TORO®

SitePro™

Central Control System

Getting Started Manual

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Welcome to SitePro™

Advanced Central Irrigation Control Software from The Toro Company

Congratulations on purchasing the most advanced irrigation site management system available. SitePro offers advanced features for total site management, yet is quite easy to use. An integral part of SitePro is the comprehensive on-line help screens that follow the familiar Windows format.

This Getting Started guide outlines:

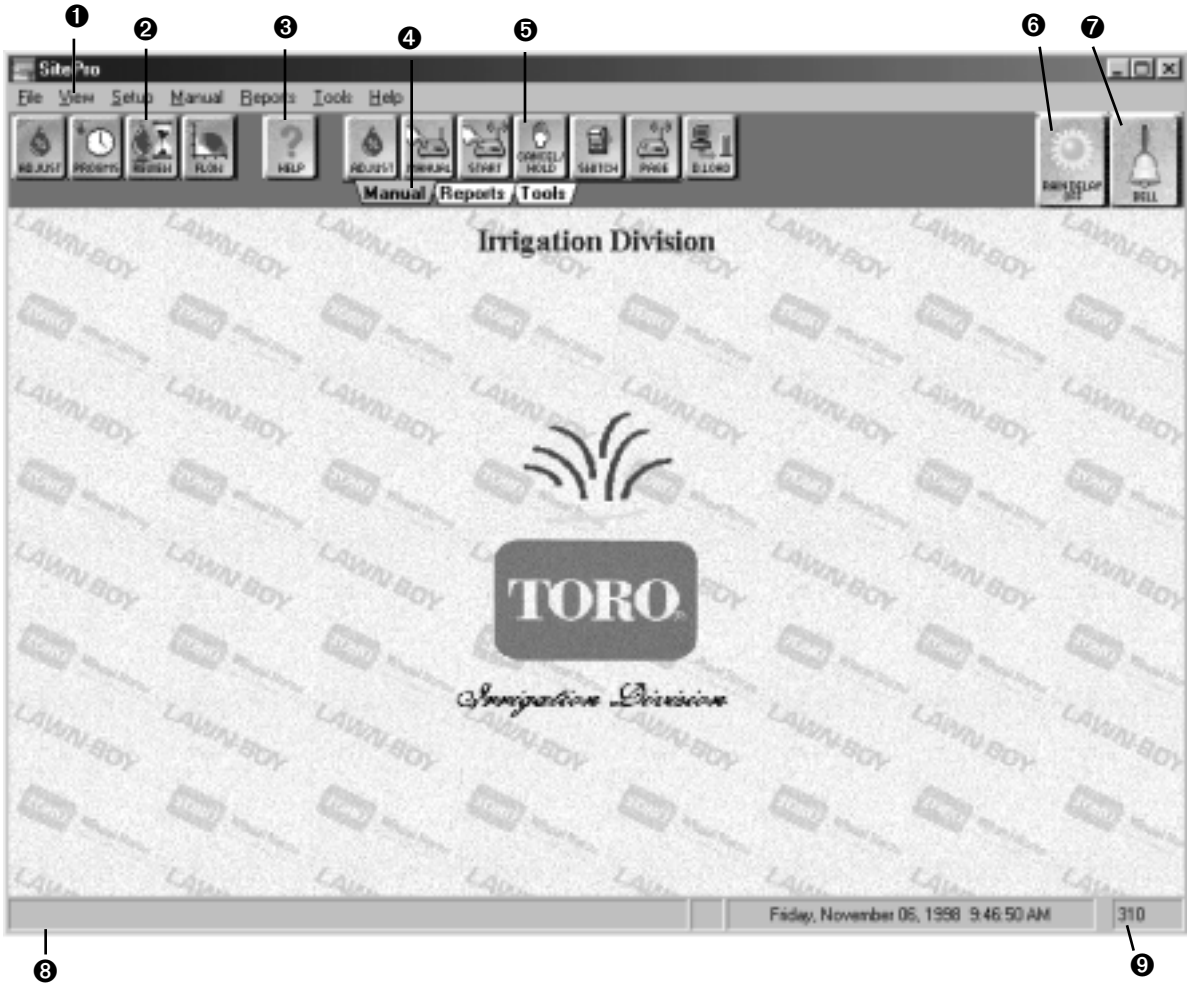
- An overview of SitePro's features and screens (located in the *Quick Reference* pages).
- Hardware required to run SitePro with or without the optional software modules.
- The general information you need to have on hand before setting up SitePro.
- The basic steps you should take to program SitePro.
- An introduction to the daily operation features.

SitePro Basic Hardware Requirements

Hardware Required	Standard Computer	Premium Computer
Processor	Intel PII 266MMX	Intel PII 333MMX
RAM	64MB	128MB
Hard Drive	5.2GB UDMA	6.4GB UDMA
Floppy Drive	3.5" 1.44MB	3.5" 1.44MB
Removable Media Drive	Iomega Zip 100MB Internal	Syquest SparQ 1GB Int.
CD ROM	32X Mitsumi	32X Mitsumi
Serial Port Expansion Card	Rocketport 4-Port PCI	Rocketport 8-Port PCI
Fax Modem	56K Baud V.90 External	56K Baud V.90 External
Mouse	MS PS/2 Bus	MS PS/2 Bus
Keyboard	104-Key Windows95®	104-Key Windows95®
Monitor	17" SVGA	19" SVGA
Operating System	Windows95® Release 2	Windows95® Release 2
Parallel Ports	1	1
Cabinet	Mid Tower ATX Case	Mid Tower ATX Case
Motherboard	Intel PII w/Yamaha Sound	Intel PII w/Yamaha Snd.
Motherboard Bus Type	PCI/ISA	PCI/ISA
Video/Graphic Accelerator	PCI 4MB Stealth	PCI 8MB Diamond Fire
Speakers	Yamaha M15	Yamaha M15
Additional Software	PC Anywhere™ 8.0	PC Anywhere™ 8.0
Printer *(Optional)*	HPDesk Jet 690C	HPDesk Jet 690C

**Note: If you plan to add T.Map to SitePro, you will need to use a Premium Computer system.*

The SitePro Window



❶ Menu Bar

Accesses all functions of SitePro using the pull-down menus under each heading.

