



Current Version and Updates

- Current version of SitePro
 - Finding what version, you are on
 - Help → About SitePro
 - Current: SitePro 7
- Statement on Windows 10 version
 - Do not install Windows 10, SitePro is not compatible with windows 10
 -
- Contacting NSN
 - 800-527-4248



VIDEO

Youtube.com - Toro NSN
Complete Video Playlist

VIDEO

Basic Computer Maintenance

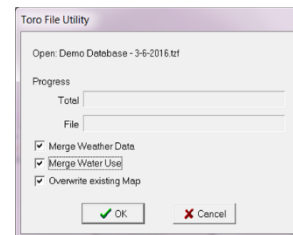
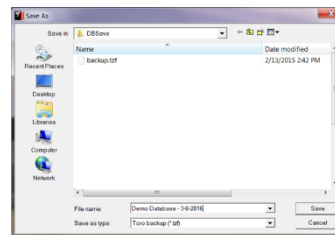
Clearing History from Database

- Every time you 'update' it builds a log file
- Log file within database grows larger every day, and can make SitePro run slow
- Clear log files twice year

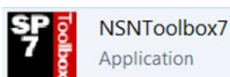
VIDEO

Restoring Your SitePro Data

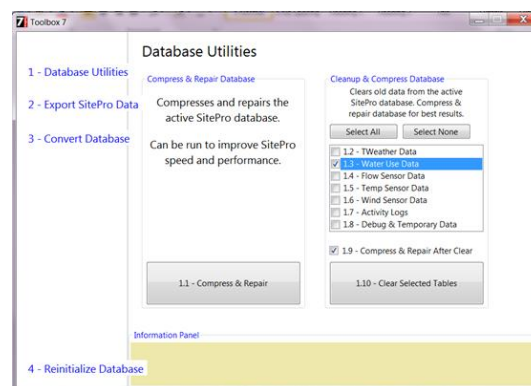
- File → Save As – give file a new name
- It will have the extension “.tzf”
- Say Ok to begin
- Say Done to finish
- SitePro will close and re-open
- File → Open
- Select the database you saved
- Toro File Utility – select



- Open SitePro Toolbox c:\Toro_Toolbox → **NSNToolbox7**

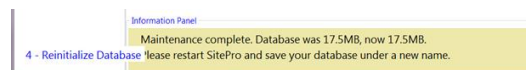


- Select 1 - Database Utilities
- Clear Water Use History
- Compress and Repair Database



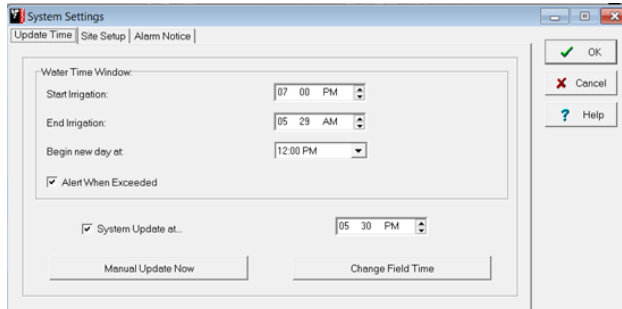
- You will see a notice of the size of the database when process is complete

- Re-Start SitePro and save your database with a new name.



Setup → System Settings → Update Time

○ Update Time (1st tab at top)



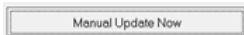
○ Start and End Time

- **Tip:** LTC+, VP - Set time a minimum of 1 hr 15 min prior to irrigation start
- **Tip:** OSMAC, GDC – Set time minimum 30 minutes prior to irrigation start
- If Alert When Exceeded is checked it will trigger the ALARM if irrigation exceeds the water window.

