

Null Space Monte Carlo Evaluation of the Plateau to River Model

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

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APPROVED

By Sarah Harrison at 8:22 am, Aug 12, 2020

Release Approval

Date

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Terms

CHPRC	CH2M HILL Plateau Remediation Company
ECDF	empirical cumulative distribution functions
F&T	fate and transport
HCZ	high conductivity zone
HISI	Hanford Information System Inventory
NSMC	null space Monte Carlo
OU	operable unit
P2R	plateau to river

1 Purpose

The Plateau to River Groundwater Model (P2R Model) is a groundwater flow and contaminant fate and transport (F&T) simulation model used to support remedial activities conducted by CH2M HILL Plateau Remediation Company at the Hanford Site in Washington State. Figure 1-1 illustrates the P2R Model extents, discretization, and boundary conditions. The P2R Model provides a computational framework to simulate the F&T of contaminants in groundwater associated with the 200-PO-1, 200-UP-1, 200-BP-5, and 200-ZP-1 Groundwater Operable Units (OUs) in the Hanford Site Central Plateau. In addition, the model includes adjacent areas and facilities (e.g., the State Approved Land Disposal Site).

Intended and anticipated uses of the model include calculating water levels, hydraulic gradients, and groundwater flows throughout the model domain (encompassing the 200 West and 200 East Areas) for use in subsequent F&T calculations for contaminants of concern and developing scale-appropriate, telescopic-mesh refinement models for detailed evaluation of areas within the model domain where required.

The overall objective of the modeling effort is to provide a basis for making informed remedial action decisions based on descriptions of current and expected future contaminant concentrations in groundwater at decision points within the OU boundaries. The objective for the model development phase is to create a common modeling platform that can be used for investigations of the Central Plateau groundwater OUs and areas downgradient toward the Columbia River. The P2R Model calibration to historical data observed at the Hanford Site is documented in CP-57037, *Model Package Report for the Plateau to River Model Version 8.3*.

The purpose of this environmental calculation is to describe a null space Monte Carlo (NSMC) evaluation was conducted with the historic calibration of the P2R model. Use of numerical groundwater models is always accompanied with uncertainty in the results produced by a model because models are approximations of reality. Thus, by definition, lack the detail to fully represent observed behavior. Use of numerical techniques, such as a NSMC analysis, can help in identifying and quantifying the potential uncertainties associated with a numerical model such as the P2R Model.

Use of the NSMC approach results in 100 groundwater flow models that are variants of the calibrated P2R Model. These variant models can be used to evaluate uncertainty in model predictions made by the calibrated P2R Model for other analyses. A secondary purpose of the environmental calculation is to establish these variant models for use with other applications.

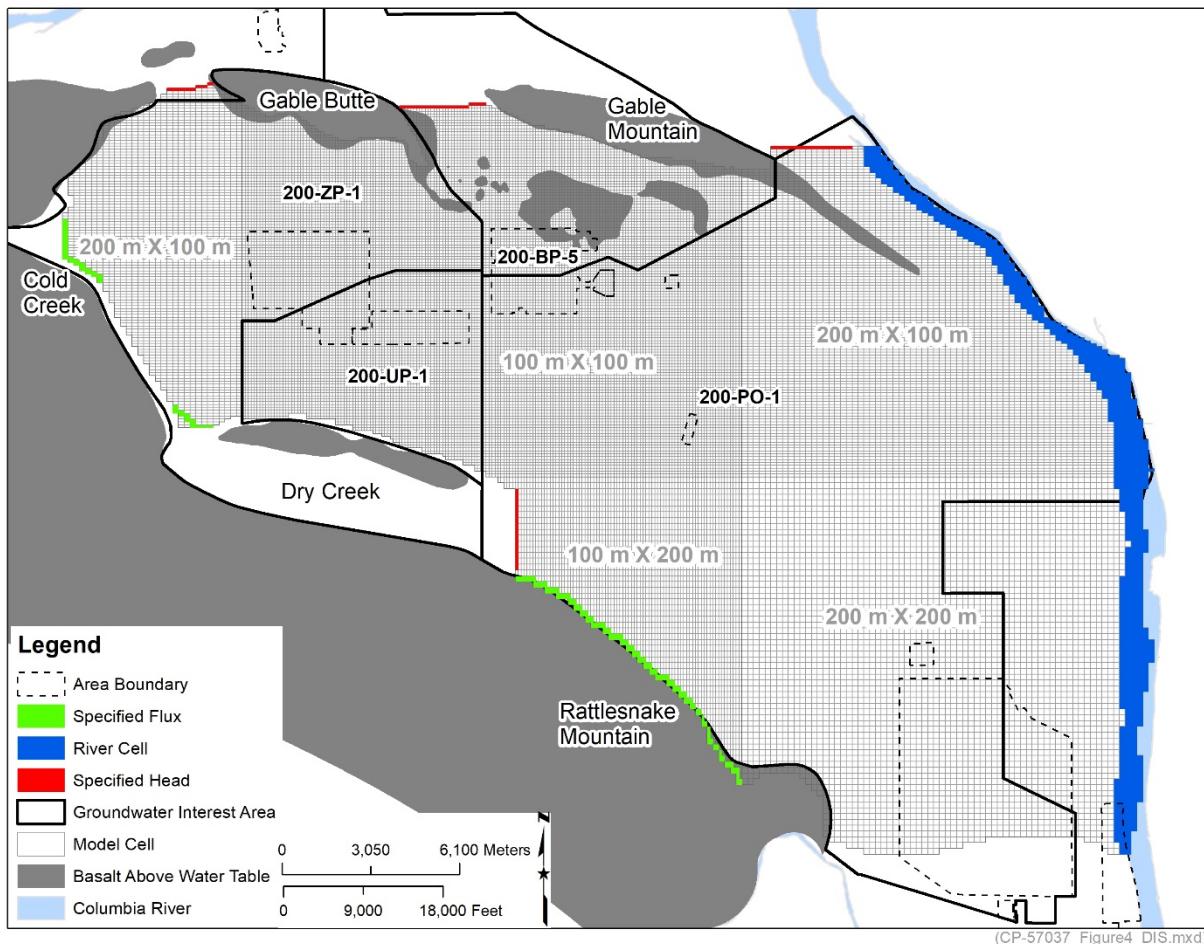


Figure 1-1. P2R Version 8.3 Model Extent, Discretization, and Boundary Conditions

2 Background

NSMC is an algorithm used developed to evaluate uncertainty in numerical model behavior. Application of the algorithm as part of groundwater flow and transport modeling can be achieved through use of the PEST suite of software used as part of the calibration of the P2R Model version 8.3. This section will provide a broad description of what a NSMC evaluation entails by briefly describing traditional Monte Carlo evaluation, the differences between the traditional approach and NSMC, and describe how simulation outputs can be used to understand uncertainty. Details regarding the theory behind NSMC are described in various reports including, PEST Manual (Doherty, 2016), *Approaches to Highly Parameterized Inversion: A Guide to Using PEST for Model-Parameter and Predictive-Uncertainty Analysis* (Doherty et. al., 2010), and *Calibration-constrained Monte-Carlo analysis of highly parameterized models using subspace techniques* (Tonkin et. al., 2009).

2.1 Traditional Monte Carlo Evaluation

Monte Carlo analysis of a mathematical model includes the creation of variant models by sampling the statistical distributions of input parameters and executing the simulations to produce model outputs (Metropolis, et. al., 1953, Hastings, 1970, Metropolis, 1987). The variation of model inputs result in variations of model outputs that can be used to develop a statistical representation of the simulation results rather than relying only on a deterministic model result. To produce the simulation results necessary for describing the statistics of the output sampling the input parameter set is typically done hundreds to thousands of times. This is because each sampled input parameter is created at random and is equiprobable to the other model variants.

In numerical models, like the P2R Model, where large numbers of input parameters are utilized, the Monte Carlo approach can become difficult to manage because the number input parameters that can be varied relative to the time to produce store in memory simulation outputs. For the calibration of the P2R Model 1,058 parameters were used to determine the best match to the historic observation data both quantitatively and qualitatively. Perturbing any of these parameters in a random fashion potentially invalidates the calibration and the results would be deficient compared to the calibrated case. Thus, many variant models are typically needed to ensure at least some of the parameter sets don't invalidate the calibration of the model. Large numbers of variant parameter sets coupled with a large number of input parameters can make the traditional Monte Carlo approach infeasible in many cases.

2.2 NSMC Evaluation

The NSMC approach to uncertainty analysis for highly parameterized models simplifies the traditional Monte Carlo approach by reducing the number of simulations needed to represent the statistical distributions of the model results. The reduction is achieved by utilizing the information gathered through the calibration process of the original model to sample input parameters in such a fashion that each perturbation of the input parameter set results in a model that does not invalidate the calibration based on a quantitative comparison to the historic observation data. The process is completed in the following steps; 1) calculate a Jacobian matrix from the calibrated model; 2) estimate a set of variant model input parameters using the Jacobian matrix to; 3) adjust the variant parameters sets to ensure each set produces calibrated results.

2.2.1 Calculate Jacobian Matrix

A Jacobian matrix is a matrix calculated in such a way that it stores information about how a function with a number of variables changes with respect to other variables. The Jacobian transforms parameter relationships that can be non-linear in nature and approximates their behavior in linear terms. Jacobian

matrices have numerous applications in mathematics and science. In the sense of how they are used in calibration of numerical models the Jacobian matrix is an approximation of how model input parameters will affect the model outputs. As part of the calibration of the P2R Model, PEST calculates the Jacobian matrix. This includes calculating a Jacobian for the final calibrated model.

2.2.2 Create Variant Input Parameters

As with the traditional Monte Carlo approach, model input parameters are randomly sampled from the input distributions to create a set of variant model inputs. However, in NSMC each stochastically derived model parameter is compared to the calibrated parameter and the information in the Jacobian matrix and the stochastically derived value for each parameter is adjusted so the full set provides parameter sets that produce outputs that are approximately calibrated to the observed data. Details on this process are available in Doherty (2016), Doherty et. al. (2010), and Tonkin et. al.(2009). Because this step can only provide input sets that are approximately calibrated the final step of the NSMC is necessary.

2.2.3 Adjust Variant Parameters

Using the Jacobian matrix only produces approximately calibrated models because the cause and effect of model inputs and outputs can behave non-linearly and the Jacobian matrix is a linear approximation of that cause and effect. Thus, the calculation of input parameters sets will not exactly match the previous model calibration. The final step of the NSMC is to run the PEST software to estimate a final parameter set that will bring the model into calibration in a quantitative sense. PEST runs the model iteratively and adjusts the input parameter set until the observations and model output are similar to the calibrated results.

2.3 Simulation Outputs

Once the final set of simulation variants are created each of the models can be executed and the simulation results can be compared. Even though the variant simulations each produce a statistically similar calibration, the variation in the inputs and outputs represent ranges of values that are possible when comparing to the historic observations. Empirical cumulative distribution functions (ECDF) can be illustrative of the range of variation that exists amongst the set of calibrated models. Figure 2-1 shows an ECDF of multiplier applied to total recharge flux in the model and the ECDF of the root mean squared error of each model. The plot illustrates the range of values that can still produce simulation results that are reasonably calibrated and provide an indication of where the calibrated model ranks in comparison to the variant simulations.

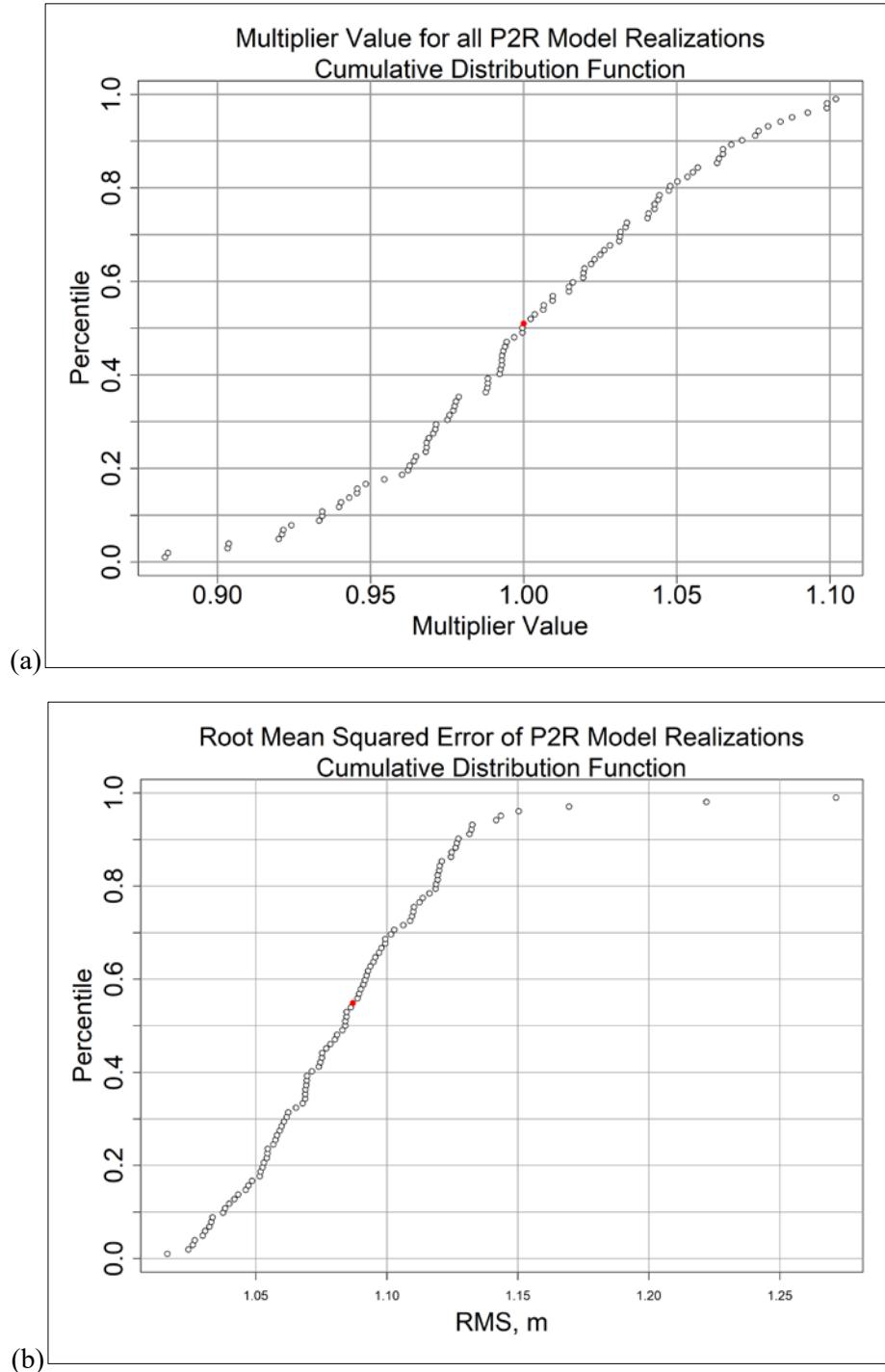


Figure 2-1. Example ECDFs for (a) recharge multiplier and (b) root mean squared error for with each of the variant simulations represented as a separate point on the plot; the calibrated simulation shown as a red dot.

3 Methodology

The steps to generating the set of groundwater fate and transport simulations to evaluate uncertainty in model predictions of the P2R Model version 8.3 are as follows:

1. Calculate the Jacobian matrix using PEST.
 - a. Calibration files developed as part of CP-57037 were used to estimate a Jacobian Matrix using the final calibrated parameters as the initial estimate for parameters.
2. Generate 100 variants of the P2R model input parameter set from the final calibration of version 8.3 of the model.
 - a. RANDPAR is a utility provided in the PEST software suite that stochastically samples the input parameter field of the model and generates the 100 variants
 - b. Input parameters used in the NSMC are the almost same as used in the calibration of the P2R model. The one additional parameter that was included is described in the last item of the list below:
 - i. Pilot point values for hydraulic conductivity, specific yield, and specific storage
 - ii. Specified flux values for mountain front and ancillary anthropogenic recharge
 - iii. A multiplication factor to the total recharge was applied to the entire historic calibration. The multiplier scaled recharge evenly so spatial variation between locations was consistent between the models.
 - c. Parameter statistical distributions for all pilot points were calculated from kriging factors as part of the parameter field development. Recharge parameters assumed a standard deviation of 0.1 m/day for the specified fluxes and 0.5 for the multiplication factor.
3. Project the 100 variants of the parameter space onto the calibration space in order to bring the variants closer to calibration.
 - a. PNULPAR software was executed to project the 100 variant parameter sets onto the solution space using the Jacobian matrix calculated in step 1.
4. Execute PEST using SVDA in order to bring the 100 variants into calibration based solely on the sum of the squared residual objective function used to direct PEST execution.
 - a. The PARREP utility was used to update the base PEST control file and execute simulations designed to bring all variant models into a consistent calibration.
 - b. The objective function of the calibrated P2R Model version 8.3 was calculated at 13233 m². The threshold for determining calibration for the variant models was set at 15000 m².
5. Execute the 100 calibrated variants for the historic groundwater flow simulation.
6. Evaluate the inputs and outputs of the 100 calibrated variants to illustrate potential uncertainty bounds in the results.
 - a. Inputs
 - i. Hydraulic Conductivity

1. ECDFs were created showing the distribution of hydraulic conductivity of each variant and the calibrated model to compare the spread of values through all models. These were created for both inside and outside the high conductivity zone (HCZ) of the model.
2. Plan view maps of spatial variation of hydraulic conductivity were created showing statistical thresholds for each location.
 - a. The hydraulic conductivity fields for each variant was tabulated into a set of arrays.
 - b. Each cell location contained 101 values (100 model variants, 1 calibrated model)
 - c. ECDF for each cell was calculated at the 90th, 50th, and 10th percentile, the standard deviation, and standard deviation of the log of hydraulic conductivity were plotted for each cell location.
3. Cross-plots of head residual RMS and the 50th percentile of hydraulic conductivity were created to evaluate any trends in the distribution of hydraulic conductivity had on the match between historic and simulated data.

ii. Recharge

1. ECDFs were created showing the distribution of hydraulic conductivity of each variant and the calibrated model to compare the spread of values through all models. These were created for both inside and outside the HCZ of the model.
2. Cross-plots of RMS and the specified flux recharge inputs and the multiplier for total recharge were created to evaluate any trends the recharge parameters had on the match between historic and simulated data.

b. Outputs

i. Simulated Hydraulic Head

1. Hydrographs of observed and simulated hydraulic head were created using the simulated results from all model variants and the calibrated model for comparison.
2. Plan view maps of spatial variation of hydraulic head were created showing statistical thresholds for each location.
 - a. The hydraulic conductivity fields for each variant was tabulated into a set of arrays.
 - b. Each cell location contained 101 values (100 model variants, 1 calibrated model)

3. ECDF for each cell was calculated the 90th, 50th, and 10th percentile, the standard deviation, and standard deviation of the log of hydraulic conductivity were plotted for each cell location.

ii. Simulated Travel Times

1. Particle paths were calculated from the middle of 200-East Area and the edge of the transition area between 200-West and 200-East.
2. Travel times were calculated for each of the 100 variant models and the calibrated model
3. Plan view maps showing the number of particles passing through different parts of the model were plotted to show locations where the majority of models indicated water would pass.
4. ECDFs of particle travel time were created for each variant for comparison to the calibrated model.

iii. Volumetric Water Balance

1. The average volume of water flux moving through the Gable Gap, from 200-East to 200-West, and exiting 200-East toward the Columbia River were tabulated over the final three years of the simulation for the 100 variant models and the calibrated model.
2. ECDF was created for each of these volumetric flux rates for all model variants.

