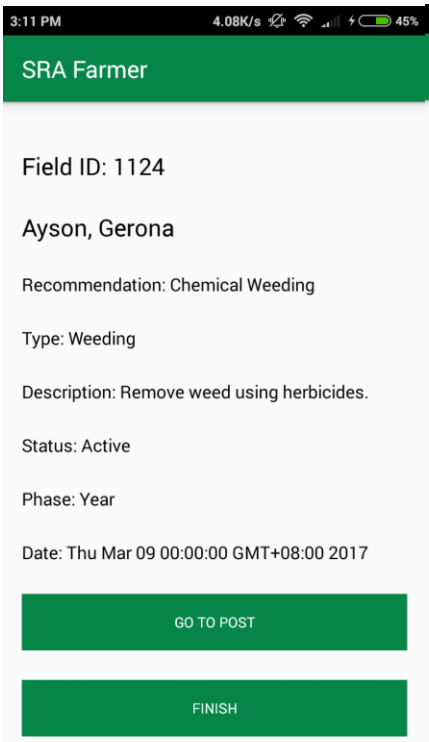
The farmers who receive the recommendations are notified through the mobile application.

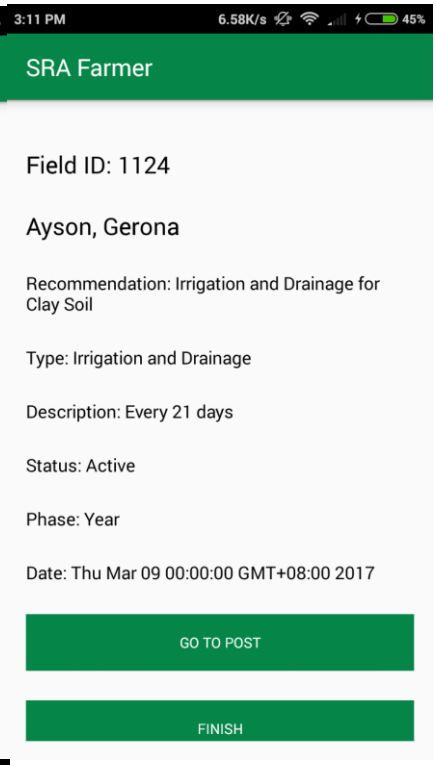


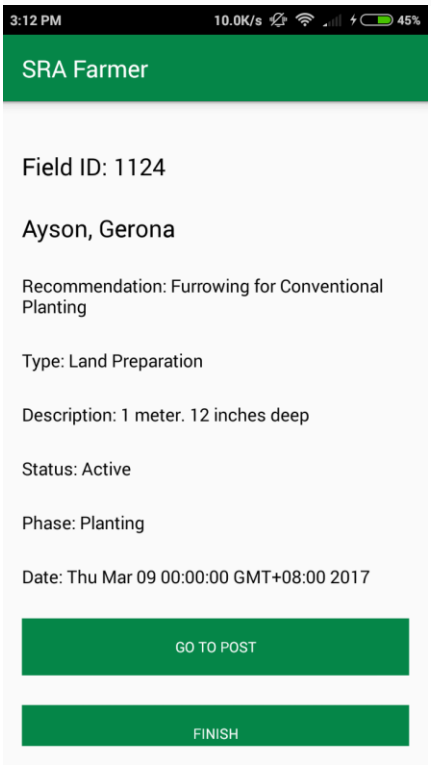




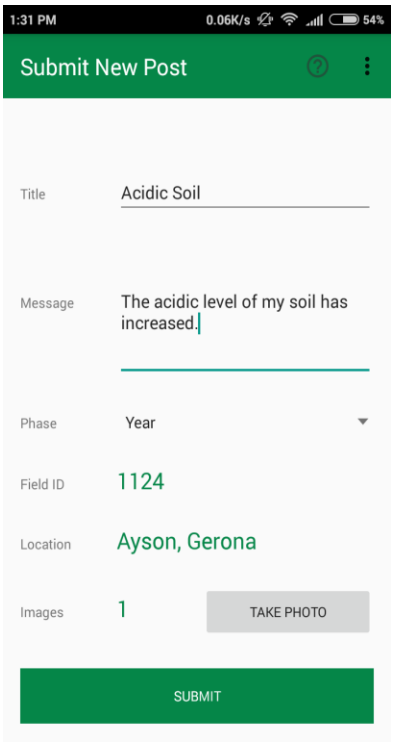
After accepting, the recommendations sent to him are saved in his account.