○ Begin new day at

- 12 am, 6 am, or 12 pm
- **Tip:** Leave on 12 pm so all nightly watering is on the same day

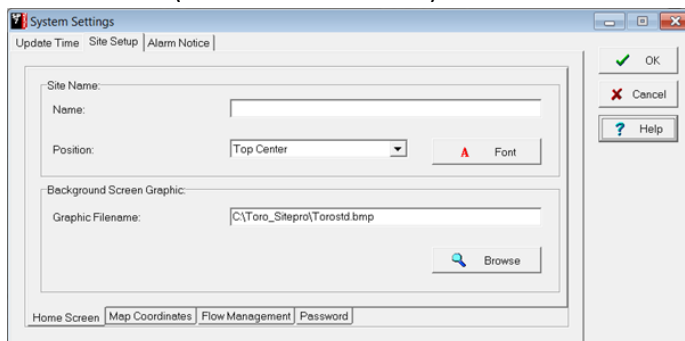
○ Manual Update Now



- Used to on demand send the update to the field

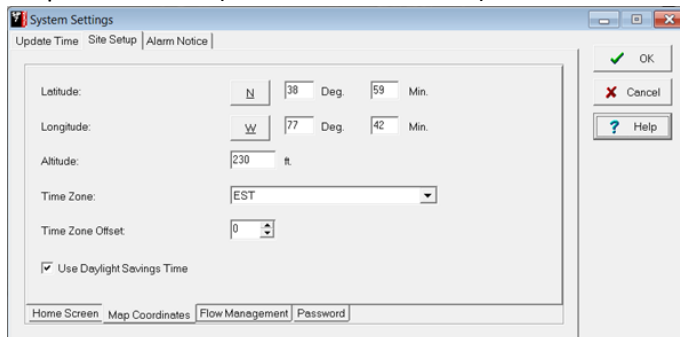
○ Setup → Site Setup (2nd tab at top)

○ Home Screen (1st tab at the bottom)



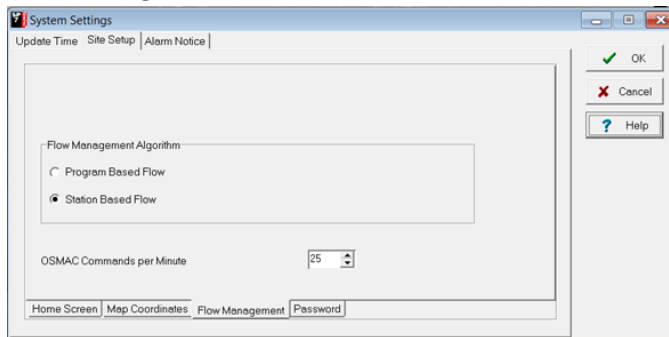
- Put your course name for the home screen and replace the home screen graphic with your own.

○ Map coordinates (2nd tab at the bottom)



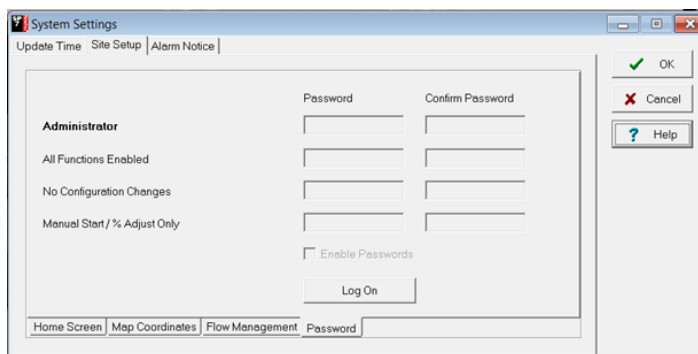
- needed for sunset and sunrise (for “Stop at” times)

○ Flow Management



- Program based – 1 station running, per program, per satellite (All Toro Systems)
- Station based – Optimize the Hydro, Electric, Satellite settings (only Osmac, VP, and GDC)