4 Assumptions and Inputs

The inputs for the creation of the NSMC analysis of the P2R Model are based on inputs presented in CP-57037. The selected input parameters used as part of the analysis are shown in Table 4-1 along with their calibrated value. These values will be altered according to the methodology in Section 3 to produce the NSMC variant models necessary for evaluating possible uncertainty in the input parameters and simulation results. The pilot point values for determining hydraulic properties of the soil are summarized in the table rather than included individually due to the number of values. Model files used to execute the simulations for the NSMC are archived in the Environmental Modeling Archive as required by procedure. The model files include the base MODFLOW simulation files for the P2R Model version 8.3 and the PEST software input files needed to execute the NSMC simulations. The simulation inputs contain the complete list of the parameters of all 100 simulations executed as part of the NSMC.

Table 4-1. Calibrated Model Input Parameter Summary for P2R Model Version 8.3

Recharge Parameters							
Soil Type	Units			Calibrated Value			
Ancillary Anthropogenic Recharge							
200 East Area	mm/yr (m ³ /d total)				130 (1,893)		
200 West Area	mm/yr (m ³ /d total)				9 (151)		
Mountain-Front Recharge							
Dry Creek	mm/yr (m ³ /d total)				1,727 (662)		
Cold Creek	mm/yr (m ³ /d total)				667 (511)		
Rattlesnake Mountain	mm/yr (m ³ /d total)				197 (1,074)		
Horizontal Hydraulic Conductivity (m/d)							
HSU	HCZ Location	Minimum	Maximum	Mean	50 th Percentile	10 th Percentile	90 th Percentile
Hanford formation	Outside	0.5	5,863	377	1.1	41	1,274
Cold Creek unit		0.5	1,326	97.4	0.56	14	362
Rtf		0.5	2,230	23.9	0.5	1.2	14
Rwie		0.5	3,273	16.4	0.81	5.8	24
Rlm		1.80E-03	7.89E-02	0.007613	1.80E-03	2.94E-03	1.98E-02
Rwia		0.31	15	3.9	0.5	1.4	11.4
Hanford formation	Inside	19	17,411	6,168	133	2,094	15,375
Cold Creek unit		0.5	24,089	6,257	402	4,842	15,031
Rtf		0.5	9,750	1,669	0.76	216	5,527
Rwie		0.5	13,366	898	0.86	184	2,086
Rlm		1.80E-03	6.51E-03	0.002944	1.80E-03	2.73E-03	4.58E-03
Rwia		0.5	9.49	1.0	0.5	0.70	1.69

Table 4-1. Calibrated Model Input Parameter Summary for P2R Model Version 8.3

HSU	=	hydrostratigraphic unit	Rwia	=	Ringold Formation member of Wooded Island – unit A
Rlm	=	Ringold Formation member of Wooded Island – lower mud unit	Rwie	=	Ringold Formation member of Wooded Island – unit E
Rtf	=	Ringold Formation member of Taylor Flat			

5 Software Applications

MODFLOW-2000-MST, Excel®¹, PEST, ArcGIS®², and R software programs were used for this calculation. These are CH2M HILL Plateau Remediation Company (CHPRC) approved software, managed and used in compliance with the policy regarding software. MODFLOW-2000-MST and MT3D-MST are approved calculation software and Excel, PEST, ArcGIS, MODPATH, and R are approved support software (CHPRC-00258).

MODFLOW-2000-MST, and PEST were executed on the Vejovis cluster. The details regarding the cluster are presented below. A copy of the *Software Installation and Checkout Form* for the MODFLOW-2000 and MT3D-MST installation used for this calculation is provided in Attachment A to this ECF.

The Vejovis cluster that is owned by CHPRC and operated by Mission Support Alliance. The Tellus cluster consists of 8 Dell®³ Optiplex® 9020 personal computers. Each with an Intel® Core®⁴ i7-4790 CPU's (4 cores/CPU, 3.6 GHz), 16GB of RAM. The head node (USDOE Property number WF33435) is running Windows®⁵ 10 Enterprise Version 1709 Build 16299.1686. The seven sub nodes are each running Windows 7 Professional Service Pack 1.

Support software for plotting results and formatting files were performed on a laptop computer with U.S. DOE ID WF36586. The hardware is a Dell® Latitude® E5470 with a 2.40-GHz Intel® Core™ i5-6300U processor and 8 GB of RAM loaded with the HLAN Windows® 10 Image Version 14393.1884 operating system.

The results of CHPRC acceptance testing (CHPRC-00261) demonstrate that the MODFLOW-2000/MT3D-MST software is acceptable for its intended use by the CHPRC. Installations of the software are operating correctly, as demonstrated by the Vejovis cluster system.

5.1 Approved Software

For approved calculation software used in this calculation, the required descriptions are provided below.

5.1.1 Description

MODFLOW

- Software Title: MODFLOW-2000-MST
- Software Version: CHPRC Build 8 (executable “mf2k-mst-chprc08dpl.exe”), double precision compilation
- Hanford Information System Inventory (HISI) Identification Number: 2517 (Safety Software, Level C)
- Authorized Workstation type and property number: Vejovis Windows cluster, USDOE # WF33435
- Authorized User: T.J. Budge

¹ Excel® is a registered trademark of Microsoft Corporation in the United States and in other countries.

² ArcGIS® is a registered trademark, or service mark, of ESRI in the United States, the European Community, or certain other jurisdictions.

³ Dell®, Optiplex®, and Latitude® are registered trademarks of Dell, Inc.

⁴ Intel® and Core® are registered trademarks of Intel Corporation.

⁵ Windows® is a registered trademark of Microsoft Corporation in the United States and in other countries.

- CHPRC Software Control Documents:
 - CHPRC-00257 Rev. 1, MODFLOW and Related Codes Functional Requirements Document
 - CHPRC-00258 Rev. 2, MODFLOW and Related Codes Software Management Plan
 - CHPRC-00259 Rev. 1, MODFLOW and Related Codes Software Test Plan
 - CHPRC-00260 Rev. 1, MODFLOW and Related Codes Requirements Traceability Matrix
 - CHPRC-00261 Rev. 1, MODFLOW and Related Codes Acceptance Test Report

5.1.2 Software Installation and Checkout

Copies of the *Software Installation and Checkout Forms* for the authorized users and authorized workstations for software used that requires this documentation are provided in Attachment A to this ECF.

5.1.3 Statement of Valid Software Application

The preparer of this calculation attest that the software identified above, and used for the calculations described in this calculation, is appropriate for the application and used within the range of intended uses for which it was tested and accepted by CHPRC. Because MODFLOW 2000-MST is graded as Level C software, use of this software is required to be logged in the HISI. Accordingly, this environmental calculation has been logged by the software owner in the HISI under Identification Number 2517.

6 Calculation

Simulations completed as part of the NSMC for the P2R Model version 8.3 were executed using the Vejovis Windows computing cluster detailed in Section 5. The PEST suite of software was used to generate the stochastic parameter sets and adjust them to be in alignment with the current calibration. All files used in making this calculation are stored with the ECF document files in EMMA. The steps outlined in Section 3 were completed using several commands entered at a command line prompt. These are outlined below:

6.1 Calculate the Jacobian

The Jacobian matrix was calculated by running the simulation 1,059 times, which represents once for each of the input parameters used in the NSMC. This was accomplished by executing the PEST software with the following commands:

```
./launchPEST_HP case_mc.rmf case_mc.pst
./pest_hp.exe case_mc.pst /H :4004 > case_mc.log &
```

6.2 Generate Parameters

One-hundred variant parameter sets were generated stochastically for the NSMC by running the PEST utility called RANDPAR. Figure 6-1 shows the inputs that were used to generate the 100 variant parameter sets.

```
Enter name of existing PEST control file: case_mc.pst
- 1059 parameters read from file case10.pst.
- 1059 of these are adjustable.

Use (log)normal or (log)uniform distrib for param generation? [n/u]: n
Compute means as existing param values or range midpoints? [e/m]: e
Respect parameter ranges? [y/n]: y

Enter name of parameter uncertainty file: param_base.unc
- reading covariance matrix file hk_cov.mat...
- covariance matrix file hk_cov.mat read ok.
- reading covariance matrix file por_cov.mat...
- parameter uncertainty file param5.unc read ok.

Enter name of parameter ordering file (<Enter> if none): <Enter>

Enter filename base for parameter value files: nsmc_ppt
How many of these files do you wish to generate? 100

Enter integer random number seed (<Enter> if default): <Enter>
```

Figure 6-1. Example batch file used to execute the first of 100 variant simulations to condition the stochastically generated parameter sets to a calibrated variant.

6.3 Project Parameters Using the Jacobian

PNULPAR is the utility from the PEST software suite that projects the stochastic parameter sets onto the solution space in order to bring the sets into calibration. Figure 6-2 shows the inputs used for executing this step in the process.

```

Enter name of PEST control file: case_mc.pst
Does PEST control file contain calibrated parameter values? [y/n]: y

Enter number of dimensions of calibration solution space: 6
Would you like to store Q(1/2)X matrix in matrix file format? [y/n]: n

Enter filename base of existing parameter value files: nsmc_ppt
Enter filename base for new parameter value files: nsmc_nul

```

Figure 6-2. Inputs used to project the stochastically generated parameter sets onto solution space using the Jacobian matrix.

6.4 Re-Calibrate using PEST

Figure 6-3 shows an example bash shell script file that was used to execute each of the PEST simulations

```

ls > run_yeah.tjb
./parrep.exe ../par/nsmc_nul1.par case_mc.pst.kp1 case_nul.pst
./launchPEST_HP case_mc_svda.rmf case_mc_svda.pst
./pest_hp.exe case_mc_svda.pst /H :4004 > case_mc_svda.log
cp case_mc_svda.rei ../par/nsmc_nul1.rei
cp case_mc_svda.rec ../par/nsmc_nul1.rec
cp case_nul.bpa ../par/nsmc_nul1.bpa
rm -f run_yeah.tjb

```

Figure 6-3. Example batch file used to execute the first of 100 variant simulations to condition the stochastically generated parameter sets to a calibrated variant.

6.5 Final Variant Simulation Execution

After the variant parameters sets are created and brought into calibration using the commands in the previous sections, the variant parameters sets were each be used to run the historic calibration simulation to generate estimated hydraulic head and fluxes for the calibration period. Figure 6-4 shows the commands used to execute one of these simulations. The same command was used 100 times to execute all of the models.

```

ls > run_yeah.tjb
./parrep.exe ../par/nsmc_nul1.par case_mc.pst case_nul1.pst
./i64pest.exe case_nul1.pst
rm -f run_yeah.tjb

```

Figure 6-4. Example command for executing the final variant simulations.

7 Results/Conclusions

NSMC analysis results consist of a series of graphics and tables showing the ranges of parameter values and simulated outputs from all of the 100 variant and the calibrated P2R Model version 8.3. The types of figures and what they represent were presented in Section 3. All of the plots described in Section 3 are included in Attachment B to this ECF. Selected plots and a table providing a summary of statistics regarding inputs and outputs are provided in this section, including; 1) ECDFs of the flow budget near 200-East, 2) plan view maps of particle tracking results from 200-East and 200-West for July 2018, and 3) ECDFs of travel times for particles from 200-East and the edge of 200-West to move east of NRDWL.

7.1 200-East Flow Budget

Figure 7-1 shows a boundary surrounding 200-East Area at the Hanford Site that was used to quantify volumetric flow balance near 200-East. Simulated volumetric flow was tabulated for each simulation for flow moving through the Gable Gap, moving from 200-West to 200-East, and traveling south east toward the Columbia River. The values represent a three year average over the final three years of simulation (2016-2018). Figure 7-2 shows three ECDFs, one for each of the flow boundaries, and express the range of values determined by the 100 variants and the calibrated model. The 90th, 50th, and 10th percentile of simulated volumetric flows crossing the three boundaries are 8,068; 4,419; and 1,968; 6,563; 5,989; and 5,515, and 17,853; 12,227, and 9,756, m³/day, respectively.

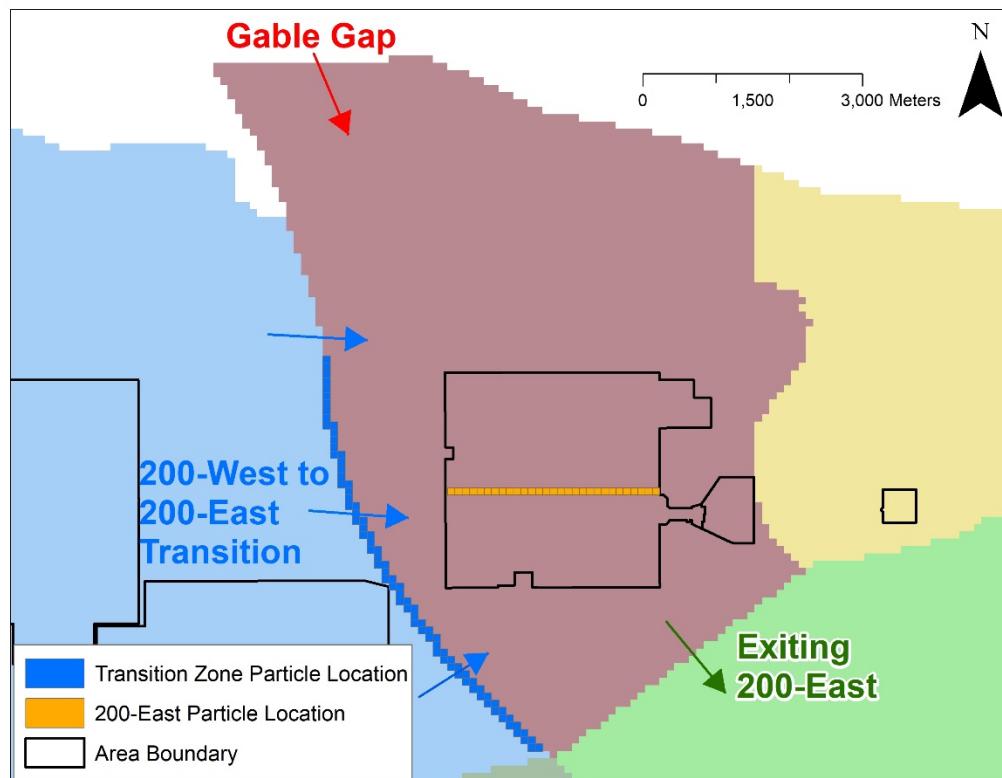


Figure 7-1. Boundary used to tabulate simulated volumetric flux moving from 200-West, through Gable Gap, and toward the Columbia River near 200-East Area.

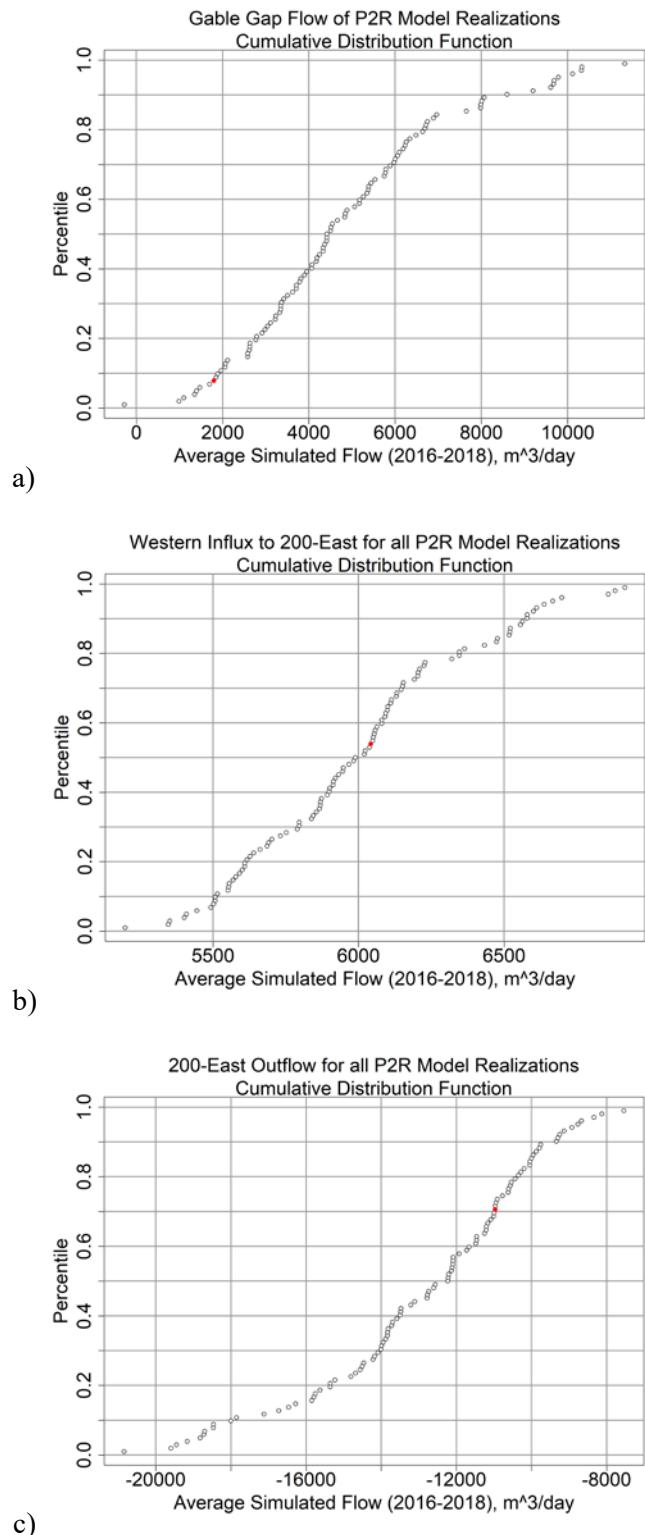


Figure 7-2. ECDFs of simulated volumetric flux for three boundaries (a) Gable Gap, (b) transition from 200-West to 200-East, and (c) exiting 200-East toward the Columbia River.

7.2 Flowpath

The simulated advective movement of groundwater within in the subsurface can be tracked through particle tracking methods and illustrated in space. Particle tracks using MODPATH were simulated from the middle of 200-East and the edge of the transition zone from 200-West to 200-East (shown in Figure 7-1). Locations that the variant and calibrated models indicated could be impacted by future transport of contaminants, based on flow direction only, are shown in Figure 7-3. This map does not indicate that these areas will be impacted. It merely shows the flow direction groundwater is expected to take based on the model simulations conducted as part of this simulation. The higher the number of particles, the more likely the model predicts that groundwater will flow through this area.

