



SYSDYNE

Trailblazer/Scout

Concrete Batching Computer

S Y S T E M S

OPERATOR'S MANUAL

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System & Operations

Introduction

The term "Trailblazer" will reference to Trailblazer and Scout systems for similar situations and functions. The Trailblazer batching computer system combines state of the art microprocessor technology, advanced electronic circuitry together with intelligent programming to achieve highly efficient and accurate automatic batching control. As a result, improved plant production is attained with reduction of plant equipment wear. The computer programs have been designed to be versatile and flexible in order to accommodate different plant configurations. The system, with many features and extensive processing power is however, simple to operate.

The Trailblazer batching systems retain a large collection of data related to job, mix design, delivery ticket, batch recordation, customer, inventory and truck data which are organized and orderly maintained in the internal hard disk. This database can be rapidly retrieved to produce many useful management reports.

The Trailblazer system configuration is based on the latest IBM¹ PC compatible computer, high resolution monitor for information display, full sized keyboard and a mouse pointing device for command and data entry. The software operates under MS-Windows².

The Trailblazer systems include a manual operation panel allowing the operator to manually perform all the plant operating functions. Carefully designed interlocks are incorporated to disable certain switches and push buttons on the manual operator's panel during the automatic batching cycle to ensure that there is no manual interference on the automatic operation.

The monitor information display is always formulated to guide the operators through the various stages of the operation. Specific keyboard keys and mouse "clicks," which can be used to issue commands, are easily identified on the monitor screen display. It is therefore unnecessary for the operator to memorize a myriad of commands. Functions which can be activated at a specific stage are shown on a self-explanatory screen menu. Each step on the automatic batching process is also clearly identified and the current system status is always annunciated on the monitor screen. The computer also prompts the operator with on screen messages whenever there is special action to be taken.

The CPU sends signals to and receives signals from the plant devices such as valves, solenoids, motor starters, limit switches, meters and scale sensing devices through connection terminals and interfacing electronics located in a factory fabricated wall junction box.

The specifications for standard output signal drive capacity and the input device requirements are listed in Hardware Specifications. SYSDYNE CORP. must be consulted should there be any deviation from the specifications.

With the IBM³ PC compatible hardware platform and MS Windows, Trailblazer batching system reads and writes the same kind of data storage devices widely used in today's office computer systems. This makes it possible to exchange information with the office computer systems. Delivery ticket, batch, and material inventory information can be readily transferred to other accounting computer system electronically.

¹IBM is the trademark of International Business Machines Corporations. ²MS DOS is the trademark of MICROSOFT.

Throughout this manual the terms screen, window or screen window, menu, cursor, field, is repeated again and again. The operator's understanding of these terms is important.

SCREEN refers to the TV-like monitor display.

SCREEN WINDOW OR WINDOW refers to a small portion of the screen blocked out for displaying some special message, usually superimposed over the original screen display.

MENU means a list of items displayed on the SCREEN or in a WINDOW.

CURSOR refers to either the white arrow controlled by the mouse.

POINT and CLICK refers to moving the cursor via the mouse and clicking on the desired object.

FIELD refers to a piece of data in a record or a space on the screen where certain data is to be located.

Users are reminded that since the system relies on the different sensors on the plant to derive different appropriate control signals, it is most important that all sensing devices are periodically inspected and calibrated.

3IBM is the trademark of International Business Machines Corporation.

Installation Instructions

Hardware List

Check for the following items before starting installation. You must have all those items shipped to you in order to complete the installation:

PC with power cable.

Monitor, with power cable.

Speakers

Mouse type pointing device

Full size keyboard

Printer, with power cable

Parallel printer cable

Wall Junction Box, (J Box).

Wall Junction Box Key

Manual panel

Manual panel security key

Manual panel cables, C1 and C2

Transceiver cable (combination scale and analog/digital cable).

Transceiver

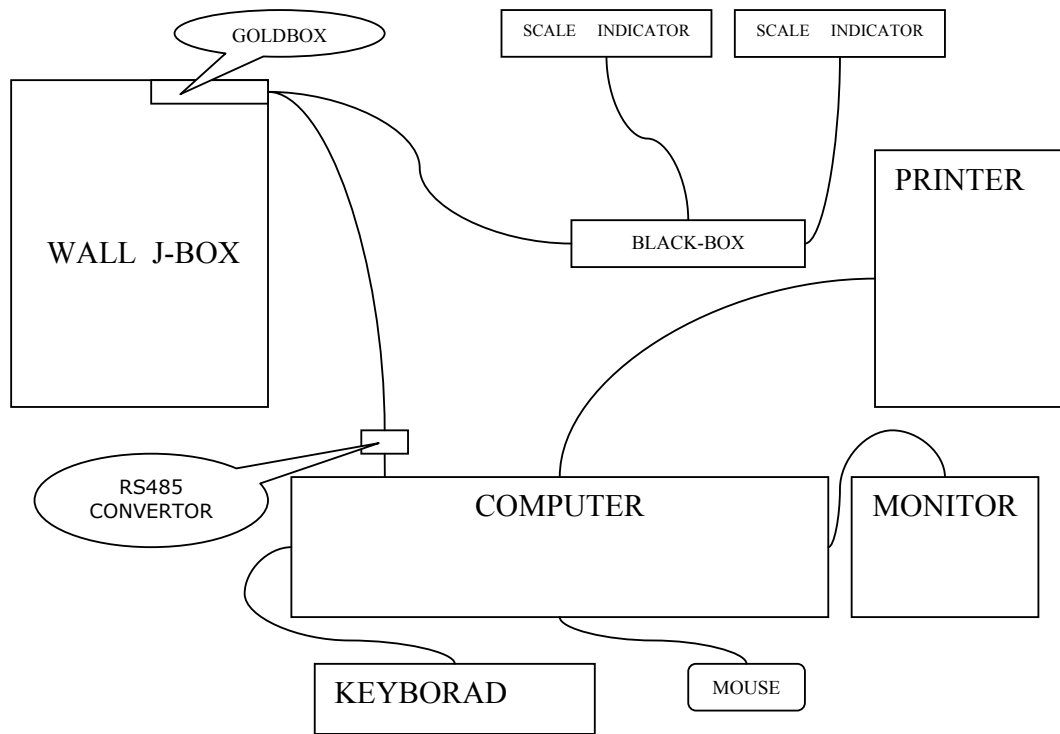
Transceiver power cord

Sysdyne "Black Box," Analog Input Module.

RS485 conversion dongle.

Sysdyne Corp and the shipping agent must be notified immediately if any items are missing or damaged during shipment.

System Hardware Structure



Hardware Specifications

Dimensions: Wall junction box: 30"×24"×8" (Scout measures 16 x 20 x 12)

Computer room environment: The computer room ambient temperature should be maintained within a range of 55 to 95 degree F. Continuously operating at high temperatures or starting the system from extreme cold conditions without adequately warming the room may cause the computer to fail. Extremely dusty conditions should also be minimized.

Power requirements: Line voltage of 115VAC, 60Hz, 15 Amps of stable power source, not shared by any other plant equipment. Power fluctuation and interruption must be corrected by installing either a constant voltage transformer or an uninterruptible power supply.

Wall Junction box: All plant wiring connections are to be terminated at the wall junction box, except those from the scale indicator or moisture probe.

Scale inputs: Load cell indicators providing a 0-10 VDC continuous analog output.



NOTE: Each of the load cell indicators uses a 9-pin connector to connect to a Black Box analog channel. PIN-2 is positive, PIN-3 is negative, PIN-4 is ground (option).

Meter material counts inputs: Metering device count inputs must be 115 VAC at NOT MORE THAN 15 (fifteen) counts (ON-OFF cycles), per second. ON-OFF cycles cannot be less than 60 milliseconds.

Output drive capacity: Each output signal from the computer is 115 VAC with 1 amp load capacity. Motors must not be connected to the computer directly.

Installation Procedure

Locating the SYSDYNE computer: The PC system should be placed at a convenient location allowing the operator clear sight of mixer truck during the loading process, all the while operating the keyboard and mouse. The manual operations panel should be situated next to the computer for convenience. Avoid locating the monitor under direct sunlight or next to the radio base station.

Installing the Wall Junction Box: The wall junction box should be installed at an easily accessible location in the batch room preferably less than 10ft. away from the computer. Cables from J-Box to CPU are 15ft. in length. The operator should be able to see inside of the wall junction box when the box door is open in order for him to do simple troubleshooting tasks.

Power to the system: AC power is to be brought in from a stable AC dedicated line through a 20-amp circuit output breaker, from the load center of the plant power system. Punch a hole at a suitable spot on the side of the wall junction box and bring the AC power line through the hole and connect them to the terminals marked "L1", "L2", on the power terminal strip at the bottom of the wall junction box. Wiring between wall junction box and source must be in applicable conduits to meet the local electrical installation code.



Note: It is very important the Sysdyne junction box be properly grounded.

Connecting Plant Control Wires: All plant control wires, for the devices controlled by the batch computer, are connected either directly to the terminals or through a pre-assembled cable to the terminals inside the wall junction box. Carefully connect each plant wire to the appropriate device and terminal. After the connections have been made, you can use the manual operator's manual panel to operate each plant device to ensure that every connection is correct. You must do so before proceeding to set up and check out the automatic mode operation.

In general, all solenoids or starters should have one conductor terminated at the output terminals in the wall junction box and the other conductor terminated at the L2 terminals in the wall junction box. A starter or solenoid is activated by the system supplying 115VAC at the output terminal of the particular device.

Each output terminal in the wall junction box is fused and has a neon indicator light to show the presence of voltage. 1A fuses are installed from the factory. If your starters or solenoids require larger fuses, you can replace them with 2A fuses. NEVER connect a motor directly to the terminal.

Admixtures and Water Meters: Admixtures and water, which are typically measured by metering devices, must have the meter return signals properly connected to the designated input terminal. The switched power source for meters and limit switches should originate from terminal "3L1."

Each metering device must be calibrated to the batch computer after the system has been completely set up.

Admixture Bottles: If admixture bottles are used, each bottle must have its own liquid level control amplifiers to cut the discharge signal when the bottle is empty and to cut the fill signal when the bottle has either reached the desired target or has filled to capacity. The system is set up such that the bottles for admixtures #1, #2, and #3 are discharged from the same signal and at the same time, as bottles for #4, #5 and #6 admixtures. The bottle empty signal from each bottle should be wired as follows.

Admixtures #1, #2, and #3 zero outputs are wired in series to TFS 11. Admixtures #4, #5, and #6 wired series to TFS 12 (refer to wiring manual for locations of TFS board).

A series circuit will generate 115VAC signal on TFS 11 when bottles #1, #2, and #3 are empty and likewise on TFS 12 when bottles #4, #5, and #6 are empty.

Admixtures Flow Rates: Admixture flow must be adjusted such that the meter counting rate shall not exceed fifteen (15) counts per second for reliable operation. Unreliable counting may result in improper admixture dosages and seriously affect the quality of the concrete produced.

Connecting the Computer: Securely mount or position each component of the system. Avoid excessive dusty areas especially for the computer and printer. Connect the remaining components of the batching system with the factory provided cables. Proceed to check out all the operations.

Software Upgrade

You can download the latest version of batching program on our web site:

<http://www.sysdynecorp.com>

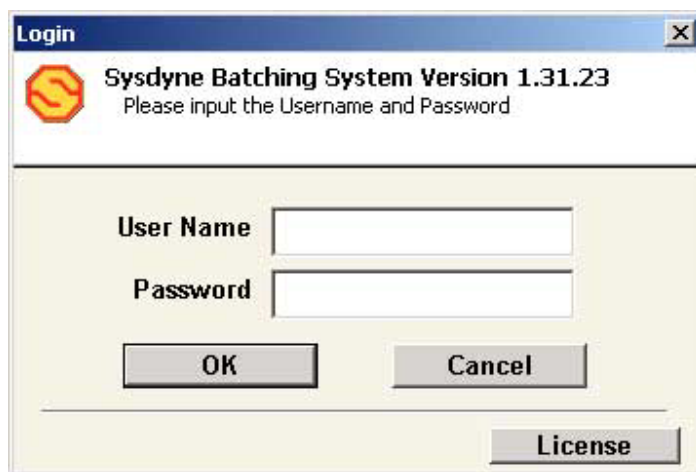
Operating Guide

The following chapter is intended to show a first time user, step by step, how to start up the system, how to batch a load of concrete using the operator's manual panel, how to set up the simplest material tables and mix designs and finally how to batch a load in the automatic mode. The advanced features of the Trailblazer series batching computers allow the operator to pre-enter jobs, set up different truck charging sequences, set up projects, etc. the operator is encouraged to experiment with these features after batching a few loads with the simplest setting.

Starting the System

The batching computer system, once installed, requires no special starting procedure.

To start the system, simply turn the spring loaded power selector switch on the operator's manual panel to the ON position and release the switch. This will allow you to start devices necessary in the batching process, (i.e., air compressors, aeration, etc...). Turn on the PC, monitor, printer, analog input module and power to the J-box transceiver unit, (it is highly recommended that you use a battery back up / constant voltage transformer for the protection of your electronic equipment. Doing so, will allow you to turn on several components at once). Wait a few seconds for the **Windows User Logon Menu** to appear. Double click on your company name. Once the **Windows Desktop** appears double click on the **SYSDYNE Batching** icon. A small window will appear requiring a user name. Put the name of your company or the word **admin**, both company name and admin must be in lower case characters. The **Batch** menu will appear.



NOTE: Click the license button to change the license of your program.

The on-screen **TABS** located at the top of screen allows the user to select and initiate different functions of the program. The steps to select and initiate a function are:

Move the cursor, using the mouse to the menu item you wish to enter. Once the cursor is on the menu item click the left mouse button.

To go into the **Batch** menu, simply click on the **Batch** icon on the lower left side of the current screen.

Before attempting to use any of the functions in the batch program, the operator should first try to become familiar with the manual panel operation. Batching a few loads using the manual panel will help speed up the familiarization process. In addition, manual mode batching may be necessary when an equipment malfunction prevents the use of the automatic cycle.

Material set-up

Before the system can be used to batch in automatic mode, the materials table and at least one mix design must be properly set up. A mix design is the formula, which specifies the name and the quantity required of each material per cubic yard mix. The material tables are set up to provide various batching control and information processing parameters including the information relating the material names used in a mix design formula to the actual bin gate solenoids, meter valves or pumps on the plant. Example: if sand is stored in material bin #1 and if the computer is to batch one cubic yard of a mix contains 1600 lbs. of sand per cubic yard, the computer will look up the material tables to find the name SAND under which Bin #1 solenoid to batch out 1600 lbs. of material.

Preliminary Set-Up Steps

Click on the **Material** Tab

Looking at the small "pull-down" menu labeled Material Type, insure it has "Weighed" ***displayed.***

Weighed Materials set-up

First, double click anywhere on the first line of the **Material** menu. A small window will ***appear with the Name field highlighted in blue. Type in the name of the first weighed*** material, (1-6 are reserved for aggregates and 7-10 are reserved for cements). When name is typed in hit the TAB key on the keyboard. The cursor will be in the **Bin ID** field. Continue using the TAB key until all data requested has been entered.

Name: This is name of the particular aggregate you are currently setting the details for. The name you type here will be used by the program to reference this material in other menus.

Bin ID: This is the gate number assigned to this material (Bins 1-6 are reserved for aggregates and 7-10 are reserved for cements).