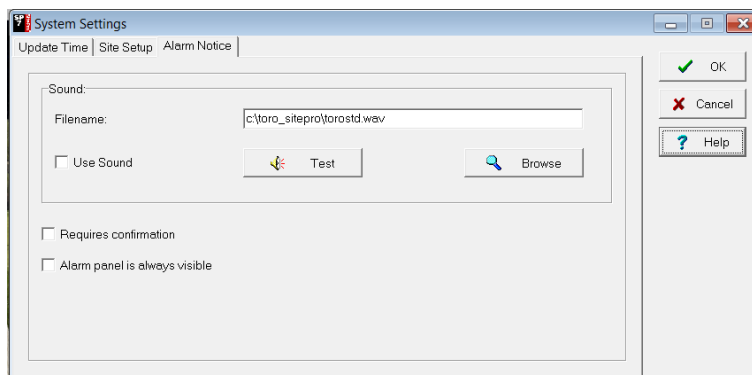
○ Password



- Levels of passwords can be assigned for various levels of access
- Call NSN to configure these

VIDEO Utilizing System Settings

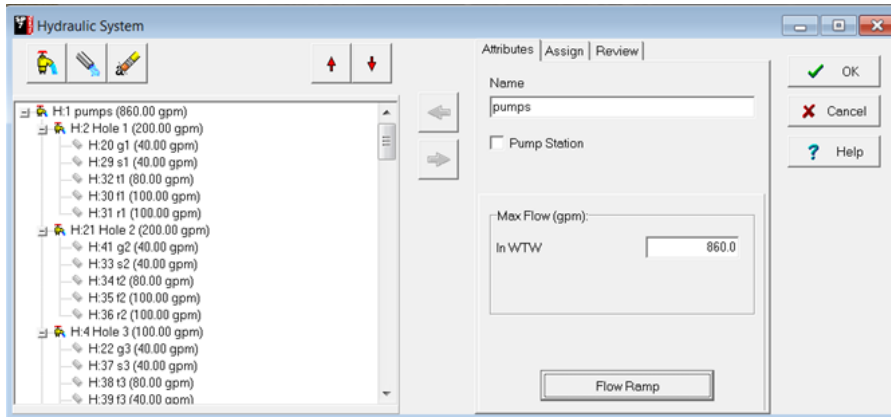
○ Setup → Alarm Notice



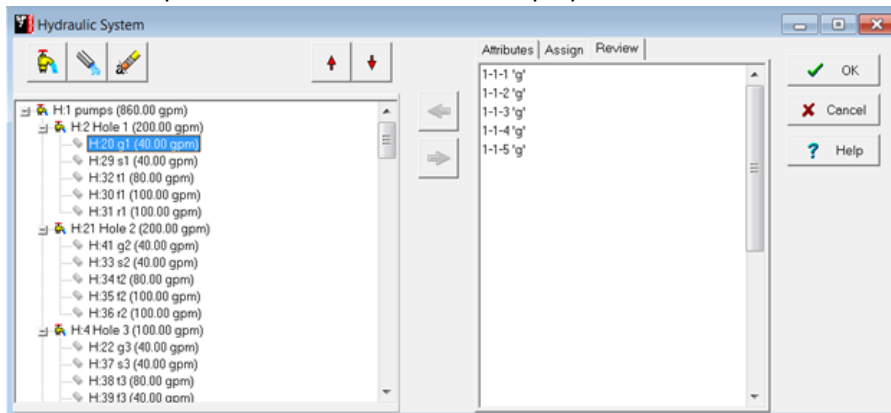
- Settings for selecting particular sounds for alarms and if alarm panel is always visible

Hydraulic System

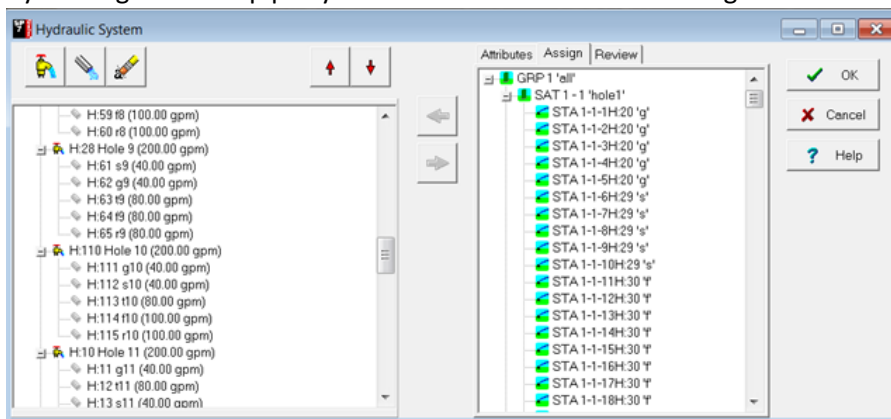
- Setup → Hydraulic System...
- The help screens are very good to explain the process
- First set up a “pump source” and list the Maximum flow