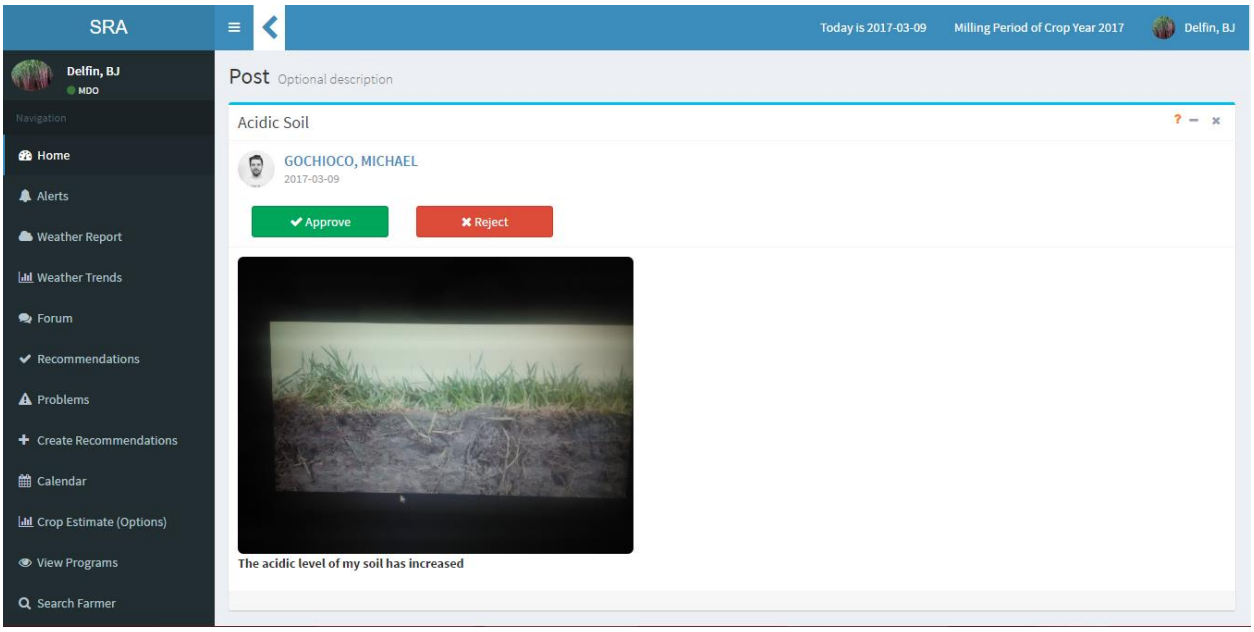


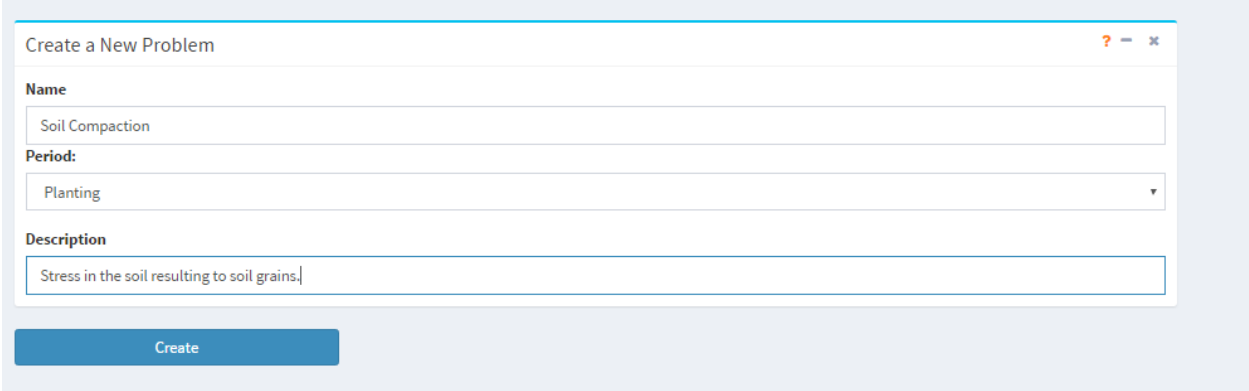


After the farmer confirms and accepts the recommendations, he remembers that he has other problems that was not reported to MDO Bj. He goes to the forum to post his problem. He creates the topic "Acidic Soil" and takes a picture and posts it in the forum.

