



# Agrisoft Systems NEWSLETTER

Fifty-sixth edition, Jan.— Mar. 2026

## Message from the Management

# News from Agrisoft Systems

Dear Customers and Friends,

Over the past quarter, our main development focus has been on OMP Mill, which continues to evolve as the next major component of our product suite. As mentioned previously, OMP Mill is being developed using a modern C# / WPF architecture, in contrast to the Microsoft Access foundation of OMP Plantation. This transition brings both additional development effort and significant long-term benefits in terms of performance, flexibility, and user experience.

A considerable portion of the work so far has gone into implementing the core framework of the system. Many fundamental features—such as database setup and connectivity, application startup logic, user configuration handling, translation, data locking, user access control (UAC), and Excel-based data import—have now been completed. With these building blocks in place, development is increasingly shifting towards the implementation of data analysis forms and reporting functionality, which will form the core value of OMP Mill. We are currently working towards a first beta release around the middle of the year.

In parallel, we have also been developing a web service interface to facilitate data exchange with the OMP Field Survey app, further strengthening the integration between field data collection and central data analysis.

Development on OMP Plantation has continued

alongside this, with a focus on bug fixing and incremental improvements to existing data analysis tools. While OMP Mill represents an important step forward, maintaining and enhancing our existing systems remains a key priority.



As always, a significant part of our work has been dedicated to supporting our customers. This includes assisting new clients during the installation and onboarding phase, conducting user training sessions, and working with established users on system integrations and more advanced data analysis—often involving tailored queries to address specific operational requirements.

In this quarter's feature article, we take a closer look at the type of monthly and annual summary information that plantation operators may prepare for general management, and how such reports can be structured to support effective decision-making.

We look forward to sharing further progress on OMP Mill in the coming months.

Warm regards,

Max Kerstan



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## Feature

# OMP reporting for high level management

A well-maintained OMP Plantation database contains a large amount of data that is extremely useful for management overseeing the operations of an oil palm plantation. Despite this, in many cases managers at GM level do not have the time or inclination to extensively work directly with the OMP Plantation software themselves. In such cases, it is important that management provides the OMP operators with a clear list of information that they want to see on a regular basis. The OMP team can then compile and circulate suitable sets of reports on a regular schedule (e.g. weekly, monthly or annually). Of course, in addition to this managers can and should approach the OMP team for any additional info as needed on a one-off basis.

While the precise selection of data to include in the regular report set will of course vary according to the particular challenges of each plantation site and personal preferences, this article aims to provide a set of ideas as possible starting points for a monthly operations review. Note that this does not refer to a single report in OMP Plantation, but rather a collection of data that can be pulled together from various sources in OMP.

### Production & harvesting

- Actual, budgeted and potential yield, average bunch weight, bunches per palm. All parameters at monthly and year to date (YTD) level and grouped by spatial management unit.

Available from various OMP reports and forms, e.g. the report “Monthly dashboard” or the form “Monthly/YTD production”.

- BBC production forecast for next four months, yield projection to end of year, budget of the full year. Available from OMP BBC add-in, the report “Block agronomic summary” and the OMP Crop Budget add-in.
- Distribution of blocks with harvest cycles in different categories (e.g. < 10 days, 10 – 12 days, 12 – 14 days, > 14 days). Number of blocks with harvest round lengths exceeding acceptable bound. Available from report “Monthly dashboard”, “Monthly round lengths” or OMP HRR add-in.
- Harvester productivity (t/md and ha/md). Area by harvester worker. Available from report “Monthly dashboard” or report “Monthly productivity”.
- Crop loss audit data, e.g. percentage of fruit lost and extrapolated losses. Can be collected and analyzed using suitable survey in OMP Field Survey.
- Crop grading data, e.g. percentages of under-ripe, ripe and overripe bunches. Can be collected and analyzed using suitable survey in OMP Field Survey.
- Expected harvesting labor requirement for next months. Available from form “Monthly actuals vs. budget” in section on Resource Use if suitable harvesting jobs have been defined and crop budget has been entered.