❷ Daily Operations Tool Bar

Consists of speed buttons for one click access to central control functions that are used frequently.

❸ Help Button

Launches SitePro's on-line help system.

❹ Tabbed Notebook

Changes the buttons on the Features tool bar.

❺ Features Tool Bar

Provides quick access to features related to each item of the tabbed notebook.

❻ Rain Hold Alert

Changes to red to signal a rain hold has been placed on the irrigation.

❼ Bell

Displays movement as an alert to an alarm.

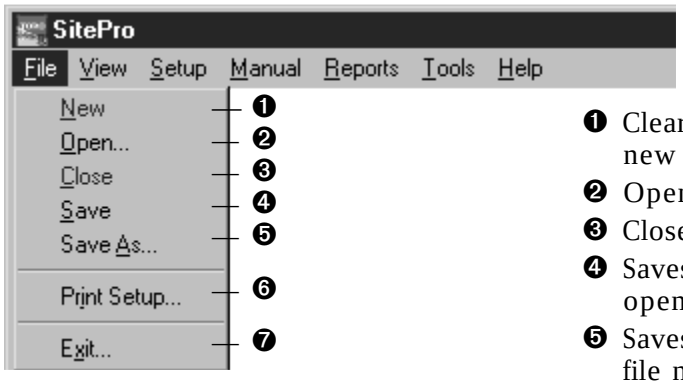
❽ Message Display Bar

Shows informational and system messages.

❾ Date and Time Bar

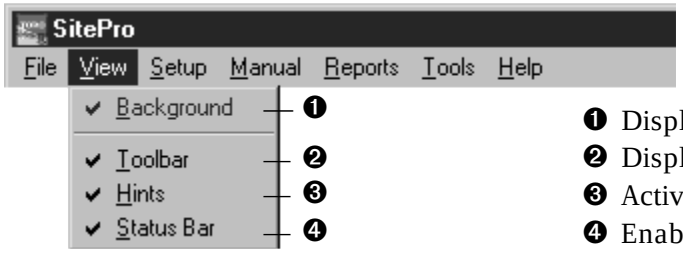
Displays the computer date and time. The current date of the year is shown to the right.

The Menu Bar

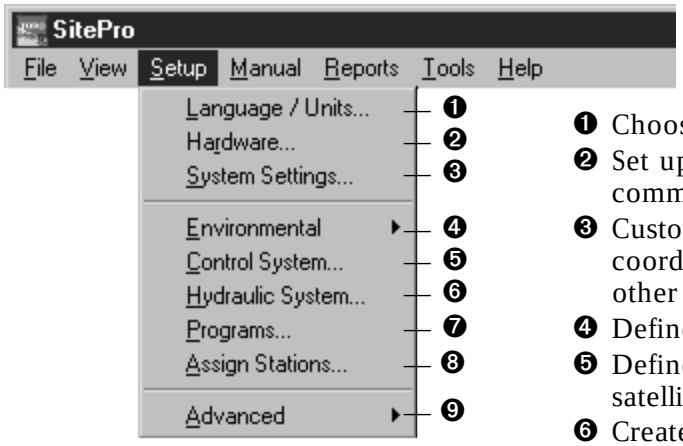


❶ Clears the existing database file and starts a new one*.
❷ Opens a previously saved database file.
❸ Closes the existing database.
❹ Saves the current database and keeps the file open.
❺ Saves the current information under a new file name.
❻ Brings up the print dialog box.
❼ Exits the SitePro application.

Note: This **erases any current program information. Before clearing the database, make sure you have saved any necessary data.*

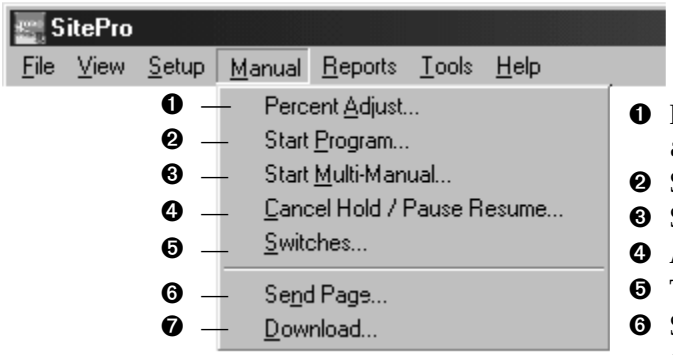


❶ Displays the background graphic.
❷ Displays the tool bar.
❸ Activates balloon hints.
❹ Enables the Message Display bar and Date and Time bar.