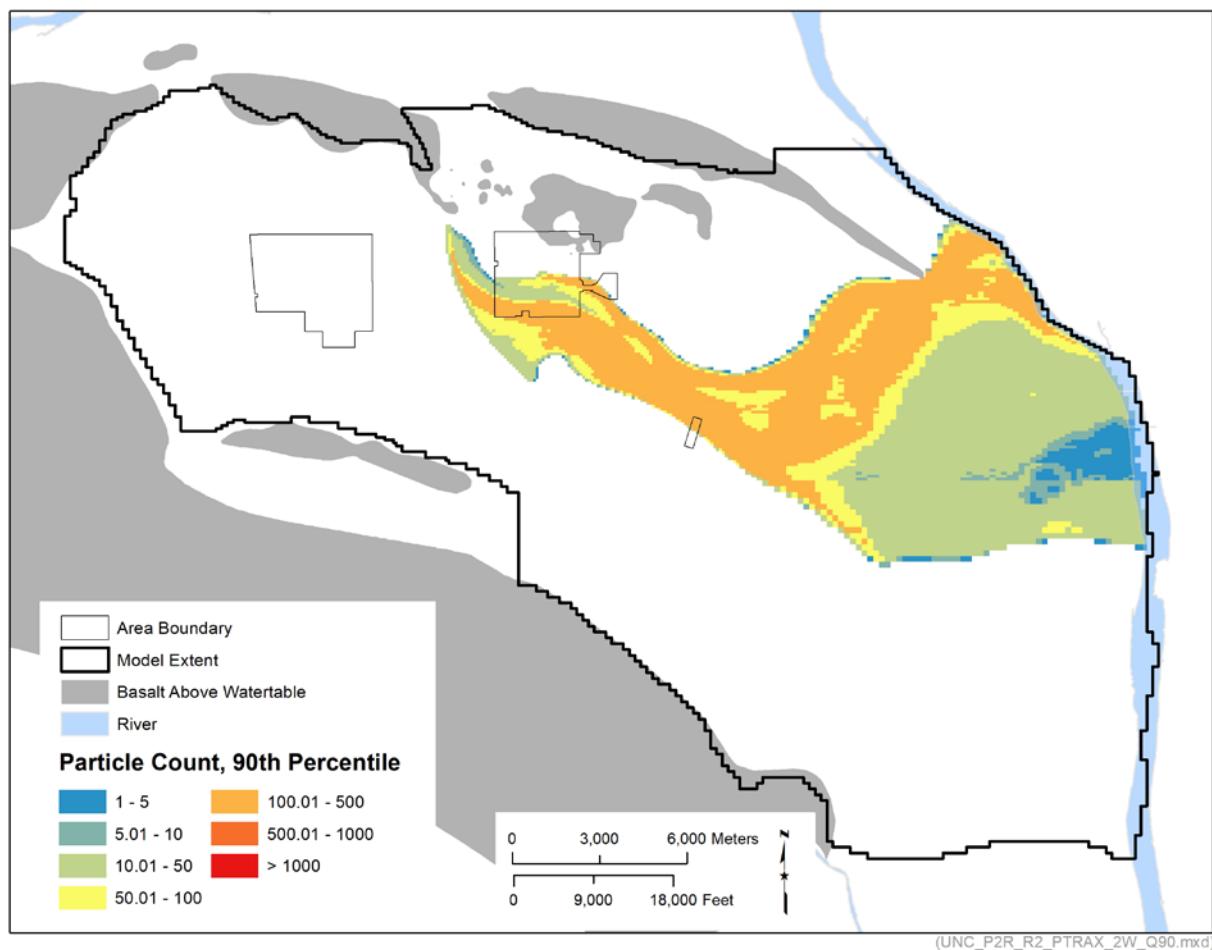


Figure 7-3. Location map of areas indicating the locations the variation in flowpath indicated by the NSMC variant simulations for particles starting in 200-East and the transition from 200-West to 200-East.

7.3 Variation in Travel Time

The simulated time that advective flow of groundwater takes to travel from one location to another can provide an indication when impacts are estimated to reach important receptors. For the NSMC an illustration of the use of the variant calibrated models was conducted to evaluate the travel time of particles from the middle of 200-East and the transition zone from 200-West to 200-East. The travel times of the particles based on conditions in July 2018 were calculated from their starting locations to

approximately NRDWL and from 200-East to the Columbia River. Figures 7-4 and 7-5 show ECDFs of the travel time for the calibrated and variant models for 200-East and the transition zone from 200-West to 200-East. The 50th percentile of simulated travel time from the middle of 200-East toward the southeast past NRDWL ranged from 9.7 to 22 years. For the particles traveling from the transition from 200-West to 200-East the 50th percentile simulated travel time ranged from 22 to 40 years. Figure 7-6 provides the ECDFs for travel times of the variant and calibrated models from 200-East to the Columbia River. The 50th percentile results of all variants ranged from 20 to 95 years.

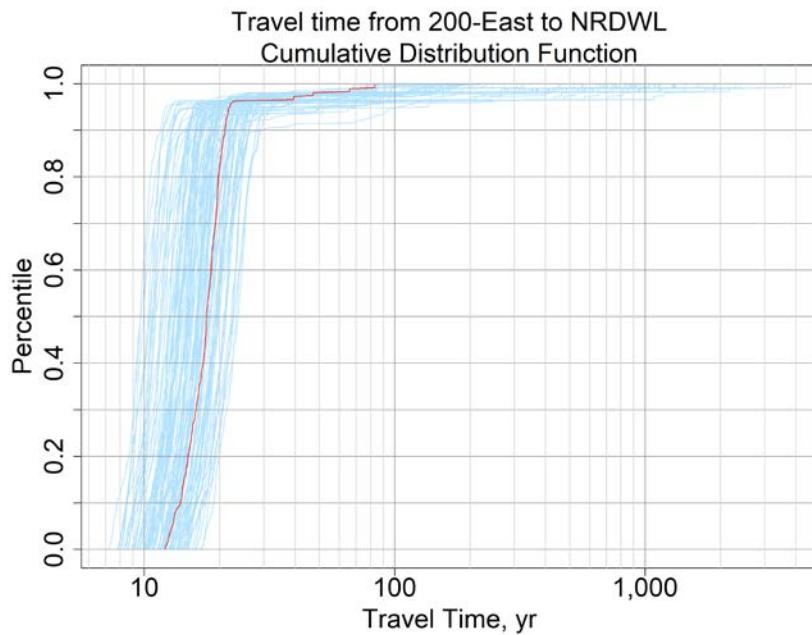


Figure 7-4. Travel times from the middle of 200-East toward the east past NRDWL for simulated conditions in July 2018

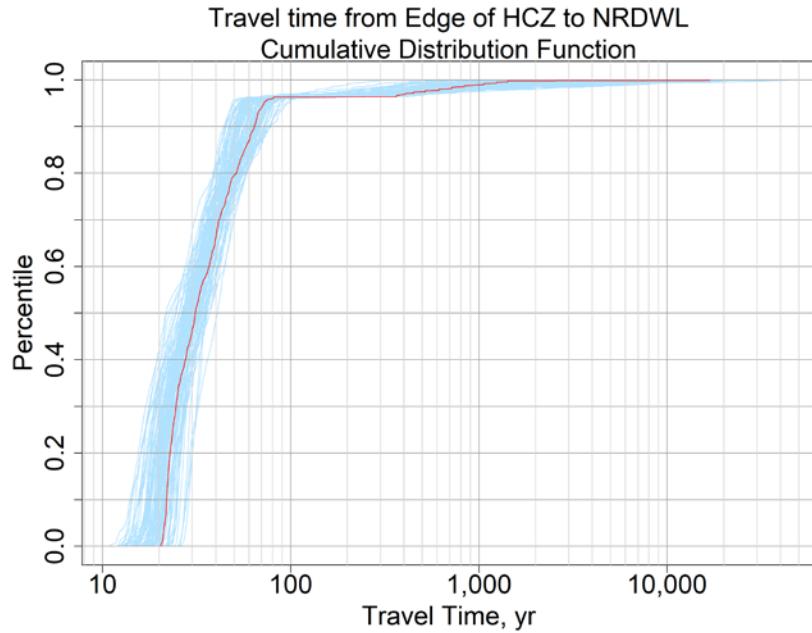


Figure 7-5. Travel times from the transition zone from 200-West to 200-East toward the east past NRDWL for simulated conditions in July 2018

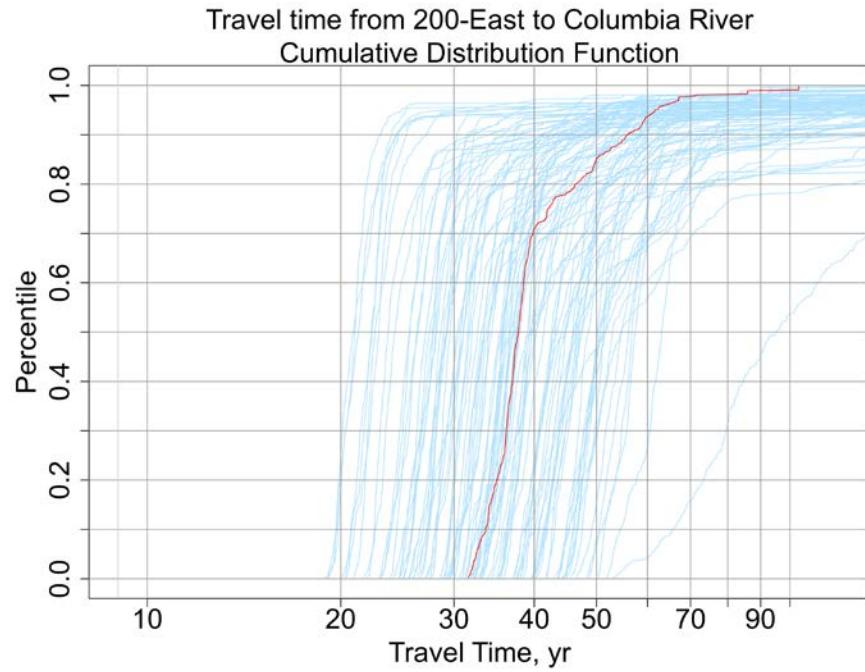


Figure 7-6. Travel times from 200-East to the Columbia River for simulated conditions in July 2018

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Attachment A

Software Installation and Checkout Forms for Approved Software Installations

A.1 Software Installation and Checkout Forms for Approved Software Installations

This attachment provides the requisite software installation and checkout forms for application of the U.S. Geological Survey software MODular Groundwater FLOW code (MODFLOW) (USGS, 2000, *MODFLOW-2000, The U.S. Geological Survey Modular Ground-water Model – User Guide to Modularization Concepts and the Ground-Water Flow Process*) to simulate flow and the Modular Three-Dimensional Multiple Species transport code (MT3DMS) (Zheng and Wang, 1999, *MT3DMS: A Modular Three-Dimensional Multispecies Transport Model for Simulation of Advection, Dispersion, and Chemical Reactions of Contaminants in Groundwater Systems; Documentation and User's Guide*) to simulate contaminant transport.

CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM																																			
Software Owner Instructions: Complete Fields 1-13, then run test cases in Field 14. Compare test case results listed in Field 15 to corresponding Test Report outputs. If results are the same, sign and date Field 19. If not, resolve differences and repeat above steps.																																			
Software Subject Matter Expert Instructions: Assign test personnel. Approve the installation of the code by signing and dating Field 21, then maintain form as part of the software support documentation.																																			
GENERAL INFORMATION: <table> <tr> <td>1. Software Name: MODFLOW and Related Codes</td> <td>Software Version No.: Bld 8</td> </tr> </table>			1. Software Name: MODFLOW and Related Codes	Software Version No.: Bld 8																															
1. Software Name: MODFLOW and Related Codes	Software Version No.: Bld 8																																		
EXECUTABLE INFORMATION: <table> <tr> <td>2. Executable Name (include path):</td> <td colspan="2">Following executable files in directory: (All Machines) [REDACTED]</td> </tr> <tr> <td>MD5 Signature (unique ID)</td> <td>Executable File Name</td> <td></td> </tr> <tr> <td>-----</td> <td>-----</td> <td>-----</td> </tr> <tr> <td>919F74196F5FB0364FC373011B507</td> <td>mf2k-chprc08dp1.exe</td> <td>MODFLOW-2000 double precision</td> </tr> <tr> <td>EAF037703ADD2C62CDD9CBC47468D2F6</td> <td>mf2k-chprc08spl.exe</td> <td>MODFLOW-2000 single precision</td> </tr> <tr> <td>4E7F29DD5496D2CBA7144ADACB13DAAD</td> <td>mf2k-mst-chprc08dpv.exe</td> <td>MODFLOW-2000-MST double prec</td> </tr> <tr> <td>CEB80288C616E0552E4CE5A2D4719387</td> <td>mf2k-mst-chprc08spv.exe</td> <td>MODFLOW-2000-MST single prec</td> </tr> <tr> <td>ECA9828530B68D2D7C3407BC019D5D0C</td> <td>mt3d-chprc08dp1.exe</td> <td>MT3DMS double precision</td> </tr> <tr> <td>0920CC235862665D9400A3FC80F682DD</td> <td>mt3d-chprc08spl.exe</td> <td>MT3DMS single precision</td> </tr> <tr> <td>5C61432D2C898E83DDFE242C52A755AB</td> <td>mt3d-mst-chprc08dpv.exe</td> <td>MT3DMS-MST double precision</td> </tr> <tr> <td>68F89DAF2E6913D2578DE53CBD34FBA0</td> <td>mt3d-mst-chprc08spv.exe</td> <td>MT3DMS-MST single precision</td> </tr> </table>			2. Executable Name (include path):	Following executable files in directory: (All Machines) [REDACTED]		MD5 Signature (unique ID)	Executable File Name		-----	-----	-----	919F74196F5FB0364FC373011B507	mf2k-chprc08dp1.exe	MODFLOW-2000 double precision	EAF037703ADD2C62CDD9CBC47468D2F6	mf2k-chprc08spl.exe	MODFLOW-2000 single precision	4E7F29DD5496D2CBA7144ADACB13DAAD	mf2k-mst-chprc08dpv.exe	MODFLOW-2000-MST double prec	CEB80288C616E0552E4CE5A2D4719387	mf2k-mst-chprc08spv.exe	MODFLOW-2000-MST single prec	ECA9828530B68D2D7C3407BC019D5D0C	mt3d-chprc08dp1.exe	MT3DMS double precision	0920CC235862665D9400A3FC80F682DD	mt3d-chprc08spl.exe	MT3DMS single precision	5C61432D2C898E83DDFE242C52A755AB	mt3d-mst-chprc08dpv.exe	MT3DMS-MST double precision	68F89DAF2E6913D2578DE53CBD34FBA0	mt3d-mst-chprc08spv.exe	MT3DMS-MST single precision
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0920CC235862665D9400A3FC80F682DD	mt3d-chprc08spl.exe	MT3DMS single precision																																	
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3. Executable Size (bytes): MD5 signatures listed above uniquely identify executable files																																			
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5. Operating System (include version number):	Vendor Provided (SSP&A)																																		
INSTALLATION AND CHECKOUT INFORMATION: <table> <tr> <td>6. Hardware System (i.e., property number or ID):</td> <td colspan="2">VEJOVIS CLUSTER (CHPRC), DELL OPTIPLEX 9020, (WF33435, WF33438, WF33436, WF33441, WF33440, WF33437, WF33442, WF33439)</td> </tr> <tr> <td>7. Operating System (include version number):</td> <td colspan="2">WF33435, Windows 10 Enterprise Build 1709, Build 16299.547 All others - Windows 7 Professional Service Pack 1</td> </tr> <tr> <td>8. Open Problem Report? <input checked="" type="radio"/> No <input type="radio"/> Yes</td> <td>PR/CR No.</td> <td></td> </tr> </table>			6. Hardware System (i.e., property number or ID):	VEJOVIS CLUSTER (CHPRC), DELL OPTIPLEX 9020, (WF33435, WF33438, WF33436, WF33441, WF33440, WF33437, WF33442, WF33439)		7. Operating System (include version number):	WF33435, Windows 10 Enterprise Build 1709, Build 16299.547 All others - Windows 7 Professional Service Pack 1		8. Open Problem Report? <input checked="" type="radio"/> No <input type="radio"/> Yes	PR/CR No.																									
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TEST CASE INFORMATION: <table> <tr> <td>9. Directory/Path:</td> <td colspan="2">(All Machines) [REDACTED]</td> </tr> <tr> <td>10. Procedure(s):</td> <td colspan="2">CHPRC-00259 Rev 3, MODFLOW and Related Codes Software Test Plan</td> </tr> <tr> <td>11. Libraries:</td> <td colspan="2">N/A (static linking)</td> </tr> <tr> <td>12. Input Files:</td> <td colspan="2">MF-ITC-1 and MT-ITC-1 inputs</td> </tr> </table>			9. Directory/Path:	(All Machines) [REDACTED]		10. Procedure(s):	CHPRC-00259 Rev 3, MODFLOW and Related Codes Software Test Plan		11. Libraries:	N/A (static linking)		12. Input Files:	MF-ITC-1 and MT-ITC-1 inputs																						
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12. Input Files:	MF-ITC-1 and MT-ITC-1 inputs																																		

CHPRC SOFTWARE INSTALLATION AND CHECKOUT FORM (continued)			
1. Software Name: MODFLOW and Related Codes	Software Version No.: Bld 8		
13. Output Files:	MF-ITC-1 and MT-ITC-1 outputs		
14. Test Cases:	MF-ITC-1 (both standard and MST versions of MODFLOW) - run for single & double precision MT-ITC-1 - run for single and double precision		
15. Test Case Results:	All tests returned identical results to the documented test cases.		
16. Test Performed By:	Trevor Budge		
17. Test Results:	<input checked="" type="radio"/> Satisfactory	Accepted for Use	<input type="radio"/> Unsatisfactory
18. Disposition (include HISI update):	Added to HISI Entries 2157 and 2158. <i>NW</i>		
Prepared By:			
19. 	WE Nichols	Print	7-10-2018 Date
Software Owner (Signature)			
20. Test Personnel:			
	Trevor Budge	Print	8-6-18 Date
Sign			
Sign	Print		Date
Approved By:			
21. 	N/R (CHPRC-00258 Rev 3)	Print	Date
Software SME (Signature)			

A.2 References

USGS, 2000, *MODFLOW-2000, The U.S. Geological Survey Modular Ground-water Model – User Guide to Modularization Concepts and the Ground-Water Flow Process*, USGS Open File Report 00-92, U.S. Geological Survey, Denver, Colorado. Available at: <http://water.usgs.gov/nrp/gwsoftware/modflow2000/ofr00-92.pdf>.

Zheng, Chunmiao and Patrick P. Wang, 1999, MT3DMS: A Modular Three-Dimensional Multispecies Transport Model for Simulation of Advection, Dispersion, and Chemical Reactions of Contaminants in Groundwater Systems; Documentation and User's Guide, Contract Report SERDP-99-1, U.S. Army Engineer Research and Development Center, U.S. Army Corps of Engineers, Vicksburg, Mississippi. Available at: Available at: <http://www.dtic.mil/cgi-bin/GetTRDoc?Location=U2&doc=GetTRDoc.pdf&AD=ADA373474>

Attachment B

Evaluation Result Figures for Null Space Monte Carlo Evaluation

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B Evaluation Result Figures for Null Space Monte Carlo Evaluation

This attachment includes miscellaneous figures produced as part of the null space Monte Carlo (NSMC) evaluation of the groundwater flow component of the Plateau to River Groundwater Model (P2R Model).

