

## BinTrac Version 2.00 Release Notes

Our latest version of BinTrac will soon be going live on our website. This document will provide a brief description of what has changed and the exciting new features it will provide. Everyone is invited to preview our new version at <http://next.bintrac.com>.

Version 2.00 has been in production testing for the past month. It is now time for each of you to visit our preview site and determine if your PC and browser have any problems accessing and viewing our new version. It is a live production site and if you like, you may continue to use this site for your production work until we move the site over and replace our current version on bintrac.com. NOTE: If you do have problems or the program fails while using it, use Cntrl-PrScn to capture a copy of the failure message and Paste it into an email that you send me immediately; [tom@herdstar.com](mailto:tom@herdstar.com)

### New Features in BinTrac v2.00

Below is a brief outline of new features including a few screen shots of the live site. Following this document, I will be producing a PowerPoint Overview of the new features and additional 'How To' instructions. Within about two weeks pending any major issues, this site will go live replacing the current BinTrac.com website. So please take a look now to make sure it all works for you prior to our production rollout.

### New Event Tracking and Alert Notifications

The screenshot displays the BinTrac v2.00 web interface. At the top, the logo 'BINTRAC by HerdStar' is visible. The navigation menu includes 'HOME', 'ADMIN', 'ORDER DESK', 'ORDERS', 'EVENTS', 'REPORTS', and 'HELP'. The user is logged in as 'nextgen' at 'Next Generation Pork' on 'April 2, 2009 3:50 PM'. A 'LOG OUT' button is present. The main content area shows 'Events(7)' and a sidebar with 'Event Options' including 'Manage' (User Information, Event Notifications, Event Types) and 'Reports' (Event log by Event, Event log by Site & Event, Feed Usage Events, Other Events TBD). The central table, titled 'Manage Event Types (ALL)', lists 13 event types with columns for 'Event', 'Description', 'On/Off', and 'Active?'.

	Event	Description	On/Off	Active?
1	BINTRACMSG	A Bintrac Broadcast Message from Herdstar	off	INACTIVE
2	COMMOUT	Bin has not reported in over 24 hours	off	INACTIVE
3	COMMOUT12	Bin has not reported in 12 hours	off	INACTIVE
4	DEVICEADD	New Device added to ebarnsettings table	off	ACTIVE
5	DEVICECHG	Field Device Settings Changed	on	ACTIVE
6	DEVICDEL	Device was deleted from ebarn settings table	off	ACTIVE
7	FEEDORDER	Feed Order created on Site Bins (email Copy requ...	off	INACTIVE
8	FILLERROR	Fill Amount is significantly more or less than Order...	off	INACTIVE
9	FILLEVENT	BinTrac has detected a Bin Fill Event	on	ACTIVE
10	FOPASTDUE	Feed Order Hours Past Due	off	INACTIVE
11	HIGH_USAGE	Abnormally High Usage compared to Average Usa...	off	INACTIVE
12	LOW_USAGE	Current Usage significantly less than Average Usa...	off	INACTIVE
13	ZERO_USAGE	No Usage on Bin/Tandem Bin has been detected	on	ACTIVE

Now BinTrac can monitor your feed system and can begin using its own intelligence to spot abnormal feed flow conditions or normal operational events such as a Fill Event. A totally new EVENTS tab has been added replacing the ALERTS tab that allows you to set up your login account to monitor different Events with BinTrac. After updating your Email, Text Message and Phone numbers, you can then turn on Event Monitoring by setting a level of importance (*Severity*) you want to be notified on and how you wish to be notified (*Method*) when each Event Level is triggered. [Additional Events will be added to BinTrac throughout the summer as requested or suggested by our users.](#)