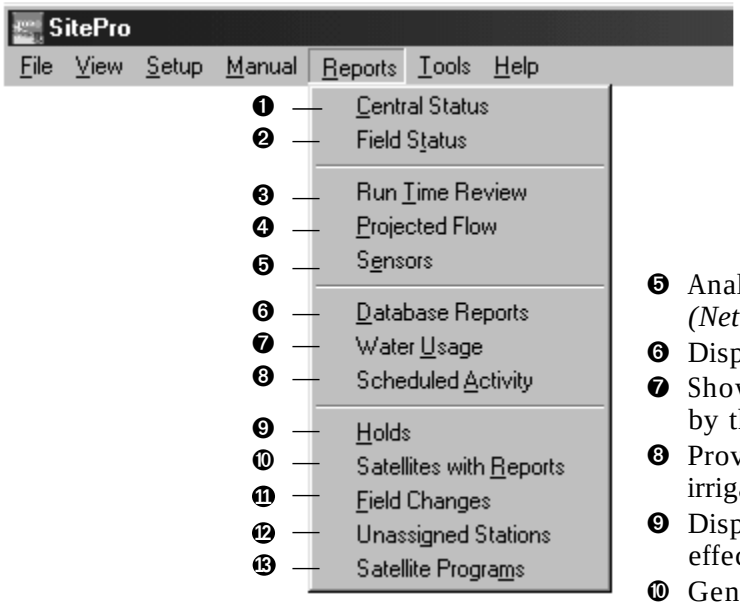


❶ Choose the preferred language and units.
❷ Set up the field hardware used and satellite communications.
❸ Customize the home screen, map coordinates, update time, alarms notice and other information unique to your system.
❹ Define demand ET, site codes and nozzles.
❺ Define groups of satellites, individual satellites and stations.
❻ Create a model of the hydraulic system.
❼ Define irrigation programs, master start times and sequences.
❽ Assign stations to programs.
❾ Access advanced program features: Multi-Manual, Switches, Control Codes, Sensors/Alarms and Alarms/Responses.

The Menu Bar (cont.)

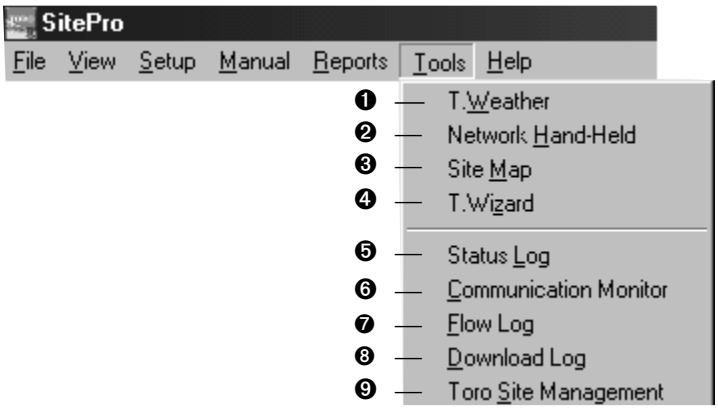


❶ Make manual run time percentage adjustments.
❷ Select a program to start.
❸ Start multiple stations at one time.
❹ Activate commands that stop/start irrigation.
❺ Turn switches on or off.
❻ Send a page to a pager or satellite. *(OSMAC field hardware only.)*
❼ Download system operating parameters to the satellites. *(Central Decoder System, Network DR2, Network LTC™ Plus and Network 8000 field hardware only.)*



❶ Displays information available from the central control system.
❷ Displays information available from field hardware. *(Network LTC, Network DR2 and Network 8000 field hardware only.)*
❸ Provides information and printed reports about the actual watering times of stations.
❹ Gives a graphical display of the projected flow of a program or programs.
❺ Analyzes the sensor data. *(Network 8000 field hardware only.)*
❻ Displays the contents of the database.
❼ Shows how much water has been used by the irrigation system.
❽ Provides an overview of the scheduled irrigation activity.
❾ Displays any irrigation holds that are in effect.
❿ Generates various satellite reports. *(Network LTC and Network LTC Plus field hardware only.)*
⓫ Gives information about program changes made in the field at the satellites. *(Network 8000 field hardware only.)*
⓬ Shows stations not assigned to a program or a hydro-link.
⓭ Launches a report that shows the relationship of a satellite's internal program number to the Central program.

The Menu Bar (cont.)



❶ Accesses the optional T.Weather with WeatherLogic software module for controlling weather stations.

❷ Opens optional Toro Network Hand-Held software for the hand-held radio system.

❸ Opens the optional T.Map software module for advanced site graphics.

❹ Launches T.Wizard, SitePro's graphic guide to programming.

❺ Compiles diagnostic messages generated by SitePro.

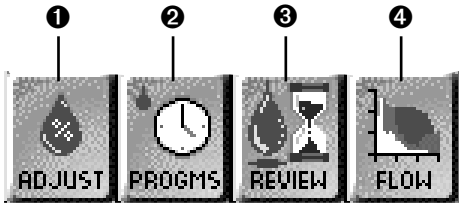
❻ Displays the current status of the communication channels. *(Network LTC Plus field hardware only.)*

❼ Shows the messages created by the flow manager.

❽ Lists which satellites received information downloaded from the central. *(All field hardware except OSMAC.)*

❾ Launches the optional Toro Site Management software.

The Daily Operations Tool Bar



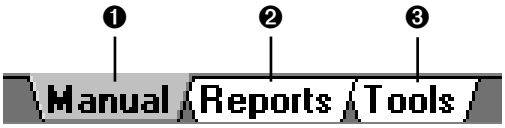
❶ Percent Adjust Button
Make manual percentage adjustments of run times.

❷ Programs Button
Access the irrigation programs function of SitePro. Define and review programs and start times.

❸ Run-Time Review Button
Check the scheduled to run times of stations.

❹ Projected Flow Button
Graphically display the projected flow.

Tabbed Notebook



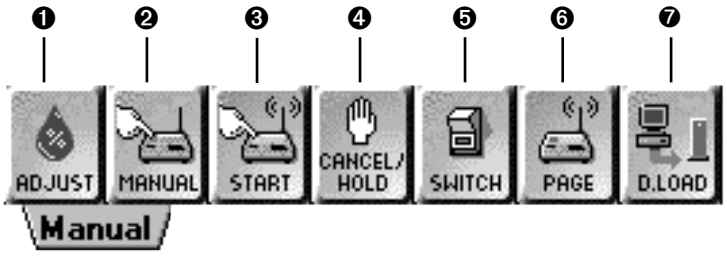
❶ Manual Tab
Select this tab to display buttons on the Features tool bar that focus on Manual operations.

Note:
An active tab is displayed as gray. Inactive tabs are white.

❷ Reports Tab
Choose this tab to change the buttons on the Features tool bar to the Reports functions.

❸ Tools Tab
Click on this tab to change the buttons on the Features tool tar to the optional Tool modules.

The Features Tool Bar - Manual



❶ Percent Adjust Button
Make manual percentage adjustments of run times.

