

ASCHL

MANAGEMENT SYSTEMS

Information Technology for a Better Environment

Compost Plant Management and Reporting System

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About Aschl Management Systems

- **30+ Years IT Consulting Practice Analyzing Software, Selecting Systems for Large Businesses**
- **Strong Involvement with Compost Facilities in the US and Canada for Many Years**
- **Developed Software Specially Tailored to US Composting Requirements, Compliance and PFRP Regulations**
- **Some of Our Users in the US & Canada Have Worked with our System Close to 15 Years**

Goals of Systems for Composting

- **Economical Efficiency**
- **Monetary Savings**
- **Successful Composting Operation**
- **Produce High Quality Compost with High Fertilizer Value for Plants and Soils**
- **Wide Range of Functions, the Most Important we'll See in Detail**

How Will a Professional System Help

- **All Data in One Integrated System, no more 100's of Spreadsheets**
- **Quick, Complete Information of Everything in a Facility, Feedstocks, Batches, Finished Product**
- **Fast and Simple Data Collection with Newest App Technology, Save Paperwork and Unnecessary Clerical Time**
- **Easily Analyze Labor & Machine Hours, Material Costs, Productivity, Control Expenditures**
- **Business Management, Inventory Control**

How Our System Works

- **Simple Operation on Tablets, Anywhere Out in the Field, or on Office PC**
- **Peace of Mind, Everything in Control, Quick Overview, Full Facility Supervision**
- **Management Information Any Time**
- **Data in the Cloud, or on Central Server, or Local on Tablet or PC**
- **We Support & Implement World-wide, Online**
- **60 Day Pilot Available, with No License Fee**

Key Function Groups

- Simple, Easy Data Collection via App on Tablets/Cell

→ GO TO TABLET

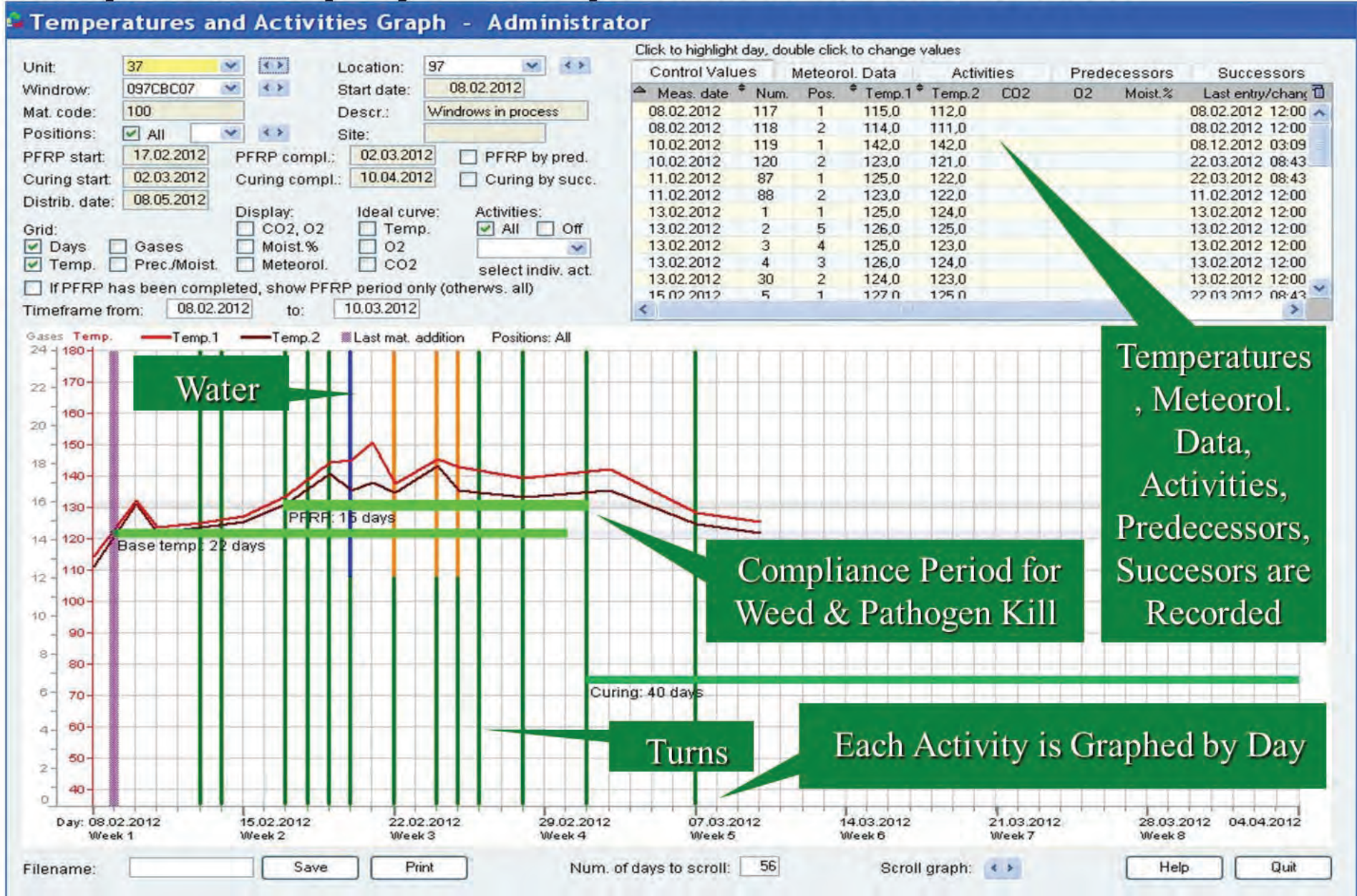
- Easy Compliance & Proof of Regulations: Temps, Turns, Hygienization, Lab Analysis, PFRP
- Traceability, Document All Material Flows
- Operations Management: Manufacturing, Recipes, Quality Assurance, CRM
- Cost Analysis, Expenditure Control
- Quick Info & Reports, No More Spreadsheets