Auto Cut Off: This is "autopilot" of the weighing side of the program. Checking this box will allow the program to automatically adjust the freefall compensation value.

Type (Pull down menu): Tell the program what category of material you are setting up. This value is used for timing purposes, i.e., when to discharge admixtures, water, etc...

Fast Cut off: When more than one gate is used for the same material with the same material name this value will represent the amount "short" of the desired target in which to shut all other gates that have like material and are being used in multi gate weighing cycles.

NOTE: The first gate (bin gate name) listed will be the final weigh up gate. It is not necessary to set up details for all subsequent materials of the same name as the data will not be used.

Tolerance: This represents the percentage of the total weight error or deviation allowed acceptable of the desired target weight.

Slow Cut Off: This is the value the program will use to compensate for freefalling material. If using AUTO CUT OFF this number will not adjust, however the value is constantly updating within the program. If AUTO CUT OFF is not being used, then this value will be assumed and fixed.

Scale Settling Time: This is the amount of time in seconds to allow the scale to settle between jogs.

Auto Jog: Putting a check in this box enable the auto jog feature.

Spec. Gravity: This value represents the density of the material that you are detailing.

Jog Open Time: This is the amount of time in seconds; an electrical of 115VAC+/- signal is applied to the solenoid valve connected to the cylinder of this bin. Basically this is the amount of time for jogging but, due to the differences in hose sizes, cylinders, solenoids, bin gate characteristics the definition had to be exacted.

Inventory Unit, (Pull down window): Select the unit of measure for the batching of this material.

Jog Close Time: This represents the amount of time in seconds, between JOG OPEN signals.

Alarm Level: Put the weight at which you wish the program to notify you of the on-hand amount of this material. The value here is the inventory weight.

Min. Flow Rate: Reserved for future use.

Alarm On: Checking this box will enable the **Alarm Level** feature to function.

Man Batch: This feature can be used to inventory materials that are to be used in the batching process but are not electrically connected to the batch computer. When used, the precise amount of material needed in a specified mix will appear on the batch screen but will not generate any kind of output.

Aeration Off: This is the amount of weight in weighing units the aeration will cut off prior to the desired target weight.

Moisture: Putting a moisture percentage value in this field will cause the program to adjust the water and sand based on this fixed value. This value will remain until changed by the operator.

Auto: If this box is checked and the MAX MOISTURE field mentioned below is setup, the program will then look for an input signal from a moisture gauging device.

NOTE: The input signal from the moisture gauge must be of a 9-10VDC calibration. There is no on-screen calibration in this program. The program algorithm is analog input volts x 2 = moisture % displayed.

Auto Moisture:

Delay Sec.: This feature is used when an “under the bin gate” moisture gauge is used. This represents the amount of time in seconds the program delay its moisture sampling once the gate opens.

Min Weight: This feature is used when an “under the bin gate” moisture gauge is used. This represents the amount of weight in weighing units the program will disregard before starting to measure moisture content.

Min Moisture: This is the minimum amount of moisture the program will accept to update the moisture value. If the minimum is not reached then the previous batch value will be used.

Max Moisture: This is the maximum amount of moisture the program will accept to update the moisture value. If the moisture amount surpasses this value then the previous batch value will be used.

NOTE: If for some reason you wish to disable the auto moisture compensation feature this value must be set to zero.

Max. Amt. In Mix: This is the maximum allowable weight in weighing units per yard or meter that may be used in creating a mix design without receiving a warning message of “Exceeds Max Allowable Amount in Mix,” message. If you encounter this message you must either reduce the weight of the material or acknowledge the overage.

Absorption:

Show Balance: Using this feature will cause the program to display the current balance of this material to be displayed on the portion of the batch screen used to represent this product.

Repeat this procedure for all weighed materials to be used by the batching program.

Metered Materials Setup:

Click on the **Material** tab

Looking at the small “pull-down” menu labeled **Material Type**, insure it has “**Metered**” displayed.

First, double click anywhere on the first line of the **Material** menu. A small window will appear with the **Name** field highlighted in blue. Type the name of the admixture to be metered. When name is typed in hit the TAB key on the keyboard. The cursor will be in the **Pump ID** field. Continue using the TAB key until all data requested has been entered.

Name: This is name of the particular admixture you are currently setting the details for. The name you type here will be used by the program to reference this material in other menus.

Pump ID: This is the pump number assigned to this material (Pumps 1-6 are reserved for admixtures and 15 and 16 are reserved for waters).

Cut Off: In event the metered material continues to overrun its target by the same amount every batch cycle the feature allows the program to automatically compensate for the overage.

Type: (Pull down menu): Tell the program what category of material you are setting up. This value is used for timing purposes, i.e., when to discharge admixtures, water, etc...:

Tolerance: This represents the percentage of the total volume error or deviation allowed acceptable of the desired target amount.

Max AMT In Mix: This is the maximum allowable volume in metering units per yard or meter that may be used in creating a mix design without receiving a warning message of "Exceeds Max Allowable Amount in Mix," message. If you encounter this message you must either reduce the volume of the material or acknowledge the overage.

Batch Start: This field requires a single or double digit integer used to represent any number of timed situations during the batching/discharging cycle:

1. The start of any weighed material.
2. The start of any fine aggregate weighing.
3. The completion of scale #2.
4. The completion of scale #3.
5. The completion of scale #2 weighing.
6. The completion of scale #3 weighing.
7. The completion of scale #4 weighing.
8. The batching of any weighed material. (The program does not check for the completion of any weighed material before allowing weighed material in the scale to be discharge.)
9. Scale discharge complete.
10. Scale 1 discharge complete.
11. Scale 2 discharge complete.
12. Scale 3 discharge complete.

14. Scale 4 discharge complete.

Unit: This is the unit of measure for this material to be batched in. *This setting may differ from the **inventory unit**.*

Batch Delay: This is the amount of time in seconds, the bottle or direct feed material will be delayed once the **Batch Start** setting has been met.

Meter Rate: This is the value in batch units per pulse.

Discharge Start: Uses the same coded integers as listed above.

Metric Batch Unit: This field is the metric liquid measurement. Example: milliliters or liters, (mls or lts).

Discharge Start: This is the amount of time in seconds; the discharge of this material will be delayed, once **Discharge Start** setting has been met.

Spec. Gravity: This value represents the density of the material that you are detailing.

Min Flow Rate: Reserved for future use.

Inventory Unit: This setting is used for entering the incoming material volume as stated on the bill of laden. Typically aggregates are delivered to your plant in tons and cements can be either tons or pounds. You decide.

Man Batch: This feature can be used to inventory materials that are to be used in the batching process but are not electrically connected to the batch computer. When used, the precise amount of material needed in a specified mix will appear on the batch screen but will not generate any kind of output.

Alarm Level: Checking this box will enable the **Alarm Level** feature to function. This is feature uses an **Inventory Unit** amount to warn the operator of a low material level.

Bottle: Placing a check in this box will cause the computer to verify a "bottle empty signal" prior to every batch and also automatically enable a bottle discharge signal.

ALARM ON: If you want to be made aware of a diminishing quantity of this product then set the **Alarm Level** to your desired setting.

Show Balance: Using this feature will cause the program to display the current balance of this material to be displayed on the portion of the batch screen used to represent this product.

Repeat this procedure for all metered materials to be used by the batching program.

Check the value set for the **Meter Rate** to see if it represents correctly the meter transmitter rate for this particular metered material. For example, if the meter transmitter generates one pulse for every 5 ounces of admixture flowing through the admixture meter, then the **Meter Rate** should be set to 5. If one pulse represents 1/2 an ounce then the **Meter Rate** should be set to .5.



Note: IT IS VERY IMPORTANT THAT THE CORRECT METER RATE IS ENTERED OTHERWISE, AN ERRONEOUS DOSAGE MAY RESULT.

CAUTION, CAUTION, CAUTION

AFTER THE SYSTEM HAS BEEN INSTALLED AND THE SET UP HAS BEEN COMPLETED, TRAIL LOADS MUST BE BATCHED IN THE AUTO MODE. VERIFY IF:

All material names and bin numbers are correctly designated, i.e., all materials are batched from the correct bins.

All admixture dispensing systems are functioning properly. That all metered materials are batched from the correct systems, at a reasonable flow rate such that the meter transmitter can produce steady and reliable pulses to be registered by the computer and the actual dispensed amounts agree with the quantities registered on the screen and recordation.

Enter a mix design

A mix design must be present in the mix design file before it can be used to batch a load of concrete. A mix design or formula specifies the amount of each material per yard to be batched into one load. The mix design is based on a one cubic yard mix or cubic meter mix. In actual operation, the quantity of any material required in a load is derived by multiplying the quantity specified in the mix design by the yardage of the load.

The following procedure can be used to enter a mix design:

From any screen point and click on the **Mix** tab. The monitor will display the mix screen.

The first line of the **Mix Design** menu will be highlighted in blue. Point and click in the first empty field under the **Code** column. Enter a **Code** or abbreviated name / number your choice. The code can be alphanumeric, (use letters, numbers or a combination thereof).

Point and click on the on the next empty field under the **Project** column. **Project** is used for rare occasions when the contractor wants assurance that only certain mixes to be batched on his or her **Project**. Placing a **Project** name in association with same **Project** name in the **Job** menu this will cause the program to only allow the associated mixes to be entered in the **Job** menu.

Point and click on the next empty field under the **Description** heading. In this field you will type the explanation of the **Code**. This **Description** will be printed on the delivery ticket.

Now you will need to move to the **Materials** menu (located on the right hand side of the same screen). Point and click on the empty field under the **Material** column. A pull-down menu will appear. Select the first aggregate you want to be loaded in the weigh hopper when batched. This also applies to cementitious materials.

Point and click on the empty field under the **Amount** column and enter the weight, per yard or per meter, (depending on the unit of measure you will be using). The weight should be in pounds or kilograms.

NOTE: *The weight or dosage is to be the net individual amount and not the accumulated in a batch. For those materials that require moisture compensation, the required dry weight should be entered into the mix design. The compensation is usually done at the time of batching.*

Point and click on the next empty field under the **By%** column. This field is only used for admixture dosing. If you are not entering an Admixture simply skip this step. With this feature you have the choice of dosing the admixture "per yard / meter" or by "100 weight of cement." If you want to dose by the yard / meter then select "N" from the pull-down menu.

The **Unit** column will automatically default the weighing units set in the **Material Detail** menu.

Continue steps **e**, **f** and **g** until all materials for this mix design have been entered.

Now go to the **Parameters** menu just above the **Materials** menu on the same screen. In this menu there are two columns: Parameter and Value. They will be explained as follows:

Unit: Your choice of YDS or M3.

Price 1: General Price per yard or meter of concrete.

Price 2: Special price per yard or meter of concrete.

Price 3: And yet a really special price for a yard or meter of concrete.

Not Tax Of: This is the amount of a yard or meter of concrete delivered that is not taxable.

Tax: Select either Y for yes if this product is taxable or N for no if it is not.

Max Drop Size: This is the maximum yardage or meter of this mix design that either weigh batcher can manage.

Mixing Time: This is the maximum amount of mixing time for this mix.

Once all the data for the mix design has been entered point and click on the **Save** button.

Starting an Automatic Batch

The weighed materials batching into the same scale are to be batched one at a time in the order they appear in the mix design.

The Batch screen display is for entering or modifying the information required to batch a load in auto mode or Semi-Auto mode. It contains the information from a selected **Job** (selected from the **Scheduler**) or information from the last batch. To be able to pull up the last batch information a simple key entry makes repeating the same batch an easy task. It should be noted that the first time after the system is restarted, the last batch information no longer exists.

Qty_Sold: Upon reaching the **Batch Edit** screen the cursor will be blinking on the **Qty_Sold** field. This is the quantity sold. If the job is selected from an existing job, this field will automatically fill in the amount specified in that particular job. If no job exists then fill in this field with the amount of yards or meters. Example: for five yards type 5 and press the **TAB** key. *For whole numbers only*, it is not necessary to enter the decimal point or zero beyond the decimal point. If you want 5 $\frac{3}{4}$ for an existing job; the **Mix** field will be automatically filled with the mix code stated for that job. This field is the same as the **Product Code** in the **Job** menu.

Truck: This is the number assigned to the truck that is to be loaded. If you have assigned this truck number to a **Job** then this field will automatically be filled in. This truck number will also determine the load rate and discharge sequence. If no truck number has been assigned to this job or you do not fill in this field, the load rate is then determined by a default load rate in the **Utils** menu.

Mix Description: This is the description of the mix design you have selected in the **Mix** field.

Unit: This field will default to the weigh unit selected in the mix design menu.

Project: **Project** together with **Mix** code determines which mix design is to be used. There must be a mix design in the **Mix** field with both a matching **Mix** code and **Project** code.

Note: *Assigning a **Project** name to an existing **Mix** allows you to use a discount for specific customers. Enter a discounted price into the **Price** field with the appropriate **Project** name and you will not have to re-input the discount in the future for that particular project.*

Driver: This is the name of the truck driver. If a driver name has been assigned to the TRUCK number then this field will automatically be filled in.

Qty_In_Truck: Quantity in Truck. This is the amount of concrete left over from a previous batch that can be resold. The batch size is located as: BATCH SIZE=(QTY_SOLD-QTY_IN_TK).

Job#: This is the JOB number assigned to this load. The basic system will store up to 100 jobs.

Truck Weight: For future use.

2nd Water: **2nd Water** specifies the amount of hot water as a percentage of the total quantity of water. This allows the blending of two waters according to a fixed ratio. This field is a GLOBAL type field meaning that all batches are affected. When the systems power is turned on the value of **2nd Water** is reset to zero. The value of 2nd WATER is the amount of 2nd water used in terms of the percentage of the total amount of water required. If a negative value is entered it will be taken as zero. If the entered value is over 100, it will be taken as 100.

2nd Water will be effective only if the mix design calls for both waters and if the individual amount after **Trim** is not zero or less than zero. The computer calculates the total amount of water used by adding up all the individual quantities called for in the mix design, and adjusting with the **Trim** and **Water Adjust** amounts. The total is reduced by the two waters batched and then computed based on the percentage of **2nd Water**. Assume that the **2nd Water** is hot water and the mix design calls for more than one hot or cold water, the individual amount to cold or hot water will be in the same ratio as their original amounts of the same water type in the mix design. For example, if there are two cold waters, "A" and "B", and if the calculation calls for a total of 35 gallons of cold water, and if it is specified in the original formula that the cold water is to be 30 from "A" and 20 from "B", then the actual target will be:

"A" cold water = $20 / (20 + 30) \times 35$ gallons = 14 gallons

"B" cold water = $30 / (20 + 30) \times 35$ gallons = 21 gallons

Cases where no redistribution of water will take place are:

No water present in the mix design.

The total amount of both waters after trim is zero or negative.

Note: *In order to make the process simple and flexible, enter the hot and cold water material into all the winter mix design as follows:*

Set the quantity of cold water to be the total amount required less one (1). Before starting a batch, change the value of hot water to whatever percentage is required. A "0" means no hot water is used, a 100 means all water used is hot.