❷ Start/Stop Program Button
Select a program to start or stop manually.

❸ Start/Stop Multi-Manual Button
Start or stop multiple stations at one time.

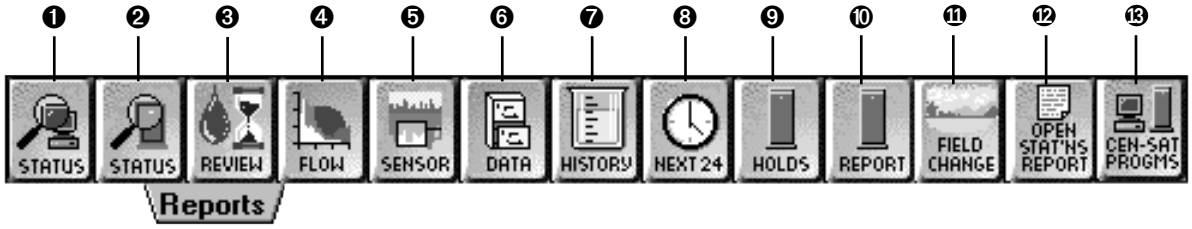
❹ Cancel/Hold Button
Activate commands that stop irrigation.

❺ Switch Button
Turn switches on or off.

❻ Send Page Button
Send a page to a pager or satellite. *(OSMAC field hardware only.)*

❼ Download Button
Download system operating parameters to the satellites. *(Central Decoder System, Network DR2, Network LTC Plus and Network 8000 field hardware only.)*

The Features Tool Bar - Reports



❶ Central Status Report Button
Gathers information from the central control system.

❷ Field Status Report Button
Displays information available from the field hardware. *(All field hardware except OSMAC which has simulated field status.)*

❸ Water-Time Review Report Button
Provides information about the watering times of stations.

❹ Projected Flow Report Button
Gives a graphical display of the projected flow of a program.

❺ Sensors Report Button
Analyzes sensor data.
(Does not apply to OSMAC, Central Decoder System or Network DR2 field hardware.)

❻ Database Report Button
Displays the contents of the database.

❼ Water Usage Report Button
Shows how much water has been used by the irrigation system.

❽ Scheduled Activity Report Button
Reviews the scheduled irrigation activity.

❾ View Holds Button
Displays any irrigation holds that are in effect.

❿ Satellites with Reports Button
Generates various satellite reports.
(Network LTC and Network LTC Plus field hardware only.)

⓫ Field Changes Button
Gives information about program changes made in the field at the satellites.
(Network 8000 field hardware only.)

⓬ Unassigned Stations Button
Shows stations not assigned to a program or a hydro-link.

⓭ Satellite Programs Button
Launches a report that shows the relationship of a satellite's internal program number to the Central program.

The Features Tool Bar - Tools

❶ T.Weather Station Button

Accesses T.Weather with WeatherLogic, an optional software module for controlling weather stations.

❷ Toro Hand-Held Button

Opens Toro Hand-Held, optional software for the hand-held radio system.
(All field hardware except OSMAC.)

❸ T.Map Button

Opens the optional T.Map module that uses advanced site graphics to control your irrigation system.

❹ T.Wizard Button

Launches T.Wizard, the graphic tutorial for quick setup of the SitePro Central Control System.

❺ Status Log Button

Displays error messages.

❻ Communication Monitor Button

Displays the current status of the communication channels.
(For field hardware using the FIU. Network LTC Plus field hardware only at present.)

❼ Flow Log Button

Shows the tex file for the last projected flow.

❽ Download Log Button

Lists which satellites received information downloaded from the central.

❾ TSM Button

Launches Toro Site Management, optional software.

Before You Start

The first time you launch the SitePro software, the **Unlock** screen appears as pictured below. You need to contact the Toro National Support Network (NSN) and provide them the code entry number, shown on the sample screen as “240263602,” and the computer number as they appear on your screen. NSN then runs an encryption program which provides the access code needed to continue the initial SitePro launch. You must enter this number into the “Enter code” box immediately.

After entering the code and clicking “OK,” SitePro will continue launching. You will only need to do this once. The **Unlock** screen will not appear again **unless** the following circumstances occur:

- The computer’s hard drive or mother board is replaced.
- New system hardware components have been added.
- The CMOS settings have been changed.
- New software is installed.

If this happens, a new code number will be required, since the code entry number changes each time the program is launched on a new system or hard drive. Additionally, if you have a laptop or docking station, the SitePro application cannot be shared. The applications must reside with their own unique access codes on each machine.

The **Unlock** screen also appears on the T.Map™ and T.Weather with WeatherLogic™ software modules as well. Each application requires a unique access code number from NSN in order to run.

Before You Start (cont.)

If you have purchased the optional Network Hand-Held™ or T.Weather with WeatherLogic™ software modules for SitePro, please install and configure them before setting up SitePro. The T.Map™ software module, which offers superior control over your site with graphic capabilities, should be configured after you have completed programming SitePro.

You need to have the following information on hand before you start programming your customized irrigation control system:

- **The specific unique address of each satellite in your system** (if your field hardware includes satellites) — required to define the overall control system structure which is made up of groups, satellites assigned to groups and stations assigned to satellites.
- **As-built plans of your hydraulic system** — helpful when configuring the hydraulic database that is part of the flow management feature. The traditional golf course irrigation design is a series of complex loops. These will need to be converted into a tree-type configuration. If you are uncomfortable doing this, please contact your Toro distributor or irrigation consultant.
- **All sprinkler and nozzle information for all the satellites** — needed to build the sprinkler database.
- **The number of stations and their names.**
- **The initialization string for the modem** — if using a telephone communications hardware link.
- **Plan how you want to irrigate** — an understanding of the way stations will be assigned to specific programs and how you want those programs to operate.

