

# Groundwater Vistas Version 9

## Licensing & Operating Systems

- Native 64-bit Version of Groundwater Vistas & all models
  - Available in Standard Mode now with size limitations (see next page)!
  - Standard Mode supports MODFLOW-USG and MODFLOW6 in normal grids
- Supports 64-bit Versions of Windows 10 and Window 11
- HASP keys (dongles) allow us to provide upgrades via email (if you have version 7 or 8, you do not need a new dongle)

## Model Versions

- MODFLOW2005 Version 1.12
- MODFLOW-NWT Version 1.3.0 (**New**)
- MODFLOW-USG Version 1.5 (USGS) & Transport Version 2.3.0 (**New**)
- MODFLOW-USG Transport with PHREEQC
- MODFLOW 6 Version 6.4.2 with **SAMG Solver (New)**
- MODFLOW 6 Transport & Density-dependent Flow & Transport
- MT3D-USGS Version 1.1.0
- PEST Version 18 with PEST\_HP and Version 5.2.7 PEST++ IES (**New**)
- PEST\_HP included for highly parameterized inversions (**New**)
- AlgoMesh Version 2 provided in new Professional & Premium licenses

## MT3D Packages & Options

- MT3D-USGS – new version from USGS
- Contaminant Treatment System (CTS) Package
- Streamflow Transport (SFT) Package
- Lake Transport (LKT) Package
- Unsaturated Zone Transport (UZT) Package
- Chain decay and EA/ED Reactions

## MODFLOW Packages & Options

- Updated SAMG Solver for MODFLOW-USG Transport, MODFLOW2005, and MODFLOW6\*
- New Density-dependent flow/transport options in MODFLOW-USG Transport
- Transient Ibound (TIB) for Aquifer and CLN Grids
- Import MODFLOW6 MAW and SFR Input Files
- Time series input for MODFLOW6 Boundary Conditions

- Observation Package support in MODFLOW6
- Matrix Diffusion Transport (MDT) Package in MODFLOW-USG Transport
- Time Variant Hydraulic Conductivity (TVK) and Storage (TVS) in MODFLOW6
- New PFAS Transport Capabilities in MODFLOW-USG Transport
- Average a Series of Transient Stress Periods to Produce a Steady-state Period

## **Groundwater Vistas Interface**

- Maps now stored in the gwv file for better portability
- Convert GV Map files to Shapefiles
- Shapefile projection stored in the gwv file for better portability
- No limit on number of maps
- Ability to Edit Maps and add annotations
- New types of annotations
- Use of Python Scripts at User-defined Stages (e.g. after importing results or creating datasets)
- ET Multipliers for each stress period
- Concentration mass balance for MODFLOW-USG Transport
- VTK export for 3D visualization in Paraview
- Transfer initial concentrations to boundary conditions
- All properties now available in nests and quadrees
- CLN Polyline boundary condition reach numbers

## **Pest and Calibration**

- Pilot points now work in sublayers
- New versions of PEST, PEST++ IES, and PEST\_HP
- Ensemble Space Inversion (ENSI)
- Realization Space Inversion (RSI)

\* Requires additional purchase

## Version 9 Costs

Standard Upgrade from v8 Standard:	\$ 650
Advanced Upgrade from v8 Advanced:	\$ 850
Pro Upgrade from v8 Professional**	\$1,050
Premium Upgrade from v8 Premium**	\$1,700
Algomesh Version 2 Upgrade	\$ 600
New Standard License	\$1,850
New Advanced License	\$2,450
New Professional License	\$3,750
New Premium License	\$4,950
Add Remote Desktop to Adv, Pro, Premium	\$1,250
Upgrade from V9 Standard to Advanced	\$ 600
Upgrade from V9 Advanced to Professional	\$1,300
Upgrade from V9 Professional to Premium	\$1,200
Standard Upgrade from v7 Standard:	\$1,350
Advanced Upgrade from v7 Advanced:	\$1,800
Pro Upgrade from v7 Professional**	\$2,300
Premium Upgrade from v7 Premium**	\$3,600

### Notes:

- Upgrades from version 9 prior to December 1, 2024 will maintain a version 8 and version 9 license on the same hasp key (dongle). After December 1, 2024, licenses on the hasp keys will be replaced with version 9 only.
- New Version 8 licenses purchased after January 1, 2024 will receive a free upgrade to version 9. (Note this does not include version 8 upgrades, only new licenses).
- Upgrades from Version 7 will end on October 1, 2024. After that date, you must purchase a new version 9 license if you want to continue receiving technical support and upgrades.

\*\* You may still use the AlgoMesh license from version 1 or version 2 with Groundwater Vistas version 9.

# Differences Between Levels

## **The Standard version:**

- Limited to 1,000,000 nodes
- Limited to 250 stress periods
- Can use MODFLOW-USG, but only for rectangular grids

## **The Advanced version adds the following over standard:**

- Pest SVD-Assist and Null Space Monte Carlo
- Pest++-IES (Integrated Ensemble Smoothing)
- Pest Linear Uncertainty Analysis
- BEOPEST/PEST\_HP/Pest++ IES support
- HUF Package support
- Conduit Flow Process support
- Monte carlo simulation
- MODFLOW-USG/MODFLOW6 transient material properties
- MODFLOW-USG for unstructured grids (normal, nested, and quadtree grids)
- MODFLOW 6 for unstructured grids (normal, nested, and quadtree grids)
- Sea Water Interface (SWI) Package

## **The Professional version has everything from the Advanced level plus:**

- Includes AlgoMesh license for designing voronoi and triangular grids
- Import of MODFLOW-USG models and MODFLOW6 models
- Average a series of transient stress periods to create a steadystate period
- PHREEQC version of MODFLOW-USG for reactive transport modeling
- AquiferWin32 license (includes Winflow/Wintran) for aquifer test analysis
- GW3D viewer (MODFLOW2005 only)
- Support for MODHMS (integrated surface water/groundwater model - MODHMS is a separate license)

## **The Premium version has all of the above plus the SAMG Solver (MODFLOW-2005, MODFLOW6 & MODFLOW-USG Transport).**

## Technical Support Policy

Technical support is free for versions 8 and 9. Technical support for version 7 ends with the release of version 9. We will continue to answer questions on version 7. However, those responses will be delayed as we give priority to version 8 and version 9.

We also now have an extended technical support cost of \$600 that applies in three situations:

1. Providing technical support for models with 2 million nodes or larger and/or run times of over 30 minutes. The fee covers one year.
2. Providing technical support for importing existing MODFLOW/MT3D/SEAWAT models created outside of normal GUI's (e.g. GMS, Visual MODFLOW, Groundwater Vistas). In this particular case, the support fee is for each such model.
3. Answering an unusual number of questions. This one will not be used often but we do reserve the right. The fee covers one year.

## Free Webinar on What's New in GV9

**Please register for What's New in Groundwater Vistas Version 9 (Session 1) on May 30, 2024 11:00 AM EDT at:**

<https://attendee.gotowebinar.com/register/8965290708621780573>

After registering, you will receive a confirmation email containing information about joining the webinar.

**Please register for What's New in Groundwater Vistas Version 9 (Session 2) on May 30, 2024 8:00 PM EDT at:**

<https://attendee.gotowebinar.com/register/2791188771520082009>

After registering, you will receive a confirmation email containing information about joining the webinar.

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