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Production & Harvesting									
		Apr 2025	YTD 2025					YTD 2025	
			Actual	Potential	Act. - Pot.	Budget	Act. - Bud.		
<b>Production</b>									
Output	t	20,958	85,348	103,497	-18,150	90,096	-4,749	80,6	
Yield	t/ha	1.9	7.6	9.2	-1.6	8.1	-0.4		
Yield	kg/p	14	57						
ABW	kg	17.8	18.0					1	
Bunches	b/p	0.8	3.2					3	
<b>Harvesting</b>									
Productivity	t/md	0.44	0.45					1	
	ha/md	0.55	0.56					1	
Mandays	md	47,238	188,871					47,2	
	md/d	1,890	1,889					4	
# Rounds		2.4	9.3						
<b>Harvesting: Round length distribution</b>									
Round length [d]		Fraction of blocks in yield [%]							YTD 2025
		Apr 2025	YTD 2025						
Not entered		1.1	1.1						
< 7 days		0.0	0.0						
7 - 10 days		4.4	0.0						
11 - 15 days		85.0	80.0					7	
16 - 20 days		9.5	15.4					1	
21 - 25 days		0.0	0.0						

Figure 1: Section on production and harvesting on "Monthly dashboard" report.

OMP Report – Monthly and YTD production by division													DEMO
No filter active.													
Month: April 2025												Agrisoft Demo Estate	
Division	Area		SPH	Bunches		Output		Yield		Bunches		ABW	
	Total ha	In yield ha		Month b	YTD b	Month t	YTD t	Month t/ha	YTD t/ha	Month b/p	YTD b/p	Month kg	YTD kg
Estate:	12,739.2	11,190.7	134	1,179,107	4,736,463	20,958	85,348	1.9	7.6	0.8	3.2	17.8	18.0
Center D01	1,306.4	1,306.4	133	140,009	562,388	2,701	10,998	2.1	8.4	0.8	3.2	19.3	19.6
Center D02	1,688.3	1,688.3	132	165,772	658,785	3,445	13,930	2.0	8.3	0.7	3.0	20.8	21.1
Center D03	1,099.1	1,027.8	133	123,510	510,193	2,124	8,770	2.1	8.5	0.9	3.7	17.2	17.2
Center D04	1,933.8	1,929.3	130	196,815	820,111	4,395	18,314	2.3	9.5	0.8	3.3	22.3	22.3
Center D05	1,771.9	1,771.9	130	171,731	730,223	3,830	16,275	2.2	9.2	0.7	3.2	22.3	22.3
North D01	1,438.1	691.7	139	86,440	339,314	789	3,012	1.1	4.4	0.9	3.6	9.1	8.9
South D01	1,548.7	1,396.3	133	145,282	559,121	2,861	10,979	2.0	7.9	0.8	3.0	19.7	19.6
South D02	592.8	498.6	141	41,019	133,825	196	743	0.4	1.5	0.6	1.9	4.8	5.6
South D03	1,360.0	880.3	142	108,529	422,503	616	2,325	0.7	2.6	0.9	3.4	5.7	5.5

Figure 2: Report on YTD production in month.