Water Adjust: This is amount of water in gallons or liters to be added or subtracted from the upcoming batch. To subtract water per yard from the batch use the negative, (-) symbol. Use the (+) or just the number to increase the water amount per yard. This is a GLOBAL type field, meaning that this field retains the value you insert for this load and all subsequent loads thereafter until you remove the value or restart the system. When using this field water is in gallons added per yard using positive numbers. For example, to add 3 gallons per yard, enter 3. To add a 1 ½ talons a yard enter 1.5, and so on. To subtract water from the load enter a minus (-) sign first then enter the amount you wish to take out per yard.

Before the actual batching start, the computer checks to make sure that all admixture bottles and materials weigh bins are empty. If any scale or bottle is not empty, the computer will give the operator a warning and he is supposed to confirm if this NOT EMPTY condition is acceptable, (by overriding, refer to the description below), otherwise the automatic cycle will not proceed.

Of Drop: The calculated drop size is derived as follows: Calculated drop size = batch size and # of drops. However, the actual drop size for batching may be different depending on the value of the parameter of **Drop Repeat Mode** (found in **Utils** in the **Operation Parameters** menu); the computer automatically corrects the error condition by increasing the # of drop until the actual drop size is smaller or equal to the maximum drop size.

Batch Size: **Batch Size** defines the amount of material to be batched, and is calculated as follows: **Batch Size = (Qty Sold) – (Qty In Truck)**.

Tolerance Check: A check in this feature (**Tolerance Check**), activates the tolerance checking program which will halt the batching process whenever over batching quantity exceeds the tolerance limits. The operator is required to acknowledge his acceptance of the condition in order for the system to continue batching. Any input other than a "check" will allow the system to automatically accept the tolerance error and continue batching.

Print: A "check" to **Print** specifies that the system is to print the ticket for this batch. No ticket prints for any other input.

Trim: A "check" in this feature is used to access the trim utility which allows the operator to adjust the amount of any material called for in a mix design without actually changing the mix design record in the file. When the **Trim** icon is pressed, **Mix** and **Project** fields will be checked. There must be valid mix design in the file before **TRIM** screen can be displayed; otherwise, only a mix design list will be displayed. In which case, the operator must select the correct one from the list.

Once the **Trim** screen appears, trim amount can be entered by pointing and clicking on the appropriate material and actual change made under the Trim column. Any amount entered with or without a "+" sign is interpreted as a positive value which will be added to the original design displayed on the left to derive the net amount on the right. Any amount with a "-" sign means that the amount is to be subtracted from the original design quantity. The **Net** amount field will be immediately updated as soon as the ENTER key is pressed or if the cursor had been moved out of the field. Remember all trims are done per yard and the trim values will remain until the operator changes the fields otherwise. If you choose no longer to trim this mix then simply uncheck the **Trim** box on the **Batch Edit** menu.

Any material with zero or negative value net amount as a result of trim adjustment will not be batched.

Once alterations to the trim menu are complete, point and click on the **OK** icon to return to the **Batch Edit** screen.

AX ByPass: These are the exact names of the admixtures which are to be bypassed, (not dispensed even if specified in the mix design) during the automatic batch cycle. These are GLOBAL fields.

The buttons at the bottom of the **Batch Edit** menu are:

Start: If the batching cycle is initiated by clicking on **Start** and no errors are detected, batching cycle will start without the verification step.

Verify: If a batching cycle is initiated by clicking on **Verify** and no error has been detected, then the **Verify** screen will appear with JOB#, MIX#, batch size, and total number of drops displayed on the top section. The lower section of the screen is used to show all the names of the materials to be batched, from which bin a material is to be drawn, and the target quantities.

The information on the screen should be verified. Should any other error be found using the mouse, left click on the "**NO**" icon to return to the **Batch Edit** screen to make corrections.

After the verification, move the cursor to **Start Batch?** Click **YES** to start the batching cycle.

Pre-start load: A batch may be pre-started even when the current load is still being batched. The pre-started load feature allows the start batching of the next load immediately after the current load has been fully discharged. Only one pre-started load can be initiated at a time. Any attempt to initiate more than one pre-started load causes the system to display an error message, "Too Many Pre-started Batches," on bottom of the screen.

Once a pre-started load has been initiated, the **Next load** indicator at the bottom of the screen will show the truck number of the pre-started load. The indicator will revert to the normal display of "time of Next Scheduled Load" after batching of the pre-started load starts.

Point and click on **LAST DROP (F5)** or pressing function key F5 may be used to cancel a pre-started load.

Demo: If the batching cycle is initiated by clicking this button then the batch will automatically begin batching in demonstration mode. No gates or valves will be activated and no inputs will be considered.

Manual: Selecting this feature will cause the batch screen to appear as though it is ready to do an automatic batch; however, no automatic outputs will occur. Simply point and click on the appropriate bins, silos, bottles and water as needed to complete the batch. The batch may be manually or automatically discharge.

Semi-Auto: This feature is much the same as a **Manual** batch however, the program will automatically meter in the liquid materials.

Test: Used only in New York for state testing. Consult factory for further details.

Once the automatic cycle is allowed to proceed, the first material for each in the mix design should start to feed into the scales and the metered materials should start to flow, (into bottles, if used). The computer continuously monitors the scale weight reading and the meter counts. Immediately after the batching cycle starts, the system initializes all the batching parameters, including calculating the size for each group, target weight and tolerance limit for each material. Any error condition detected may prevent the cycle from continuing.

If the message **Over/bounce** is displayed next to any material being batched, it means that the material has been over batched and has actually exceeded the tolerance limit. In which case, the batching process of that material stops and the operator is required to check if the "over" condition is acceptable. If it is not acceptable, the operator may have to switch out of the AUTO mode, correct the problem and finish the load manually. If the "over" condition is acceptable then the operator may click on the **OVRD** icon or strike the **F2** key to continue to the next material.

After all the materials have been batched, the computer displays a status message under the individual amounts of each material weighed or metered in this batch. The bottled admixtures will display **FINISH**, the admixture discharge icon will display **DISCH_W**, (discharge waiting). The weighed materials will display **FINISH** in each bin used. The weigh hopper will display **WAIT_DISCH**, (Waiting for discharge).

Discharge from the weighed hoppers can begin at this time, either manually or automatically. For manual discharge operation the operator must use the appropriate Open/Close discharge switches. For auto discharge mode the **F10** key must be pressed or point and click on the **DISCH (F10)** icon. To stop auto discharge press the **F10** key again or point and click on the **DISCH (F10)** icon.

The **F10** key toggles discharge start and discharge stop. The status of the key will be displayed in the lower center portion of the screen. Upon beginning discharge the weigh scales will display current loading rates. The aggregate portion will display the truck loading rate per second.

To adjust the rate up press the "+" key and to slow the rate discharge press the "-" key. There are several factors involved with the discharge rate settings. In the **Scale Discharge Sequence** menu, the amount of aggregate going into the truck before the cement begins will determine proportionally the rate of discharge for the cement.

In the **Truck Charge** menu the truck loading rate determines the overall initial discharge rate. If no truck number is used when setting up the batch then the computer will use the **Default Disch. Rate** found in the **Operation Parameters** menu.

Once the material has been fully and completely discharged weigh batchers will display **FINISH** and if the **HORN** feature is used the horn will sound after the appropriate time delay set in the **Utils** menus. The next batch may be initialized.

The Trailblazer batching computers communicate with the operator through the use of numerous user-friendly menu screens. The operator is given messages on the screen showing the status of the system and action commands which may be taken. The following chapters are devoted to the explanation of the items on these screens. These chapters are organized in the similar order their tabs appear on the screen.

Batching Cycle Details

In general, the batching process for a weighed material is as follows:

Open the material feed to let the material flowing into the scale weighing hopper.

The system monitors the scale weighing continuously. When the scale weight reaches or exceeds the preliminary cut-off weight, the system immediately shuts off the feed and initializes a time delay allowing the scale to settle.

After the scale setting time delay expired, scale weight will be rechecked to see if it is within tolerance limits. If the weight has not reached the lower tolerance limit, the job mode is initiated.

In Jog Mode, the feed gate is opened for a preset job open time, normally a fraction of a second to allow a "bite" of material to drop down. If the final scale weight has reached the lower tolerance limit but not exceeded the upper tolerance limit, the weight is accepted and recorded as the weight batched. The inventory records will then be updated. Should the final weight exceed the upper tolerance limit, the system will display the OVER/BOUNCE message. If it is set up to check the tolerance, the next material will not be started until the operator acknowledges and accepts the over weight condition. The system will repeat this batching process until all materials called for in the mix design have been batched.

Auto/manual addition: For the systems with AUTO/MANUAL ADDITION feature, all the manual batch switches are enabled when all of the required materials have been completely batched. Manual addition of any material (which must be properly set up in the material tables) will be displayed on the screen accumulatively and identified on recordation the batch. Should the computer detect a gate open or a meter running and cannot find the corresponding material setup tables, or the manual addition of different material cause the total number of materials to exceed 16, the system will disable the manual switches to prevent further manual addition for this load.

Any manually batched amount will be added to the accumulative weight, but the net weight will be printed separately under the caption "M" on the automatic batch recordation.

LOADS REQUIRING MULTIPLE DROPS WILL NOT BE ALLOWED TO USE THIS FEATURE.

Once the discharge process has been initiated, and any scale has discharged to be on the preset discharge tare weight, the manual batch switches are disabled, no more manual addition is allowed.

As soon as all the materials have been batched, the scale hopper can be discharged.

The automatic discharge sequence is initiated by hitting the *F10* key or left clicking on the **DISCH (F10)** icon.

PRE-DISCHARGE LOAD: If the *F10* key is pressed before all the materials have been completely batched, it would be memorized and as soon as all materials have been completely batched, the automatic discharge sequence starts. Should the load have multiple drops, the discharge or the first drop requires initiation (pressing the *F10* key) and all the following drops will discharge automatically as soon as the batch is completed.

A number of different discharge sequences (the order or timing according to which different scales, admixtures, and water are discharged into the truck or mixer) can be set up. The discharge will follow the preset scale discharge sequence, opening each discharge gate accordingly. If discharge rate control is specified in the setup the discharge gate will be pulsed to open and close keeping the discharge flow rate to those specified. Metered material may start discharging if bottles are used.

Any discharge gate may be forced to close by manually pressing and holding the manual discharge CLOSE switch or pressing and holding the manual OPEN switch to force the gate fully open. Each scale is discharged until the scale weight is below its allowed discharge tare weight to make sure that the scale is empty. Then the system checks to ensure that all metered materials are in. Once all materials are finished, the current batching cycle is considered completed. The batching of the next drop starts automatically if there is one or if

the next load has been pre-started, otherwise, the system resets itself and stays in the AUTO/READY idling mode.

In the case where a plant is equipped with a mixer, the mixer timer starts counting down after all materials are in the mixer. Discharging from the mixer is prohibited until the mixing time expires. After a mixer tilted to the full discharge position or in the case of a stationary mixer with discharge gate, the discharge gate opens to the full open position; a discharge open timer starts counting down. Mixer returns to the home position or mixer gate closes automatically upon the expiration of the discharge open timer, after the mixer has returned to the home position or the mixer discharge gate closes and the limit switch has been activated, the system initiates the mixer down/gate close delay. When the mixer down/gate close delay expires, the mixer discharging cycle is completed, and the mixer is ready to accept the next drop for mixing.

Description of fields and features

The main screen is laid out in such a way as to give you the effect of layers of windows separated by tabs. The screen contains 10 tabs, including the current one, indicated by darker font or characters. The tabs are labeled as such:

Batch

Job

Mix

Material

Utilities

Charge

Customer

Ticket

Report

Quote

The first or current tab is the **Batch** tab. This is pretty much the main screen. This screen gives you all the information of the goings on of the batch plant as setup with the system. On a standard Trailblazer you will typically find 6 virtual admixture bottles, 6 virtual aggregate bins, 4 virtual cement silos, two virtual water icons, two admix discharge icons, cement aeration virtual button, two virtual scale vibrator buttons, two virtual weigh scale gates that indicate batcher open and close and a horn. All these virtual buttons and icons give you total control over your plant with quick reference eye appeal.

As you batch certain mix designs, each associated icon or virtual bin will be displayed with a target volume. As the product is being measured you will see the actual volume accumulate under the displayed target weight within the same virtual bin or icon.

Under each icon and virtual bin there will always be a "status" message for that product. When the product is not being used in the particular mix design the message for that product will be "IDLE." More explanations of these status messages will be explained later.

On the right hand side of the screen you will see a column of virtual buttons. They are listed as:

Batch (F7): Click or hit F7 to begin batching.

Demo: Click on this button and you will see the system batch concrete without actually opening any gates or valves. This is used primarily for training.

NOTE: *Inventory and totals are affected when using the demo program.*

Abort (ESC): This button is the virtual "panic button." Use this button to stop all batching processes and reset the batching program. **NOTE:** *Totals are affected when a batch has started and then aborted.*

OVRD. (F2): This button will allow the system to continue batching even when there is an out of tolerance situation occurs. This button will override any weighed or metered errors.

LAST DROP (F5): This button is used when systems drop repeat mode is set to 2. This mode is for continuous batching of the same mix. Usually used in block plant type application. Pressing this virtual button during batching will cause the program to finish the current batch and not begin another until made to do so by the operator.

Disch (F10): This button is used to tell the plant to start the material discharge of what has been weighed or metered into bins, silos, bottles or tanks. If a transfer conveyor is used it must be on before the discharge cycle will begin.

+ - : These two buttons are used to control the discharge of weighed materials proportionally. The calculation will be explained later in this manual.

In the lower left hand corner of the screen you will notice the word manual or automatic. Which ever word is displayed indicates the status of the control system or simply the position of the security key on the manual panel.

Located at about the same level as the auto/man status is a colored box about one inch by ¼ inch. If the system is functional then this box should appear to be green. Any other color and the system will not batch. This also will be explained later.

Along with having a full manual back up this system has a virtual control panel. It works much like your physical manual panel, including interlocks. If you click and hold on the gray area of the virtual bin, icon or silo, the product will start to accumulate once you release the button the weighing or metering will cease. To indicate this action the gray area will change to green.

If you will bear in mind that whatever button is green on the screen is open, including batcher gates. If the button is gray the gate or valve is de-energized. Green for Go and Gray for Stay.

Once a mix has been set up for batching you will see the more vital information concerning that mix at the top center to right in a tan colored box. The information given is Job, Cust., Truck, Mix, Unit, Size, Drop Size and Drop # of #.

From this screen if you click on the BATCH (F7) button a small menu will appear requesting the following information:

Qty Sold: Quantity of concrete to be batched in this load.

Mix: A pull-down window is associated with this field. You can only select a mix from the pull-down windows list.

Truck: A pull-down window is associated with this field. You can type in a truck name or number without being restricted to the available trucks in the pull-down window list. **NOTE:**

By using a truck name or number in this field will cause the discharge sequence to be ignored and will use the default load rate located in the **Utils / Operation Parameters**.

Mix Description: This name or description is taken from the mix design menu associated with the mix entered in the mix field. This field is automatically filled in once a mix has been selected.

Unit: This field has a pull-down window to allow the selection of YD for yards or M3 for cubic meters. The default value for this field will be YD.

Project: This field is unique as such will only allow pre-selected mix designs to be batched with this particular job.

Driver: This field will automatically be filled in if the driver is listed with the truck number or name inserted above.

Qty In Truck: If the truck being loaded has a quantity of usable concrete in this amount of concrete will be deducted from the load to be batched and still print the desired yardage on the delivery ticket. This information can be found in the **Report** menu. (Quantity sold – quantity produced).