## Event Notification Severity Levels

When selecting each Event to monitor, many such Events will have up to 3 levels of Severity. Level 1 Severity (highlighted in Blue as **INFO**) are considered information only. **FILLEVENTS** are considered Level 1 INFO Events and are for those who wish immediate notification when a Bin has been filled (need to reset augers after a fill?). Level 2 Severity (highlighted in Yellow as **CAUTION**) are considered important but not serious. **DEVICECHG** Events are considered level 2 and inform users when a Bin has been re-zeroed in the field or changed in some other manner at the bin site. Level 3 Severity (highlighted in Red as **WARNING**) are considered serious issues needing immediate attention. Put this all together as in **ZERO\_USAGE** Events and BinTrac will notify users when a bin's usage has been zero for over 6 hours as **INFO**, then again when the bin usage has been zero for over 12 hours as **CAUTION** and lastly again when the bin usage has been zero for more than 18 hours as a **WARNING**.

Using this as a guide you can then set each Event Notification Method to the Level you wish to have that method notify you on that Event. Zero (0) turns off that notification method.

The screenshot shows the BinTrac by HerdStar interface. At the top, it says "LOGGED IN AS tom" with the user's name "tom", site "Next Generation Pork", and date/time "April 2, 2009 3:43 PM". There is a "LOG OUT" button. The navigation menu includes HOME, ORDER DESK, ORDERS, EVENTS, REPORTS, and HELP. A yellow box indicates "Events(10)".

The "User Information" section displays the following details for Tom Baarsch, SiteManager:

- Name: Tom Baarsch
- Role: SiteManager
- Address: 15903 Vernon Ave
- City/St/Zip: Omaha, NE 68116
- Event/Primary Phone: 402-547-0762
- Feed Order Phone: 402-547-0762
- Fax: 402-884-4704
- Email: tom@herdstar.com
- Text Message: 4025470762@vtext.com
- Login/Password: Tom / ????
- Last Alert ID: Web:(8080) Email:(8237) Text:(2162)

There is an "UPDATE" button below the user information.

The "Set Event Notification Thresholds" section has a yellow header and a note: "Click on Threshold Values to Change, then press SAVE Button below (0= Off, 1= INFO, 2= CAUTION, 3= WARNINGS)". Below this is a table:

	Event	Description	Web	Text	Email	Report	
1	DEVICECHG	Field Device Settings Changed	2	0	2	0	Levels: 2 Only
2	FILLEVENT	BinTrac has detected a Bin Fill Event	0	0	0	1	Levels: 1 Only
3	ZERO_USAGE	No Usage on Bin/Tandem Bin has been detected	1	0	3	1	Levels: 1=6+ hours, 2=

**Web Notifications** allow triggered Events to alert you as you log into BinTrac on Events that have occurred since you last logged in and as they occur while you are working in BinTrac. It is probably the easiest and fastest notification method, if you are working on the BinTrac website. (as seen in the above picture).

**Email Notifications** allow triggered Events to alert you via your email account. Each Event triggers a separate email message containing EVENT, Site, Bin and a brief message detailing the event. This works well for people that monitor email and don't regularly work on the website. *NOTE: I have set myself to see all USAGE Events while I am logged into*

*BinTrac as the Web notification is set to 1, but I am emailed the same alert only when it becomes an 18+ hour (Level 3) WARNING.*

**Text Message Notifications** allow triggered Events to alert you via a text message sent to your phone. Each Event triggers a separate text message containing EVENT, Site, Bin and very brief message detailing the event. This may be a handy feature for Site Managers and others that don't monitor email or the website on a regular basis. It is also great for Managers and users to monitor serious Events over weekends where they too may not be looking at the website or email.