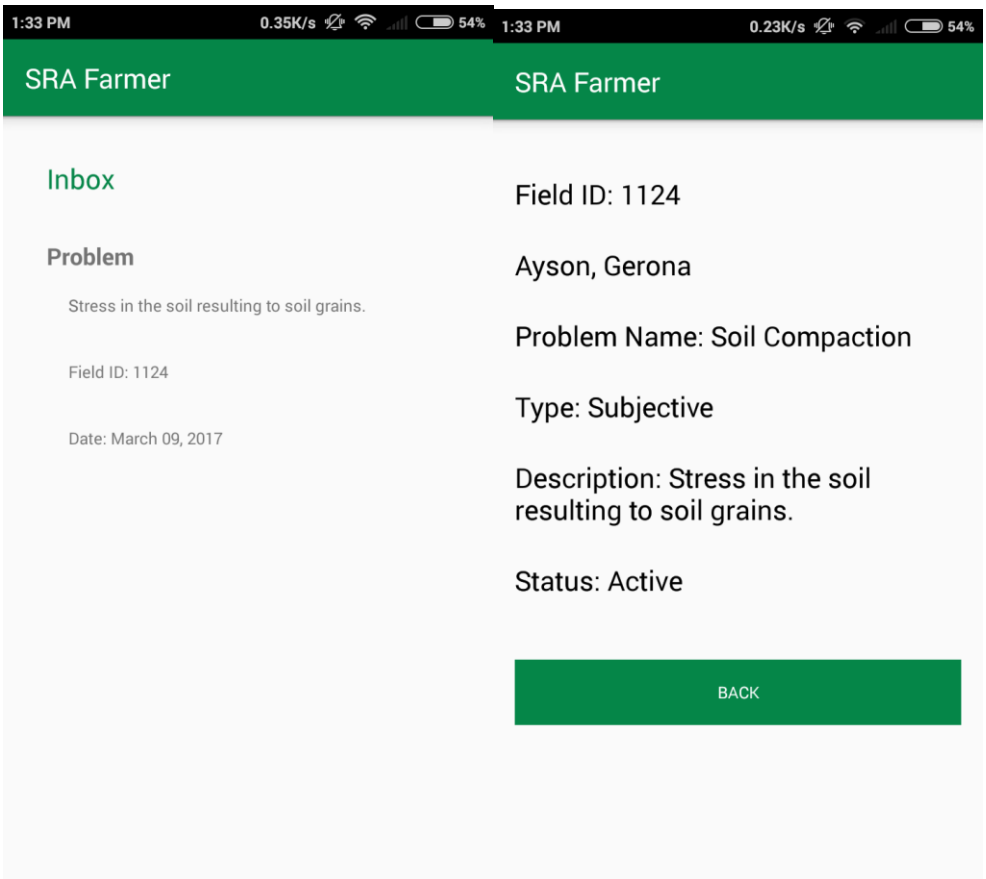


MDO Bj goes to the forum page and sees the latest post. He confirms that the topic is new and accepts the post. He then creates a new problem "Soil Compaction". The description "stress in the soil resulting to soil grains" is added.