Note: *To use this field you must enter cubic yards or meters, (or decimal fractions thereof).*

Job#: Job numbers can be searched in this field by typing the characters of the job or simply using the pull-down menu. The button to the right of Job# is represented by three dots, (ETC); once job # has been located the specific details can be recalled, obtained and changed with this button.

Truck Weight: This feature is used when truck tare weights are needed for calculations. This feature will be explained later.

2nd Water: When two different waters are used this feature allows you to “blend” both waters by percentage. For example, by putting a 20 in this field you are telling the program that you wish to get 20% of the second water and 80% of the primary water. This field is typically used for hot water.

Water Adjust: By entering standard of measure units of water or decimal thereof you can add water to the mix about to be batched. By putting a (-) negative symbol in front of the number entered you can deduct per yard above and beyond any other deductions, i.e., moisture probes.

Water Adjust feature is a global field. The value manually entered will remain until the operator changes the value or until the program has been terminated.

Example: If using yards a standard of measure, you can place a 3 in this field and you will get an additional 3 gallons per yard. If you place a -2 in this field, despite the moisture calculations you will take out 2 gallons per yard.

#Of Drops: This is an automatic calculation based on maximum size of load to be batched at one drop. If the maximum is exceeded then the program will automatically divide the batch size into two equal drops. If the drop is still too large in may be divided further into 3 equal drops and so on.

Batch Size: This is the size of the load about to be batched. The calculation is figured as such:
Qty Sold – Qty In Truck = Batch Size.

Tolerance Check: This field requires a check mark to be bypassed. There are very few reasons to bypass the Tolerance Check mode. When checked the program will not wait for any input from the operator to acknowledge out of tolerances of any materials. The program will simply continue batching.

Print: Placing a check in this box will cause the program not to print a delivery ticket or recordation.

Trim: Check this field if material trims are to be used for this particular load.

Trim: Clicking this button will take you into the Trim menu. There are six columns represented as follows:

Material: Each material is listed to be batched this load.

Amount: The volume of each material to be batched per yard or meter.

Trim: The amount of material to be added or deducted per yard of each material. By placing a positive value in this field the material weight desired will be increased by its batch unit this amount. By placing a negative symbol in front of this number will have the opposite effect. The total amount per yard or meter will be deducted.

Net: This is the sum or product of the newly adjusted amount.

Unit: This is not an adjustable field. This is the unit of measure for this material.

By: This is not an adjustable field. This informs you that the material is being altered either per yard / meter or by 100 weight of cement.

Once all adjustments are made to your satisfaction then select the **OK** button. If changes are not as intended then select the **Cancel** button.

Note: *The Trim menu is a global field for the particular job in which is used. If you wish not to trim for a particular load simply uncheck the Trim box.*

AX ByPass: There are four available admixtures by pass fields. Each one have their own pull-down menu. These fields are global. If you do not wish to use an admixture that has been set up in your mix design you can select it for by pass by entering the admixture into the field.

The six remaining buttons are used to determine how this load will be batched.

Start: Clicking this button will start the batching process without any further input from the operator.

Verify: Clicking this button will force the program to ask you to verify whether you wish to start the process or cancel. This feature is used primarily when an operator is getting acquainted to the batching process.

Demo: This button is used for demonstration purposes. When all the batch fields required are filled in then the batch will start without actually affecting the gates or solenoids on the plant. However, inventory and reports will reflect all demo batches as if they were live batches.

Manual: When setting up an automatic batch you may wish to see all the weight targets without actually having the computer opening the gates. In which case the program will wait for you to manually batch all the products on the screen for this load and will give you all the prompts as though the computer were actually batching. Once you have manually batched all the products you wish to be in the load you may click on **DISCH (F10)** to automatically discharge.

Semi-Auto: This feature is the same as above except the program will automatically batch all metered materials.

Test: This feature is only used in New York for state testing. Call factory for further details.

You may notice that some labels have an underscore below certain letters of that word. This meant to be used as a shortcut, (without the mouse). Hold down the **ALT** key and press the underscored letter and you will achieve the same results as if you had double clicked the button with the mouse.

Job

Scheduler

There are seven fields on the scheduler and an infinite amount of lines. They are listed as such:

Ship Date: This is the scheduled ship date.

Ship Time: This is the scheduled ship time.

YDS: This is the quantity ordered

BAL: This is the balance of the order. This is an automatic field. Qty Ordered – Qty delivered = Balance

Job: This is the assigned job number.

Sold To: This is to whom this job was sold to.

Ship To: This is to where this job has the concrete produced delivered.



NOTE: The scheduler highlights today's jobs with green color.

Job Maintain

Sort

As mentioned you can accumulate as many jobs as you wish. The header fields have certain features that may assist you in finding previous jobs. If you know the number or name of the job then you can alphabetize the **Job** column by clicking on the gray area around the word **Job**.

Query

If you only have a date range you are still able to narrow your search by using the added a **Query**, (search) button. If you are seeking a past job you will need to have an idea of the date in which the concrete was produced. Using the FROM and TO date fields will aid in finding the job. Simply insert the dates you think apply, if the job has been completed then check the **show finished jobs** box and then press the **Query** button. This will narrow your search.

Use the **Clear** button to delete the jobs you don't want any more.



NOTE: The program has no limit of Job data. Use Clear button to delete the useless job data once a year.

Job Edit

To add a job click on the **Add** button and a new window will appear titled Job. The following fields are listed in the **Job** menu as follows:

Job ID: This is an abbreviated code to use for quick reference in searching for this job in the future.



NOTE: You can leave this field blank, the program will assign a job id automatically. You can set up the initial job id at the TICKET->PRINT SETTING.

Acct: This is a pull-down window that derives information from the customer data base to be discussed later.

Acct Type: This field is automatically filled based on information from the customer data base

Project: Contractors may insist on certain unalterable mixes for their concrete projects. When a project code is assigned to a mix, then only that mix can be used for this job. The search field will only display mixes with the corresponding projects.

Project #: This field is used for reference only. This number may be printed on the delivery ticket.

Ship Date: This field will automatically default to today. If you wish to change the date then click on the pull-down menu to display a calendar and make the appropriate changes.

Required Time: Same as above

PO#: Purchase Order number, if used by customer.

Slump: This field is used for printing purposes only. Entering a slump value in this field has no effect on the actual slump of the concrete associated with this job.

Tol Check: Some jobs may involve less than perfect concrete and tolerance errors may not be critical. If you are having problems with a gate being inconsistent and are batching a slurry mix for a filler job you may not wish to be notified for every out of tolerance. Simply put a check in this box and the program will continue to batch regardless of out of tolerance errors.

Order Date: Same principle as ship date.

Next Load Time: This is the time the next load is expected at the job site. The information here determines where on the scheduler this job is placed.

Ordered By: This field may be used to enter the customer or person responsible for ordering the concrete to be delivered.

Time Apart: This field represents minutes apart for each load to be delivered. This also represents where and when it will appear on the scheduler.

No Tax Of: This is a portion represented by percentage of total per yard cost that is to be without tax.

Sold To: This field is automatically filled in once the Acct field has been entered. If the customer is not in the data base then that customer must be added manually.

Ship To: This field represents where the concrete is to be delivered.



NOTE: For the long term job, you can set up the default ship to address to the customer, so that the ship to information will pop up automatically when you select the customer.

Product: This first field is reserved for concrete only. This field also has a pull-down menu. If the product is not in the data base then it must be added here manually.

Description: Once the **Product** field has been entered this field will automatically be filled in unless the product does not exist in the data base in which case must be added manually.

Unit: Once the **Product** field has been entered this field will automatically be filled in unless the product does not exist in the data base in which case must be added manually.

Quantity: This field represents the quantity of product PER LOAD to be shipped.

Price: Once the **Product** field has been entered this field will automatically be filled in unless the product does not exist in the data base in which case must be added manually.

Taxable: Once the **Product** field has been entered this field will automatically be filled in unless the product does not exist in the data base in which case must be added manually.

Amount: Once the **Product** field has been entered this field will automatically be filled in unless the product does not exist in the data base in which case must be added manually.

Comment: This area has been reserved for any comments that you may wish to convey to the mixer driver, delivery instructions or to the recipient of the concrete. If this field is set up to print on tickets then this comment field will be printed on all tickets.

Qty Ordered: Total amount of concrete ordered for this job.

Qty To Date: Total amount of concrete delivered to the job.

Sales: the name of the sales man who gets the order.

Sub total \$: This is a total money amount of all products on the ticket less the tax amount.

Qty Today: This is the total amount of product delivered TODAY.

Today Amt\$: This is the total money amount of product delivered TODAY.

Pour Time: This is the total amount of time a mixer truck can be on site unloading before the customer incurs additional charges.

Tax %: This field is automatically filled in by the customer data base. If none exist then you can manually place a value in this field.

\$: This field represents the money value of the tax amount.

Truck#: Enter the truck number of the mixer truck to deliver this load.

Driver: If the mixer profile is set up then the mixer operator name will automatically appear. If not, then you must manually enter the name of the mixer driver.

Qty In Truck: If a balance of concrete from a previous delivery is in the mixer to be loaded enter that amount here and it will be compensated from the batching process however, will give you a delivery ticket showing full amount ordered.

Print: If unchecked the job will not print any delivery or recordation. However, the data will still be stored and readily available to be viewed or printed at a later time.

Total: This field represents the gross total of this delivery.

Truck Weight: Not in use.

OK: Upon entering correct data in all fields then press the **OK** key to place this job on the scheduler.

Cancel: If the information is incorrect and you wish to start again or omit from the scheduler then press the **Cancel** button.

One you have clicked on **OK** for a new job then you can click on the Batch icon and you will automatically be sent to the **Batch** screen.

To remove a Job simply select the job to be remove, make sure the entire line is blue in color then click on the **Remove** button.

To see the properties of a previously batched job or on going job then click on the job line and click on the **Property** button. This will bring up the Job window containing all data of that particular job.

Mix

Once selecting this tab you will find three different windows. Mix Design, Parameters and Material windows. They will be explained as follows:

Mix Design

There are three fields in this menu:

Code: This is an abbreviated name for the mix design or product for quick reference.

Project: Contractors may insist on certain unalterable mixes for their concrete projects. When a project code is assigned to a mix, then only that mix can be used for this job. The search field will only display mixes with the corresponding projects.

Description: Use this field to describe to your customer what exactly it is being delivered. Whatever is put in the description field will be printed on the delivery ticket.

There are two buttons at the bottom of this menu. The **Remove** button will remove the highlighted mix design. The **Save** button will save a recently entered mix design.



Note: There is virtually unlimited space for mix designs.

Parameters

In this menu there are two columns: Parameter and Value. They will be explained as follows:

Unit: Your choice of YDS or M3.



Note: If you want to make a metric mix design, you must put M3 as the unit.

Price 1: General price per yard or meter of concrete.

Price 2: Special price per yard or meter of concrete.

Price 3: And yet a really special price for a yard or meter of concrete.



Note: Customer price code decides which price is selected for an order.

Not Tax Of: This is the amount of a yard or meter of concrete delivered that is not taxable.

Tax: Select either Y for yes if this product is taxable or N for no if it is not.

Max Drop Size: This is the maximum yardage or meter of this mix design that either weigh batcher can manage.

Mixing Time: This is the maximum amount of mixing time for this mix.

Accounting Code: This is used for accounting interface.

Materials

This menu has four columns labeled as follows:

Material: There is a pull-down menu from the data base in the Material tab that you can select materials to be batched. Remember the first material of that is weighed in a particular scale the first material weighed.

Amount: This is the amount of this particular material per yard or meter to be weighed.

By %: This field is typically used by admixture. Placing a Y in the field will cause the admixture to be metered by cement weight otherwise ounces, gallons per yard.

Unit: This is unit of measure, i.e., gallons, oz, lbs.

Change Material Name: You would use this if you wanted to change any particular material name from one name to another name. Executing this feature will change all the mix designs to reflect the new name.

Material

This tab contains two windows. The Material Type and Material windows are explained as follows:

Material Type

This is a pull down window with two options, Weighed or Metered.

Weight material

This menu has ten columns of information. Weighed material is as listed:

Name: Enter the name of the material, usually in bin number one.

MST: In this column you can manually enter a fixed moisture value for this material. This value will remain until changed by the operator.

BIN: This is the overhead bin or storage silo number, as wired by the technician. It is possible for your plant to only have three aggregate bins but have up to 16 aggregates listed in this menu. Simply give the bin number to the specialty aggregate. When the mix design "sees" that material the program then looks for the bin number assigned to determine which bin to open for weighing.

Begin Date: Once a balance is put in this field a date will be stamped automatically. This date will be used to establish a history of reports. This will be explained in more detail later in this manual.

Beginning Balance: This represents the inventory at the time of the installation of the batching system to start tracking materials. Point and click on the **Set Beginning** button. A small window will appear.

Enter New Beginning Balance: Enter your current inventory in this field.

Shipped In: Once the Beginning Balance has been set there is no need to update that field when new material arrives. Point and click on the material that requires inventory update. Now point and click on **Ship In**. A small menu will appear titled **Ship In**.

Material: This field displays the material that is to be updated. If the incorrect material appears then click cancel and point and click on the appropriate name.

Quantity: Enter the quantity of material delivered. Enter the inventory weight as established in the **Detail** menu of that product.

Supplier: Enter the name of the supplier of the material being delivered. This is for reference only.

Truck: In this field you can enter the truck number of the hauler. This is for reference only.

Hauler: Enter the name of the company hauling the material to your site or the name of the company supplying the material. This is for reference only.

Ticket: Enter the ticket or bill of lading.

Delivery: This field defaults to current date and time of material being entered. If you are entering a list of tickets at the end of the day then you can change this field to reflect the correct date and time of delivery.

When all data has been recorded then point and click on the OK button.

Total Usage: This field reflects the total usage of this material since the Begin Date. If you wish to have this field reset then reenter the **Begin Balance**. Today's date will appear in this field and the usage will be set to zero.

Usage Today: This reflects usage of this material since midnight this morning. This field will reset every night at midnight.

Current Balance: This field reflects the current balance of this material.

Supplier: This field is updated by the **Ship In** information.

Set Begin: Click here to enter your beginning balance.

Ship In: As described above

Add: Click here to enter a new material to be monitored by the batching computer. A window will **Detail** window will appear. Enter the following details to assure proper batching of this material.

Name: Enter the name of the unique name of this material. This name will be used by other parts of the program such as **Mix** designs, bin assignments, **Reports**, etc.

Bin ID: Enter the storage bin or silo number assigned to this material during the installation of the system.

Auto Cut Off: This feature is more of an "auto pilot" control. You must first manually adjust the cut off numbers get the system batching, (weighing up the material), as desired. Then the switch this feature on and the program will continue to maintain an efficient weighing process.

Type: Select from the pull-down menu the type of material you are setting up. This information will be used to determine metering and discharging of liquid products.

Fast Cut Off: This feature is used when two or more bins or silos of the same product are weighed simultaneously. The number put in this field is in weighing units, (lbs or meters) and will be the weight point that all gates opened will be shut and only the primary gate will reopen to finish the weighing process.

Tolerance: This value represents the % of allowable overage or under batch the program will allow without the need for an **OVRD** prompt.

Slow Cut off: This is the free fall compensation value. This number represents the weight in weighing units the gate will shut prior to the target. The program will check to see if reopening or jogging is required. If not, the program continues to the next material.