Compliance, Regulations

Easily Document:

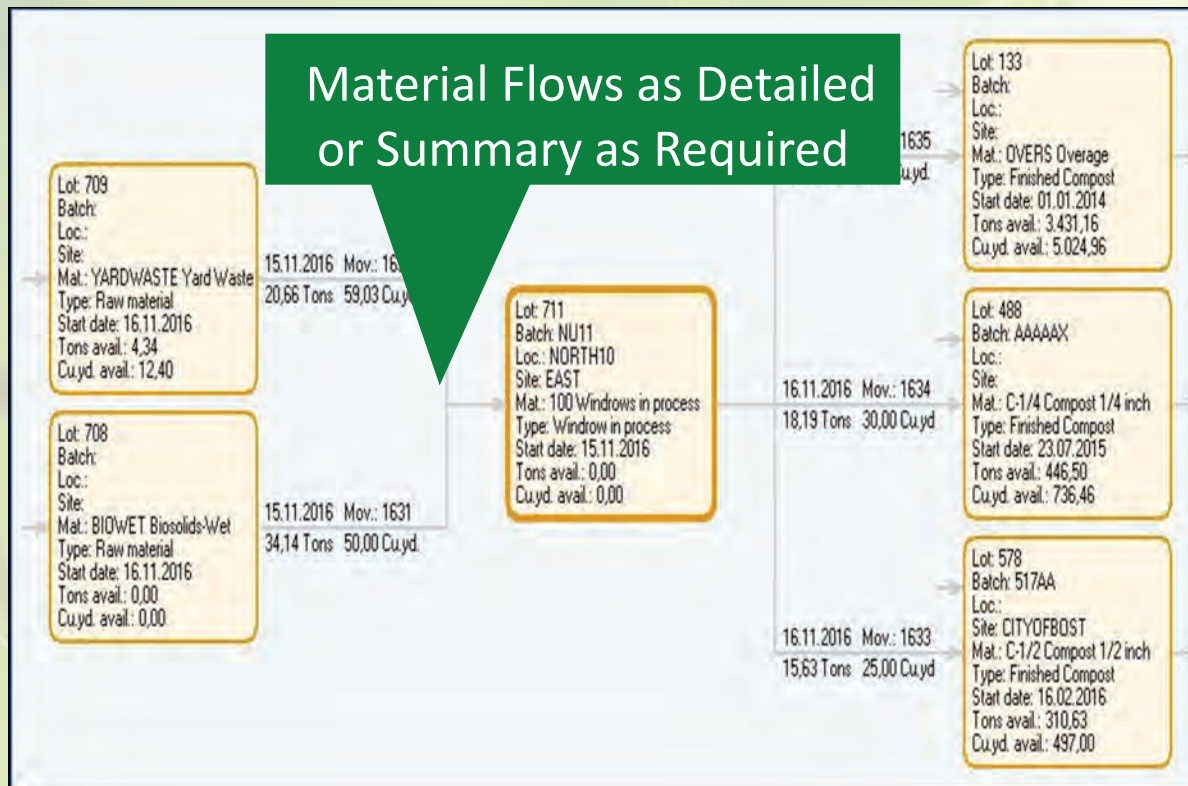
- Temperatures, CO2 etc., Meteorol. Data
- Turns, Watering, All Other Activities
- Each Activity Graphed by Day
- Configured According Local Regulations
 - Australia AS4454
 - US PFRP, UK PAS100, etc.