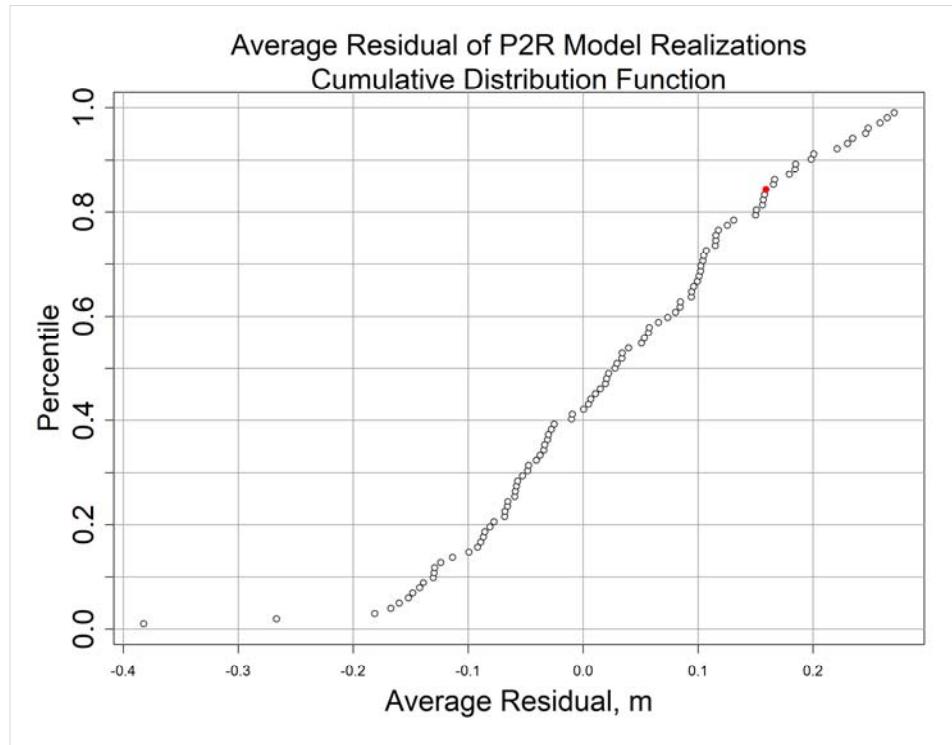


Figure B-1. ECDF of average error between observed and simulated hydraulic head from 1943 to 2018.

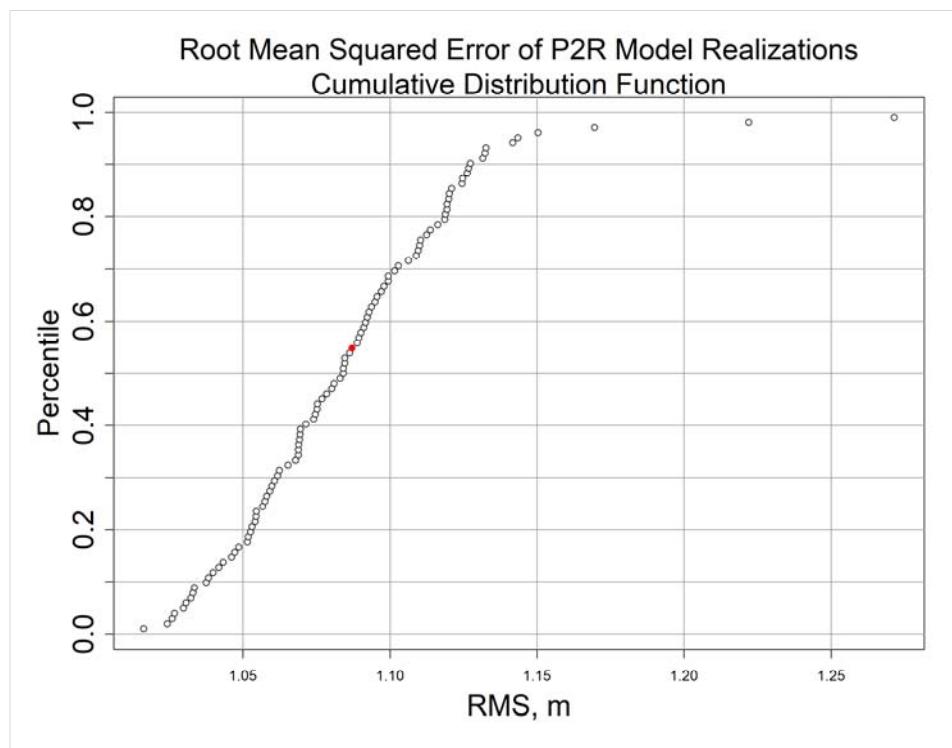


Figure B-2. ECDF of root mean squared error between observed and simulated hydraulic head from 1943 to 2018.

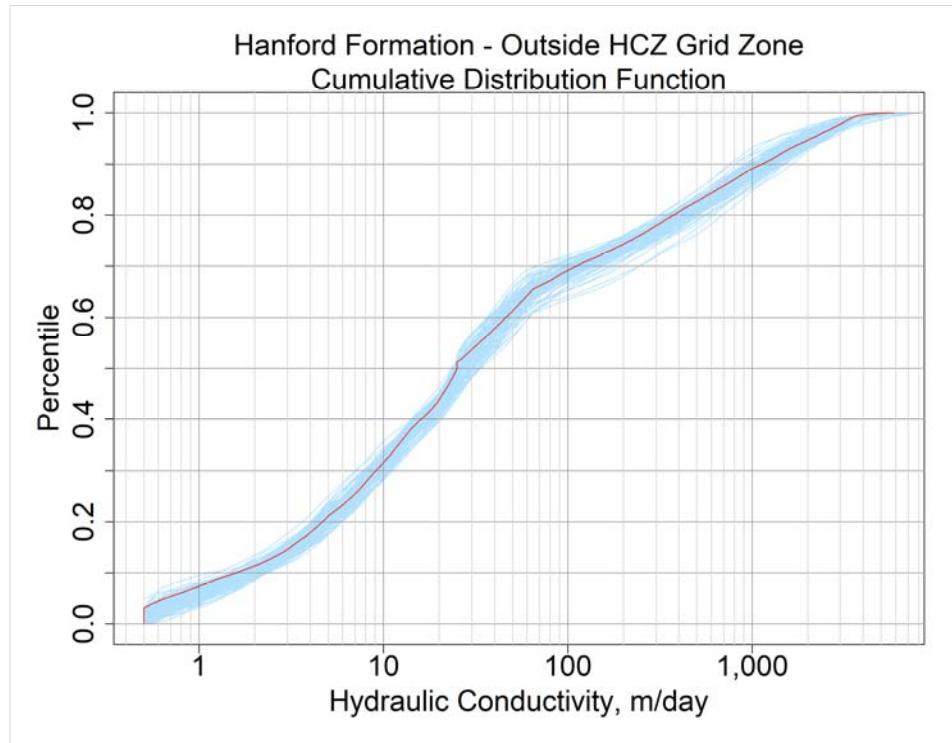


Figure B-3. ECDF of simulated hydraulic conductivity field for the Hanford Formation outside of the HCZ.

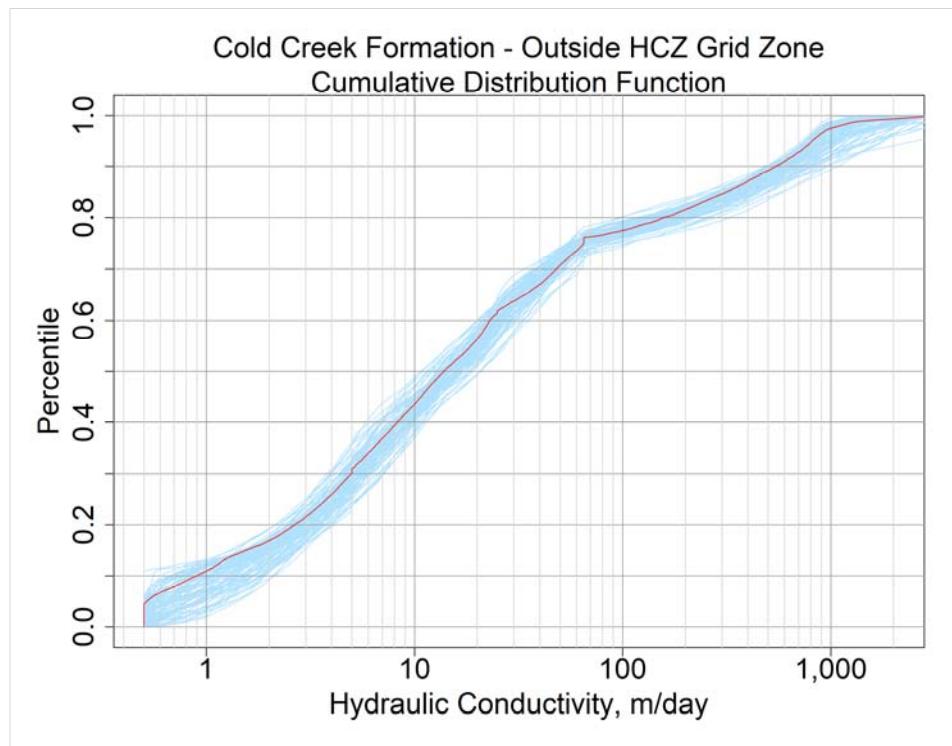


Figure B-4. ECDF of simulated hydraulic conductivity field for the Cold Creek Unit outside of the HCZ.

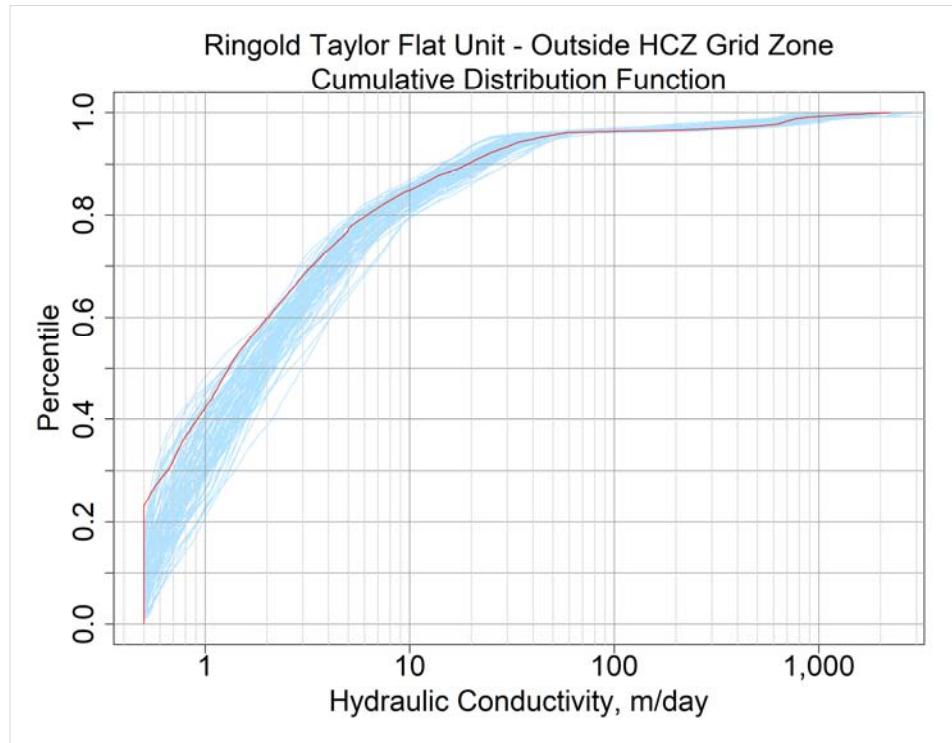


Figure B-5. ECDF of simulated hydraulic conductivity field for the Ringold Taylor Flat Unit outside of the HCZ.

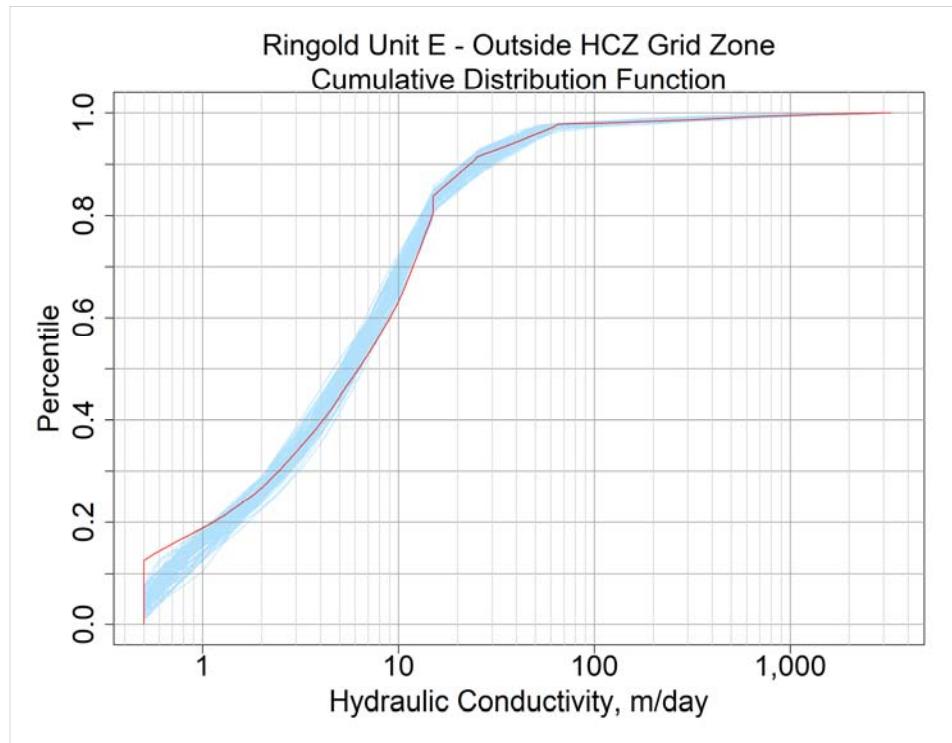


Figure B-6. ECDF of simulated hydraulic conductivity field for the Ringold Unit E outside of the HCZ.

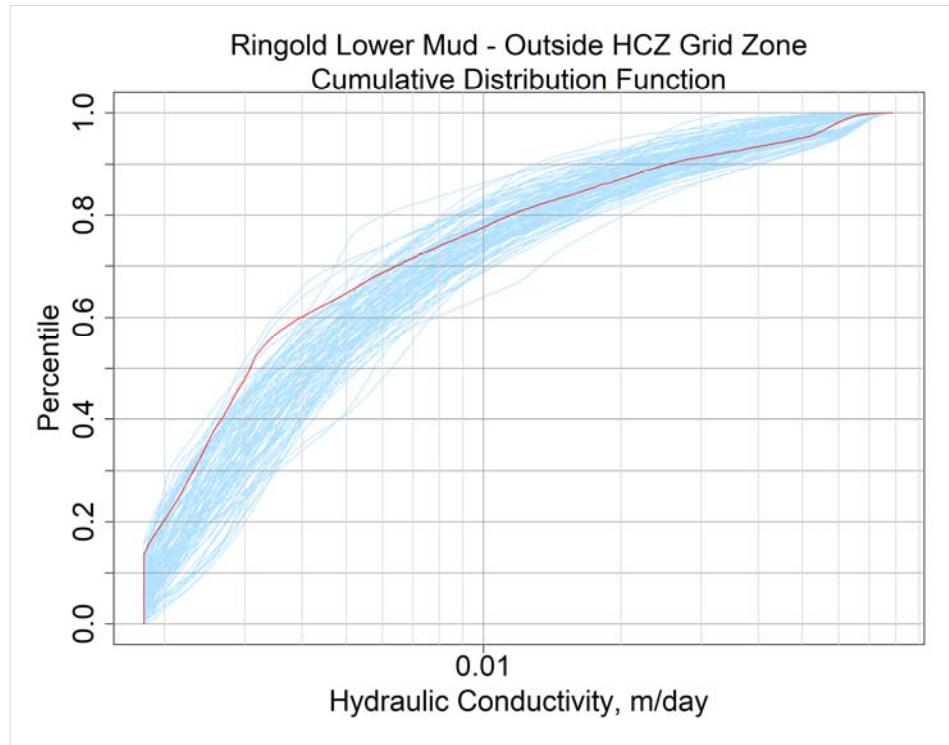


Figure B-7. ECDF of simulated hydraulic conductivity field for the Ringold Lower Mud Unit outside of the HCZ.

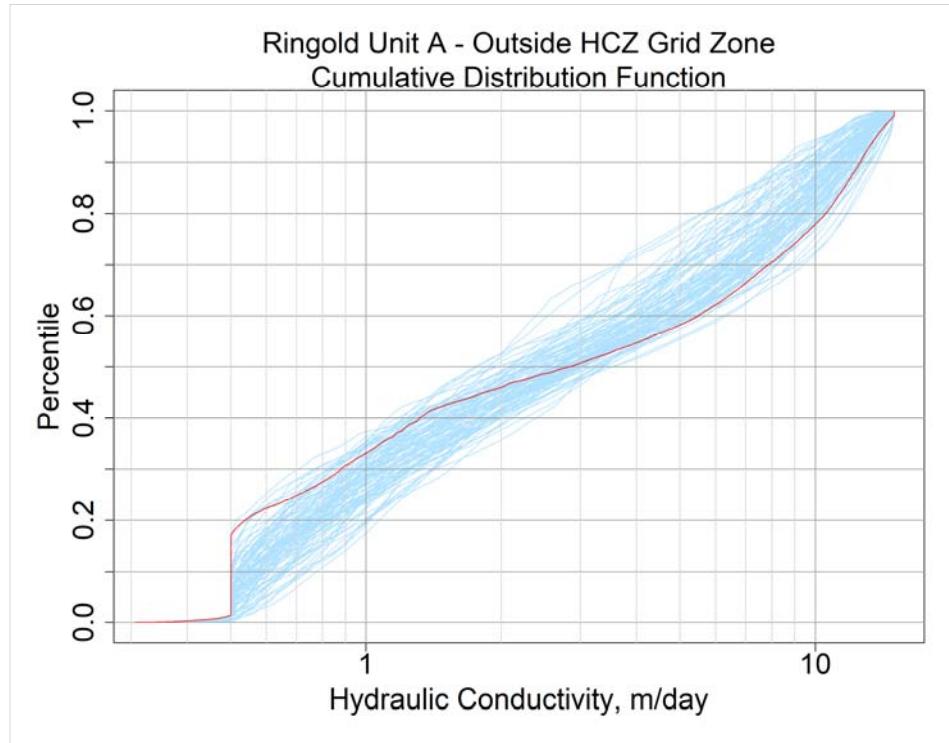


Figure B-8. ECDF of simulated hydraulic conductivity field for the Ringold Unit A outside of the HCZ.

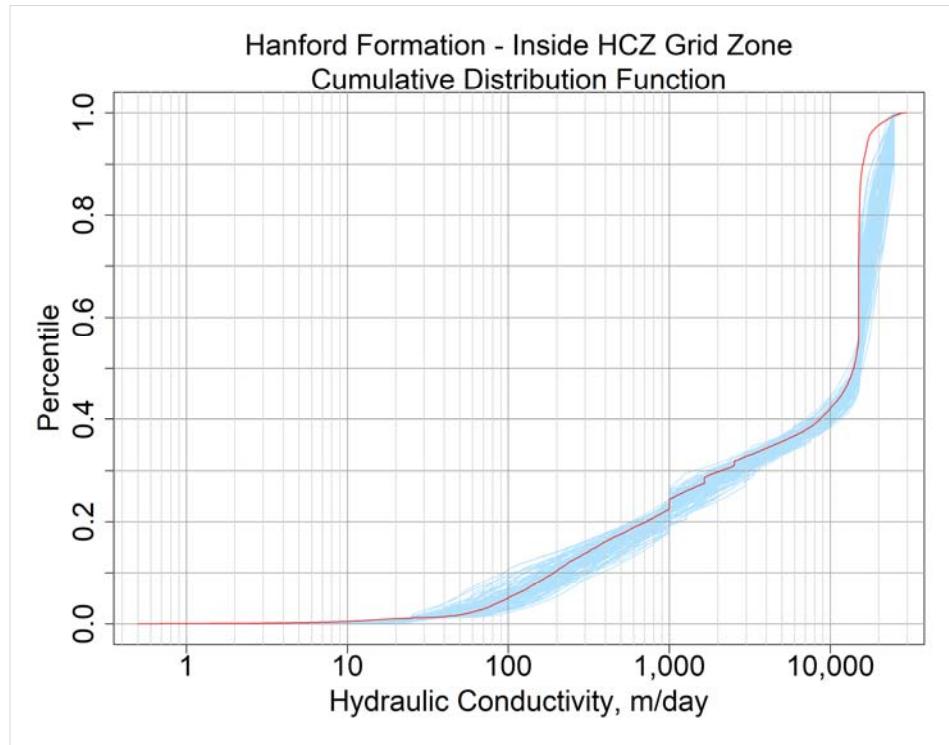


Figure B-9. ECDF of simulated hydraulic conductivity field for the Hanford Formation inside of the HCZ.