Scale Settling Time: This is the time in seconds the weigh scale will allow the scale to settle from initial weight shock of the material falling into the scale.

Small Cut Off: This is the free fall compensation value for small loads. Go to **Utils / Operation Parameters, Small Load Size**. This number represents the weight in weighing units the gate will shut prior to the target. The program will check to see if reopening or jogging is required. If not, the program continues to the next material.

Auto Jog: If this feature is selected the program will learn to jog appropriately.

Specific Gravity: Not currently available.

Jog Open Time: This is the amount of time in seconds; an electrical pulse of approximately 115VAC is applied to the solenoid attached to the cylinder associated with the bin or silo of this material. The following is explained in such detail so you will not be confused by this feature and "gate open time." To say this feature keeps the gate open this many seconds is to say a golfer should hit a hole-in-one every time after his first hole-in-one.

Inventory Unit: This is the unit of measure for tracking inventory. This number does not have to be the same as the weighing unit. Example: inventory in tons and batch in pounds.

Jog Close Time: This is a little confusing. This is not the amount of time in seconds the system shuts the bin or silo gate. The system can only open the bin or silo gate. The system does not shut and cannot shut the bin or silo gate. This field represents in seconds how much time there should be between the jog open signals.

Alarm Level: This is the weight in **Inventory Units** a low inventory message appears on the screen.

Min. Flow Rate: This feature is currently not in use.

Alarm On: This feature works with the **Alarm Level**. Check this feature and enter a low level amount in the **Alarm Level** to be warned of low levels of this material.

Small Jog Open: This represents time in seconds how long a small jog is to be, if needed. The small jog is determined by the settings of the **Small Load Size** in the **Utils / Operations Parameters**.

Aeration Cut Off: This is the point at which the cement aeration, in pounds or kilograms short of the target the aeration will cut off.

Max. Amount In Mix Design: This field is just for protection only. This is the greatest value in weighing units that can be batched in one drop from the bins or silos.

Manual Batch: This is a unique feature that you can use to inventory and monitor products that are not electrically connected to the batching system. Example: You may have a material bin of special aggregate that is not hooked up to the plant. You can enter this material in mix designs and when you batch the mix the program will show you the exact amount of this material to be used based on batch size. Also, this amount will be deducted from the inventory of this material.

Show Balance: Check here if you want your material balance to be displayed for this material on the batch screen while batching in automatic.

Moisture Amount: This is a fixed value, in percentage that the program will compensate for moisture. This is a global field so this value will not change until you change it.

Auto Moisture: Point and click on this button if you are using a moisture probe with a 0-10VDC output and wish the computer to compensate automatically.

Auto Moisture Setting:

Auto: Place a check in this box to indicate to the computer that there is an auto moisture gauge present.

Auto Moisture: This value is the moisture percentage last compensated for automatically.

Delay Seconds: Some moisture probes mount under the bin gate and in the weigh batcher. If yours is installed this way then you will need to allow enough time for the bin to open and the first few pounds of material to wipe off the face of the probe. Usually a half to whole second is used. If an in the bin probe is used then leave this value at zero.

Min. Weight: Some moisture probes mount under the bin gate and in the weigh batcher. If yours is installed this way then you will need to allow enough time for the bin to open and enough volume of material to flow across probe to allow the probe to take several samples. Usually a ton is adequate for this procedure. If an in the bin probe is used then leave this value at zero.

Min Moisture: Some moisture probes mount under the bin gate and in the weigh batcher. If yours is installed this way then you will need to allow enough time for the bin to open and the first few pounds of material to wipe off the face of the probe. Usually a half to whole second is used. If the moisture value measured is not at the minimum level then the program will use the last good reading above minimum level and below maximum moisture level was obtained. A typical setting is around 2.00%

Max Moisture: Some moisture probes mount under the bin gate and in the weigh batcher. If yours is installed this way then you will need to allow enough time for the bin to open and the first few pounds of material to wipe off the face of the probe. Usually a half to whole second is used. If the moisture value measured is not at the minimum level then the program will use the last good reading above minimum level and below maximum moisture level was obtained. A typical setting is about one percent higher than the maximum you would batch this material at.

Note: *If no auto moisture probe is used it is important that the Max Moisture value is set to zero.*

Absorption: If the moisture probe is currently set up to account for absorption, then leave this value at zero. Otherwise, enter absorption value.

Detail: See **Add** above.

Remove: To remove a material point and click on the material you desire to delete. Point and click on delete button and the entire line will disappear.

Ship In History: See **Ship In** description above.

Metered: The Metered material has eight columns as listed:

Name: As described in the Weighed material screen.

Pump: This is the admixture pump number, as wired by the technician. It is possible for your plant to only have three admixtures but have up to 16 admixtures listed in this menu. Simply give the pump number to the specialty admixture. When the mix design "sees" that material the program then looks for the pump number assigned to determine which pump to operate to dispense.

Begin Date: As described in the Weighed material screen.

Begin Balance: As described in the Weighed material screen

Shipped In: As described in the Weighed material screen

Total Usage: As described in the Weighed material screen

Usage Today: As described in the Weighed material screen

Current Balance: As described in the Weighed material screen

Set Begin: As described in the Weighed material screen

Ship In: As described in the Weighed material screen

Add: See Detail description below.

Detail: As described in the **Add** section of the **Weighed** material screen

Mater Material

This menu has nine columns of information. Metered material is as listed:

Name: As described in the Weighed material screen.

Pump: This is the admixture pump number, as wired by the technician. It is possible for your plant to only have three admixtures but have up to 16 admixtures listed in this menu. Simply give the pump number to the specialty admixture. When the mix design "sees" that material the program then looks for the pump number assigned to determine which pump to operate to dispense.

Begin Date: As described in the Weighed material screen.

Begin Balance: As described in the Weighed material screen.

Shipped In: As described in the Weighed material screen.

Total Usage: As described in the Weighed material screen.

Usage Today: As described in the Weighed material screen.

Current Balance: As described in the Weighed material screen.

Set Begin: As described in the Weighed material screen.

Ship In: As described in the Weighed material screen.

Add: As described in the Weighed material screen.

Detail: As described in the Weighed material screen.

Name: As described in the Weighed material screen.

Pump ID: This field is used to identify which pump this product will be dispensed from. This information is obtained from the admixture technician.

Auto Cut Off: If the liquid product continuously over batches you may enter the amount of overage in units of metering to prevent future over batching. Some Sysdyne units, depending upon software version will automatically fill in this amount.

Material Type: As described in the Weighed material screen.

Tolerance: As described in the Weighed material screen.

Max.AMT.In Mix: As described in the Weighed material screen.

Batch Start: Select the point of the batching process that you wish to start metering any liquid controlled by the program.

Batch Unit: Select the unit of measure for this product in the batching process.

Batch Delay: With this feature you may delay the start batching of this product in seconds.

Meter Rate: The meter rate for this admixture will be supplied by the technician. The meter rate is one pulse equals X ounces, milliliters, liters or gallons.

Discharge Start: Select at which point you desire this product to be discharged from the bottle or container it has metered into.

Metric Batch Unit: In the event you may wish to change the batching measures to metric please indicate what the metric batch unit is to be by selecting from the pull-down menu.

Discharge Delay: This feature is only used for "bottled" products. You may wish to delay this product discharge, in seconds, from the bottle. Note: If this product is an admixture and you wish to delay the discharge you must put the same delay for admixtures 1, 2 and 3, (group a). You must also do the same for 4, 5 and 6, (group b).

Spec. Gravity: As described in the Weighed material screen.

Min. Flow Rate: As described in the Weighed material screen.

Inventory Unit: As described in the Weighed material screen.

Man Batch: As described in the Weighed material screen.

Alarm Level: As described in the Weighed material screen.

Bottle: Check this box only if the admixture is dispensed from a bottle type container. Leave this box unchecked if the admixture / water are metered directly into the truck or scale.

Alarm On: As described in the Weighed material screen.

Remove: Use this button to delete a field from the delivery ticket. point and click on a line to be edited. The line will change to a blue color. Click on **Remove**.

Utilities

This is the area in which scale parameters are set.

Scale List

Scale 1

Aggregate scale parameters.

Scale 2

Cement scale parameters.

Scale Setting

Name: Enter the name of the scale, agg or cem.

Unit: Enter the weighing units from the pull-down menu.

Capacity: Enter the gross capacity of the scale.

Max. Load: Enter the maximum working load of this scale.

Graduation: Enter the scale increments or graduations for this scale.

Motion Width: Not used

Start Tare: This is the amount of product or material in weigh units that can remain on the scale and still allow you to start a new load or batch without a tare error.

Disc. Tare: This is the amount of product or material allowed to remain in the scale after the computer has attempted and unsuccessfully tried to empty.

Settling Time: This is the amount of time in seconds the scale will be allowed to settle before moving on to another product to be weighed in the same scale.

Disc. Close Delay: This is the amount of time in seconds the batcher gates will open as wide as possible after the scales have discharged completely or reached the discharge tare amount.

Disc. Gate Type: There are two types of discharge gates. One is a single acting solenoid in which a constant open signal needs to be provided. The other is a double acting solenoid in which case requires a close signal.

Note: *entering a 1 in this field means you are using a single solenoid. This arrangements offer no control over the discharge of this product. Entering 2 in this field represents a double acting solenoid.*

Adj. Tolerance: This is the amount in percent that the desired flow rate can deviate from the target flow rate without the program forcing a change in the gate status.

Flow Rate Average: The flow rate average is taken every one second. It takes 10 samples every second. Therefore, if you have a 20 in the flow rate average the program will not update for two seconds, if needed.

Open/Close Duration: This is that amount of time in seconds the batcher gate will have signal on the solenoid that opens and closes this gate.

Vibration On: Enter the weight in weigh units in which the vibrator is to be energized.

Discharge Open: Enter the time in seconds in which the discharge gate will remain open after the scale has reached the Discharge Tare weight or zero.

Metric Graduation: This field is for the metric scale graduations.

Metric Unit: This is metric weighing unit value.

Metric Start Tare: This is the amount of product or material in metric weigh units that can remain on the scale and still allow you to start a new load or batch without a tare error.

Metric Disc. Tare: This is the metric amount of material allowed to remain in the scale

Calibration: This field is not a user-editable field. The numbers displayed in the area are part of an algorithm sequence to determine whether the program is receiving input from the digital readouts.

Zero Offset: This field is part of the same algorithm mentioned above. This is not a user-editable field.

Zero: This feature is used to zero the computer together with the digital scale readouts. Before using this feature insure the scales are sitting on zero.

Span: When using this feature the first small window to appear will ask you to enter weight on scale.

Enter Weight On Scale: Put approximately $\frac{1}{2}$ of the scale capacity into the scale. Allow the scale to settle for several seconds. Then enter the exact reading from the digital scale readout and click on the **OK** button.

Calibration: This feature is used to do a complete calibration of the computer to the digital scale readouts. When you click on this button the next window will be:

Enter New Graduation: Enter the graduation or increments desired for scale reading.

Setting Zero, Ready? Check the digital scale indicator for any bounce in the scale. If a solid zero is read then click on **Yes**

Enter Weight On Scale: Put approximately $\frac{1}{2}$ of the scale capacity into the scale. Allow the scale to settle for several seconds. Then enter the exact reading from the digital scale readout and click on the **OK** button.

Save: Once all features have been updated then press the Save button to save all changes.

Horn List

Horn Setting:

This menu contains settings for warning horns or alarms.

Delay: This field is for time in seconds to delay at the end of the auto batching cycle to sound the warning device.

Duration: This is the duration of time in seconds the warning device will be energized.

Save: Once all features have been updated then press the Save button to save all changes.

Hoist List

Hoist Setting

Top: This is the amount of time in seconds the hoist will remain in the "top" position.

Down: This is the amount of time in seconds the hoist will remain in the "down" position.

Save: Once all features have been updated then press the Save button to save all changes

Mixer List

Select which mixer parameters you wish to update by using the pull-down window.

Mixer Setting

PreMix Time: Not used.

First Mixing Time: Not used.

Mixing Time: Enter the time in seconds you wish the mixer to mix the load before prompting you to discharge.

Final Mixing Time: Not Used.

Top/Open Time: This is the amount of time in seconds the mix door will remain open or the mixer drum will remain fully tilted to allow the discharge of mixed materials.

Down/Close Delay: This is the amount of time in seconds the mixer will delay the "home" position signal.

Max. Mixing Time: This is the maximum amount of mixing time for any load.

Charging Rate: This is the rate in weighing units per pound the mixer will be loaded at.

Discharge Seq.: This is the discharge pattern preset in the Discharge Sequence menu

Save: Use this feature to save any changes made in this menu.

Operation Parameters

Max. Drop Size: This is the maximum of yardage or meters any one batch the plant is able to do.

Jog, If Less Than: This feature is useful for batching small loads that are difficult for the computer to handle quickly. By putting a yardage or meter amount here, Example: placing a 1 in this field, every batch 1 yard or meter and less will jog all the weigh to the target.

Weighed Water: Check this box if you have a weighed water system.

Water Holding Tank: Check this box if your plant has a water holding tank.

Drop Repeat Mode: Repeat mode 1: If the calculated drop size is larger than the maximum drop size that can be loaded by the plant (found in **UTILS** in the **Operation Parameters** menu), the computer automatically corrects the error condition by increasing the # of drop until the actual drop size is smaller or equal to the maximum drop size.

Repeat mode 2: The drop size is set to maximum drop size defined by the plant **UTILS**. Neither the #_OF_DROP, nor the QTY_SOLD has any effect. The computer will batch repeatedly, load after load, of the same mix and of the same drop size until it is stopped by activating a function key. Repeat mode 2 is designed basically for block plant, pipe plant or pre-cast plant applications.

Tolerance Mode: This field controls the way the weight tolerance is calculated. Difference base is used to derive the acceptable variation of target weight. The low and high limit of tolerance is calculated by multiplying the base with the percentage of tolerances. See the table below.

Tolerance Mode Selection:

1. 1. Tolerance is based on the percentage of the accumulated target weight of the material being batched.
2. 2. Tolerance is based on the percentage of the individual weight of each ingredient.
3. 3. Tolerance is based on the final accumulative target weight of all ingredients batched into the scale.
4. 4. Tolerance is based on the final accumulative target weight of all ingredients batched into the scale for aggregate scale. Tolerance is based on the individual weight of each ingredient does not override the looser tolerance for the ingredient batched prior to it.

NO Tax Amt. In Price: This field is used to exclude taxation of a percentage of the concrete price that may include delivery cost.

Default Disc. Rate: When no sequence number is used, then this will be the rated at which the material will attain.

Target On Net Weight:

Water Weight/Volume: The default value is a constant so just leave this field at 8.3, (8.3 lbs of water per gallon).

Number Of Scales: Enter the number of scales the computer is required to monitor.

Number Of Mixers: Enter the number of mixers the computer is required to monitor.

SemiAuto Meter Batch: This field is used to enable or disable the **SemiAuto** batch feature.

Run Mode: At this time it is necessary for the **Run Mode** to be set to **Normal**.

Plant Name: This field is for the Plant Name that may be used to identify the system via network or internet.

Plant Code: This is code or plant ID number. This ID number may be printed on the delivery ticket if your company has more than one plant.

Small Load Size: This value is yards / meters or any part thereof. Put the smallest size load that the program can quickly and accurately weigh. Any size load this value or smaller yet larger than the **Jog, If Less Than** value will use small load parameters.