- The flow ramp button can be utilized to ramp up the flow to the maximum gpm



- By clicking on each “pipe” you can see what stations are assigned to them in the “Review” tab



Use the “assign” tab to add or remove stations from each “pipe”

Tip: Use the Reports → Unassigned Stations → Not assigned to a hydraulic link to find any orphaned stations.

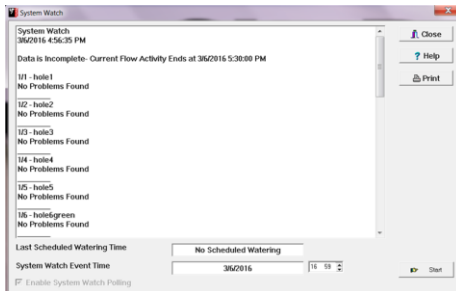


Troubleshooting

- System Watch

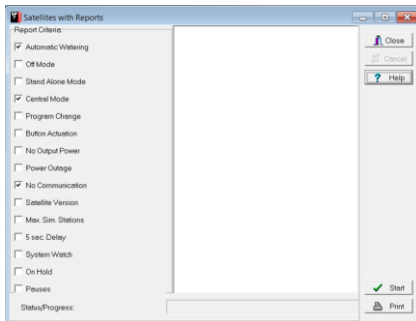


- Shows stations on hold



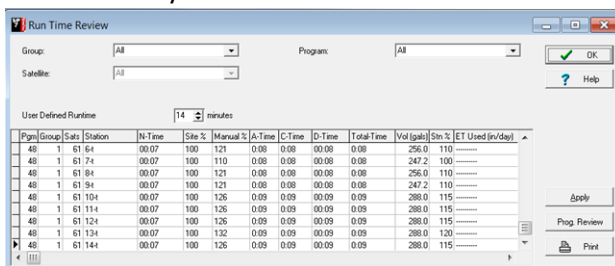
- Diagnostics / Satellites with Reports

- Reports → Satellite with Reports
- Note: Visible for only control systems that have 2-way communication



- Runtime Review

- Reports → Run Time Review...
- This is where you look to see actual run times for each station



	Pgm	Group	Sats	Station	N-Time	Site %	Manual %	A-Time	C-Time	D-Time	Total-Time	Vol (gals)
	48	1	61	6-t	00:07	100	121	0:08	0:08	00:08	0:08	256.0
	48	1	61	7-t	00:07	100	110	0:08	0:08	00:08	0:08	247.2
	48	1	61	8-t	00:07	100	121	0:08	0:08	00:08	0:08	256.0

- N-time = Normal time
- C-time = Cycle time (Repeats)
- A-time = Adjusted time



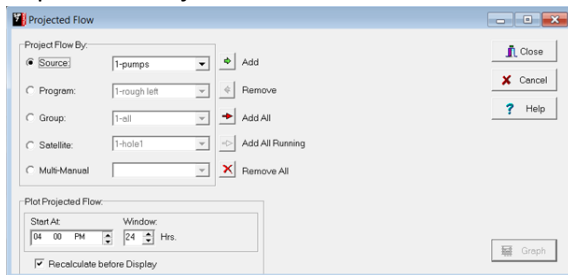
Daily Operations

- Programs
- Scheduled Activity
 - Reports Tab → Clock
 - If the station isn't in the report, it is not scheduled to run
- Run-Time Review
- N-time = Normal time
 - C-time = Cycle time (Repeats)
 - A-time = Adjusted time
- Tools → Flow Log
 - Flow Tab → Report
 - **Black & Blue** = Good
 - **Yellow** = Warning
 - **Red** = Error