Other useful information, depending on the irrigation method you want to use, includes:

- **Monthly ET for your climate zone** — located in the *Toro Rainfall-Evapotranspiration Data* booklet. (Form #490-1358)
- **Map coordinates for your site: latitude, longitude and altitude** — often can be obtained from your local airport. You'll need this information if you want to calculate watering times based on sunrise and sunset.
- **Plant and soil types for your site** — used as an optional database in adjusting your watering schedule based upon these types or any other grouping of stations.

Initial SitePro Setup

SitePro offers powerful central control of your irrigation system. You can optimize all of SitePro's features by determining the irrigation method you would like to use: Advanced, Intermediate or Basic. The Advanced irrigation method offers sophisticated calculation of watering times based on ET; Intermediate provides adjustment of station run times based on a reference ET; Basic allows for simple direct adjustments on watering times. With SitePro, you can easily create an irrigation environment customized to your site.

Before beginning the initial set up and programming of SitePro, be sure you have read the Before You Start *section and that you have all the necessary information available.*

- Follow the basic steps outlined below to set up SitePro for the first time, or use the T.Wizard button.

Go directly to the Wizard button for the quickest way to get started with SitePro for Windows95. This launches the complete graphical tutorial, T.Wizard, that guides you through setup and operation of SitePro. See *Tips on Using T.Wizard* at the end of this manual for some helpful hints.

- Use the Irrigation Method tables above to guide you on the amount of information you need to provide SitePro to meet your irrigation needs. On *Step 2: Build the Irrigation Methods Database* outlined below, the symbols I , II and III indicate the items you need to complete for your selected irrigation method.
  I = Basic II = Intermediate III = Advanced.
- Refer to the *Quick Reference* pages for the location of screen menus and buttons.
- The on-line help screens can provide you with additional information about SitePro.

I BASIC IRRIGATION METHOD
Direct Adjustment of Station Run Times

Sprinkler Data Required:	Program Setup:	Operation:
• Types • Locations • Pressure	• Daily run times for the sprinklers are assigned to the program.	• You assign run times to the sprinklers. Make manual percentage adjustments to change run times.

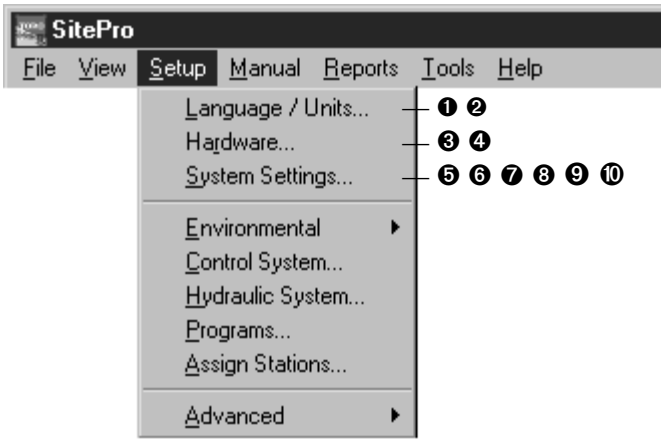
II INTERMEDIATE IRRIGATION METHOD
Adjustment of Station Run Times Based on ET

Sprinkler Data Required:	Program Setup:	Operation:
• Types • Locations • Pressure	• Daily run times for the sprinklers are assigned to the program. • A reference ET is associated with the run times.	• You assign run times to the sprinklers based on a reference ET. Run times can be automatically adjusted by the daily ET (operational ET). • Define an ET source for the program.

III ADVANCED IRRIGATION METHOD
Automatic Calculation of Station Run Times Based on ET

Sprinkler Data Required:	Program Setup:	Operation:
• Types • Locations • Pressure • Arc • Pattern • Distance	• Define an ET source for the program.	• Run times are calculated automatically based on the ET data from the selected ET source and on the sprinkler configuration. • Define an ET source for the program.

STEP 1: GENERAL SETUP



Follow these steps to set up the general configuration of SitePro:

❶ `Select the language` (Setup > Language/Units)
Select the language used on the SitePro screens.

❷ `Select units of measure` (Setup > Language/Units)
Select the units of measure you prefer for calculations and display.

❸ `Select control system hardware` (Setup > Hardware> System)
Choose the type of Toro field hardware/satellites used in your irrigation system.

Only <u>one</u> type of hardware can be selected. Throughout SitePro, features will be grayed out if they do not apply to the selected hardware type.

❹ `Select the communications configuration` (Setup > Hardware > Communications)
Define the wire, telephone and/or radio parameters used between the SitePro central and your field hardware.

❺`System Settings: Choose the update time` (Setup > System Settings > Update Time)
Set the control system update time and water-time window. You can also perform a manual update or change the field time.

System update time must be at least 60 minutes prior to the first master sequence start time.

❻ `System Settings: Configure the home screen` (Setup > System Settings > Site Setup > Home Screen)
Customize the look of your home screen.

❼ `System Settings: Configure the map coordinates` (Setup > System Settings > Site Setup > Map Coordinates)
Enter information to calculate sunrise and sunset if you want to use them for irrigation start times.

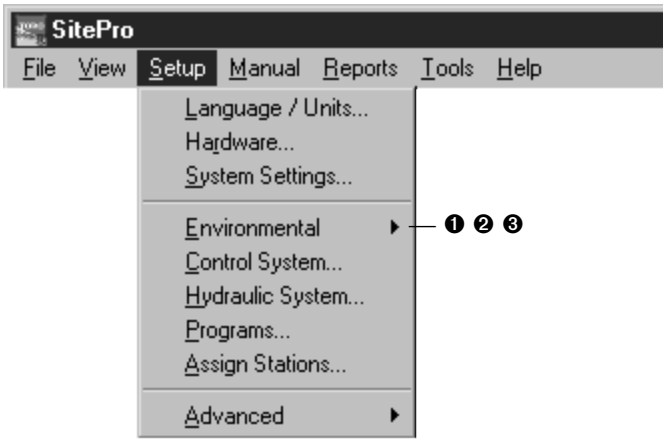
❽ `System Settings: Select the map type` (Setup > System Settings > Site Setup >Map Type)
Select either TMap or Wizard Map if you plan on using a map to assist in programming SitePro.