Graphical Display of Temperatures and Activities



Traceability, Material Flow

- Feedstocks, Processing Batches, Finished Product
- All Steps from Supplier Through to Customer
- Back All the Way from End User to Input Materials



Operations Management

- Feedstocks Receiving, Screening, Grinding
- Production Management
- Blending, Lab Analysis, Quality Assurance
- Inventory, Dispatch, Shipping
- Marketing & Sales, CRM

Inbound Feedstocks Receiving

From any Source:

- Automated Scale/Weighbridge Connect
- Tablet/Cell Data Collection, Automatic Upload
- Manual Entry

Receipt:	611	Descr:	Straw
Material code:	STRAW	Descr:	Straw
Material group:	STRAW	Descr:	
Waste code:		Descr:	
Rec. date/time:	28/02/2019	Bill of lading:	
Scale ticket:		C/N-Ratio:	48.00
N % dry weight:	1.00	Density Kg/m ³ :	650.00
Moisture %:	12.00		
Use for proc. batches:	<input checked="" type="checkbox"/> allow use of this material for batches.		

Processing, Batches, Recipes

- Optimal Material Mix, Recipes
- Combine Processing Batches
- Blend Compost with Soils, Additives

Available materials:

Mat. code	Description	Lot	Location	N %	C/N	Moist. %	Avail. tons	Avail. m ³
GRASS	Grass clippings	49		1.50	30.00	60.00	15.000	12.500
PREMIUMPR	Premium	44	AGRICOMPC	0.10	19.00	55.00	207.061	173.470
MANURBROIL	Manure B				0.00	72.00	-15.000	-25.000
GROUNDMAT	Ground m				0.00	55.00	14.999	9.000
GREENWASTE	Green Waste				0.00	55.00	50.000	70.000

Combination of materials:

Mat. code	Description	Lot	Batch	Location	Rec.	N %	C/N	Moist. %
GREENWASTE	Green Waste	34	GREENPILE			1.50	30.00	55.00
MANURBROIL	Manure	39				2.70	16.00	72.00
FOODWASTE	Food Waste	2	SSSS	FOOD DROF		2.90	19.70	75.00

C/N: 27.20 (Target: 30) **Moist: 58.35 %** (Target: 60 %) N: 1.66 %

Tot. tons rec.: 61.85 avl. calc.: 61.85 excl. addit. calc.: 61.85 Calc. num. batches by

Prepare Optimal Batches,
Plan Materials Required

Recipes for Batches, Soil Blends

Recipe code: WI190

Det. pos.	Material code	Description	Mat. type	N %	C/N	Moist. %	Qty. tons	Qty. cu.yd.
1	GREENWASTE	Green Waste	1	1.5	30,00	60,00	100,000	235,290
2	MANURDAIRY	Manure Dairy	1	3.7	15,00	83,00	50,000	71,430
3	FOODWASTE	Food Waste	1	3.5	19,70	82,00	25,000	43,070
4	ALFALFA	Alfalfa	1	15	18,00	80,00	33,000	55,000