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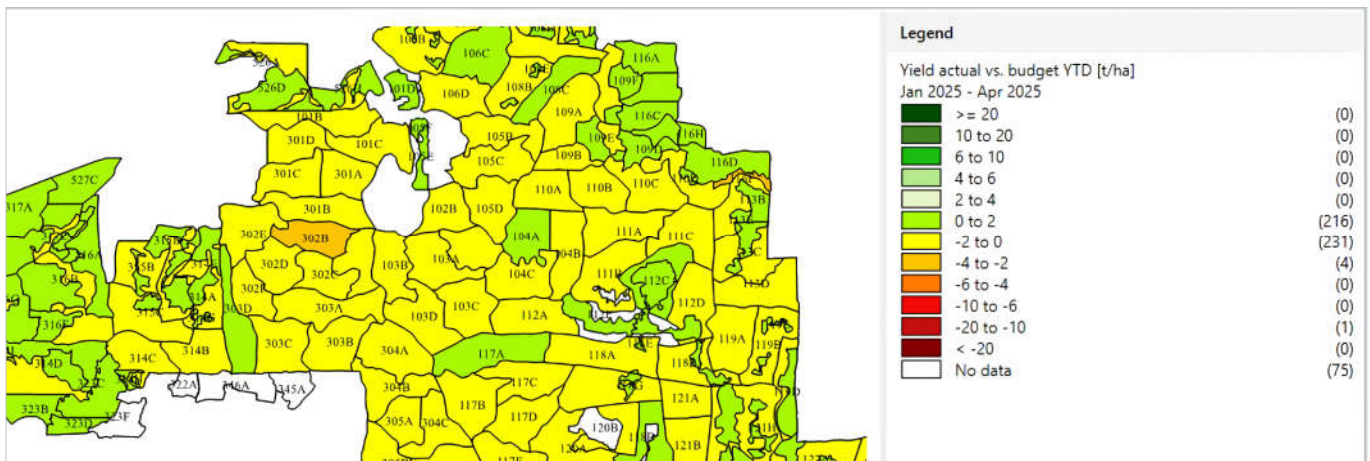


Figure 3: OMP GIS map on YTD actual vs. budget yield.