❸ System Settings: Define the alarm notice (Setup > System Settings > Alarm Notice)

Define the action SitePro will provide to notify you of an alarm.

❸ System Settings: Network 8000 upload (Setup > System Settings > NW8000)

Select satellite and station information upload parameters.



STEP 2: BUILD THE IRRIGATION METHODS DATABASE

Using these steps, you will define the elements SitePro needs to build the irrigation methods database: nozzles, site codes, and methods and sources of ET (evapotranspiration).

These symbols highlight the steps you need to complete for your selected irrigation method:

I = Basic (Direct adjustment of run times.)

II = Intermediate (Adjustment of run times based on ET.)

III = Advanced (Calculation of run times based on ET.)

❶ Set up the Demand ET information (Setup > Environmental >Demand ET) II III

Station run times can be based on time or on ET. This section does not need to be defined if you choose to run the stations on time-based data, as in the Basic Irrigation Method.

Define the methods and sources of ET you want to use to adjust and calculate station run times.

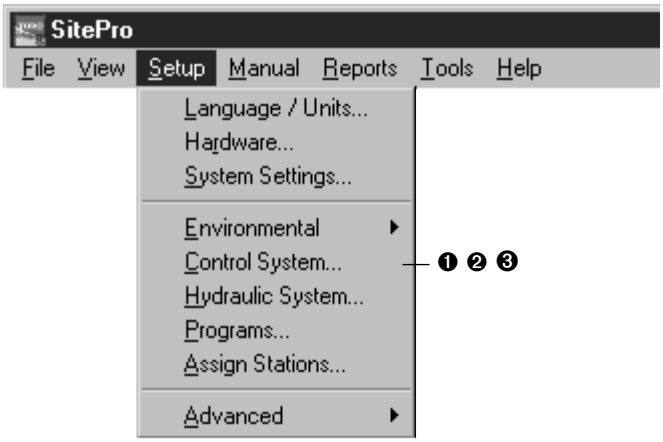
- Demand ET Summary
- TempET (*Network 8000 hardware only*)
- Historical ET
- Water Budget
- Select ET Sources

❷ Define site codes (Setup > Environmental > Site Codes) III

Site codes are optional information. Complete this section of the database only if you want to adjust ET, a group of station run times or create programs based on site code factors.

Define plant and soil types, compaction and slope. This allows you to fine-tune the watering time of individual sprinklers to meet specific site needs. (For your convenience,

SitePro provides default codes, names and adjustment factors in the on-line Help screens).



❸ Select the Toro nozzles (Setup > Environmental > Nozzles) I II III

Select the nozzles used in your irrigation system and fine-tune pressure, radius and flow rates. A complete listing of Toro nozzles is already created in SitePro for this purpose.

The nozzle information is used in the Control System menu and is necessary for Electro-Flow™ to operate. Electro-Flow is SitePro's flow and electrical management feature.

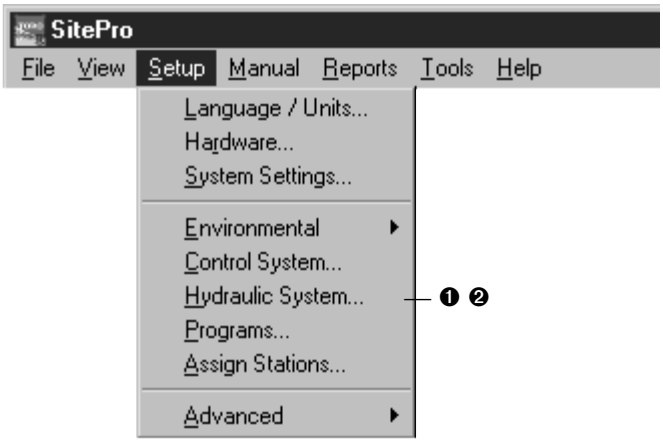
STEP 3: SET UP THE CONTROL SYSTEM

Next, you need to create the database that defines the control system: groups of satellites, individual satellites and the stations assigned to specific satellites.

❶ Define satellite groups (Setup > Control System > Groups)

Define groups of satellites that allow you to control similar areas of your site at the same time. For example, you may want to create a group named "Front 9" or "Tees." (If you have Central Decoder System hardware, you may combine DIUs.) If desired, you may choose to control the system with only one defined group of satellites.

For satellites to be assigned to the same group, they must have the same method of communication (i.e., wire, telephone or radio).



❷ `Define satellites` (Setup > Control System > Satellites)

After defining groups, you can assign satellites to groups and enter individual satellite information.

The satellite numbers entered here must correspond with the unique address set at the satellite in the field.

❸ `Define stations` (Setup > Control System > Stations)

Assign stations to specific satellites and enter individual station information. Use the "copy" and "paste" buttons to enter repetitive station information quickly.

It is not necessary to enter information in all columns of the station database table. However, you must enter a station number, name, percent adjustment, nozzle flow, number of heads and the flow rate for the station in order for SitePro to perform properly. Other data may be added to optimize SitePro. (For more information, refer to Defining Stations in the on-line Help screens.)

STEP 4:

SET UP THE HYDRAULIC SYSTEM

After you have defined the groups, satellites and stations, you must create a model of your hydraulic system and assign each station to an hydraulic element.

SitePro offers two ways to define your hydraulic system. Within T.Wizard, you can create a simple system that is defined at two levels: water source and pipes. If you prefer a graphical, multi-level hydraulic tree, you can easily define your flow limits through mainlines, branches and flow groups within the SitePro software.