Save: Use this feature to save any changes made in this menu.

Printer Setup

Name: This is the printer name to be selected from a pull-down window. This setting will typically be LPT1 for the delivery ticket..

Type: This is the printer type to be selected from a pull-down window.



NOTE: If you use a printer supported by Windows Operation System to print report, the Type is Windows Graphic Printer.

Parameter: This field is not used when using a parallel printer. If using a serial printer then enter baud rate.

Form: This is the form length of the delivery ticket or report paper.

Report: Select Y for yes from the pull-down window if this printer is to print reports.

Ticket: Select Y for yes from the pull-down window if this printer is to print delivery tickets.

Record: Select Y for yes from the pull-down window if this printer is to print recordation.

Init_String: Not used.

Diagnose

Click the Diagnose button to bring up the board level diagnosis information to help you fix the problems.

Dos Data

Click the Dos Data button to import the dos data from your old dos sysdyne batching system.

Charge

Truck Charge: This is the mixer truck charging profile. Each truck will have its individual charge rate and may be updated after every batch.

Truck: Enter the mixer truck number.

Seq. #: Enter the Scale Discharge Sequence number. (99% of users have only one sequence number. It is usually 1).

Charge Rate: This field will automatically be updated after every automatic batch loaded into this mixer truck.

Drum Capacity: Enter the mixer drum capacity. This amount is stated in yardage.

Driver: Enter driver's name or any identifiable number.

Remove: Use this button to delete a field from the delivery ticket. point and click on a line to be edited. The line will change to a blue color. Click on **Remove**.

Save: Once all features have been updated then press the Save button to save all changes.

Scale Discharge Sequence

Name: Sequence number

Scale: ID number from configuration menu, not available to end user. This field will be typically set to Scale #1.

Delay: This is the time in seconds the scale 1 discharge will delay in order to get more head water.

W/Water: Selecting Y for yes to this field will allow water and scale 1 to discharge at the same time.

Wash Start: Put the percentage amount of scale 1 already discharged before the wash water may begin. The typical setting here is 99.

Wash Qty. this is the fixed amount in meter units that will be held back for wash water.

Wash %: This is the fixed percentage of water to be held back for wash water.

Scale Discharge: This will be scale 2 – 8 settings. All materials discharged are based on Scale 1 discharge.

Scale: Select the scale from the pull-down window that you wish to set the parameters for.

Start: This is based on percentage of scale 1 already discharged. Insert at what percent of scale 1 already discharged do you want this scale to begin discharging. Typical range is 5-20%.

Finish: Based on scale 1, select the percentage of material left on scale 1 do you want this scale to be finished loading. Typical range is 5-20%.

W/Water: Select from the pull-down window whether you wish water to begin or remain loading while this scale is open. Typically on dry batch plants water and cement are not set to go together.

Remove: Use this button to delete a field from the delivery ticket. Point and click on a line to be edited. The line will change to a blue color. Click on **Remove**.

Save: Once all features have been updated then press the Save button to save all changes.

Customer

Name: This is the customer's name as it will be printed on delivery tickets and other reports.

Account: This field is an alpha-numeric. Enter the customer account number you wish to use. This will be the account number printed on the delivery ticket and other reports.

Telephone: Customer's telephone number.

Address: This field is reserved for the customer's billing address.

Add: Point and click on this button to add a new customer to your database.

Acct Code: Enter the customer's account code

Acct Type: Enter the customer's account type, i.e., Open, C.O.D., Cash.

Name: Enter the customer's name.

Tax Rate: Enter the customer's sales tax rate percentage.

Credit Limit: This feature is used to remind the batchman that this particular customer has exceeded a preset credit limit. The program will automatically prompt the batchman when the open account amount reaches this amount.

Telephone: Enter the customer's telephone number.

Credit Used: This money amount in this field automatically accumulates unless this customer is on C.O.D. or cash only account status.

Address: Enter the billing address for the customer here.

Comment: This field is reserved special notes regarding this customer. This information will not be seen anywhere else in the program.

Ship To: This field is used to automatically fill in the Ship To: field on the delivery ticket. This is the address of where the concrete is to be delivered.

Remove: Point and click on a customer and then click on this button to delete the customer from the database.

Property: This button shows the filled in information as the **Add** button.

Print: Use this feature to print customer list.

Import ASC: When you select this feature a small window appears with the heading Customer Asc Import. This feature is for importing ASCII from different applications.

Asc Type: You have a pull-down window to select the type of ASCII application.

Asc File Path: This is the location of the ASCII file to retrieve.

Ticket

Date: Date of load delivery.

Time: Time of load delivery.

Job#: Job number of load delivery.

Ticket: Ticket number of job delivery.

Truck: Truck number used to deliver load.

Driver: Name of mixer driver whom delivered the load.

Sold To: To whom the load was sold to.

Ship To: To where the load was delivered.

Print: To print a duplicate ticket of a prior delivered load. You must point and click on the line of the load you wish to print. Once the line has changed to blue in color then you can point and click on the Print button to begin printing.

View: Pressing this button will cause a copy of the original ticket to appear.

Remove: If you wish to remove a load record then follow the same procedure used to print but click on remove instead. Caution, once deleted the record cannot be retrieved.

TO and From Dates: This is a search feature to help narrow search parameters. Enter the earliest possible date of a load and then on the TO field enter the latest possible date of delivery and point and click on the **Query**. This will bring up all the loads between these two dates. If you are still unable to locate the load then simply broaden your search dates.

Clear: Once you have found what you are looking for you can click on **Clear** and the **Load Records** menu will be wiped clean.

Export ASC: This feature allows you to export an ASCII formatted information. You simply put in the **From** date and the **To** for the information you wish to send and then show the **ASCII File Path**.

ASC Format: This function is for batch ticket exporting in an ASCII file. You have a pull-down window with options for:

ASC Ticket: For export of ticket files

ASC Item: For importing Mix files

ASC Customer: For importing Customer files.

Ticket Format: This menu is used to align data with different style tickets. These fields are aligned by:

Line: This is the line number the data will be printed on. Typically, on an 11" page there are 66 lines.

Column: This is the column number the data will start printing in. Typically on an 8 1/2" wide paper there are 80 columns.

Field: This is the information that will be printed in the column and on the line stated above.

Type: there are several types of fields all of which have the type pre-selected in the Insert Variable list.

Length: This is the longest length of the data required for this field. All characters must be counted. For example, to insert the date, you must count the numbers day, month and year, then you must count the colons between the day month and year. So your total length for 01:01:1999 will be 10.

Ticket Length: This represents the number of lines the delivery ticket portion of the page will use. The next line after the **Ticket Length** stated will be where the recordation starts printing.

Insert Literal: If you wish to print a field that is not listed in the Insert Variable then you can do so with this feature. The following fields listed in this menu are:

Line: Line number as described above.

Column: Column number as described above.

Field: Type the word or words you wish to appear on your delivery ticket.

Insert Variable: This is a list of pre-selected variables that may be printed on your delivery ticket. The following fields listed in this menu are:

Line: Line number as described above.

Column: Column number as described above.

Field: (pull-down menu), showing all available pre-selected fields. Scroll through the list of fields until you find the one that suits your needs then click on that field. The new field will appear on the line.

Type: left blank

Length: Insert the length of the field as described earlier.

Fraction: If a number is to be used for the field selected then you must indicate how many decimal places beyond zero you want to print. Example, for dollar amounts you will set the Fraction to 2 so that the cents will be displayed.

When all is correct then select **OK** and continue, if the change is no longer desired then click on **Cancel**.

Edit: Use this feature to Edit the current ticket shown on the left. Simply point and click on a line to be edited. The line will change to a blue color. Click on Edit

Remove: Use this button to delete a field from the delivery ticket. point and click on a line to be edited. The line will change to a blue color. Click on **Remove**.

When all changes are made to your satisfaction then click on OK to exit.

Print Setting: Use this menu for the following features:

Delivery Ticket: Check this box if you want to print delivery tickets for every batch.

Ticket Number: Insert the ticket number you wish to start printing on the next delivery ticket.

Job Number: Insert the next Job Number to be printed on the next delivery ticket.

Ticket Message: Insert a message here you wish to be printed on your delivery Ticket. This field must be set up in the **Ticket Format** menu.

Recordation: Leave this field at its default value.

Limits: Check here if you wish to print the limits of each materials target tolerance on the recordation portion of the ticket.

Mix: Check here if you wish to print the mix design weights on the recordation portion of the ticket.

Start Tares: Check here if you wish to print the weight already on the scale prior to loading this mix on the recordation portion of the ticket.

Trims: Check here if you wish to print the any trims to the original mix design on the recordation portion of the ticket.

Discharge Tares: Check here if you wish to print the amount of material left in the scale after the batch has been loaded in the mixer on the recordation portion of the ticket.

Targets: Check here if you wish to print the mix design target weights on the recordation portion of the ticket.

Batch Weights: Check here if you wish to print the recordation data on your delivery ticket.

Report

This menu will give you a history of batched loads in several varieties. You can sort by the following fields:

Total: This report will relate more to Totals.

Date: Date of load.

Time: Time of load.

BAT#: Batch number.

DROP#: Drop number of a multiple drop load.

M: Manual batch.

TKT#: Ticket number.

Truck: Truck number

Mix: Mix ID or code.

Mixer: Mixer number or code.

DiscTime. Time of batching discharge complete.

Temp: Amount of temper water added to load.

Job: Job number, name or code.

Account: Account number, name or code.

Customer: Customer name, number or code.

Mix: This report will relate more to Mix features.

Date: Date of batch.

Time: Time of batch.

BAT#: Batch number.

DROP#: Drop number of a multiple drop load.

M: Manual or automatic batch.

TKT#: Ticket number.

Truck: Truck number.

Mix: Mix ID.

Mixer: Mixer number

Disc Time: Time at completion of batch discharge.

Temp: Amount of temper water added to load.

Job: Job number, name or code.

Account: Account number, name or code.

Customer: Customer name, number or code.

Job: This report relates mostly with Jobs.

Date: Date of Job.

Job: Job name, ID or code.

Acct: Account number, name or code.

Customer: Customer name, number or code.

Sold: Yards or meters sold during this period.

Prod: Yards or meters produced during this period.

Open: Value of concrete sold on open accounts during this period.

Cash: Amount of cash taken in during this time period.

Tax: Amount of tax on concrete sold during this period.

Total: Total money amount of concrete sold during this period.

Load: This report relates mostly with Loads.

Date: Date of load.

Time: Time of load.

BAT#: Number of batched loads during this period.

DROP#: Number of drops for this period.

M: Manual and automatic batches during this period.

TKT#: Ticket numbers of batches for this period.

Truck: Loads on this truck during this period.

Mix: Number of loads of this mix during this period.

Mixer: Mixer number.

Disc Time: Time at the end of discharge for this load.

Temp: Temper water added.

Job: Job number, name or code.

Account: Account number, name or code.

Customer: Customer number, name or code.

Customer: This report relates mostly with Customers.

Date: Date of batch.

Acct Code: Account name, number or code.

Name: Customer name.

Acc Type: Open or C.O.D., Cash sale.

Sold: Amount of concrete sold to this customer.

Prod: Amount of concrete produced for this customer.

Open: Money amount sold to this customer on an open account.

Cash: Cash amount of concrete sold to this customer.

Tax: Tax amount of concrete sold to this customer.

Total: Total amount of concrete sold to this customer.

Truck: This report mostly relates to Truck profiles.

Date: Date truck carried concrete.

Truck: Truck number, name or code.

Driver: Drivers name.

Sold: Amount of concrete sold and delivered by this truck.

Prod: Amount of concrete produced and delivered by this truck.

Open: Money amount of concrete delivered by this truck.

Cash: Cash amount of concrete delivered by this truck.

Tax: Tax amount on concrete delivered by this truck.

Total: Total amount of money earned by this truck.

Material Req.: This report relates to materials required for a given period of production.

Material: Material needed for this given period.

Unit: Unit of measure for this material.

Required: Amount of this material needed for this given period.

On-hand: Amount of this material on-hand.

Balance: Balance of this material needed for this period.

Plant Analyze: This report relates mostly to plant performance.

Material: Material being analyzed.

Since: Since the Beginning Balance date.

Target: Total of all this material batched during this period.

Actual: Actual amount of this material batched during this period.

% Variance: Percent of variance from the target for this material during this period of time.

Loads: Number of loads batched of this material for this period of time.

Under: Number of loads under batched during this period of time.

Over: Number of loads over batched during this period of time.

%OV: Percent of overage during this period of time.

Query: Use this feature to look up data during a given period of time based on the FROM date and TO date. Putting the desired dates in these fields and clicking on the Query button will give you the information you are looking for.

Print: Use this feature to print the displayed data.

TOTAL REPORT

SYSDYNE BATCHING SYSTEM		TOTAL REPORT		DATE:11-01-2005 PAGE: 1	
DATE	SOLD	PROD.	SUB_TOTAL	TAX	TOTAL
1-3-2005	73.00	72.00	6558.00	304.33	73.00
1-4-2005	54.50	54.00	4781.00	100.37	54.50
1-5-2005	29.00	29.00	2604.00	92.05	29.00
1-6-2005	24.50	24.50	2107.00	184.37	24.50
1-7-2005	115.50	107.50	10393.00	573.58	115.50
1-10-2005	94.00	92.00	8216.00	316.75	94.00
1-11-2005	56.00	54.50	3318.00	37.10	56.00
1-12-2005	53.50	49.50	4294.00	197.94	53.50
1-13-2005	118.00	115.50	8823.50	524.10	118.00
1-15-2005	29.00	28.50	2545.50	150.24	29.00
1-17-2005	9.50	9.50	919.00	0.00	9.50
1-19-2005	8.00	8.00	712.00	0.00	8.00
1-20-2005	14.00	14.00	1216.00	0.00	14.00
1-25-2005	7.00	7.00	616.00	53.90	7.00
1-26-2005	60.50	59.50	5432.00	354.38	60.50
TOTAL	746.00	725.00	62535.00	2889.11	746.00