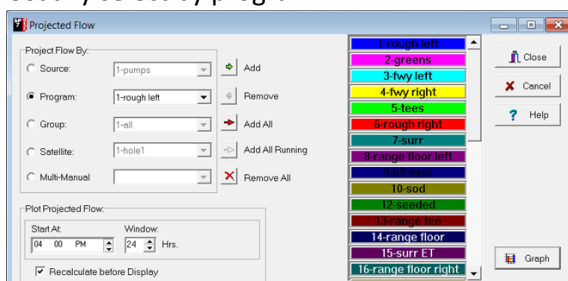
VIDEO Understanding Max Run Time

Projected Flow Graph

- Reports → Projected Flow

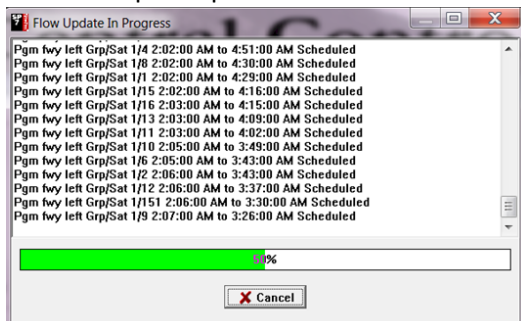


Usually select by program



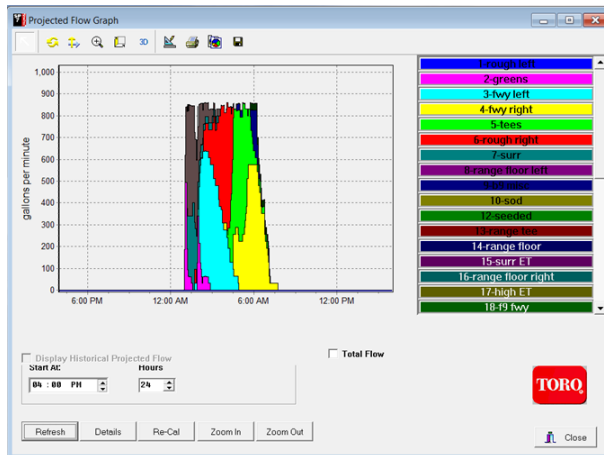
Select Add All button, then select Graph button

The flow Update process will run...

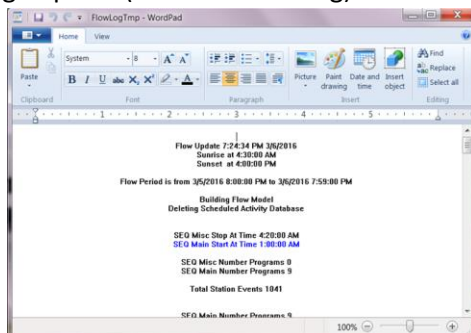


- Flow mgmt.
 - Algorithm – Maximize flow w/o exceeding Hydraulic, Satellite, & electrical settings
- Flow Graph

VIDEO Projected flow and Flow Graph



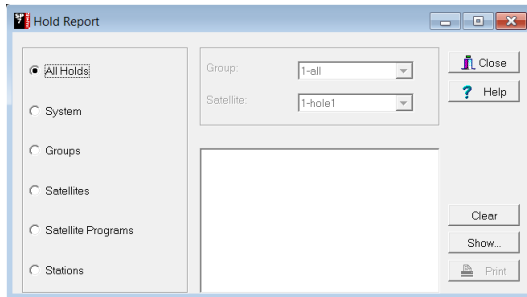
- Right click on map shows what is running at that time
 - Total flow will show projected system total and totals for each program
- Flow Log Report (Tools → Flow Log)