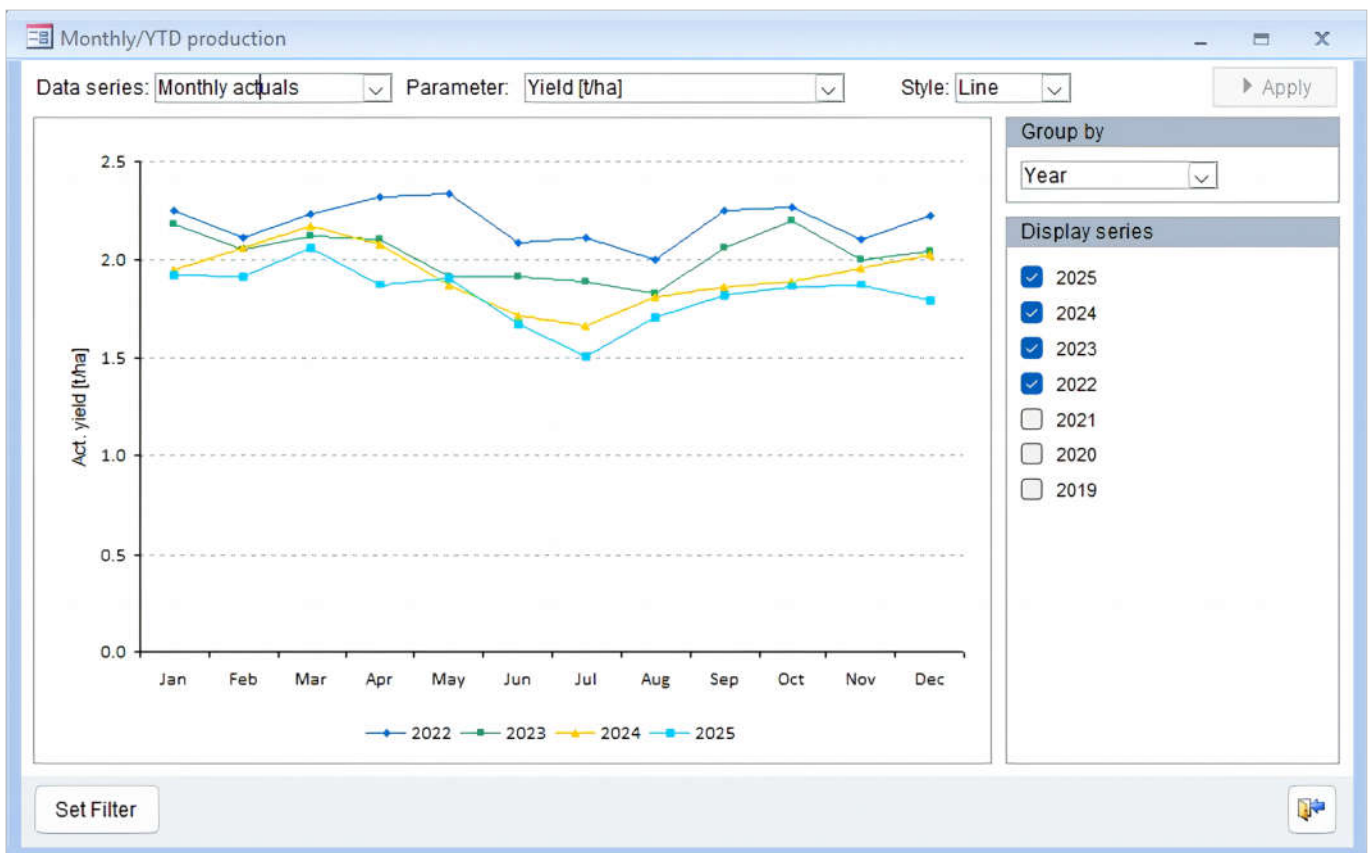


Figure 4: Chart on monthly yield in various years.



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### Field upkeep

- Progress (area done vs. schedule) for key activities like pruning, circle weeding, selective weeding or drainage maintenance. Available from the data analysis forms in the Field Work section.
- Resource use actual vs. budget by activity for key resources like labour. Available from the Resource Use section.
- Palm census data, stand per hectare vs. planting density.
- Latest survey data on field upkeep status parameters such as palm circle cleanliness, harvester access, pruning status, status of paths and roads etc. Can be collected and analyzed using suitable survey in OMP Field Survey.
- Herbicide spraying vs regular schedule, available from Pesticides section in OMP DBMS.

### Crop nutrition

- Fertilizer applied vs. recommended and progress of application, for both inorganic and organic fertilizers. Available from various reports and forms including “Monthly dashboard”, “Fertilizer monthly progress” and “Actuals vs. recommendations in month”.
- Blocks and area where leaf nutrient levels are below standard. Available from form “Nutrient deficient blocks” if critical leaf nutrient levels have been defined appropriately.
- Results of field surveys on effectiveness of fertilizer application and visual nutrient deficiency symptoms. Can be collected and analyzed using suitable survey in OMP Field Survey.
- Labour requirements for fertilizer application for coming months, available from Resource Use section if suitable job definitions have been set up.

OMP Data Print Out – Field work monthly progress							DEMO	
Group by: Division			Display: Difference in ha					
No filter active.								
Month: April 2025						Agrisoft Demo Estate		
Job category Job subcategory	Job code Job name	Division		Area				
				Month	Year			
				To date	Total			
Canopy management Pruning	CM001 Pruning	Center D01	Done ha	0.0	1,258.2	2,507.8		
			Sched. ha	0.0	1,293.9	2,587.9		
			Diff. ha	0.0	-35.8	-80.1		
Canopy management Pruning	CM001 Pruning	Center D02	Done ha	115.9	1,673.0	3,322.1		
			Sched. ha	0.0	1,688.3	3,376.7		
			Diff. ha	115.9	-15.3	-54.6		
Canopy management Pruning	CM001 Pruning	Center D03	Done ha	0.0	1,027.8	1,975.4		
			Sched. ha	0.0	1,027.8	2,055.6		
			Diff. ha	0.0	0.0	-80.2		
Canopy management Pruning	CM001 Pruning	Center D04	Done ha	21.3	1,863.4	3,839.5		
			Sched. ha	0.0	1,933.8	3,867.6		
			Diff. ha	21.3	-70.4	-28.1		
Canopy management Pruning	CM001 Pruning	Center D05	Done ha	38.9	1,771.9	3,535.4		
			Sched. ha	0.0	1,771.9	3,543.9		
			Diff. ha	38.9	0.0	-8.4		

Figure 5: Monthly progress of selected field work jobs.