❶ `Define elements of the hydraulic system` (Setup > Hydraulic System > Attributes)

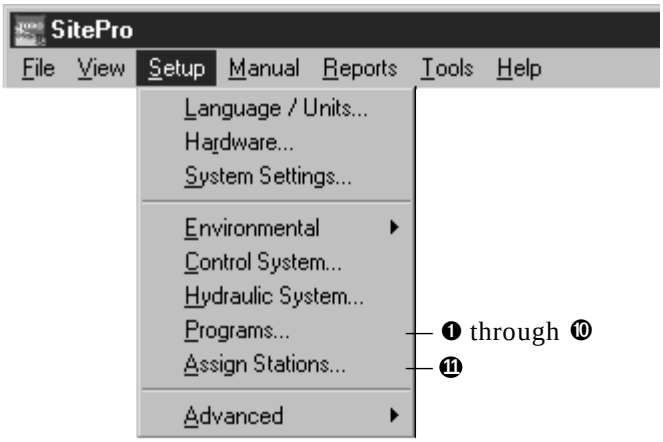
Create a model of the flow demand on your hydraulic system by defining water sources and their associated pipes which represent mainlines, branches and flow groups.

❷ `Create Hydro-Links: Assign stations to the hydraulic system` (Setup > Hydraulic System > Assign)

Assign each station to a hydraulic element. This defines the Hydro-Link, a connection

point at the station level between the control system and the hydraulic system. You can

review these assignments using the Review tab (Setup > Hydraulic System > Review).



Each station must have a Hydro-Link defined
in order for the station to run.

❸ `Review Station Assignments` (Setup > Hydraulic System > Review)
Review these Hydro-Link assignments using the Review tab.

To double check station assignments to Hydro-Links:
- Run an Unassigned Stations report.

You also can verify the station assignments by:
- Run a projected flow (click on the Projected Flow button on the daily operations tool bar).
- After closing the graph, check the Flow Log (F-Log) to review any errors in the hydraulic assignments. Select the F-Log from the Tools menu (Tools > F-Log) or by clicking on the F-Log button on the tool bar. Any stations missing a Hyrdo-Link will be displayed in this text file.

STEP 5: PROGRAM THE CONTROL SYSTEM

Once the control system and hydraulic system have been defined, you can set up irrigation programs.

❶ `Name the irrigation program and select a percent adjustment (if desired)` (Setup > Programs)

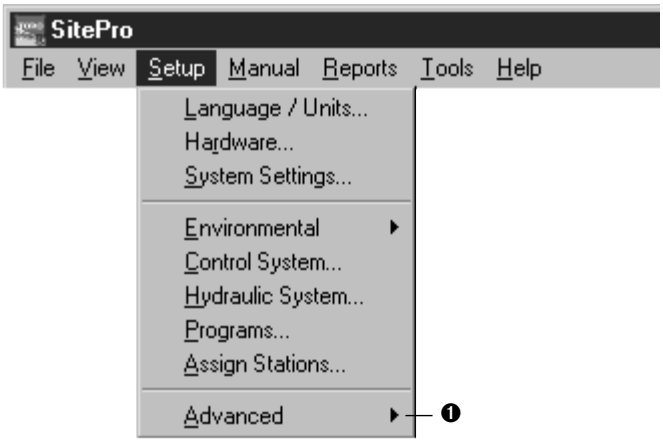
❷ `Select the schedule mode for the program` (Setup > Programs > Schedule)

⓫ Choose from 14-day Calendar, Interval, Odd Days, Even Days or Annual Calendar.

❸ `Assign the active days for the program` (Setup > Programs > Active Days)

Set the active days if either the 14-Day Calendar or Annual Calendar mode has been

selected. Once set, the active days on the calendar turn bright green.



❹ `Specify ET parameters and run-time calculation` (Setup > Programs > ET Use)

Specify the run-time calculation method of the program, ET mode, source of ET,

reference ET and default run times.

❺ `Assign repeats and soaks` (Setup > Programs > Repeats/Soaks)

Select the number of repeats of the selected program and specify the minimum soak

time for stations in the program.

❻ `Assign auto switches` (Setup > Programs > Auto Switch)

Assign switches using the Auto Switch tab.

❼ `Review program setup` (Setup > Programs > Summary)

Verify the feature settings and configuration of each of your irrigation programs.

❽ `Create master program sequences` (Setup > Programs > Start Times > Information)

Start times are assigned to master program sequences. Go to the Information tab under

Programs > Start Times to create and name a master sequence.

❾ `Assign programs to master sequences` (Setup > Programs > Start Times > System

Programs)

Assign programs to specific master sequences. All programs in the system are listed.

❿ `Define master sequence attributes and program modes` (Setup > Programs >

Start Times > Information)

- Highlight a sequence and assign it a watering priority, percent adjustment and a start or stop time.
- Select a program and choose a running mode: normal or syringe/test cycle.
- Click on the check box to make the program part of the master sequence.

`Assign stations and review station assignment` (Setup > Assign Stations) Use the table on the Assign Stations screen to assign stations to a particular program or select Auto Programmer to create assignments. Review stations assignments here.

STEP 6: SET UP ADVANCED MENU ITEMS

Depending on the components of your central control system, you may need to set up advanced features of SitePro. These include multi-manual groups, switches, control codes, sensors/alarms and alarms/responses.

❶ `Set up any advanced program features` (Setup > Advanced)
- Multi-Manual Groups *(Network 8000 field hardware only)*
- Switches
- Control Codes *(Network 8000 field hardware only)*
- Sensors/Alarms *(Network DR2, Network LTC, Network LTC Plus and Network 8000 field hardware only)*
- Alarms/Response

For more information on the programming and operation of SitePro, refer to SitePro's comprehensive on-line help.

STEP 7: DAILY OPERATIONS

Use the speed buttons at the top for quick access to the functions you use on a daily basis.

Percent Adjust Button — Make manual percentage adjustments of run times.

Programs Button — Access the irrigation programs function of SitePro. Define and review programs and start times.

Run-Time Review Button — Check the length of time water is scheduled to run for stations.

Projected Flow Button — Graphically display the projected flow of a program.