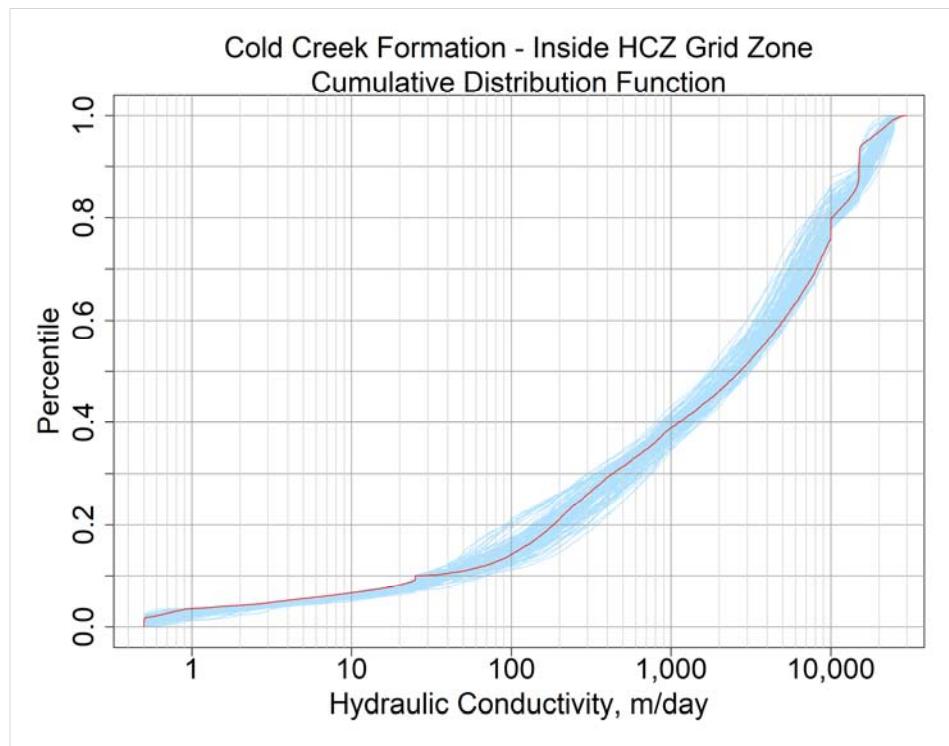


Figure B-10. ECDF of simulated hydraulic conductivity field for the Cold Creek Unit inside of the HCZ.

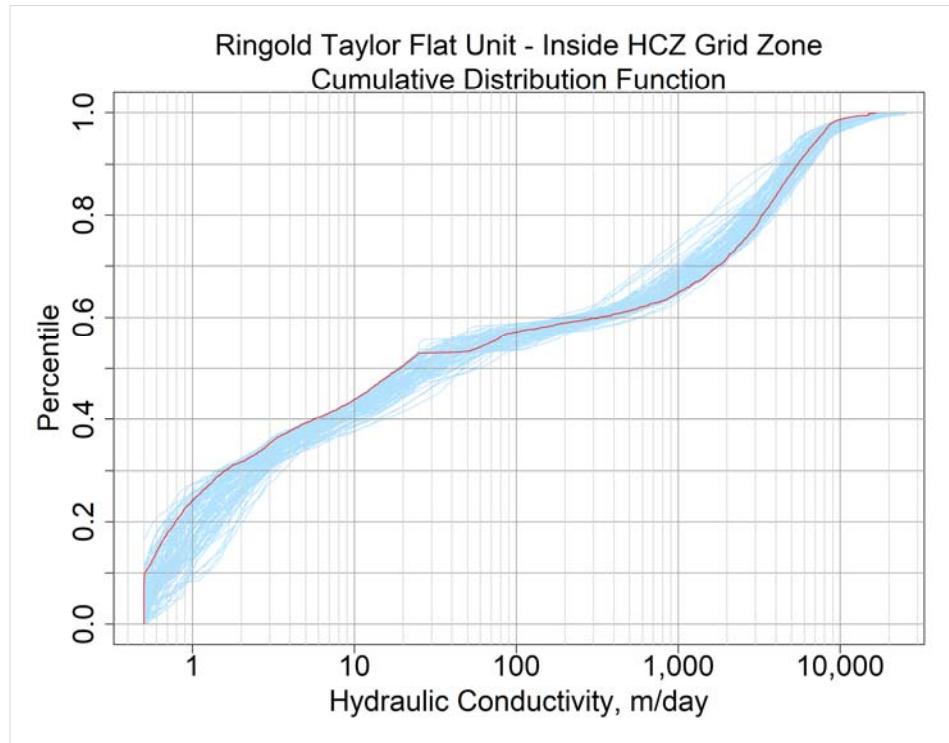


Figure B-11. ECDF of simulated hydraulic conductivity field for the Ringold Taylor Flat Unit inside of the HCZ.

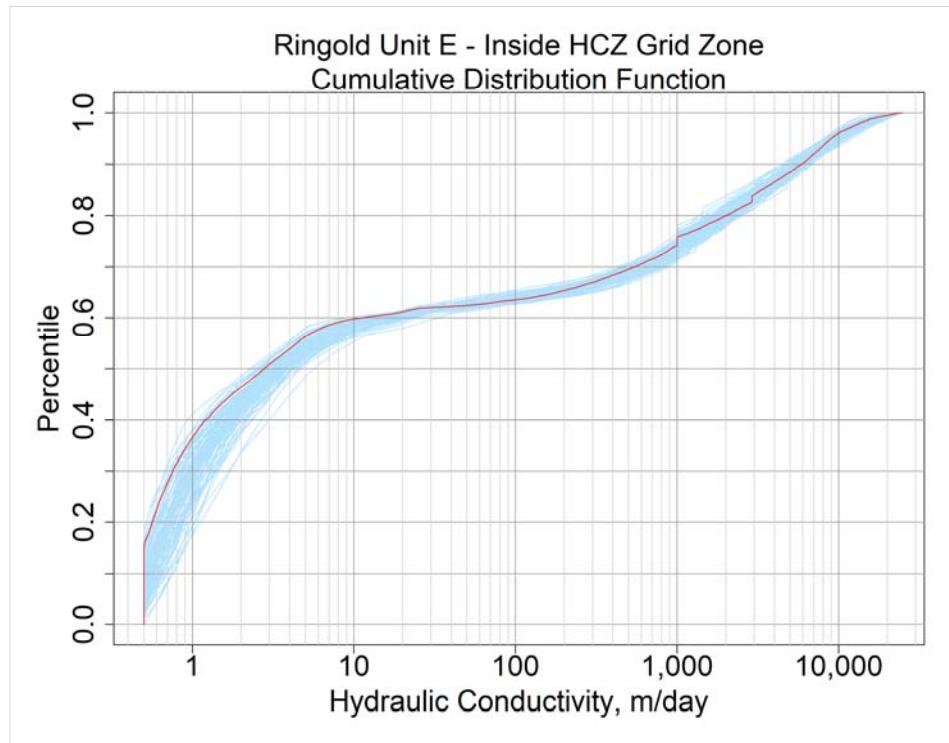


Figure B-12. ECDF of simulated hydraulic conductivity field for the Ringold Unit E inside of the HCZ.

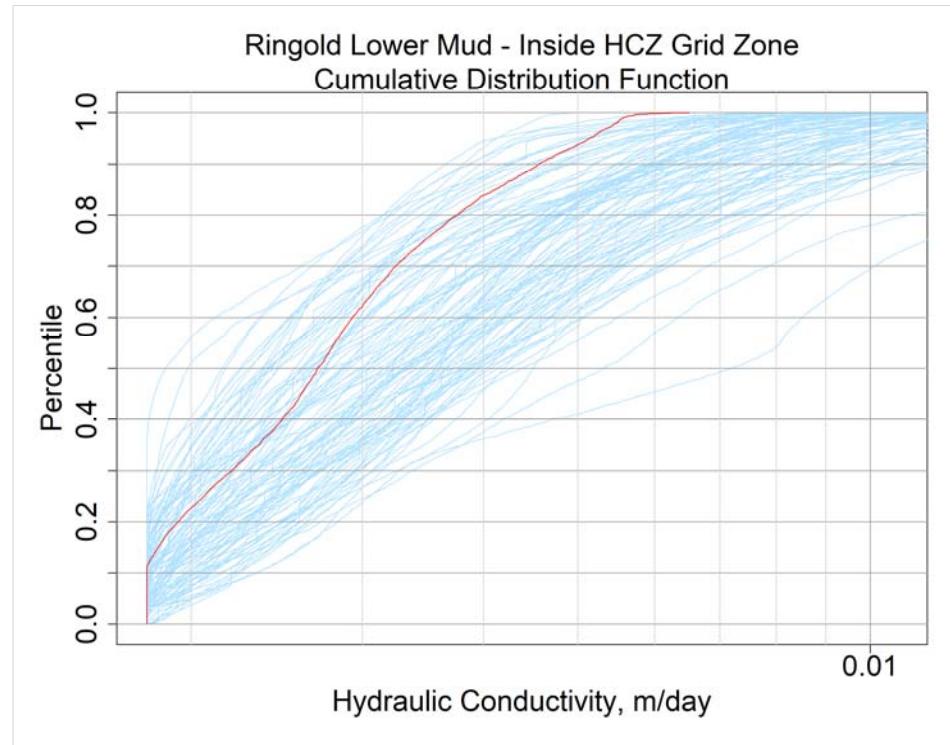


Figure B-13. ECDF of simulated hydraulic conductivity field for the Ringold Lower Mud Unit inside of the HCZ.

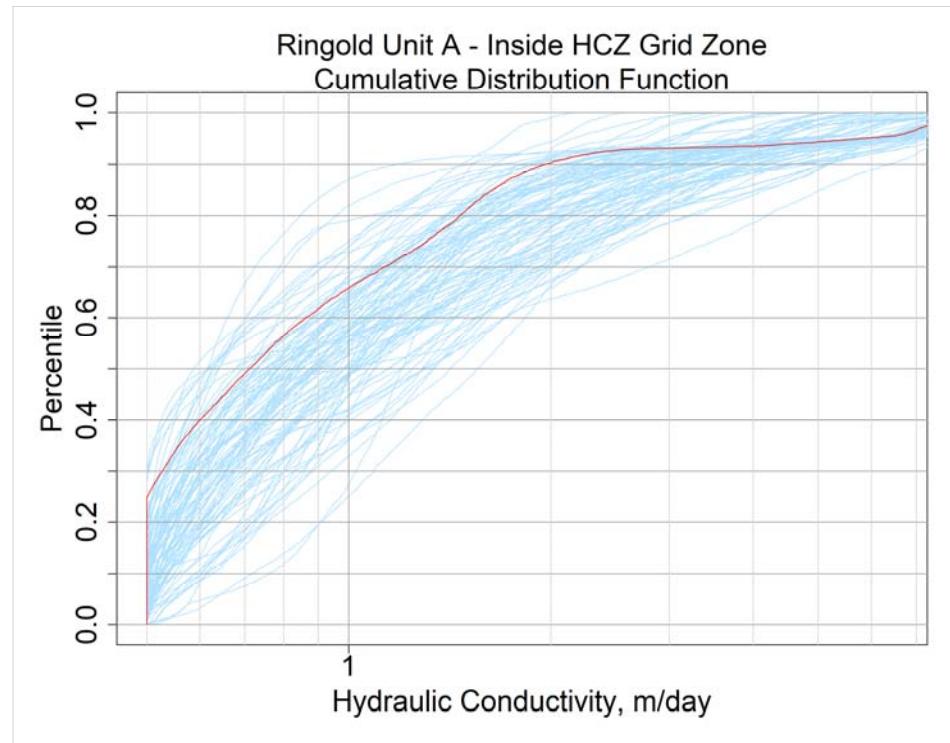


Figure B-14. ECDF of simulated hydraulic conductivity field for the Ringold Unit A inside of the HCZ.

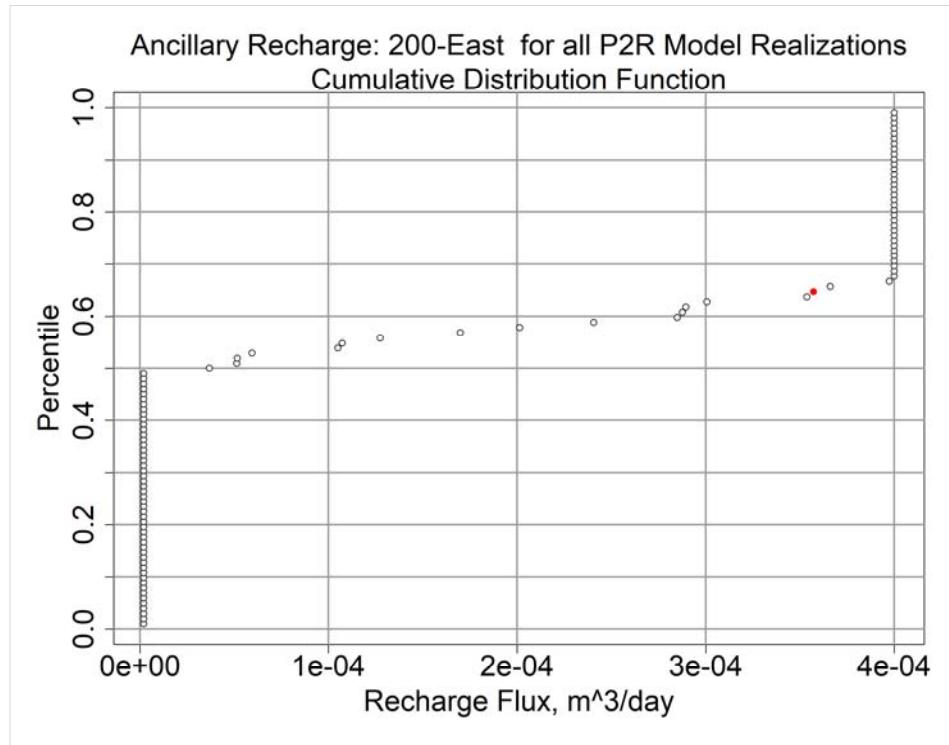


Figure B-15. ECDF of simulated recharge value representing ancillary anthropogenic recharge near 200-East Area.

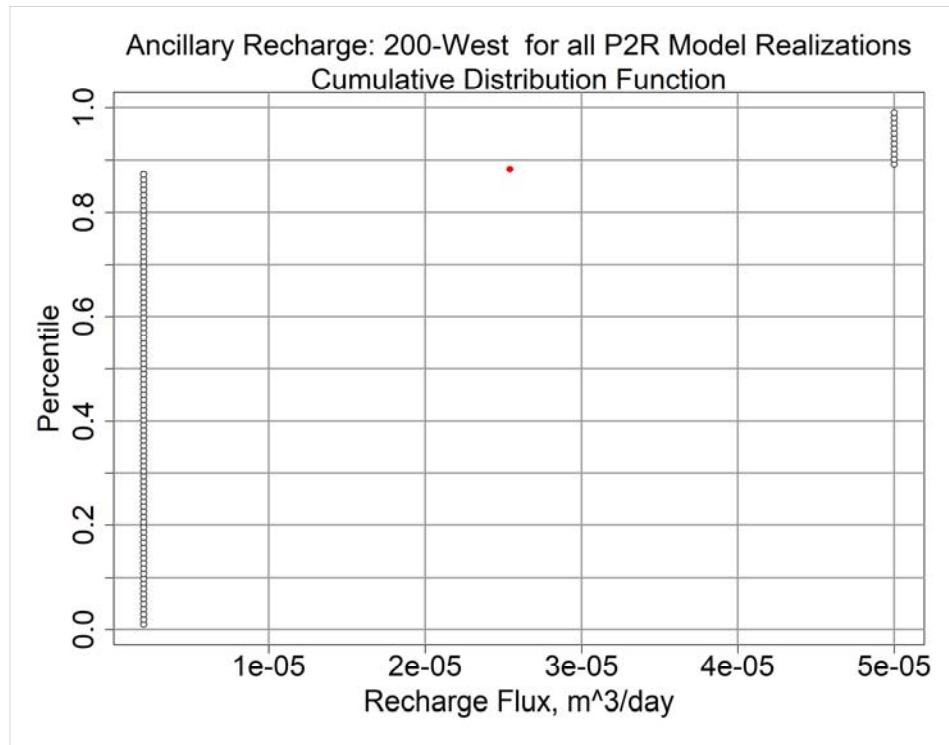


Figure B-16. ECDF of simulated recharge value representing ancillary anthropogenic recharge near 200-West Area.

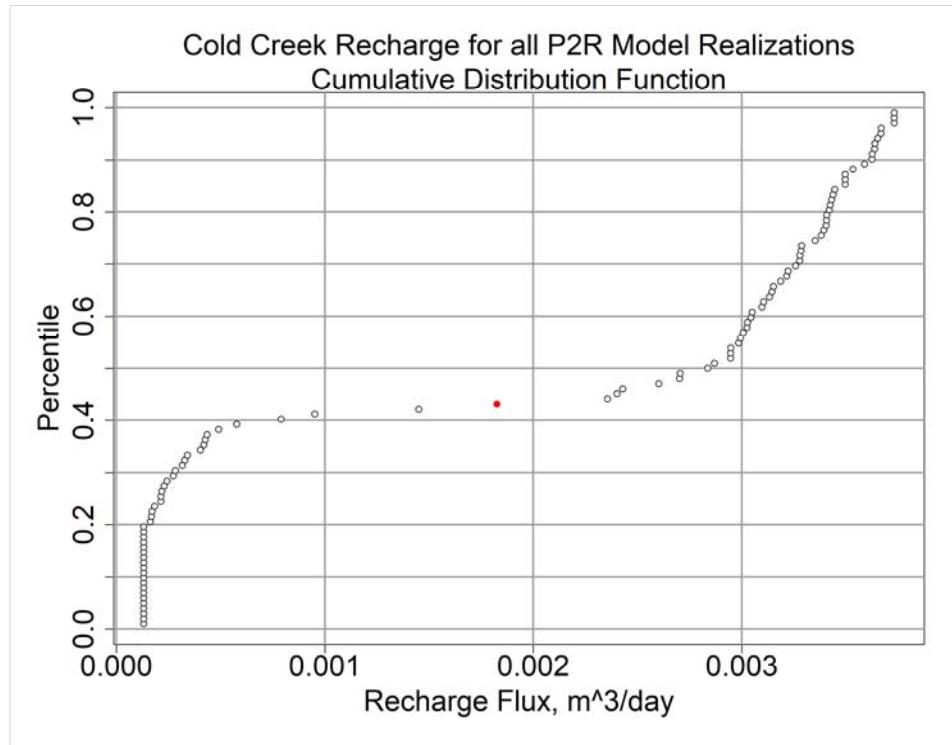


Figure B-17. ECDF of simulated recharge value representing mountain front near Cold Creek.