**Report Notifications** is our final option and has not yet been implemented, but is intended to summarize all events notifications that you have chosen to monitor in a daily report which will be available on the website as well as an automatically generated daily report that is placed in your email box each morning. Suggestions are welcomed. ***This will be developed after rollout of BinTrac v2.00.***

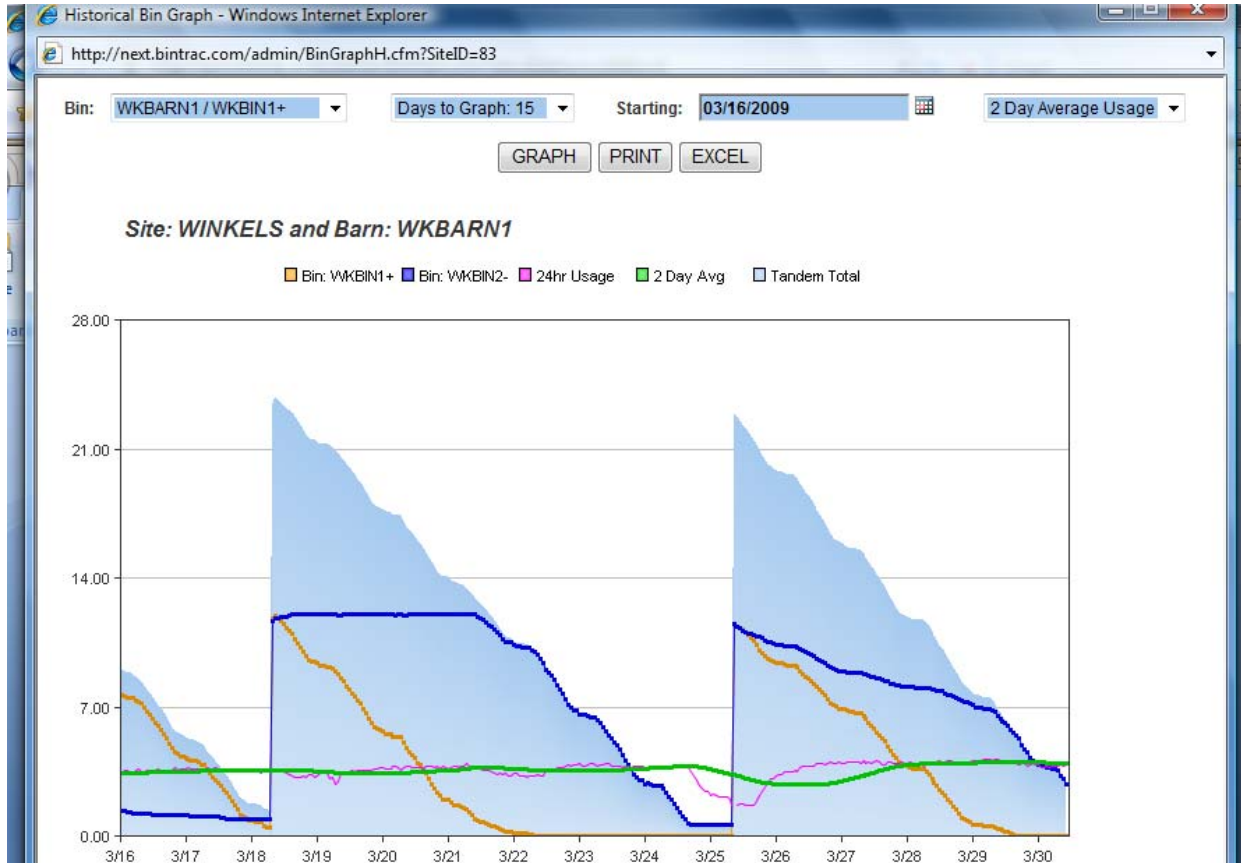
*NOTE: Events and Notificatons initially are not set up for any users, most users need to provide email and text message addresses before anything more than Web Notifications can be activated.*

## **Event Tracking Reports**

Under the EVENTS tab, several Event Tracking listings can be accessed to summarize existing Events, group by Event Type or Site and then link to the actual event log and history. Event Tracking has been running since Christmas during the development and testing phase, so you may see many Events already logged for each of your Sites. Take a look!