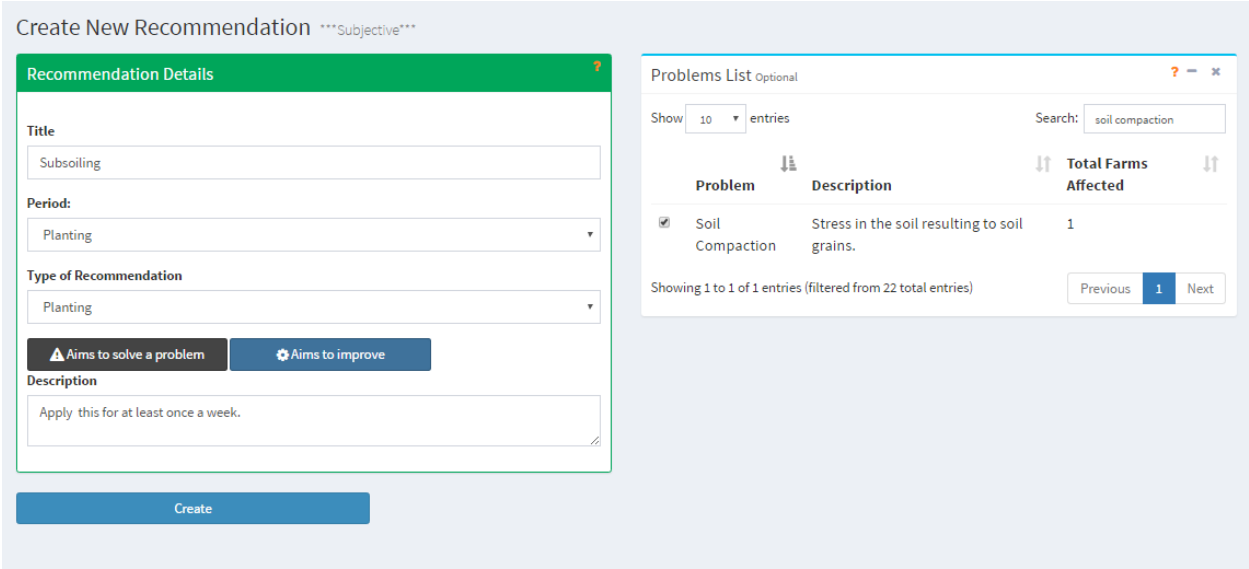




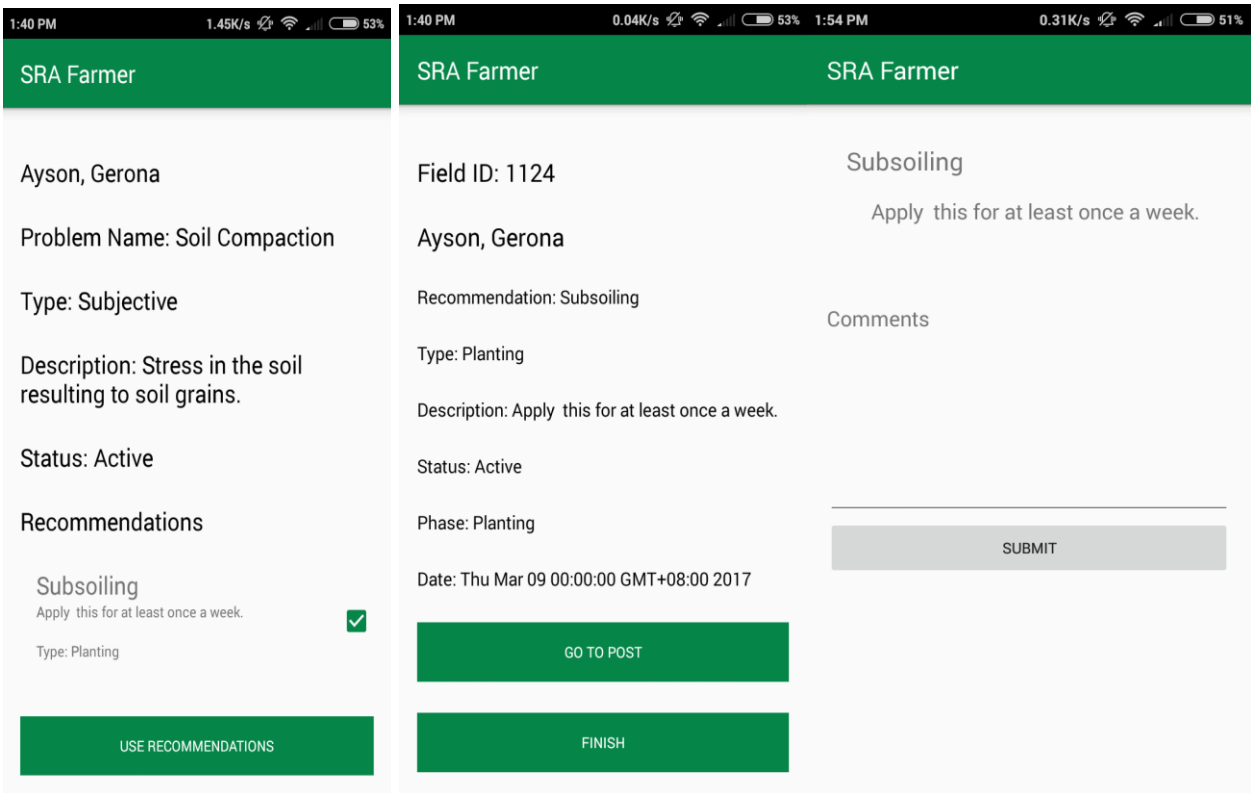
Farmer receives the problem.



MDO Bj can then create a new recommendation "SubSoiling" and adds a message saying "Apply this for at least once a week" to solve the problem "Soil Compaction".