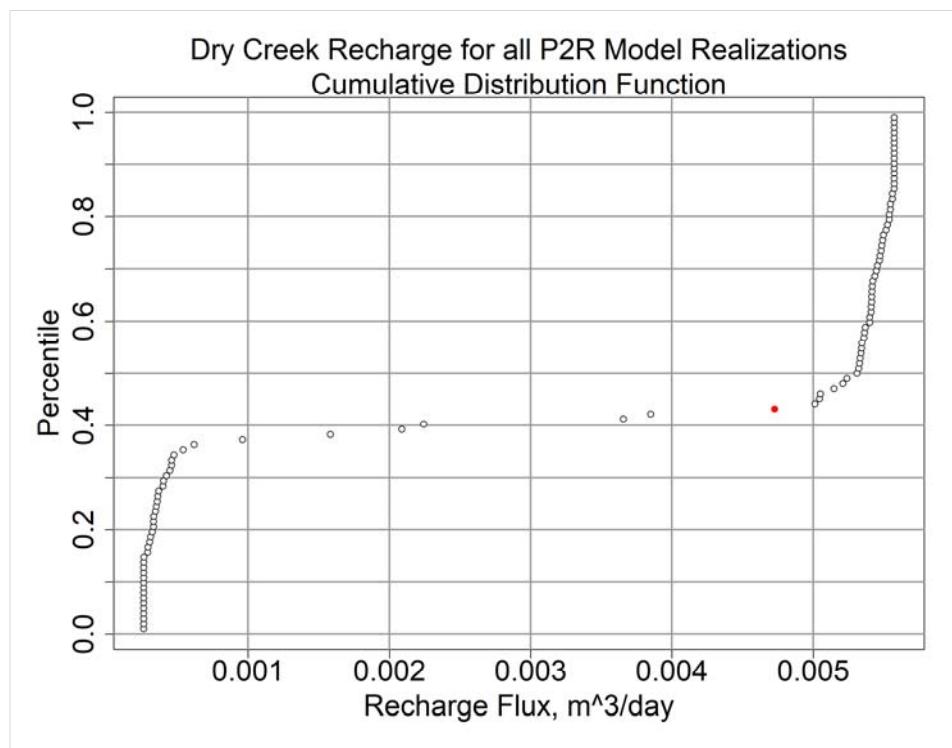


Figure B-18. ECDF of simulated recharge value representing mountain front near Dry Creek.

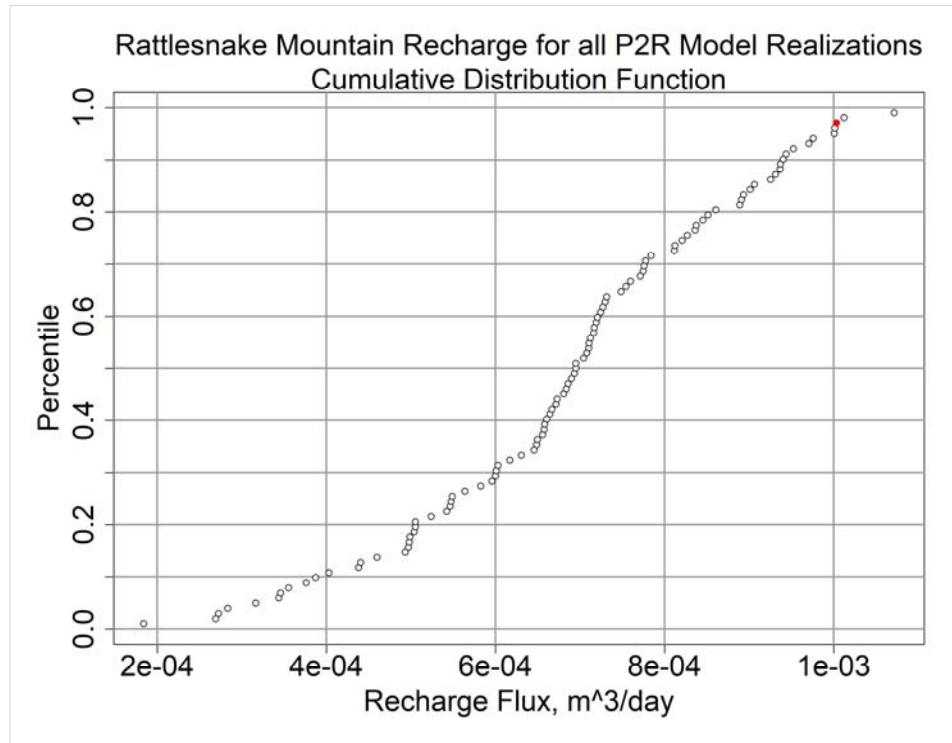


Figure B-19. ECDF of simulated recharge value representing mountain front near Rattlesnake Mountain.

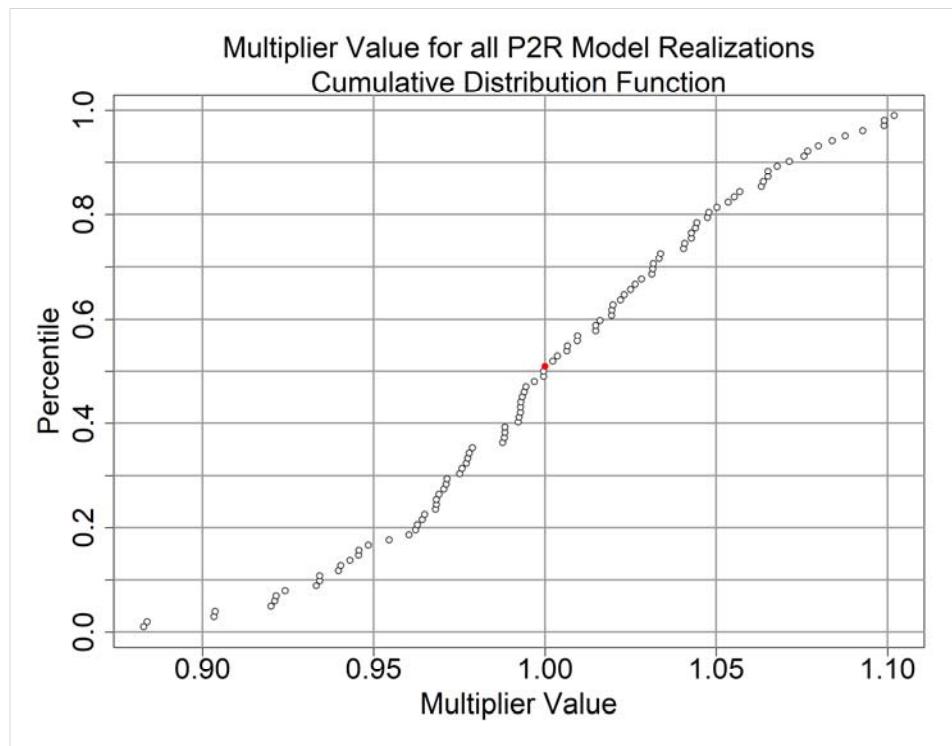


Figure B-20. ECDF of simulated recharge multiplication factor for all recharge input into the model.

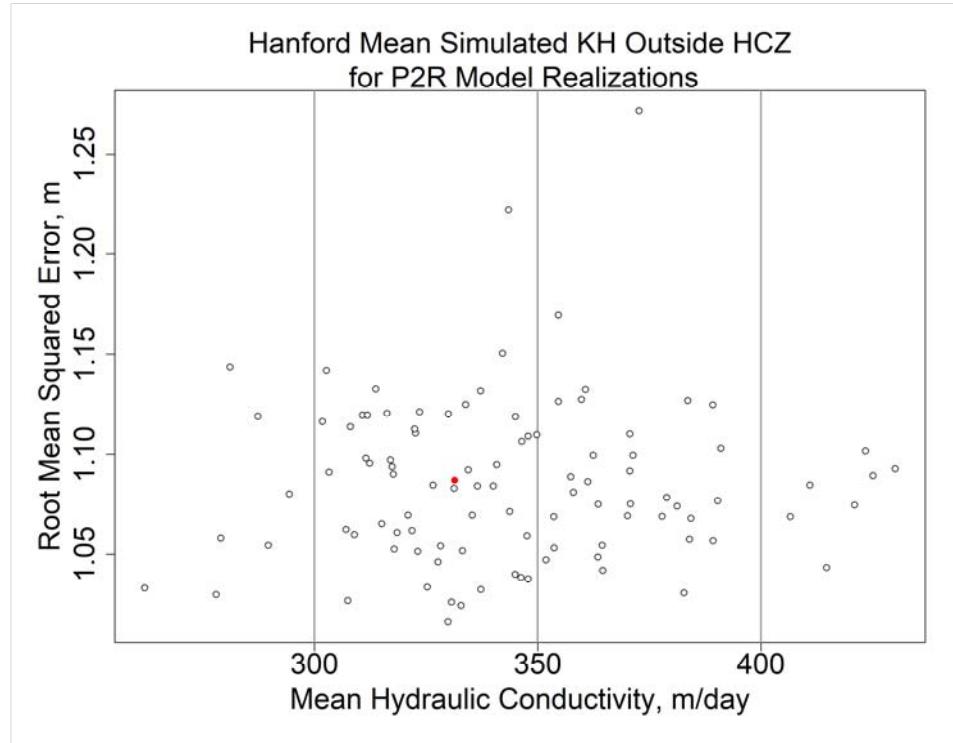


Figure B-21. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Hanford Formation outside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

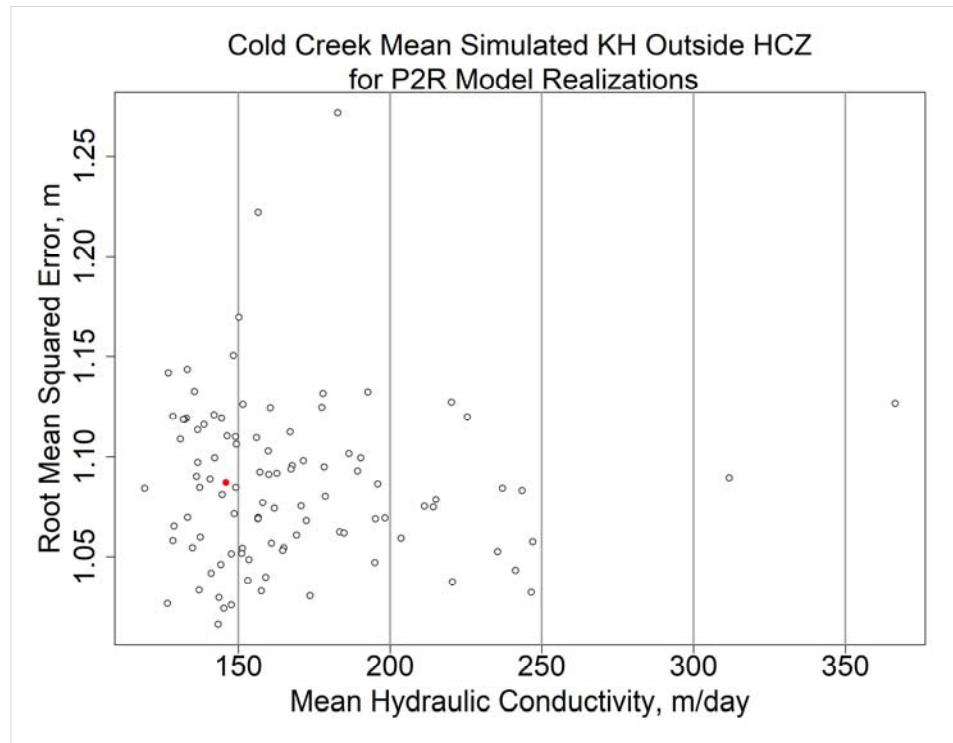


Figure B-22. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Cold Creek Unit outside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

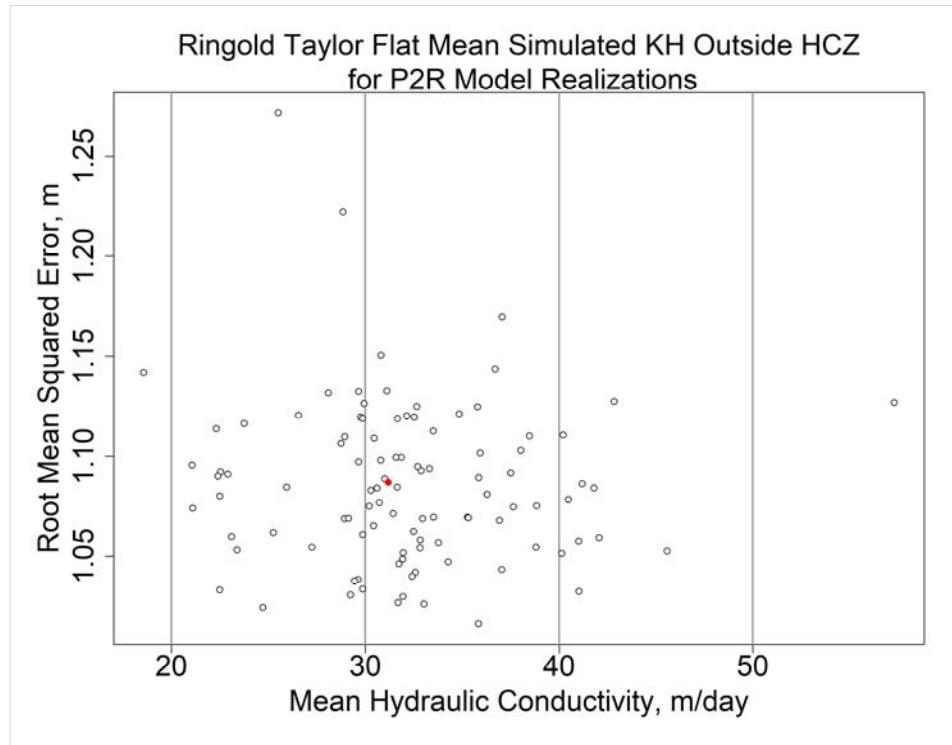


Figure B-23. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Taylor Flat Unit outside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

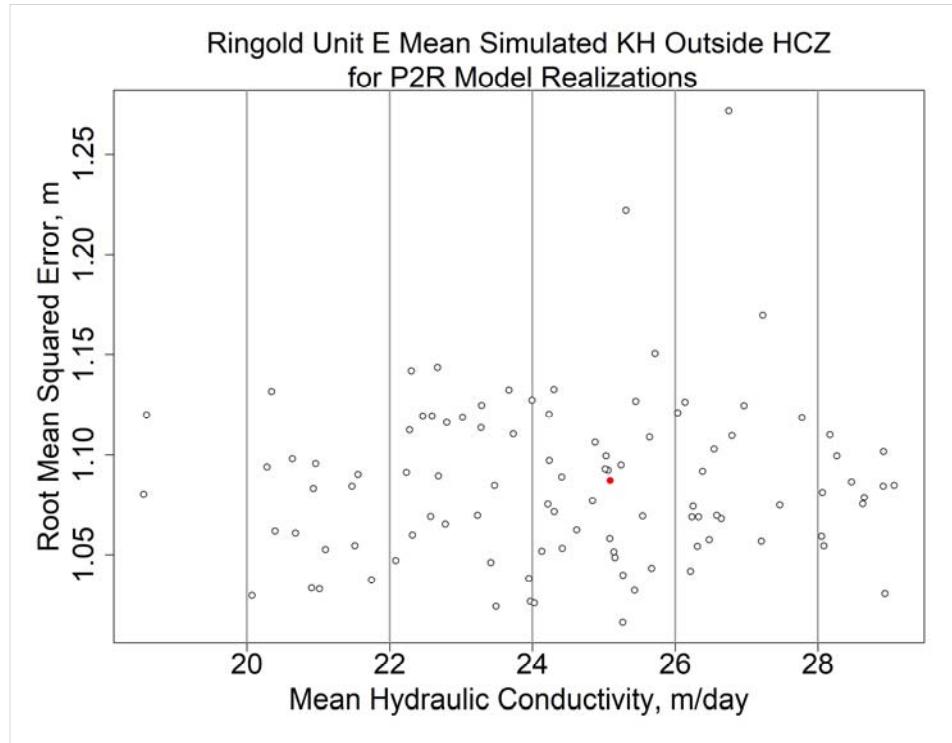


Figure B-24. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Unit E outside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

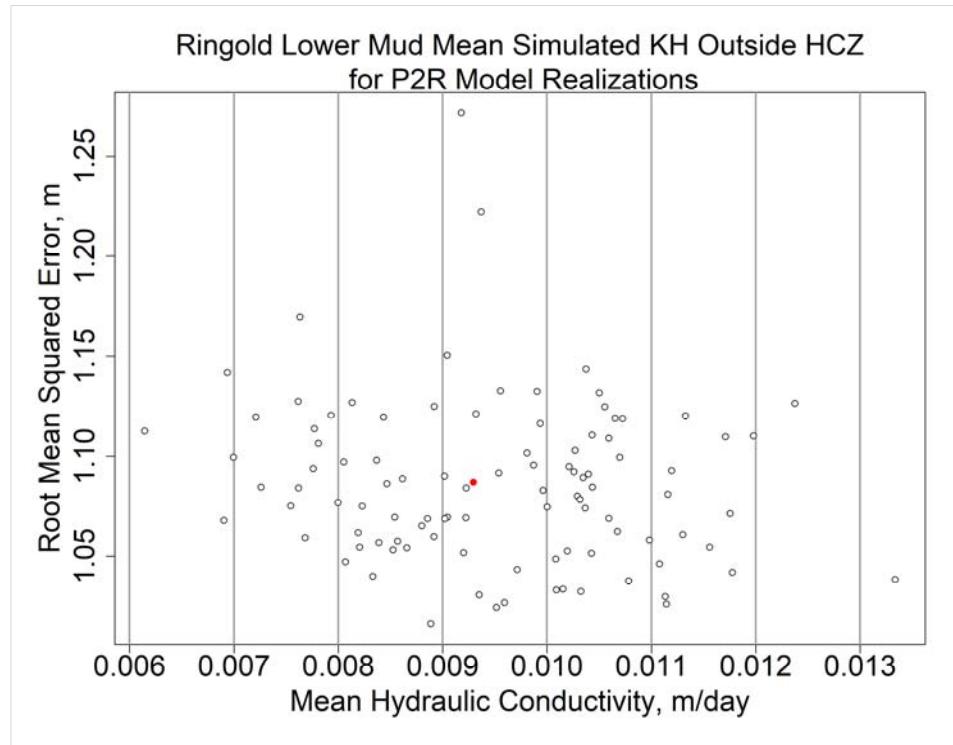


Figure B-25. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Lower Mud Unit outside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