CUSTOMER REPORT

SYSDYNE BATCHING SYSTEM			PRODUCTION REPORT			DATE: 11-01-2005		PAGE: 1	
DATE	ACCOUNT	NAME	TYPE	YD-SOLD	YD-PROD	OPEN	CASH	TAX	TOTAL
1-3-2005	HARRIS	HARRIS PRECAST	COD	18.00	18.00	0.00	1560.00	0.00	1560.00
1-3-2005	NORTHSHO	NORTH SHORE PA	COD	3.50	3.50	0.00	429.56	34.56	429.56
1-3-2005	AUGIE CA	AUGIE CARBONE	COD	1.00	1.00	0.00	182.70	14.70	182.70
1-3-2005	LOUIE	L & N CONCRETE	COD	1.00	1.00	0.00	180.53	14.53	180.53
1-3-2005	KCD	K.C.D. ENTERPR	NET	20.00	19.00	0.00	1783.50	143.50	1783.50
1-3-2005	STRAIGHT	STRAIGHT LINE	COD	8.50	8.50	0.00	831.94	66.94	831.94
1-3-2005	CBRO	CBRO11260, IN	NET	18.00	18.00	0.00	1520.00	0.00	1520.00
1-3-2005	CEDAR HI	CEDAR HILL MAS	COD	3.00	3.00	0.00	374.10	30.10	374.10
1-4-2005	KCD	K.C.D. ENTERPR	NET	7.50	7.00	0.00	755.82	60.82	755.82
1-4-2005	HARRIS	HARRIS PRECAST	COD	16.00	16.00	0.00	1424.00	0.00	1424.00
1-4-2005	CARBRO	CARBRO INDUSTR	NET	10.00	10.00	0.00	790.00	0.00	790.00
1-4-2005	CBRO	CBRO11260, IN	NET	17.00	17.00	0.00	1420.00	0.00	1420.00
1-4-2005	MELROSE	MELROSE CONST	COD	4.00	4.00	0.00	491.55	39.55	491.55
1-5-2005	STRAIGHT	STRAIGHT LINE	COD	11.00	11.00	0.00	1144.05	92.05	1144.05
1-5-2005	HARRIS	HARRIS PRECAST	COD	8.00	8.00	0.00	712.00	0.00	712.00
1-5-2005	CBRO	CBRO11260, IN	NET	10.00	10.00	0.00	840.00	0.00	840.00
1-6-2005	KCD	K.C.D. ENTERPR	NET	24.50	24.50	0.00	2291.37	184.37	2291.37
1-7-2005	JIM DAVI	ISLAND HARDSCA	NET	9.50	9.00	0.00	951.56	76.56	951.56
1-7-2005	TIGER MA	TIGER MASONRY	COD	4.00	4.00	0.00	448.00	0.00	448.00
1-7-2005	CBRO	CBRO11260, IN	NET	20.00	14.00	0.00	1720.00	0.00	1720.00
1-7-2005	GARRELLE	GARRELLE CONST	COD	7.00	7.00	0.00	685.13	55.13	685.13
1-7-2005	CARBRO	CARBRO INDUSTR	NET	10.00	10.00	0.00	790.00	0.00	790.00
1-7-2005	WARREN	WARREN	COD	4.50	4.50	0.00	527.44	42.44	527.44
1-7-2005	FANTASTI	FANTASTIC CONT	COD	9.00	8.50	0.00	880.88	70.88	880.88
1-7-2005	LOUIE	L & N CONCRETE	COD	8.00	7.50	0.00	843.90	67.90	843.90
1-7-2005	HARRIS	HARRIS PRECAST	COD	10.00	10.00	0.00	880.00	0.00	880.00
1-7-2005	KCD	K.C.D. ENTERPR	NET	23.00	23.00	0.00	2151.08	173.08	2151.08
1-7-2005	TED/BILL	MCCARTHY/BETZ	NET	8.00	7.50	0.00	756.90	60.90	756.90
1-7-2005	WHEELER	WHEELER CONTRA	COD	2.50	2.50	0.00	331.69	26.69	331.69
1-10-2005	F & F	F & F CONCRETE	NET	20.00	19.00	0.00	1827.00	147.00	1827.00
1-10-2005	CBRO	CBRO11260, IN	NET	27.50	27.50	0.00	2382.00	0.00	2382.00
1-10-2005	HARRIS	HARRIS PRECAST	COD	16.00	15.50	0.00	1424.00	0.00	1424.00
1-10-2005	SCINTA	SCINTA CONSTRU	COD	14.50	14.00	0.00	1387.65	111.65	1387.65
1-10-2005	CARBRO	CARBRO INDUSTR	NET	10.00	10.00	0.00	790.00	0.00	790.00
1-10-2005	CHRIS GI	CHRIS GILBRALD	COD	2.00	2.00	0.00	274.05	22.05	274.05
1-10-2005	BIG SPLA	THE BIG SPLASH	NET	4.00	4.00	0.00	448.05	36.05	448.05
TOTAL				390.50	379.00	0.00	36230.45	1571.45	36230.45

DRIVER REPORT

SYSDYNE BATCHING SYSTEM			DRIVER REPORT		DATE:11-01-2005		PAGE: 1
DRIVER	TRUCK	DATE	LOAD	SOLD	PROD.	AMOUNT	
ANDRE	43	1-4-2005	3	25.00	25.00	2132.00	
ANDRE	43	1-5-2005	1	8.00	8.00	712.00	
ANDRE	43	1-7-2005	3	15.50	15.00	1660.57	
	SUB TOTAL		7	48.50	48.00	4504.57	
FRANK	42	1-3-2005	1	8.00	8.00	680.00	
	SUB TOTAL		1	8.00	8.00	680.00	
JASON	44	1-7-2005	3	27.00	21.00	2500.38	
JASON	47	1-10-2005	2	15.00	15.00	1372.65	
	SUB TOTAL		5	42.00	36.00	3873.03	
LEVIN	48	1-3-2005	2	13.00	13.00	1254.10	
LEVIN	42	1-4-2005	1	8.00	8.00	712.00	
LEVIN	48	1-7-2005	4	35.00	35.00	2977.63	
LEVIN	47	1-10-2005	3	25.00	24.00	2269.00	
	SUB TOTAL		10	81.00	80.00	7212.73	
MIKE	44	1-3-2005	2	11.50	11.50	1142.96	
MIKE	44	1-7-2005	2	12.50	12.00	1284.34	
MIKE	44	1-10-2005	1	8.00	8.00	712.00	
	SUB TOTAL		5	32.00	31.50	3139.30	
WALTER	41	1-3-2005	4	23.00	22.00	2182.93	
WALTER	41	1-4-2005	4	21.50	21.00	2037.37	
WALTER	41	1-5-2005	2	21.00	21.00	1984.05	
WALTER	41	1-6-2005	2	22.00	22.00	2057.56	
WALTER	41	1-7-2005	3	25.50	24.50	2543.66	
WALTER	41	1-10-2005	3	16.00	15.50	1635.60	
	SUB TOTAL		18	129.00	126.00	12441.17	
WILL	42	1-3-2005	3	17.50	17.50	1602.34	
WILL	42	1-10-2005	3	30.00	29.50	2543.50	
	SUB TOTAL		6	47.50	47.00	4145.84	
		1-6-2005	1	2.50	2.50	233.81	
	SUB TOTAL		1	2.50	2.50	233.81	
TOTAL			53	390.50	379.00	36230.45	

JOB REPORT

SYSDYNE BATCHING SYSTEM			JOB REPORT			DATE: 11-01-2005		PAGE: 1	
DATE	JOB	ACCT	CUSTOMER	YD-SOLD	YD-PROD	OPEN	CASH	TAX	TOTAL
1-3-2005	HARRIS	HARRIS	HARRIS PREC	18.00	18.00	0.00	1560.00	0.00	1560.00
1-3-2005	NORTHSHOR	NORTHSHOR	NORTH SHORE	3.50	3.50	0.00	429.56	34.56	429.56
1-3-2005	AUGIE	AUGIE CAR	AUGIE CARBO	1.00	1.00	0.00	182.70	14.70	182.70
1-3-2005	LN CONCRE	LOUIE	L & N CONCR	1.00	1.00	0.00	180.53	14.53	180.53
1-3-2005	KENNY	KCD	K.C.D. ENTE	6.50	6.50	0.00	579.64	46.64	579.64
1-3-2005	STRAIGHTL	STRAIGHT	STRAIGHT LI	8.50	8.50	0.00	831.94	66.94	831.94
1-3-2005	KENNY 2	KCD	K.C.D. ENTE	13.50	12.50	0.00	1203.86	96.86	1203.86
1-3-2005	CBRO	CBRO	CBRO111260,	18.00	18.00	0.00	1520.00	0.00	1520.00
1-3-2005	CEDAR HIL	CEDAR HIL	CEDAR HILL	3.00	3.00	0.00	374.10	30.10	374.10
1-4-2005	KENNY	KCD	K.C.D. ENTE	1.00	1.00	0.00	176.18	14.18	176.18
1-4-2005	HARRIS	HARRIS	HARRIS PREC	16.00	16.00	0.00	1424.00	0.00	1424.00
1-4-2005	CARBRO	CARBRO	CARBRO INDU	10.00	10.00	0.00	790.00	0.00	790.00
1-4-2005	CBRO	CBRO	CBRO111260,	17.00	17.00	0.00	1420.00	0.00	1420.00
1-4-2005	MELROSE	MELROSE	MELROSE CON	4.00	4.00	0.00	491.55	39.55	491.55
1-4-2005	KENNY 2	KCD	K.C.D. ENTE	6.50	6.00	0.00	579.64	46.64	579.64
1-5-2005	STRAIGHT	STRAIGHT	STRAIGHT LI	11.00	11.00	0.00	1144.05	92.05	1144.05
1-5-2005	HARRIS	HARRIS	HARRIS PREC	8.00	8.00	0.00	712.00	0.00	712.00
1-5-2005	CBRO	CBRO	CBRO111260,	10.00	10.00	0.00	840.00	0.00	840.00
1-6-2005	KENNY	KCD	K.C.D. ENTE	24.50	24.50	0.00	2291.37	184.37	2291.37
1-7-2005	ISLAND HA	JIM DAVIS	ISLAND HARD	9.50	9.00	0.00	951.56	76.56	951.56
1-7-2005	TIGER MAS	TIGER MAS	TIGER MASON	4.00	4.00	0.00	448.00	0.00	448.00
1-7-2005	CBRO	CBRO	CBRO111260,	20.00	14.00	0.00	1720.00	0.00	1720.00
1-7-2005	GARRELLE	GARRELLE	GARRELLE CO	7.00	7.00	0.00	685.13	55.13	685.13
1-7-2005	CARBRO	CARBRO	CARBRO INDU	10.00	10.00	0.00	790.00	0.00	790.00
1-7-2005	WARREN	WARREN	WARREN	4.50	4.50	0.00	527.44	42.44	527.44
1-7-2005	FANTASTIC	FANTASTIC	FANTASTIC C	9.00	8.50	0.00	880.88	70.88	880.88
1-7-2005	LN CONCRE	LOUIE	L & N CONCR	8.00	7.50	0.00	843.90	67.90	843.90
1-7-2005	HARRIS	HARRIS	HARRIS PREC	10.00	10.00	0.00	880.00	0.00	880.00
1-7-2005	KENNY	KCD	K.C.D. ENTE	23.00	23.00	0.00	2151.08	173.08	2151.08
1-7-2005	MCCARTHY	TED/BILL	MCCARTHY/BE	8.00	7.50	0.00	756.90	60.90	756.90
1-7-2005	WHEELER	WHEELER	WHEELER CON	2.50	2.50	0.00	331.69	26.69	331.69
1-10-2005	F-F	F & F	F & F CONCR	10.00	9.50	0.00	913.50	73.50	913.50
1-10-2005	F & F CON	F & F	F & F CONCR	10.00	9.50	0.00	913.50	73.50	913.50
1-10-2005	CBRO	CBRO	CBRO111260,	27.50	27.50	0.00	2382.00	0.00	2382.00
1-10-2005	HARRIS	HARRIS	HARRIS PREC	16.00	15.50	0.00	1424.00	0.00	1424.00
1-10-2005	SCINTA	SCINTA	SCINTA CONS	14.50	14.00	0.00	1387.65	111.65	1387.65
1-10-2005	CARBRO	CARBRO	CARBRO INDU	10.00	10.00	0.00	790.00	0.00	790.00
1-10-2005	GILBRALDI	CHRIS GIL	CHRIS GILBR	2.00	2.00	0.00	274.05	22.05	274.05
1-10-2005	THE BIG S	BIG SPLAS	THE BIG SPL	4.00	4.00	0.00	448.05	36.05	448.05
1-11-2005	JACK	JACK ANTH	JACK ANTHON	9.00	9.00	0.00	0.00	0.00	0.00
1-11-2005	JACK	JACK ANTH	JACK ANTHON	9.00	9.00	0.00	0.00	0.00	0.00
1-11-2005	CBRO	CBRO	CBRO111260,	16.00	16.00	0.00	1392.00	0.00	1392.00
1-11-2005	HARRIS	HARRIS	HARRIS PREC	8.00	8.00	0.00	712.00	0.00	712.00
1-11-2005	CARBRO	CARBRO	CARBRO INDU	10.00	8.50	0.00	790.00	0.00	790.00
1-11-2005	KELLY BRO	KELLY BRO	KELLY BROTH	4.00	4.00	0.00	461.10	37.10	461.10
1-12-2005	KENNY	KCD	K.C.D. ENTE	6.00	6.00	0.00	737.33	59.33	737.33
1-12-2005				6.00	6.00	0.00	0.00	0.00	0.00
1-12-2005	FANTASTIC	FANTASTIC	FANTASTIC C	18.00	18.00	0.00	1722.61	138.61	1722.61
1-12-2005	HARRIS	HARRIS	HARRIS PREC	8.00	8.00	0.00	712.00	0.00	712.00
1-12-2005	CBRO	CBRO	CBRO111260,	15.50	11.50	0.00	1320.00	0.00	1320.00
1-13-2005	KENNY 1	KCD	K.C.D. ENTE	15.00	15.00	0.00	1435.50	115.50	1435.50
1-13-2005	JERRY CON	JERRY	JERRY CONWA	5.50	5.50	0.00	526.35	42.35	526.35
1-13-2005	PAT	CEDAR HIL	CEDAR HILL	5.00	5.00	0.00	435.00	35.00	435.00
1-13-2005	MEADOW EN	MEADOW EN	MEADOW ENVI	6.50	6.50	0.00	586.71	47.21	586.71

SYSDYNE BATCHING SYSTEM			JOB REPORT		DATE: 11-01-2005		PAGE: 2		
DATE	JOB	ACCT	CUSTOMER	YD-SOLD	YD-PROD	OPEN	CASH	TAX	TOTAL
1-13-2005	STEVE COR	CORY S.	STEVE CORY	7.00	7.00	0.00	654.68	52.68	654.68
1-13-2005	ISLAND HA	JIM DAVIS	ISLAND HARD	6.00	6.00	0.00	582.90	46.90	582.90
1-13-2005	PATRICK	PATRICK	PAT - HOME	7.00	7.00	0.00	664.00	0.00	664.00
1-13-2005	JERRY	FANTASTIC	FANTASTIC C	6.00	6.00	0.00	535.05	43.05	535.05
1-13-2005	KENNY 2	KCD	K.C.D. ENTE	15.00	15.00	0.00	1402.88	112.88	1402.88
1-13-2005	HARRIS	HARRIS	HARRIS PREC	12.00	10.00	0.00	540.00	0.00	540.00
1-13-2005	KARL	CARBRO	CARBRO INDU	10.00	9.50	0.00	790.00	0.00	790.00
1-13-2005	CBRO	CBRO	CBRO111260,	20.00	20.00	0.00	840.00	0.00	840.00
1-13-2005	KENNY	KCD	K.C.D. ENTE	3.00	3.00	0.00	354.53	28.53	354.53
1-15-2005	BILL	TED/BILL	MCCARTHY/BE	8.00	8.00	0.00	748.20	60.20	748.20
1-15-2005	PAT	CEDAR HIL	CEDAR HILL	5.00	5.00	0.00	511.13	41.13	511.13
1-15-2005	KENNY	KCD	K.C.D. ENTE	6.50	6.50	0.00	607.91	48.91	607.91
1-15-2005	CARL	CBRO	CBRO111260,	9.50	9.00	0.00	828.50	0.00	828.50
1-17-2005	RATTURA	VINNY RAT	VINNY RATTU	3.50	3.50	0.00	395.00	0.00	395.00
1-17-2005	HARRIS	HARRIS	HARRIS PREC	6.00	6.00	0.00	524.00	0.00	524.00
1-19-2005	HARRIS	HARRIS	HARRIS PREC	8.00	8.00	0.00	712.00	0.00	712.00
1-20-2005	HARRIS	HARRIS	HARRIS PREC	14.00	14.00	0.00	1216.00	0.00	1216.00
1-25-2005	KETCHUM F	KETCHUM F	KETCHUM FAR	7.00	7.00	0.00	669.90	53.90	669.90
1-26-2005	DIMENSION	DIMENSION	DIMENSION C	5.00	5.00	0.00	489.38	39.38	489.38
1-26-2005	F & F	F & F	F & F CONCR	40.00	39.00	0.00	3915.00	315.00	3915.00
1-26-2005	HARRIS	HARRIS	HARRIS PREC	10.00	10.00	0.00	880.00	0.00	880.00
1-26-2005	CBRO	CBRO	CBRO111260,	5.50	5.50	0.00	502.00	0.00	502.00
TOTAL				746.00	725.00	0.00	65424.11	2889.11	65424.11