Combine Feedstocks to Batches
or Finished Compost & Soils etc.
into Customer Blends

Laboratory Analysis

- Feedstocks, Batches, Finished Product
- Bring in Any Format Received from Labs
- Self-Define Characteristics as Needed

Analysis num.:

Analysis code:

Analysis date:

Lot:

Batch: Start date:

Characteristics									
#	Charact. Code	Description	Yes/No	Result descr.	Result dry wt.	Result gross wt.			
AS	As - Arsenic				1.00	0.00			
CR	Cr - Chromium				0.00	2.00			
NO3	NO3		N		0.00	0.00			
ORG N	Organic N				0.00	4.00			

Lab Analysis User-Defined
or as Provided by Lab

Cost Analysis

- **Equipment Hours, Labor Hours**
- **Feedstock Drop Fee vs Paid For**
- **Summarize by Batch, by Site**
- **Shrinkage, Yield Analysis**
- **Summarize by Material, Supplier**
- **Summarize by Person**

Cost and Profitability

Batches / Lots and Costs						Presentation 26.02.2020 08:39 AM Page 1/1	
Lot:	12	Batch:	BB10	Start date:	20.02.2020	Compl. date:	
Materials							
Mov. date	Material code	Description		Qty. tons	Price/ton	Mat. cost	
26.02.2020	GRAPEPOM	Grape Pomace		60,00	-15,00	900,00	
26.02.2020	GREASETRAP	Greastrap		50,00	15,00	-750,00	
26.02.2020	GREENWASTE	Green Waste		25,00	5,00	-125,00	
Total material				135,00		25,00	
Equipment							
Act. date	Machine code	Description	Activity	Site	Hours	Cost/hour	Equ. cost
01.02.2020	KOMPT	Komptech 6 m wide tur	Tuning		3,00	25,00	75,00
14.02.2020	KOMPT	Komptech 6 m wide tur	Tuning		3,00	25,00	75,00
16.02.2020	KOMPT	Komptech 6 m wide tur	Tuning		3,00	25,00	75,00
Total equipment					9,00		225,00
Personnel							
Act. date	Personnel code	Name	Activity	Site	Hours	Cost/hour	Pers. cost
01.02.2020	HORTON	Horton	Tuning		3,00	25,00	75,00
14.02.2020	EVELYN	Gardner	Tuning		3,00	14,00	42,00
16.02.2020	GARY	Larson	Tuning		3,00	19,00	57,00
Total personnel					9,00		174,00
Total per lot					153,00		424,00
Tons feedstock:		135,00	Cost/ton feedstock:	3,14			
Tons finished:		0,00	Cost/ton finished:	0,00			

Feedstock Drop Fees / Costs

Equipment Hours & Costs

Personnel Hours & Costs

Totals per Ton/Yd./M3

Yield Analysis

Finished Batches / Lots: Yield

Presentation
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Lot:	12	Batch:	BB10	Loc.:	16	Start date:	26.01.2020	Site:	
Activity	Material			Lot	Site	Mat. tons	Mat. m³	Mov. date	
Addit.	GREENWASTE	Green Waste		0		25,00	29,41	26.02.2020	
Addit.	GREASETRAP	Greastrap				50,00	50,00	26.02.2020	
Addit.	GRAPEPOM	Grape Pomace				60,00	37,50	26.02.2020	
Total start:						135,00	116,91		
Distrib.	C-1/2	Compost 1/2 inch		13		46,19	40,00	26.02.2020	
Distrib.	C-1/4	Compost 1/4 inch		14		34,64	30,00	26.02.2020	
Total fin.:						80,83	70,00		
Yield % of Start:						59,87 %	59,87 %		
Loss % of Start:						40,13 %	40,13 %		

Feedstocks

Finished Product

Yield/Shrinkage

Inventory in Summary or Detail

To show details double click on individual lines.