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Fertilizer monthly progress

Display: Inorganic | Group by: Estate | Restrict fertilizer: Unrestricted | Diff. in %  | Apply

Month: 4 | 2025 | Subgroup by: Fertilizer name, application method | Restrict app. meth.: Unrestricted

Estate	Fertilizer	App. Method	Records			Application area [ha]			Application rate [kg/p]			
			Month	Year		Month	Year		Month	Year		
				To date	Total		To date	Total		To date	Total	
Agrisoft Demo Estate	Borate	Unspecified	Act.	12	493	609	328	11,470	14,122	0.09	0.23	0.21
			Rec.	7	488	600	180	11,322	13,796	0.00	0.05	0.02
			Diff.	5	5	9	148	148	326	0.08	0.18	0.19
Agrisoft Demo Estate	KCL	Man	Act.	444	968	1,636	10,412	22,753	38,415	1.29	1.08	1.12
			Rec.	0	0	0	0	0	0	0.00	0.00	0.00
			Diff.	444	968	1,636	10,412	22,753	38,415	1.29	1.08	1.12
Agrisoft Demo Estate	KCL	Unspecified	Act.	81	297	499	1,807	6,580	11,064	1.04	0.90	0.96
			Rec.	444	941	1,578	10,412	21,911	36,628	1.05	0.49	0.28
			Diff.	-363	-644	-1,079	-8,605	-15,331	-25,564	-0.01	0.41	0.68
Agrisoft Demo Estate	KCL-LCP	Unspecified	Act.	0	1	1	0	17	17	0.00	0.41	0.41
			Rec.	0	0	0	0	0	0	0.00	0.00	0.00
			Diff.	0	1	1	0	17	17	0.00	0.41	0.41
Agrisoft Demo Estate	Kieserite	Man	Act.	0	1	1	0	28	28	0.00	0.96	0.96
			Rec.	0	1	1	0	28	28	0.00	0.25	0.08
			Diff.	0	0	0	0	0	0	0.00	0.71	0.88
Total			Act.	569	2,544	5,837	13,300	59,033	135,693	3.86	14.82	16.50
			Rec.	492	2,156	5,196	11,603	50,070	120,284	1.75	2.25	1.74
			Diff.	77	388	641	1,697	8,963	15,410	2.11	12.57	14.76

Figure 6: Fertilizer application progress form.

### Pests and diseases

- Results of pest patrol surveys for most important pests. Lists of blocks where acceptable thresholds have been exceeded and corrective action is required. Can be collected and analyzed using suitable survey in OMP Field Survey.
- Evolution of pest outbreak severity status and control measures by pest or pest event. Avail-