## New Historical Graphing

This I think you are going to like! We have reworked the existing 15 day (THIS BIN) graph found on the Bin Detail page. We have renamed it **Historical** now, reworked the display and added many exciting options to what and how you want to view single and tandem bins. Here is an example of the new graph which is explained further below. *We now offer access to the **Historical Graphs** Button on the HOME page, Bin Detail page and within the ORDER DESK page when clicking on a bin name in the Order Information grid.*



### All-in-One look at Tandem Bins

Now, in the background, the tandem total can be seen with each individual bin in the foreground showing the actual feed levels and the overall Feed Usage. NOTE: how easy a Feed-Out Event is spotted and its impact on Usage.

### New 2 Day Average Usage (green)

A new 2 Day Moving Average has been added to provide a stable baseline to measure your Usage. This line averages the Daily Usage Line it overlays over a 2 day period.

### All New Daily Usage (purple)

We have rewritten our Usage formulas to be much more accurate and reliable. This line lies behind the 2 Day Average providing an instant view of how stable/reliable your Daily Usage is and to quickly see events that have impacted the short term feed delivery/consumption to the barn compared to your baseline average.

### All New Graphing Options

At the top of the Historical Graph pictured above, you may have noticed more graphing options.

*Bin Selection has been added providing a drop down list of Sites, Barns and Bins to choose from without leaving the graphing window. Now you can quickly select and graph multiple Bins/Tandem Bins for analysis.*

*Days to Graph has been added* allowing you to graph from 15 days to 105 days of data in 15 day increments. Set this to see longer periods of time on the graph.

*Starting Date Calendar has not changed from the previous version.* It allows you to select any point in history to start graphing 15 to 105 days of bin activity.

*Average Usage defaults to 2 Day*, but can be changed to from 1 to 7 days of Averaged Daily Usage. This allows you to flatten out your Average Usage over a longer or shorter period to see the impact on this Average Usage computation. BinTrac will be using Average Usage in the future when estimating Bin Usage and Empty Dates.

*New PRINT and EXCEL options* have been added so you can now save your graph to a PDF report or, even more exciting, you can now download the displayed raw data into Excel and analyze it any way you wish on your own! **Compliments to Mike Brumm for requesting this!**

**OK? I see the Feed-Out Event, but did BinTrac catch it? What do you think?**

The screenshot shows the BinTrac by HerdStar web interface. The user is logged in as 'nextgen' (Next Generation Pork) on April 2, 2009 at 4:07 PM. The navigation menu includes HOME, ADMIN, ORDER DESK, ORDERS, EVENTS, REPORTS, and HELP. The 'Events(7)' tab is selected. There are 'BACK' and 'GRAPH BINS' buttons. The main heading is 'Event List By Event (ZERO\_USAGE)' with a sub-heading 'Last 200 Events listed from newest to oldest'. The table below lists events with columns for Logid, Code, Logged, Site, Barn, Bin, Acknowledged, and By. A red box highlights the event with Logid 97, Code INFO, Logged 03/25 (Wed) AM, Site SBRANCH1, Barn SB-BLD1, Bin SB-30E, Acknowledged 03/25 (Wed) AM, and By Cathy Thomson.