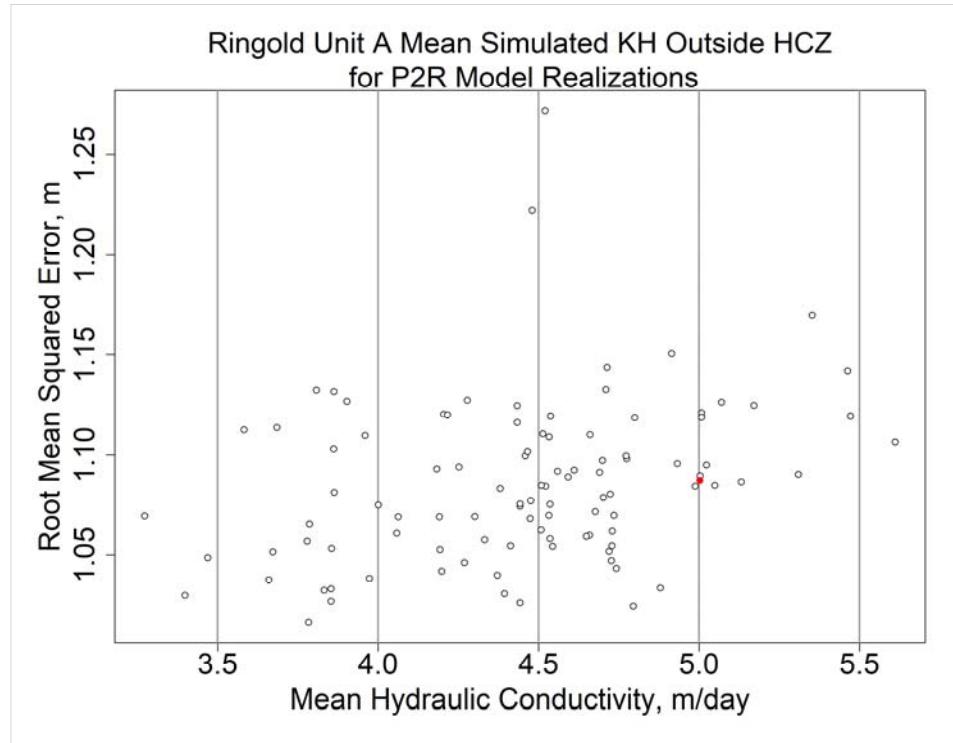


Figure B-26. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Unit A outside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

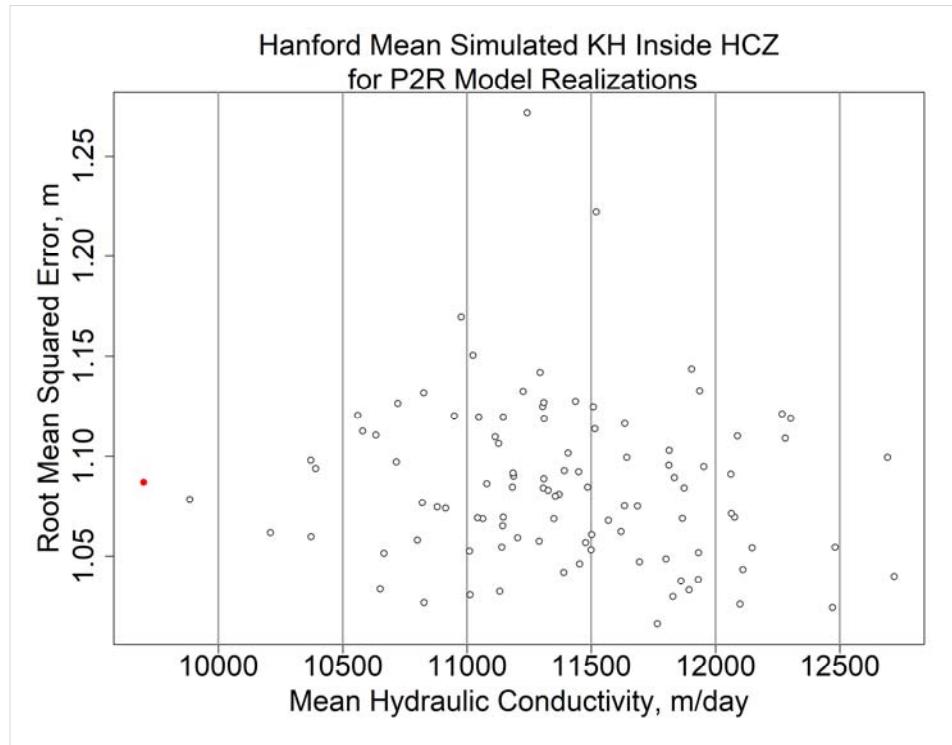


Figure B-27. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Hanford Formation inside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

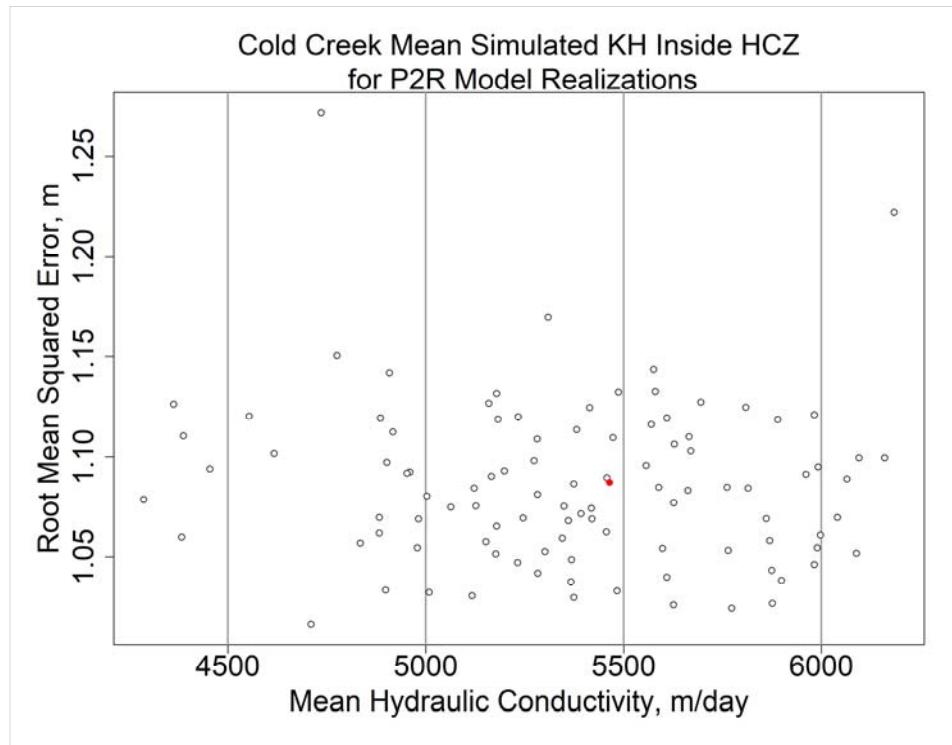


Figure B-28. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Cold Creek Unit inside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

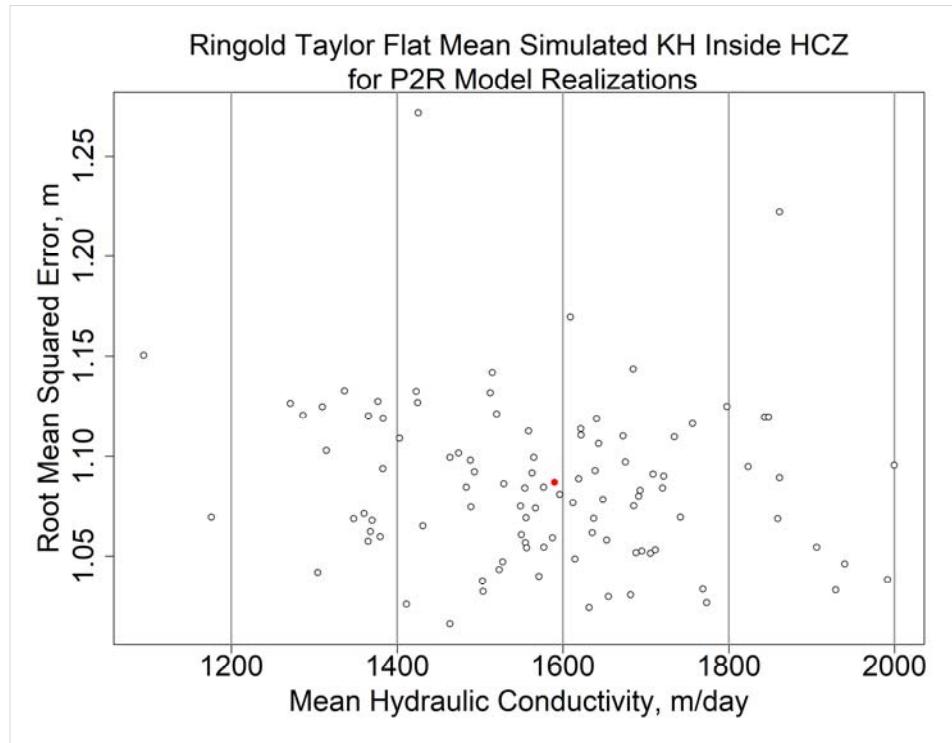


Figure B-29. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Taylor Flat Unit inside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

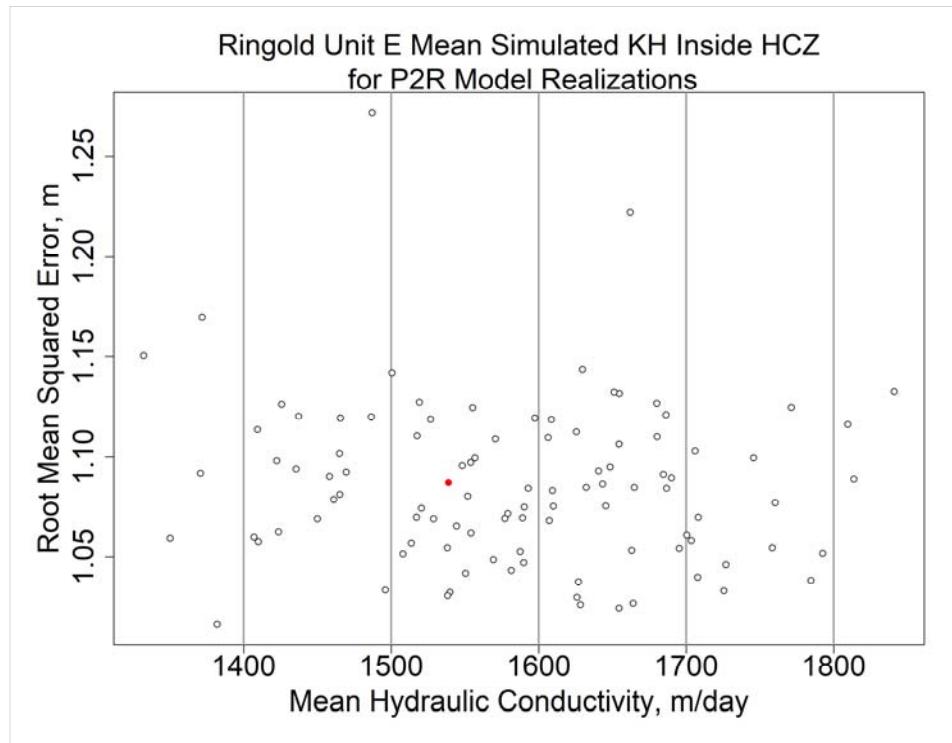


Figure B-30. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Unit E inside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

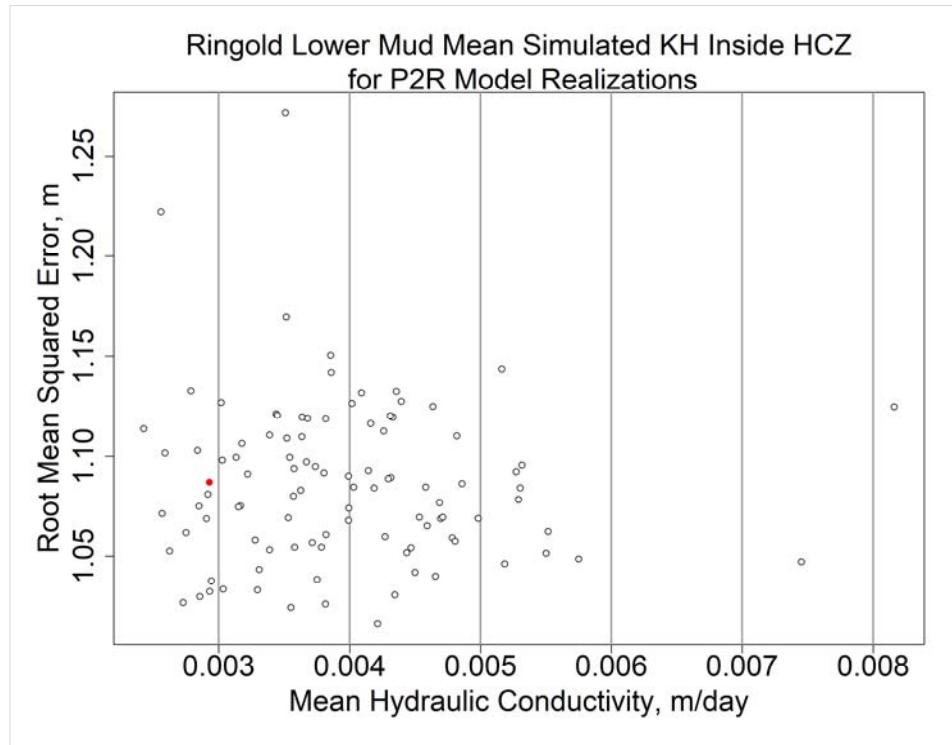


Figure B-31. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Lower Mud Unit inside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

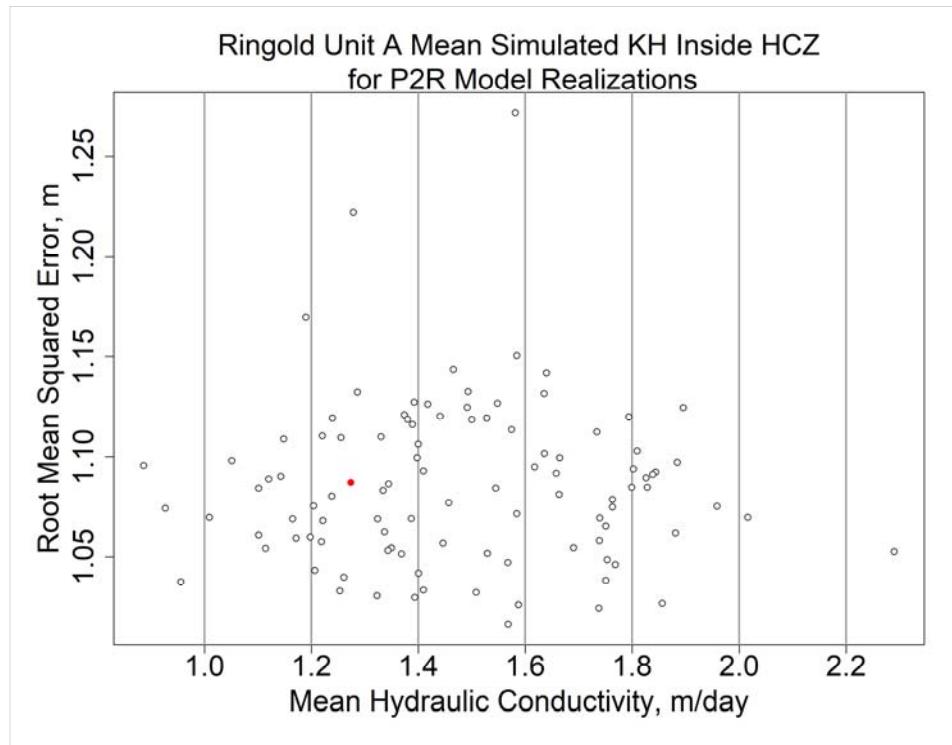


Figure B-32. Cross-plot of 50th percentile simulated hydraulic conductivity field for the Ringold Unit A inside of the HCZ and root mean squared error of simulated and observed hydraulic head data.

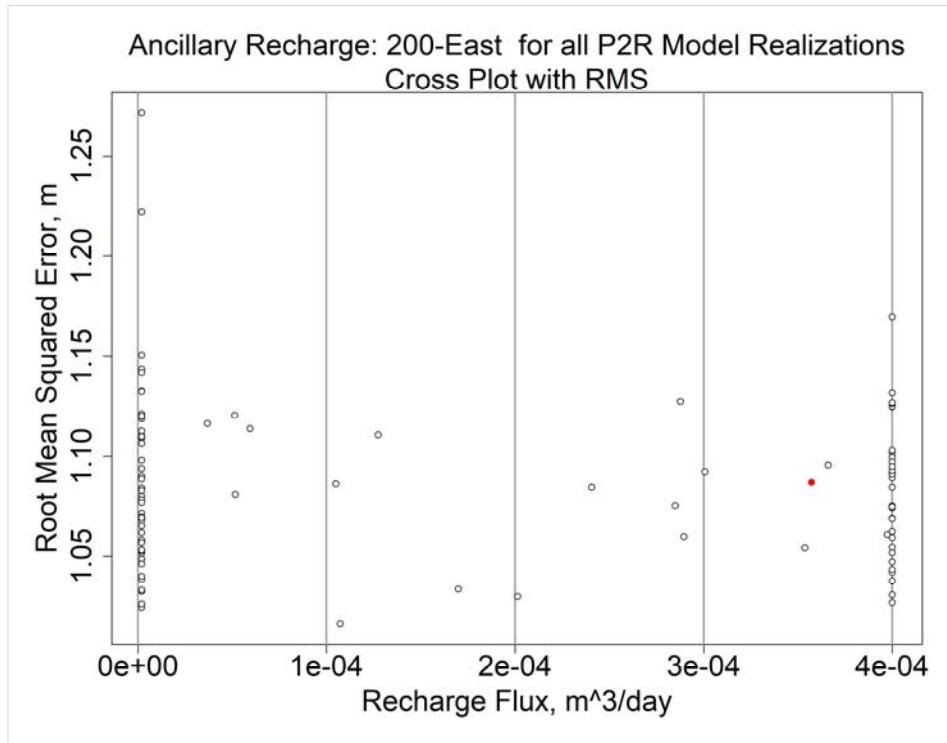


Figure B-33. Cross-plot of recharge value representing ancillary anthropogenic recharge 200-East Area and root mean squared error of simulated and observed hydraulic head data.