LOAD REPORT

SYSDYNE BATCHING SYSTEM			LOAD REPORT			DATE:11-01-2005		PAGE: 1		
DATE	TIME	BATH#	DROP#	M	TICKET#	TRUCK	MIX	MIXER	DISCTIME	TAMP
	JOB#	ACCOUNT#	CUSTOMER	ACCT	YD-SOLD	YD-PROD	TAX	TOTAL		
01-03-2005	AM 09:43	39	1	A 2051	41	PRECAST	0	AM 09:52	0	
	HARRIS	HARRIS	HARRIS	HARRIS PREC	COD	0.00	0.00	0.00	680.00	
01-03-2005	AM 11:39	40	1	A 2052	44	4000	0	AM 11:45	0	
	NORTHSHOR	NORTHSHOR	NORTH SHORE	COD	0.00	0.00	34.56	429.56		
01-03-2005	AM 11:52	41	1	A 2053	42	3500	0	AM 11:56	0	
	AUGIE	AUGIE CAR	AUGIE CARBO	COD	0.00	0.00	14.70	182.70		
01-03-2005	PM 12:07	42	1	A 2054	41	3000	0	PM 12:09	0	
	LN CONCRE	LOUIE	L & N CONCR	COD	0.00	0.00	14.53	180.53		
01-03-2005	PM 01:02	43	1	A 2055	42	3000	0	PM 01:09	0	
	KENNY	KCD	K.C.D. ENTE	NET	0.00	0.00	46.64	579.64		
01-03-2005	PM 01:32	44	1	A 2056	41	3500	0	PM 01:49	0	
	STRAIGHTL	STRAIGHT	STRAIGHT LI	COD	0.00	0.00	66.94	831.94		
01-03-2005	PM 02:29	45	1	A 2057	48	PRECAST	0	PM 02:40	0	
	HARRIS	HARRIS	HARRIS PREC	COD	0.00	0.00	0.00	880.00		
01-03-2005	PM 02:48	46	1	A 2058	44	3000	0	PM 02:57	0	
	KENNY 2	KCD	K.C.D. ENTE	NET	0.00	0.00	57.40	713.40		
01-03-2005	PM 03:02	47	1	A 2059	42	PRECAST	0	PM 03:18	0	
	CBRO	CBRO	CBRO111260,	NET	0.00	0.00	0.00	840.00		
01-03-2005	PM 03:59	48	1	A 2060	41	3000	0	PM 04:06	0	
	KENNY 2	KCD	K.C.D. ENTE	NET	0.00	0.00	39.46	490.46		
01-03-2005	PM 04:09	49	1	A 2061	48	3500	0	PM 04:14	0	
	CEDAR HIL	CEDAR HIL	CEDAR HILL	COD	0.00	0.00	30.10	374.10		
01-03-2005	PM 04:23	50	1	A 2062	42	PRECAST	0	PM 04:33	0	
	CBRO	CBRO	CBRO111260,	NET	0.00	0.00	0.00	680.00		
01-04-2005	AM 09:40	51	1	A 2063	41	3000	0	AM 09:44	0	
	KENNY	KCD	K.C.D. ENTE	NET	0.00	0.00	14.18	176.18		
01-04-2005	AM 10:39	52	1	A 2064	43	PRECAST	0	AM 10:49	0	
	HARRIS	HARRIS	HARRIS PREC	COD	0.00	0.00	0.00	712.00		
01-04-2005	AM 11:33	53	1	A 2065	41	PRECAST	0	AM 11:45	0	
	CARBRO	CARBRO	CARBRO INDU	NET	0.00	0.00	0.00	790.00		
01-04-2005	PM 01:34	54	1	A 2066	43	PRECAST	0	PM 01:45	0	
	CBRO	CBRO	CBRO111260,	NET	0.00	0.00	0.00	840.00		
01-04-2005	PM 01:59	55	1	A 2067	41	3500	0	PM 02:05	0	
	MELROSE	MELROSE	MELROSE CON		0.00	0.00	39.55	491.55		
01-04-2005	PM 03:05	56	1	A 2068	42	PRECAST	0	PM 03:23	0	
	HARRIS	HARRIS	HARRIS PREC	COD	0.00	0.00	0.00	712.00		
01-04-2005	PM 03:26	57	1	A 2069	41	3000	0	PM 03:34	0	
	KENNY 2	KCD	K.C.D. ENTE	NET	0.00	0.00	46.64	579.64		
01-04-2005	PM 03:37	58	1	A 2071	43	PRECAST	0	PM 03:45	0	
	CBRO	CBRO	CBRO111260,	NET	0.00	0.00	0.00	580.00		
01-05-2005	AM 08:47	59	1	A 2072	41	3500	0	AM 09:01	0	
	STRAIGHT	STRAIGHT	STRAIGHT LI	COD	0.00	0.00	92.05	1144.05		
01-05-2005	AM 10:08	60	1	A 2073	43	PRECAST	0	AM 10:18	0	
	HARRIS	HARRIS	HARRIS PREC	COD	0.00	0.00	0.00	712.00		
01-05-2005	PM 12:38	61	1	A 2074	41	PRECAST	0	PM 12:49	0	
	CBRO	CBRO	CBRO111260,	NET	0.00	0.00	0.00	840.00		
01-06-2005	AM 08:39	62	1	A 2075	41	3000	0	AM 09:00	0	
	KENNY	KCD	K.C.D. ENTE	NET	0.00	0.00	82.78	1028.78		
01-06-2005	AM 11:02	63	1	A 2076	41	3000	0	AM 11:07	0	
	KENNY	KCD	K.C.D. ENTE	NET	0.00	0.00	82.78	1028.78		
01-06-2005	AM 11:29	64	1	A 2077		3000	0	AM 11:29	0	
	KENNY	KCD	K.C.D. ENTE	NET	0.00	0.00	18.81	233.81		
01-07-2005	AM 08:27	65	1	A 2078	41	3000	0	AM 08:54	0	
	ISLAND HA	JIM DAVIS	ISLAND HARD	NET	0.00	0.00	76.56	951.56		

MIX REPORT

SYSDYNE BATCHING SYSTEM			PRODUCTION REPORT			DATE: 11-01-2005		PAGE: 1	
DATE	MIX	DESCRIPTION	YD-SOLD	YD-PROD	OPEN	CASH	TAX	TOTAL	
1-3-2005	PRECAST	PRECAST	36.00	36.00	0.00	3080.00	0.00	3080.00	
1-3-2005	4000	4000 PSI	3.50	3.50	0.00	429.56	34.56	429.56	
1-3-2005	3500	3500 PSI	12.50	12.50	0.00	1388.74	111.74	1388.74	
1-3-2005	3000	3000PSI	21.00	20.00	0.00	1964.03	158.03	1964.03	
1-4-2005	3000	3000PSI	7.50	7.00	0.00	755.82	60.82	755.82	
1-4-2005	PRECAST	PRECAST	43.00	43.00	0.00	3634.00	0.00	3634.00	
1-4-2005	3500	3500 PSI	4.00	4.00	0.00	491.55	39.55	491.55	
1-5-2005	3500	3500 PSI	11.00	11.00	0.00	1144.05	92.05	1144.05	
1-5-2005	PRECAST	PRECAST	18.00	18.00	0.00	1552.00	0.00	1552.00	
1-6-2005	3000	3000PSI	24.50	24.50	0.00	2291.37	184.37	2291.37	
1-7-2005	3000	3000PSI	55.50	54.50	0.00	5527.78	444.78	5527.78	
1-7-2005	3500	3500 PSI	4.00	4.00	0.00	448.00	0.00	448.00	
1-7-2005	PRECAST	PRECAST	40.00	34.00	0.00	3390.00	0.00	3390.00	
1-7-2005	3/8 GRIT	3000 PSI	8.00	7.50	0.00	843.90	67.90	843.90	
1-7-2005	2500	2500 PSI	8.00	7.50	0.00	756.90	60.90	756.90	
1-10-2005	3000	3000PSI	22.00	21.00	0.00	2101.05	169.05	2101.05	
1-10-2005	PRECAST	PRECAST	53.50	53.00	0.00	4596.00	0.00	4596.00	
1-10-2005	3500	3500 PSI	14.50	14.00	0.00	1387.65	111.65	1387.65	
1-10-2005	2500	2500 PSI	4.00	4.00	0.00	448.05	36.05	448.05	
1-11-2005	2500	2500 PSI	18.00	18.00	0.00	0.00	0.00	0.00	
1-11-2005	PRECAST	PRECAST	34.00	32.50	0.00	2894.00	0.00	2894.00	
1-11-2005	3000	3000PSI	4.00	4.00	0.00	461.10	37.10	461.10	
1-12-2005	LIGHT WEIGHT	LT WGHT 3500 PSI P	12.00	12.00	0.00	737.33	59.33	737.33	
1-12-2005	3000	3000PSI	18.00	18.00	0.00	1722.61	138.61	1722.61	
1-12-2005	PRECAST	PRECAST	23.50	19.50	0.00	2032.00	0.00	2032.00	
1-13-2005	4000PUMP	4000 PSI PUMP MIX	15.00	15.00	0.00	1435.50	115.50	1435.50	
1-13-2005	3500	3500 PSI	17.50	17.50	0.00	1625.35	77.35	1625.35	
1-13-2005	2500	2500 PSI	6.50	6.50	0.00	586.71	47.21	586.71	
1-13-2005	3000	3000PSI	22.00	22.00	0.00	2127.16	171.16	2127.16	
1-13-2005	3500PUMP	3500 PSI PUMP MIX	15.00	15.00	0.00	1402.88	112.88	1402.88	
1-13-2005	PRECAST	PRECAST	42.00	39.50	0.00	2170.00	0.00	2170.00	
1-15-2005	3000	3000PSI	19.50	19.50	0.00	1867.24	150.24	1867.24	
1-15-2005	PRECAST	PRECAST	9.50	9.00	0.00	828.50	0.00	828.50	
1-17-2005	3000	3000PSI	3.50	3.50	0.00	395.00	0.00	395.00	
1-17-2005	PRECAST	PRECAST	6.00	6.00	0.00	524.00	0.00	524.00	
1-19-2005	PRECAST	PRECAST	8.00	8.00	0.00	712.00	0.00	712.00	
1-20-2005	PRECAST	PRECAST	14.00	14.00	0.00	1216.00	0.00	1216.00	
1-25-2005	3500	3500 PSI	7.00	7.00	0.00	669.90	53.90	669.90	
1-26-2005	3000	3000PSI	45.00	44.00	0.00	4404.38	354.38	4404.38	
1-26-2005	PRECAST	PRECAST	15.50	15.50	0.00	1382.00	0.00	1382.00	
TOTAL			746.00	725.00	0.00	65424.11	2889.11	65424.11	

TRUCK REPORT

SYSDYNE BATCHING SYSTEM			TRUCK REPORT		DATE:11-01-2005		PAGE: 1
TRUCK	DRIVER	DATE	LOAD	SOLD	PROD.	AMOUNT	
41	WALTER	1-3-2005	4	23.00	22.00	22.00	
41	WALTER	1-4-2005	4	21.50	21.00	21.00	
41	WALTER	1-5-2005	2	21.00	21.00	21.00	
41	WALTER	1-6-2005	2	22.00	22.00	22.00	
41	WALTER	1-7-2005	3	25.50	24.50	24.50	
41	WALTER	1-10-2005	3	16.00	15.50	15.50	
	SUB TOTAL		18	129.00	126.00	126.00	
42	FRANK	1-3-2005	4	25.50	25.50	25.50	
42	LEVIN	1-4-2005	1	8.00	8.00	8.00	
42	WILL	1-10-2005	3	30.00	29.50	29.50	
	SUB TOTAL		8	63.50	63.00	63.00	
43	ANDRE	1-4-2005	3	25.00	25.00	25.00	
43	ANDRE	1-5-2005	1	8.00	8.00	8.00	
43	ANDRE	1-7-2005	3	15.50	15.00	15.00	
	SUB TOTAL		7	48.50	48.00	48.00	
44	MIKE	1-3-2005	2	11.50	11.50	11.50	
44	JASON	1-7-2005	3	22.50	16.00	16.00	
44	MIKE	1-10-2005	1	8.00	8.00	8.00	
	SUB TOTAL		6	42.00	35.50	35.50	
45	JASON	1-7-2005	1	10.00	10.00	10.00	
	SUB TOTAL		1	10.00	10.00	10.00	
47	JASON	1-7-2005	1	7.00	7.00	7.00	
47	LEVIN	1-10-2005	4	30.00	29.50	29.50	
	SUB TOTAL		5	37.00	36.50	36.50	
48	LEVIN	1-3-2005	2	13.00	13.00	13.00	
48	LEVIN	1-7-2005	4	35.00	35.00	35.00	
48	LEVIN	1-10-2005	1	10.00	9.50	9.50	
	SUB TOTAL		7	58.00	57.50	57.50	
		1-6-2005	1	2.50	2.50	2.50	
	SUB TOTAL		1	2.50	2.50	2.50	
TOTAL			53	390.50	379.00	379.00	

Quote

Calculator

Type: Select from a pull-down window for what it is you want to figure.

SLAB

BLOCK

PRISM

COLUMN

CYLIN.

Measurement: Select either yards or meters.

Dimensions: Put in the dimensions of the area of concrete you are measuring.

Factor: This field contains the factor for figuring meters or yards.

Once the dimensions have been entered, go to the Price/UN field and enter the price per yard or meter for this mix. If price is not known then skip this field. Enter Quantity of slabs, prisms, etc... volume will be needed.

Now point and click on the **Calculate** button. This should give you the volume in meters and yardage. You will also, if used, be given price for quantity of concrete.

It may be necessary to use this calculator for several different calculations for the same job. In this case after each calculation you can **Add To List** and begin tallying a total for several different items and sizes. If one or two of the calculations are no longer needed or have been updated you can delete one calculation at a time by pointing and clicking on that line and press the **Delete Item** button. Once you are finished with the calculator you press the **Clear** button to delete the entire page.

Dispatch Interface

The interface supports UNIVERSAL BATCH-DISPATCH COMMUNICATION LINK.

Accounting Interface

Sysdyne accounting interface supports QuickBooks. Also, we provide customized service to your specific accounting system.

Auto Seek'N Feed

Auto Seek'n Feed is sysdyne material handling system. The batching program can integrated the control interface.