- **Black & Blue** = Good
- **Yellow** = Warning
- **Red** = Error
- TIP: Run this report if you suspect there is a problem so you can view the Flow Update Process. You can catch easily catch errors and get them corrected
 - Watering Past Update Time
 - Can't have active irrigation @ update time



Rain Holds and Cancels



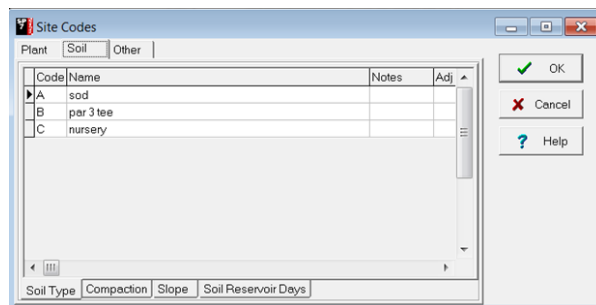
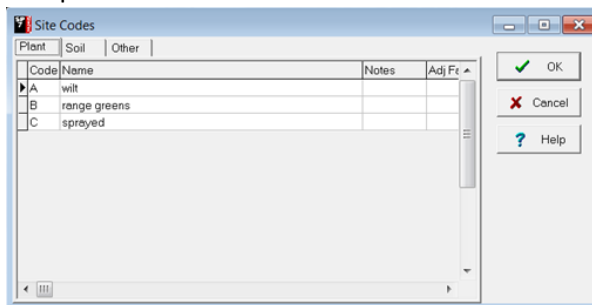
VIDEO Using Holds for SitePro

VIDEO Understanding Rain Holds

- When initiated, 2 separate commands sent out
 - Permanent Hold - stops future irrigation
 - Cancel All - stops current irrigation
 - Sequential command to limit water hammer
 - **TIP:** LTC+ - holds cannot be removed from satellite, only from the central

Site Codes

- Setup → Environmental → Site Codes...



- Adjustment Factors with Names
- DOWN ARROW key adds more lines
- Add site codes
 - Add the Site Code
 - Add it to control system
 - Make % adjustment changes in 'Site Codes'
- Build Programs with Site Codes
 - Make new Site Codes
 - Add to stations in Control System
 - Make a new program
 - Assign stations via Auto Programmer

VIDEO Site Codes to build programs

Building Programs

- PROGRAMS Add new name – 1st drop down is blank
 - Type name & ENTER
 - Run through all tabs
- START TIME Tab
 - Add new program to sequence

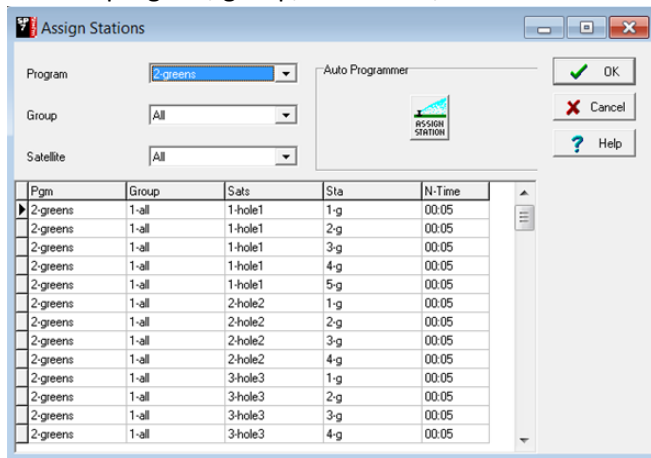
VIDEO Adding new programs

VIDEO Program building in TMap



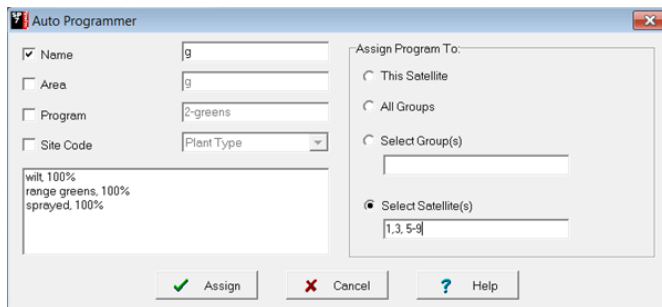
Auto Programmer

- Setup → Assign Stations
- Select a program, group, or satellite, then select the Assign Station button