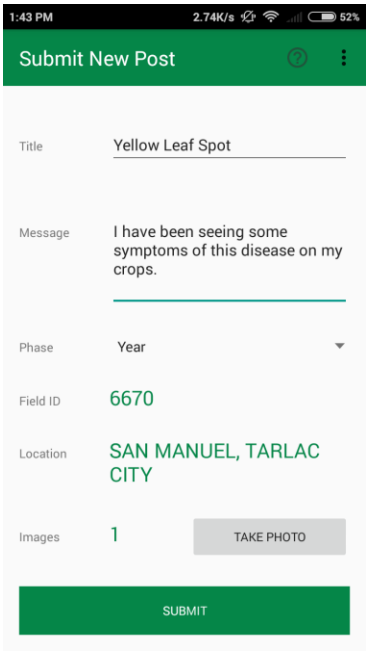


The farmer can then view solutions in the problem he has and accept it. The farmer can also 'view the post', to view the details of the solution.

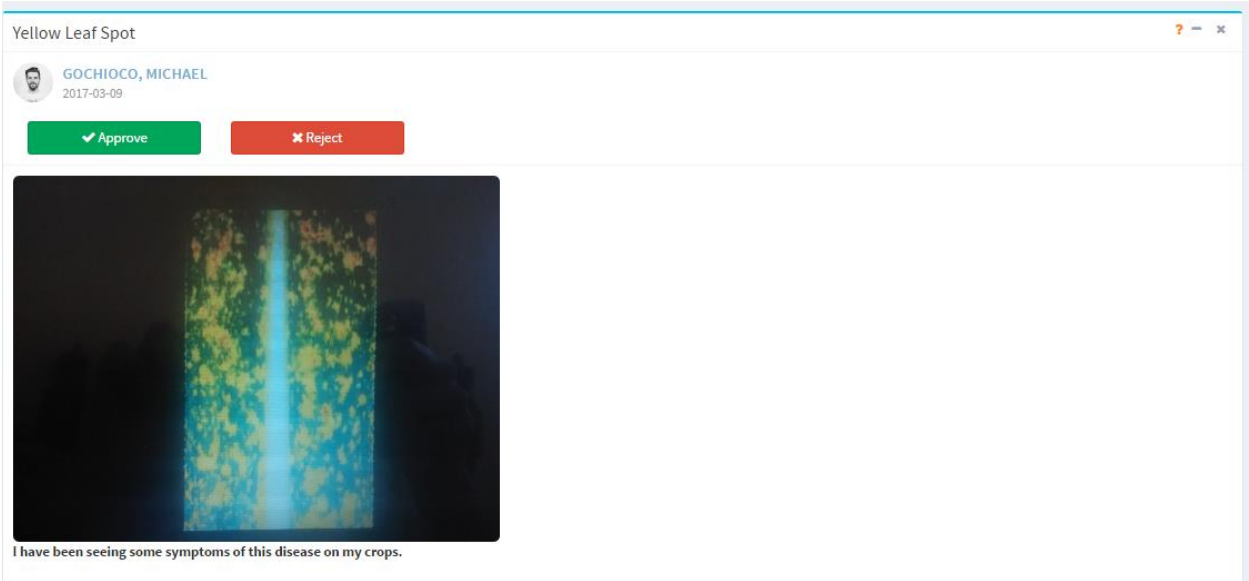


Scenario 3: Determining a Problem through the forum

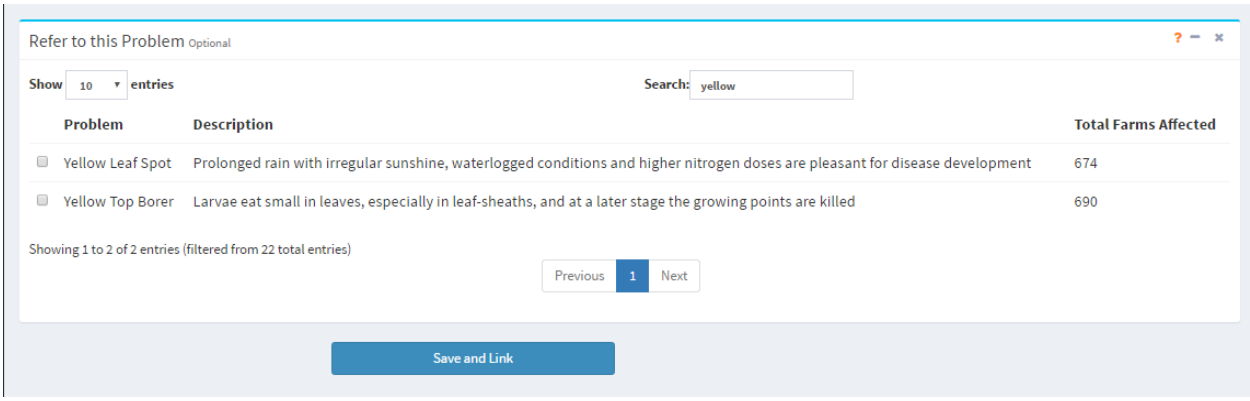
Farmer Michael Gochioco has yet to have records of problems or recommendations in his mobile account. He suddenly finds out that his crop is becoming yellowish. He is not sure of what is happening to the sugarcane crop and so he decides to create a post in the forum.