Congratulations! You have successfully programmed SitePro and are now ready to irrigate. If you need further help, or want to make sure you are optimizing your system, use SitePro's extensive on-line Help screens.

Tips on Using T.Wizard

T.Wizard provides a fast, flexible and productive way to set up your irrigation system. As you move through the series of questions, you'll be amazed out how hassle-free set up can be.

T.Wizard divides the SitePro setup into these sections:

- Basic system setup information.
- Choose your Toro field hardware option.
- Create a custom course map and place individual sprinklers where they belong.
- Select one of the three irrigation methods that best fits your needs.
- Assign sprinklers to satellites with point-and-click ease.
- Create accurate flow groups and programs — down to the station level — simply by drawing circles
- Define multiple master programs and the sequence of their starts.

Listed below are some "Tips and Tricks" to make T.Wizard even easier to use.

Choose your Toro field hardware option.

Control System Hardware:

- For all field hardware types — Refer to SitePro's on-line Help screens for more information on Communication Parameters. (Go to the topic *Setting Up the Communication Configuration*.)

Create a custom course map and place individual sprinklers where they belong.

- The grid represents your golf course map.
- Click on the shape of the hole you want to add.
- Hold down the mouse key and drag the hole onto the desired position on the grid.

This symbol means you can't drop the shape at that point on the grid.

You can "drag and drop" the shape into the current point when this symbol is displayed.

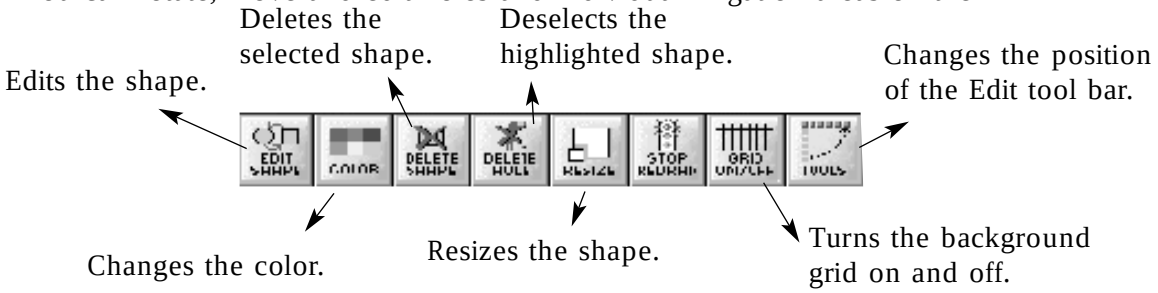
Tips on moving around the grid:

- Use the zoom controls in the upper right hand control to zoom in (+) or out (-) on the grid.

* To zoom in on a specific section of the grid, click and drag the cursor over the section.

Working with holes and irrigation areas:

- You can rotate, move and edit holes and individual irrigation areas on the



holes using theses tools and buttons.
- To highlight a hole/area, double click on it. You can tell a hole is highlighted when it is surrounded by a red box with dashed lines. An area is highlighted when it is surrounded with red dots.

Tricks for rotating holes/areas:
- First, click on hole/area that you want to move.
- Click on the rotate button. This activates a grid showing the axis around which to rotate.
- A yellow box shows you where the starting point is.
- Move the mouse in the direction of the rotation.
- Stay within the rotation grid. If you move the mouse outside of this grid, the rotation stops.
- Double click on the hole/area to finalize the rotation.

Thought you were rotating the hole about 45°, but the image looks flipped instead? You probably rotated it about 315°. If you aren't sure how much you have rotated the image, look for the yellow box showing you the starting point.

Tips on moving a hole/area:
- Select the hole that you want to move on the grid. A red-dashed box shows that it is selected.
- Click on the "Move" button.
- The hole now has black handles indicating that it can be moved.
- Place the cursor inside the highlighted box. The cursor changes to the drag and drop cursor.
- Drag the hole to the desired location.

Placing additional irrigation areas on a hole:
- Select the hole on which you want to place other irrigation areas.
- Click on the "Areas" button.
- Select the desired irrigation feature.
- Drag the area from the pop-up window onto the hole.

You must select irrigation areas in the Irrigation Areas screen. If you didn't, but would like to do so, simply click on the "Previous" button at the bottom of the screen until you return to the Irrigation Areas screen. Select the irrigation areas you want and click on the "Continue" button to return to the Define Shape screen. The new areas are now available to apply.

Tips on editing holes/areas:

The Edit feature allows you to delete or change the look or color of a shape/irrigation area, optimize the size, turn on/off the background grid. You also can change the location of the Edit tool bar.

- Select the hole/area you wish to edit.
- Click on the "Edit" button.
- Choose the Edit feature.
- If editing a shape, click on "Stop redraw" to deselect the shape, or click on another area.
- To move the tool bar between the top and side, click on the corner box of the bar.

About the Optional SitePro Modules

Extend SitePro's picture-perfect irrigation control to an even higher level with these optional software modules.

T.Map™

The T.Map software module puts resource management at your fingertips:

- Use a precise representation of your site*.
- Allows GPS map accuracy.
- Dynamic, interactive system operation.
- Point and click on the map to make immediate system adjustments, manual starts and rain holds.
- Create work orders and manage event planning right from the map.
- Quickly measure distance and area *(with GPS)*.

** T.Map is GPS compatible and requires the assistance of a service provider to create the map — using CAD graphics or aerial photography — and then to link the map to the SitePro irrigation database.*

T.Weather with Weather Logic™

T.Weather with WeatherLogic™ gives you the most out of your weather station:

- Establish an interactive link between the weather station and SitePro.
- Define "if/then" statements for interactive alarm thresholds.
- Prepare reports using historical weather data (up to one year).

Network Hand-Held

SitePro with Toro Network Hand-Held delivers powerful central control with convenient hand-held radio capabilities:

- Provides field-based operation of many manual irrigation functions of SitePro.

Printing Date
November, 1998 Rev D

Irrigation Division
An ISO Certified Facility

Form No.
371-0043