The Assign Stations dialog box shows a table of station assignments. The table has columns for Pgm, Group, Sats, Sta, and N-Time. The 'Program' dropdown is set to '2-greens', 'Group' is 'All', and 'Satellite' is 'All'. The table lists 18 stations, each with a unique combination of program, group, satellite, and station number, all with an N-Time of 00:05.

Pgm	Group	Sats	Sta	N-Time
2-greens	1-all	1-hole1	1-g	00:05
2-greens	1-all	1-hole1	2-g	00:05
2-greens	1-all	1-hole1	3-g	00:05
2-greens	1-all	1-hole1	4-g	00:05
2-greens	1-all	1-hole1	5-g	00:05
2-greens	1-all	2-hole2	1-g	00:05
2-greens	1-all	2-hole2	2-g	00:05
2-greens	1-all	2-hole2	3-g	00:05
2-greens	1-all	2-hole2	4-g	00:05
2-greens	1-all	3-hole3	1-g	00:05
2-greens	1-all	3-hole3	2-g	00:05
2-greens	1-all	3-hole3	3-g	00:05
2-greens	1-all	3-hole3	4-g	00:05

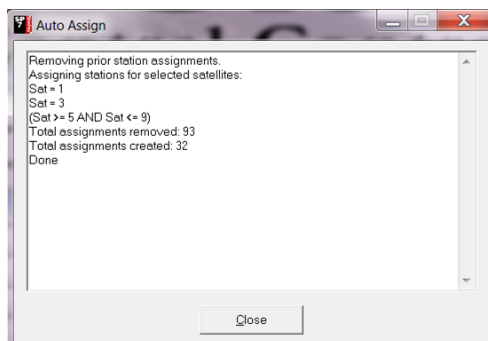


The Auto Programmer dialog box allows users to select criteria for assigning stations. The 'Name' checkbox is checked, and the 'Assign Program To' section has 'Select Satellite(s)' selected. The 'Assign' button is highlighted.

Criteria selected: Name (g), Area (g), Program (2-greens), Site Code (Plant Type).

Assign Program To:
☐ This Satellite
☐ All Groups
☐ Select Group(s)
☒ Select Satellite(s) (1, 3, 5-9)

Select any unique criteria such as Name, Area, Program, or Site Code to sweep up the stations you want in the program. Then select Assign.



The Auto Assign dialog box shows the results of the assignment process. It displays the number of stations assigned and the total number of assignments created.

Removing prior station assignments.
Assigning stations for selected satellites:
Sat = 1
Sat = 3
(Sat >= 5 AND Sat <= 9)
Total assignments removed: 93
Total assignments created: 32
Done

When Auto Assign finishes it will give you a summary of what is has assigned.



Manual irrigation

- Network Systems (LTC, VP, 8000)
 - Programs must be downloaded 1st (rain drop must be **Blue** or **Green** in color)
 - Can run multiple programs at once
- OSMAC, GDC
 - Can only run 1 program at a time
 - If you run a 2nd, the first one will be cancelled
- Syringe Cycle
 - % Scales do not effect syringe cycles

VIDEO  Manual Irrigation Starts

Irrigating with ET

VIDEO  How to Irrigate using ET

VIDEO  How ET run times are created

Switches

- Steps to set up a station as a switch
- Operation of a switch
 - NOTE: If station is designated as a switch it will not be affected by Rain Hold

VIDEO  Setting Up and Using Switches

Alarms and Alarm responses

VIDEO  Alarms & Alarm Response

Reports

Stations with no hydraulic link

VIDEO  Satellites with Reports

Stations on hold report

VIDEO  Database Report Screen

Stations on more than one program

End of Document

Last edit 1-21-2019