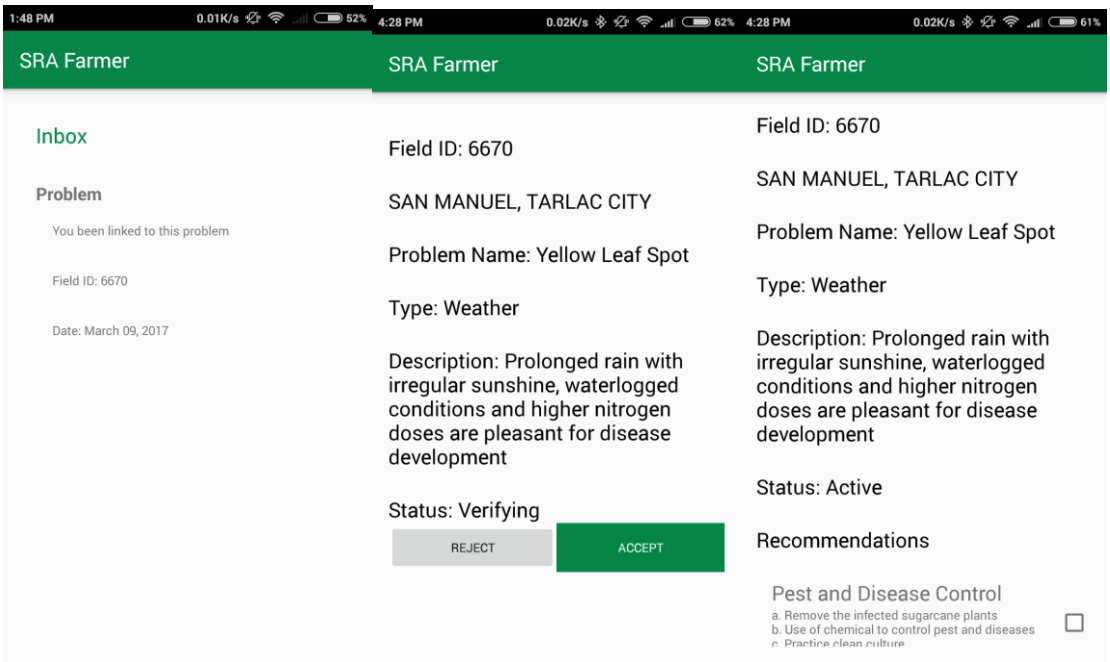
MDO Bj sees the new post and he confirms that the image posted is a disease called "Yellow Leaf Spot". With that, he decides to reject the post since he already has this problem in his problems repository.



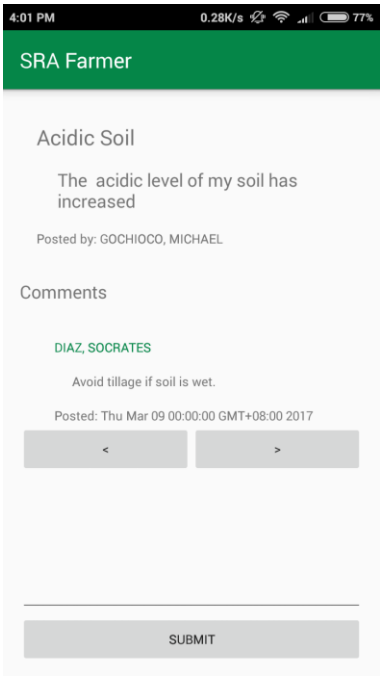
He tags the post to the problem "Yellow Leaf Spot". Refer to revision # 7