Mat. cod.	Mat. description			Tons avail.	Cu.yd. avail.
BAGGED	Bagged	7		125,00	250,00
BIODRY	Biosolids-Dry	1	BIOSOLIDS	22 613,24	33 086,43
BIOWET	Biosolids-Wet	1	BIOSOLIDS	170 967,79	322 484,85
C-1/2	Compost 1/2 inch	7	COMPOST	39 457,04	71 721,94
C-1/4	Compost 1/4 inch	7	COMPOST	5 062,31	5 991,06
C-1/4-UNC	Compost 1/4 inch uncured	7	COMPOSTUNC	1 085,57	639,06
C-MUSHROOM	Mushroom Compost	7	COMPOST	318,46	542,76
COMBINED	Combined Compost	7		400,00	1 160,00
COMPPTS1	Compost Phs. 1	7		35,00	58,33
COMPTEA	Compost Tea	2		10 000,07	10 000,06

Total in Stock by Ton/Yd./m3

Lot	Batch	Start date	Mat. cod.	Mat. description	Type	Mat. group	Tons avail.	Cu.yd. avail.	Bale
1005	K1	25.10.2018	C-1/2	Compost 1/2 inch	7	COMPOST	5 031,16	8 049,86	
986		01.10.2018	C-1/2	Compost 1/2 inch	7	COMPOST	90,00	72,00	
847	FINPILE19	28.07.2017	C-1/2			ST	2 016,97	2 935,84	
845	FINPILE17	27.07.2017	C-1/2			ST	6 142,32	17 166,48	
815	FIN1701	19.06.2017	C-1/2			ST	275,00	440,00	
809	A01-13	05.05.2017	C-1/2	Compost 1/2 inch	7	COMPOST	6 572,25	10 515,60	
453	SCREEN30	09.06.2015	C-1/2	Compost 1/2 inch	7	COMPOST	9 726,00	15 556,34	
265		05.08.2014	J8 C-1/2	Compost 1/2 inch	7	COMPOST	1 938,91	3 752,73	
174	A-1	20.10.2014	C-1/2	Compost 1/2 inch	7	COMPOST	2 511,21	4 521,23	
156	4305	19.08.2014	C-1/2	Compost 1/2 inch	7	COMPOST	3 633,33	4 336,02	
132		01.01.2014	C-1/2	Compost 1/2 inch	7	COMPOST	1 262,60	3 460,66	
91	FIN-C-1/2	19.11.2014	C-1/2	Compost 1/2 inch	7	COMPOST	80,00	117,18	
38	3A	14.02.2014	C-1/2	Compost 1/2 inch	7	COMPOST	15,75	25,20	

Drill-down

Suppliers and Customers Summary Info

Company code:
Company name:

Quantity received tons: Quantity received cu.yd.:

Last quantity received date:

Open order tons: Open order cu.yd.:

Open reseration tons: Open reservation cu.yd.:

Open quote tons: Open quote cu.yd.:

Last ord/res/quote date:

Ship tons: Ship cu.yd.:

Last ship date:

Forecast Production vs Cust. Orders

Production Forecast, by Week

Test System
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Print range:

Begin date: 24.02.2020
Site from: FIRST to: LAST

Show orders:
Show reservations:

Red fields indicate production shortage.

Description	Ready date	C-1/2 Prod.	C-1/2 Ord.	Tot. Prod.	Tot. Ord.
Tons ready begin dat.	24.02.2020	0			0
Tons ready 1 week	02.03.2020	27			0
Tons ready 2 wks	09.03.2020	0			0
Tons ready 3 wks	16.03.2020	0		0	350
Tons ready 4 wks	23.03.2020	17		17	0
Tons ready 5 wks	30.03.2020	98		98	0
Tons ready 6 wks	06.04.2020	51		51	0
Tons ready 7 wks	13.04.2020	0	450	0	450
Tons ready 8 wks	20.04.2020	216		216	0
Tons ready 9 wks	27.04.2020	840		840	0
Total tons		1 249	800	1 249	800

Compare Production vs
Orders to be Filled

For More Information:

Contact us for Individual Presentations

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Thank you for watching

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