	Logid	Code	Logged	Site	Barn	Bin	Acknowledged	By	
95	7343	INFO	03/25 (Wed) AM	PASSFIN	PBARN4	P4A	03/25 (Wed) AM	Cathy Thomson	6+ hrs. Low l
96	7342	INFO	03/25 (Wed) AM	PASSFIN	PBARN1	P1A	03/25 (Wed) AM	Cathy Thomson	6+ hrs. Low l
97	7341	INFO	03/25 (Wed) AM	SBRANCH1	SB-BLD1	SB-30E	03/25 (Wed) AM	Cathy Thomson	8+ hrs. Low l
98	7338	CAUTION	03/25 (Wed) AM	WINKELS	WKBARN1	WKBIN1+	03/25 (Wed) AM	Cathy Thomson	12+ hrs. Low l
99	7336	INFO	03/24 (Tue) PM	WINKELS	WKBARN1	WKBIN1+	03/25 (Wed) AM	Cathy Thomson	6+ hrs. Low l
100	7334	CAUTION	03/24 (Tue) PM	FASBEND	FASBND4	FASBN4A	03/25 (Wed) AM	Cathy Thomson	12+ hrs. Low l
101	7333	CAUTION	03/24 (Tue) PM	FASBEND	FASBND3	FASBN3A	03/25 (Wed) AM	Cathy Thomson	12+ hrs. Low l
102	7331	INFO	03/24 (Tue) PM	KOENIGS	KOENIG1	KOEBIN1	03/25 (Wed) AM	Cathy Thomson	6+ hrs. Low l
103	7313	INFO	03/24 (Tue) PM	FASBEND	FASBND4	FASBN4A	03/25 (Wed) AM	Cathy Thomson	6+ hrs. Low l
104	7312	INFO	03/24 (Tue) PM	FASBEND	FASBND3	FASBN3A	03/25 (Wed) AM	Cathy Thomson	6+ hrs. Low l
105	7247	INFO	03/24 (Tue) AM	WILSON	WBRN103	WILBIN4	03/24 (Tue) AM	Cathy Thomson	6+ hrs. Low l

### New and faster 5 Day Graph Site Bins

This has not changed much in format, however, it opens to a faster window and we have added a PRINT option to these graphs as well.

### New Site Notes

Added to most pages is a Site Notes button providing a simple Post-It-Note like feature where anyone can create or edit general notes to a site and everyone accessing that site on BinTrac can immediately see if a note is posted and how important (color) it has been classified by the last user that edited the note. See Below:

## New Events, Site Notes and Historical Graphs Buttons added to most pages

As you can see the HOME page has not changed in content, however, the **Events** and **Site Notes** Buttons have been added as well as the **Historical Graphs** Button. Clicking on the **Site Notes** Button opens a small Note Window (as seen above) for viewing and editing the Site Notes

## Additional Smaller Changes and Enhancements

*User Information File has been expanded to hold two phone numbers, email and text message addresses.*

*Site Information File has been expanded to hold Site Notes and a designated Site Manager Contact.*

*New Views available for Companies who wish to download data from BinTrac.*

*All New Event Log File that maintains a running log of all events defined in BinTrac. When Acknowledging Events on the web, BinTrac records the User and Time Stamp of when the first user acknowledged that Event.*

*Longer Login Time-Outs have been implemented that should allow you to remain logged in all day (up to 8 hours idle time before timing out and requiring you to log back in. Each night our server is rebooted so try to log out at the end of the day when you are through.*

## New Reports Tab

We always like to show you what is coming. The new REPORTS Tab has been created as a place holder for a new reporting feature we will be developing over the summer. This tab will begin with a 1 page Executive Summary of accumulated totals and summary information by period (likely Monthly &/or weekly). The additional tab areas will provide more detail and reporting options on data outlined on the Summary page. Have some ideas? Tell me what you would like to see.

Here is what we have in mind...