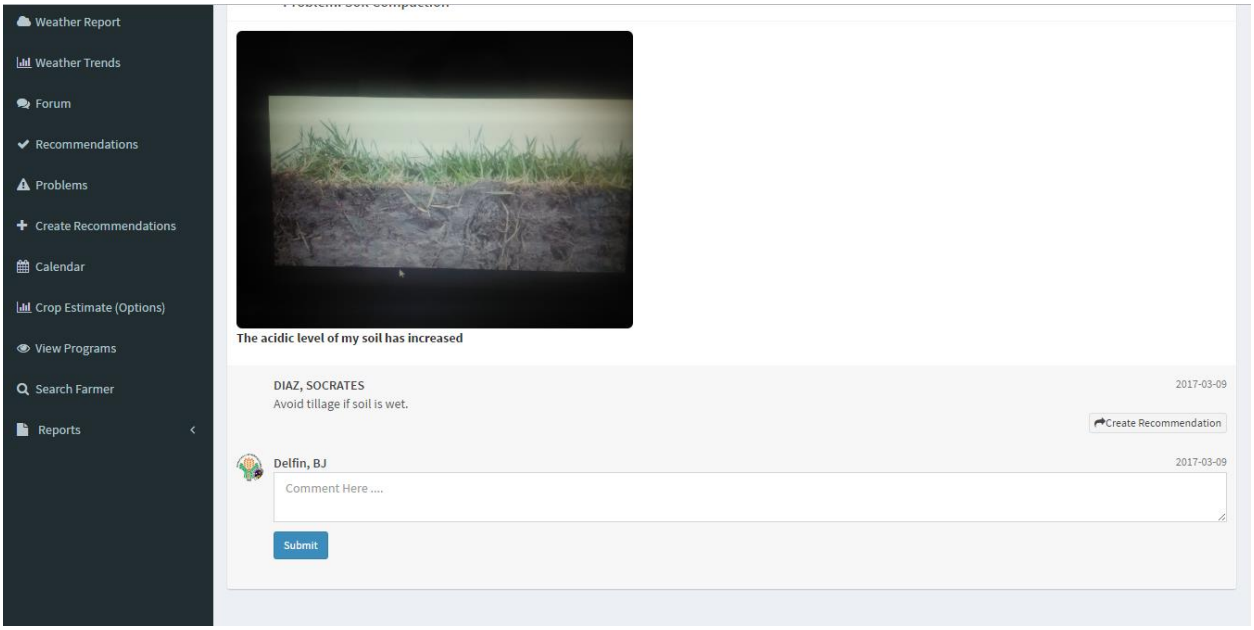


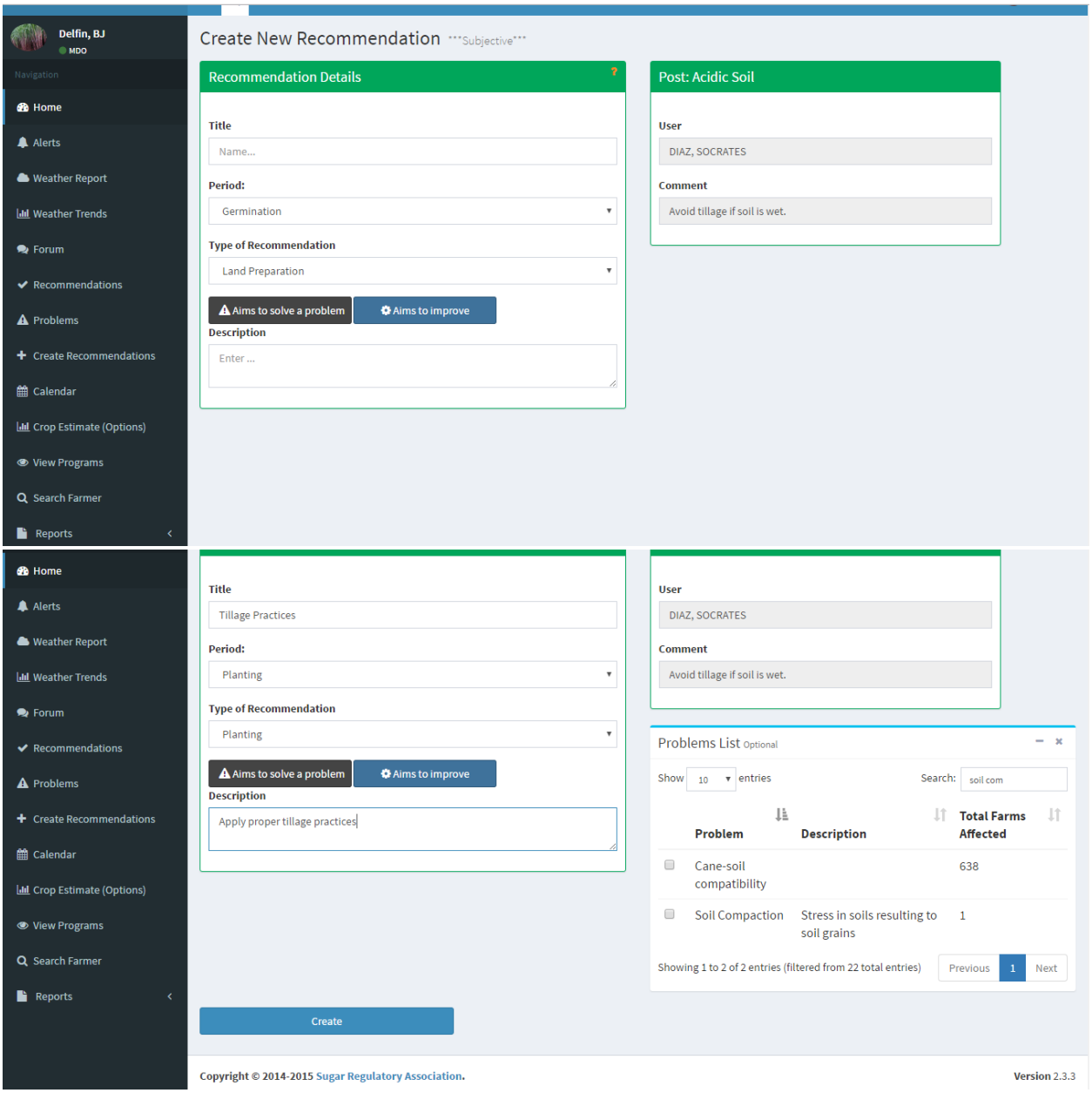
Farmer Michael receives the problem sent by the MDO through notification and accepts it.