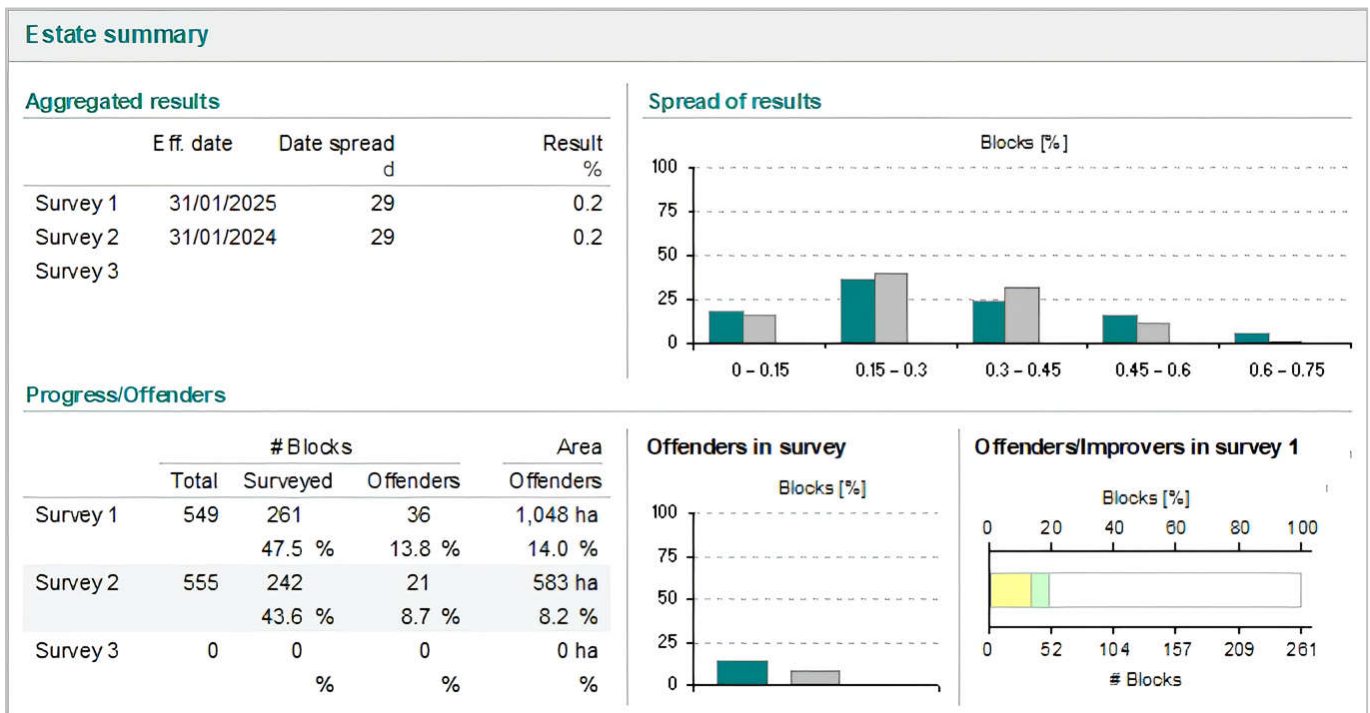


Figure 7: Excerpt of OMP FS report on survey results and offenders.



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able from various forms and reports in the Pests & Diseases section or via OMP GIS maps.

### Weather

- Actual rainfall, water deficit and raindays of latest month and year to date. Available e.g. on “Monthly dashboard” report.
- Expected rainfall in next months, from historical rainfall data in Weather & Climate section.

### Replanting and new planting

- Blocks recently replanted and blocks due for replanting in next months, under section “Planting information”.
- Distribution of palm ages, over-age areas. Available from “Monthly dashboard” or “Area statement” reports.

- Time to first harvest for recently planted or replanted blocks, from form “Block base data”.
- Yield parameters such as t/ha, b/p, kg/b in first 12 months of production for recently planted or replanted areas. Available e.g. from the form “Monthly/YTD production” using suitable grouping and filtering settings.

As mentioned in the beginning, this is not intended as a comprehensive list of available data, nor do we mean to say that you should necessarily be looking at all of these things. Instead, it is simply meant as food for thought for plantation managers on the kinds of things they can ask their OMP team to provide.





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## From the developers desk

A selection of the on-going developments and plans which are part of our constant efforts to continue to improve Agrisoft products.

### Oil Extraction Module

- New module focusing on oil yields, oil extraction rates and milling losses
- Standalone WPF application independent of Microsoft Access
- Overall OER monitoring by comparing oil output to FFB harvest
- Recording of mill loss rates at different stages of the milling process via direct measurement of losses
- Control charts and monitoring tools for mill losses
- Bunch analysis results for individual sample bunches for OER benchmark
- Bunch grading (e.g. ripe, underripe, overripe bunches) at mill ramp or in the field
- Correlation of different results with each other and where possible with other field/block parameters e.g. palm age, planting material, seasonality

### General Improvements

- Separate tables for daily harvesting and production data
- Additional fields for BMP status and irrigation status
- Further grouping and display options on Monthly/YTD production reports
- Daily recording of fertilizer and pesticide application
- Execute passthrough queries in OMP QW
- Function to load queries from other OMP QW data file
- Improved data analysis for resource use rates
- Show definition of soil deficiency scores on block agronomic summary report
- New reports for leaf nutrients versus critical and optimal leaf nutrient levels
- Data analysis form for upcoming scheduled replanting areas

### Web service for FS app data transfer

- Alternative web-based method for transferring FS definitions and results between app and OMP database
- Standalone web service application to run on server with public IP next to OMP database
- App function to request new FS definitions from web service
- Reduce unnecessary data transfer, with possibility to resume download in case of interruption
- Function to push new app results to the OMP database via the web service
- User authentication to permit posting of results only for authorized surveyors
- Data recalculation markers to facilitate re-aggregation of FS data after new results are uploaded