<b>BINTRAC™</b>		ABC Company			
WEEKLY FEED SYSTEM PERFORMANCE SUMMARY		January 26, 2009			CURRENT WEEK: 6
Animal Health	Week 6	% chg	Previous period	Previous 8 wks	Target
Feed Interruption Events/100 Bins	13	88%	7	15.1	0
Gestation	0	0%	0	1.1	0
Farrowing	0	0%	0	2.3	0
Nursery	1	-50%	2	3.1	0
Finisher	12	140%	5	8.8	0
Feed Interruption Duration (avg hrs)	11	-50%	22	23	12
Feed Delivery Exceptions	13	88%	7	15.1	0
Weight Out of Tolerance	1	0%	1	3.2	0
Unexpected Fill	11	1000%	1	4.2	0
Failed Delivery	1	-80%	5	7.7	0
Feed Freshness					
AVG Days of feed on hand	3.2	-29%	4.5	7.1	3
AVG % level on refill	7	-72%	25	50	10
<b>Inventory</b>					
Feed Inventory					
Tons (000s)	453	-25%	600	750	500
Tons / 1000 Animal Space	2.5	-20%	3.1	3.3	2.0
Total Available Capacity / Tons	447	49%	300	150	-
Capacity Utilization / %	50.3%	-25%	66.7%	83.3%	50%
Feed Disappearance					
Total (000s) / Tons / Day	151	-25%	200	250	200
Total /lbs/ Day / Animal Space	0.71	-20%	0.893	0.952	0.9
Gestation	1.01	12%	0.90	1.01	1.00
Farrowing	0.55	0%	0.55	0.55	0.50
Nursery	0.03	0%	0.03	0.03	0.04
Finisher	0.71	0%	0.71	0.71	0.71
<b>Order Desk   Logistics</b>					
Load Size	22.2	4%	21.3	20.1	24
A Mill / AVG / Tons	18.3	-9%	20.2	20.0	24
B Mill / AVG / Tons	24.1	10%	22.0	19.9	24
Load Drops	1.3	-7%	1.4	2.50	1
A Mill / Drop / Load	1.4	-7%	1.5	3.00	1
B Mill / Drop / Load	1.2	-8%	1.3	2.00	1
Miles Traveled / Ton	1.8	-8%	1.7	2.20	1.1
A Mill / Miles / Ton	2.2	47%	1.5	3.00	2.1
B Mill / Miles / Ton	1.1	-15%	1.3	2.00	1.1
Expedited Orders <48 hrs	23	-47%	43	72	6
A Mill	11	-48%	21	40	3
B Mill	12	-45%	22	32	3
<b>Feed Mill</b>					
Production / % Per Day	100.0%	-1%	101.2%	100.0%	100.0%
Monday	24.3%	16%	21.0%	24.3%	14.3%
Tuesday	18.3%	8%	17.0%	18.3%	14.3%
Wednesday	14.3%	-29%	20.0%	14.3%	14.3%
Thursday	14.3%	0%	14.3%	14.3%	14.3%

Thursday	14.3%	0%	14.3%	14.3%	14.3%
Friday	18.5%	0%	18.5%	18.5%	14.3%
Saturday	5.4%	0%	5.4%	5.4%	14.3%
Sunday	5.0%	0%	5.0%	5.0%	14.3%
Capacity / %	93.0%	-4%	97.0%	93.0%	95
A Mill / % Capacity	104.0%	-7%	112.0%	104.0%	95
B Mill / % Capacity	82.0%	0%	82.0%	82.0%	95
Orders Delivered	332	-4%	346	332	300
A Mill / Miles / Ton	188	-7%	200	188	300
B Mill / Miles / Ton	146	0%	146	146	300
Order Fill Accuracy	90.3%	4%	86.6%	90.3%	99
A Mill / % Capacity	80.8%	8%	75.0%	80.8%	99
B Mill / % Capacity	85.4%	0%	85.4%	85.4%	99
Delivery Schedule Accuracy	95.3%	4%	91.6%	95.3%	95
A Mill / % Capacity	85.8%	7%	80.0%	85.8%	95
B Mill / % Capacity	90.4%	0%	90.4%	90.4%	95
<hr/>					
<b>Bintrac System</b>					
Sites Reporting	59	11%	53	50	60
Bin Reporting Performance / %	96.00%	1%	95.00%	92.00%	99

Again, please take some time to preview <http://next.bintrac.com> and let us know if you have trouble accessing or viewing any of your data. We will be making some final adjustments over the next 2 weeks and will inform you when the site will be going live as bintrac.com. The data on this site is your current BinTrac Data, so feel free to use this site now if you like it and we will finish the training and documentation materials while you experience the **Next BinTrac.com**.