Any farmer can write comments to post and it can be seen by both MDO and farmers alike. In this case, Farmer Socrates Diaz clicks on the post "Soil Compaction" and comments "Avoid tillage if soil is wet". The MDO can then use the comment as a basis in creating a new recommendation.



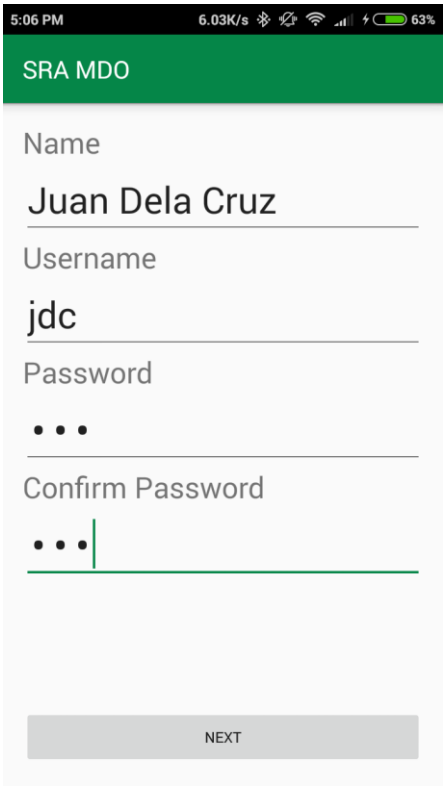
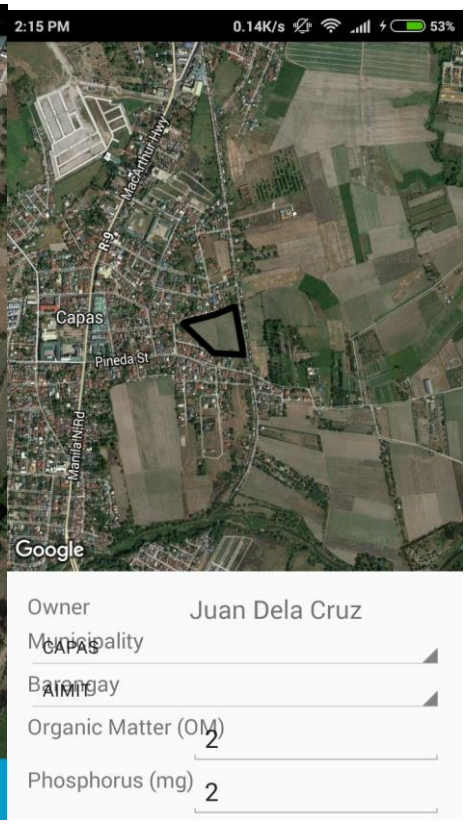




Refer to revision #7

Scenario 4: Registering a Farmer

Mill District Officer BJ Delfin registers farmer Juan Dela Cruz.



He plots the area and inputs the details.