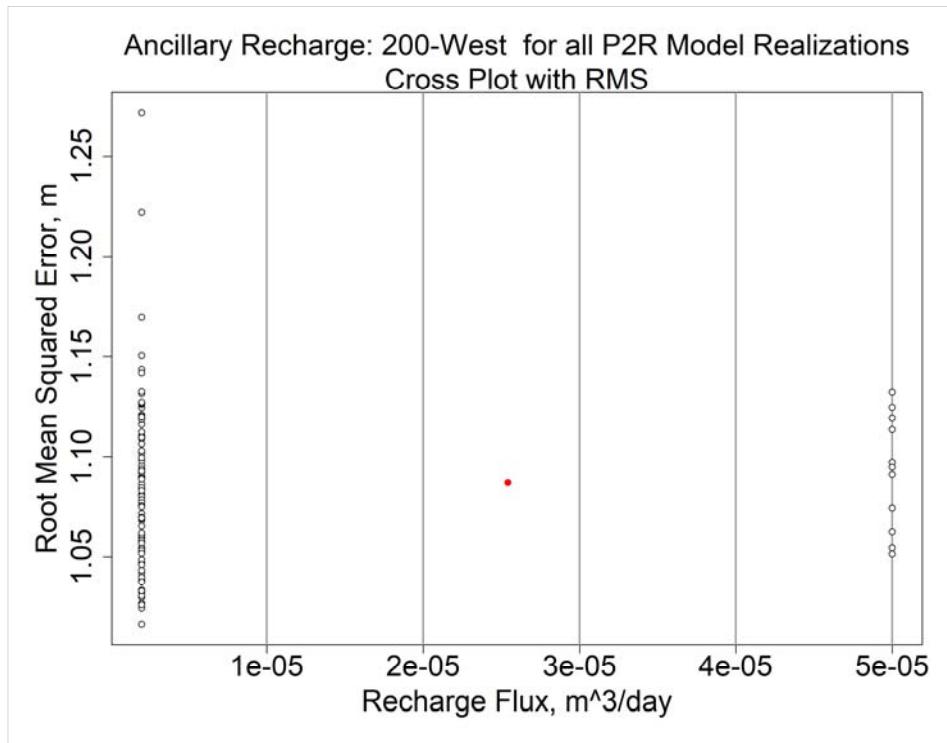
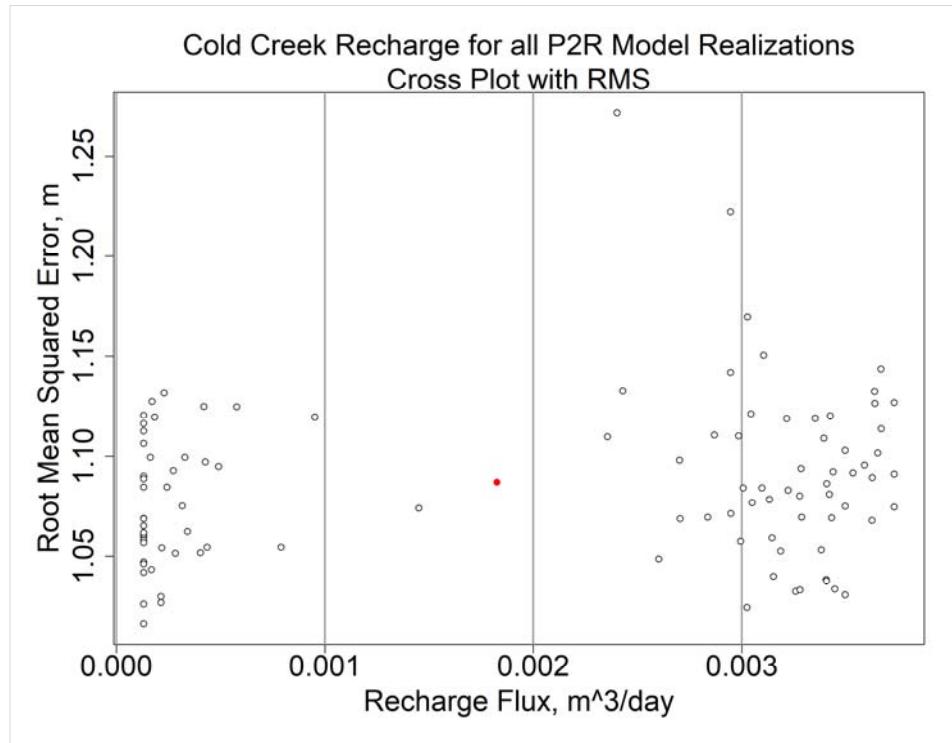


Figure B-34. Cross-plot of recharge value representing ancillary anthropogenic recharge 200-West Area and root mean squared error of simulated and observed hydraulic head data.



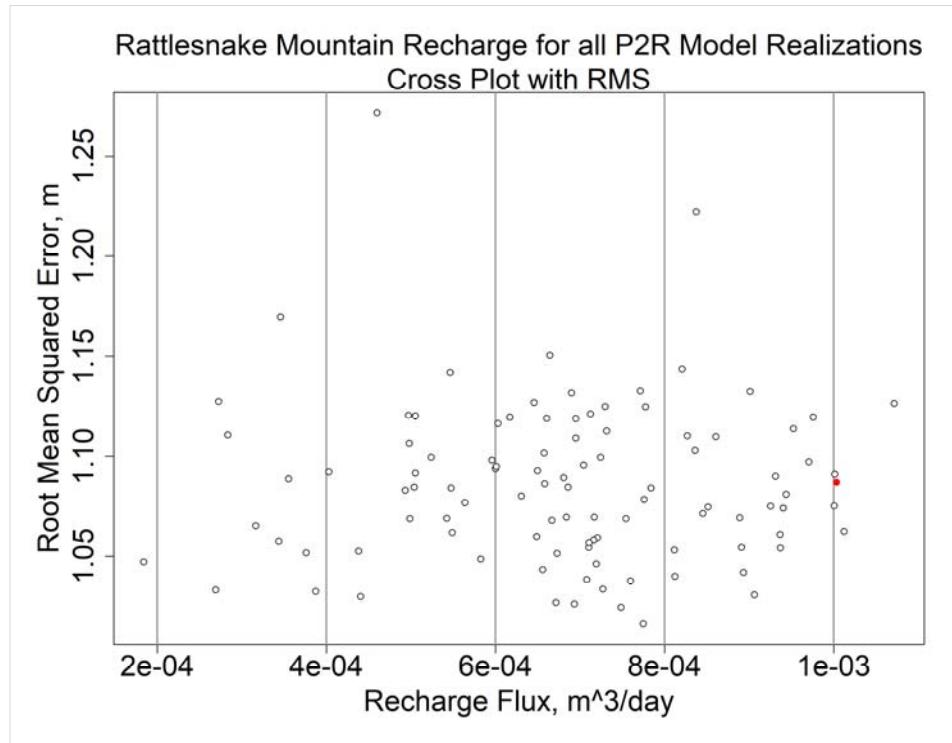


Figure B-37. Cross-plot of recharge value representing mountain front Rattlesnake Mountain and root mean squared error of simulated and observed hydraulic head data.

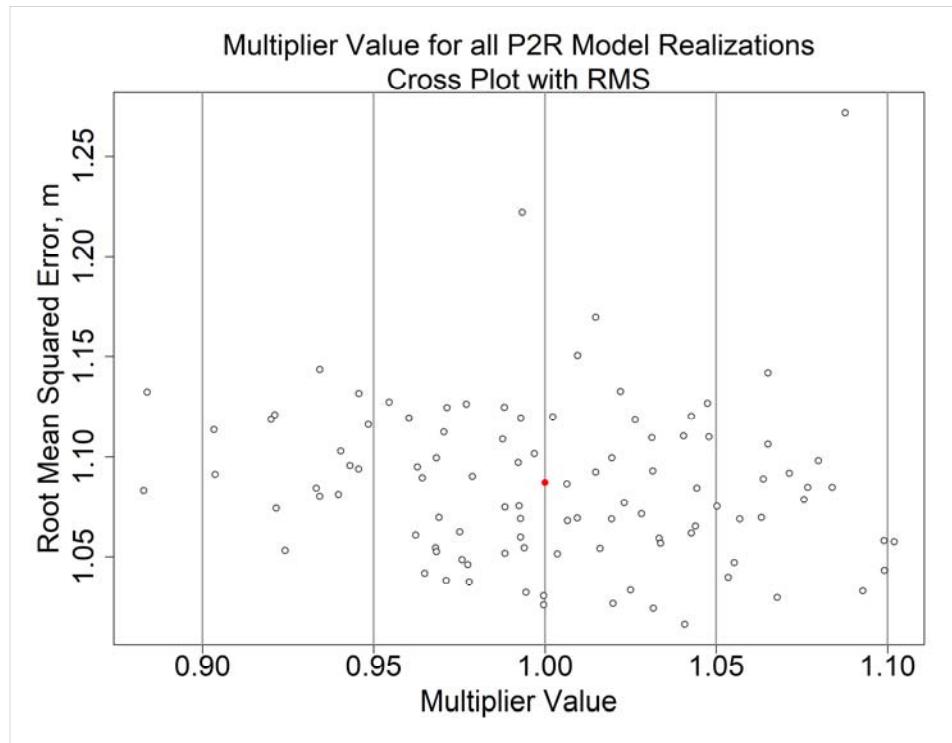


Figure B-38. Cross-plot of simulated recharge multiplication factor for all recharge input into the model and root mean squared error of simulated and observed hydraulic head data.

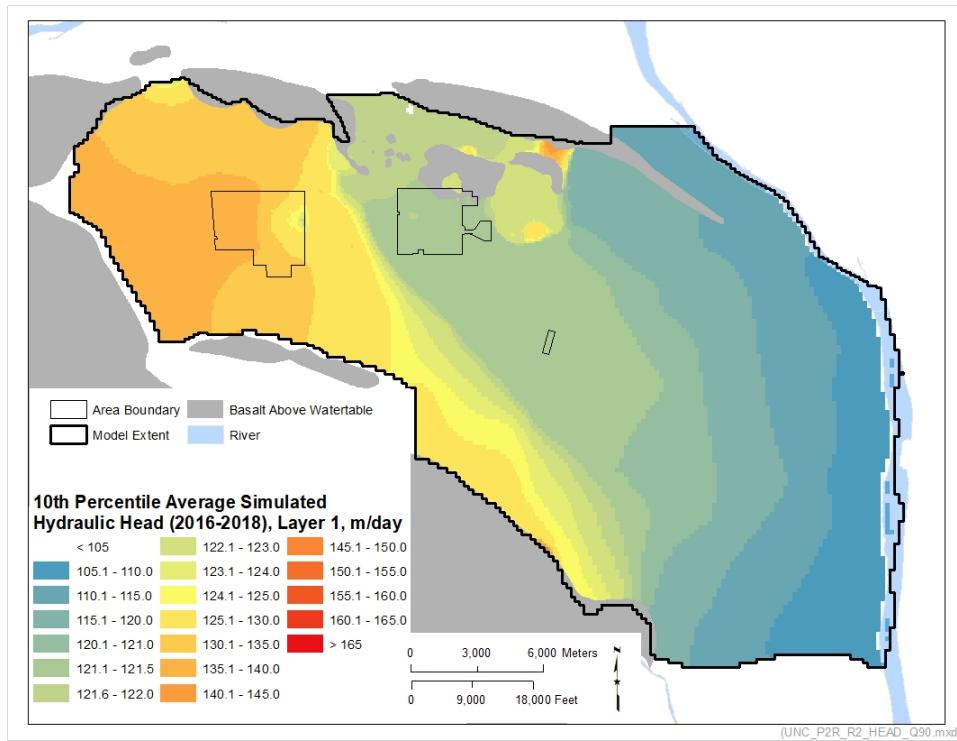


Figure B-39. Map of simulated hydraulic head in layer 1 of the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

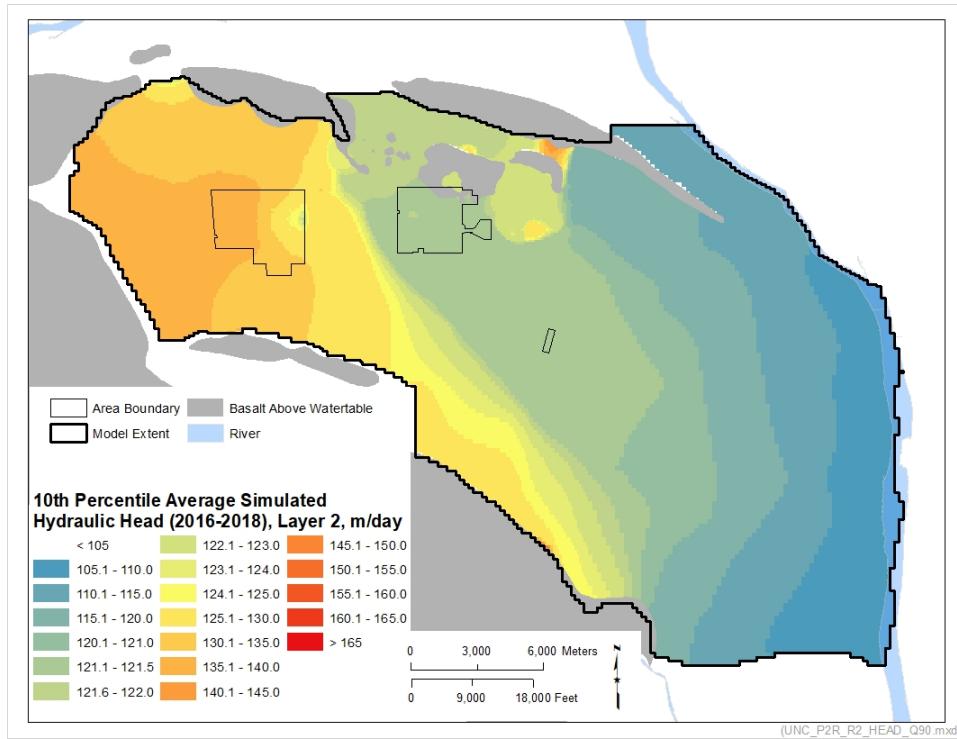


Figure B-40. Map of simulated hydraulic head in layer 2 of the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

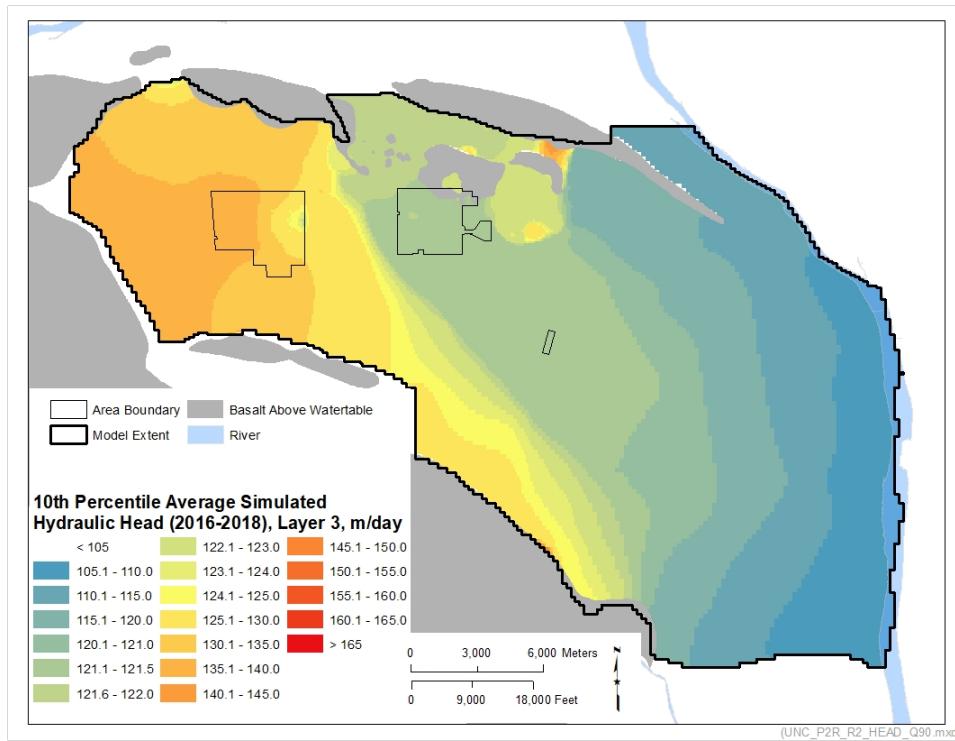


Figure B-41. Map of simulated hydraulic head in layer 3 of the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

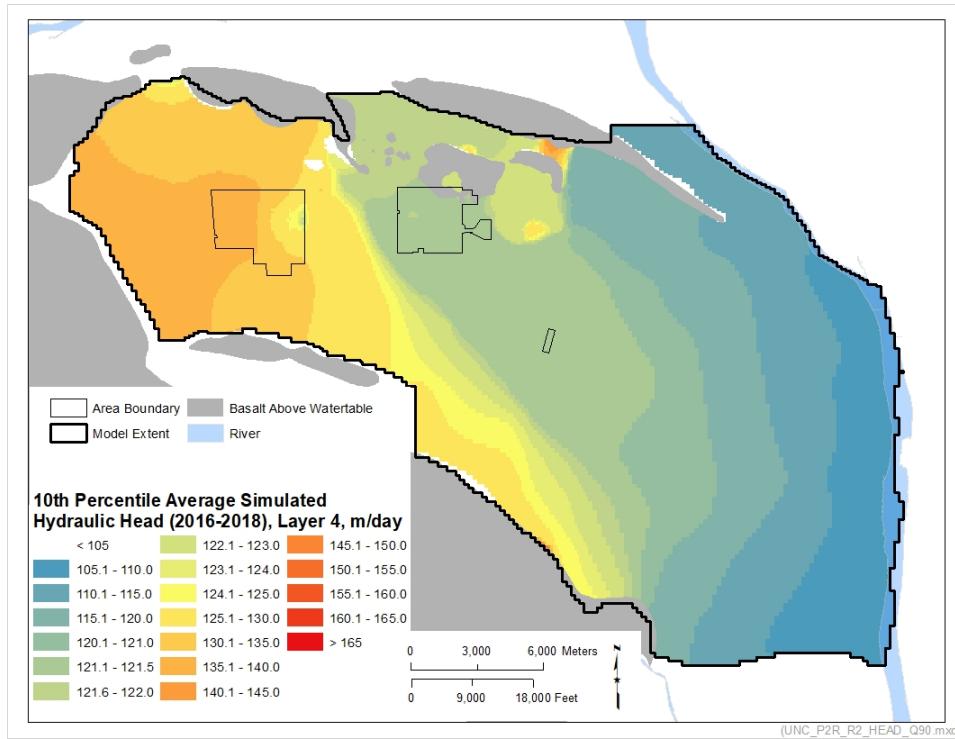


Figure B-42. Map of simulated hydraulic head in layer 4 of the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

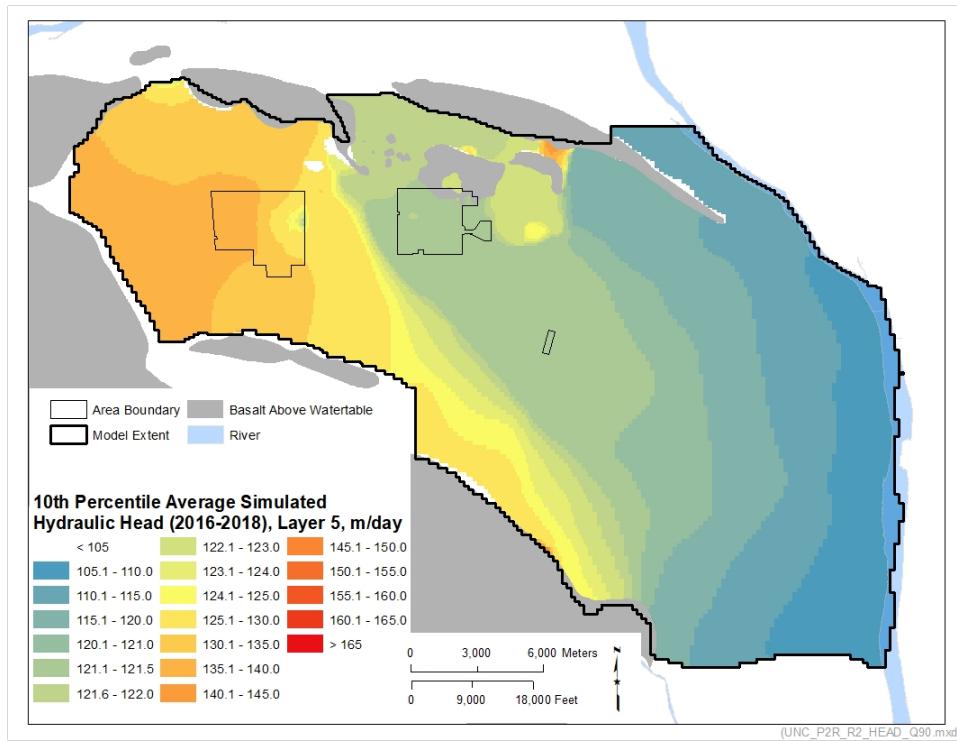


Figure B-43. Map of simulated hydraulic head in layer 5 of the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

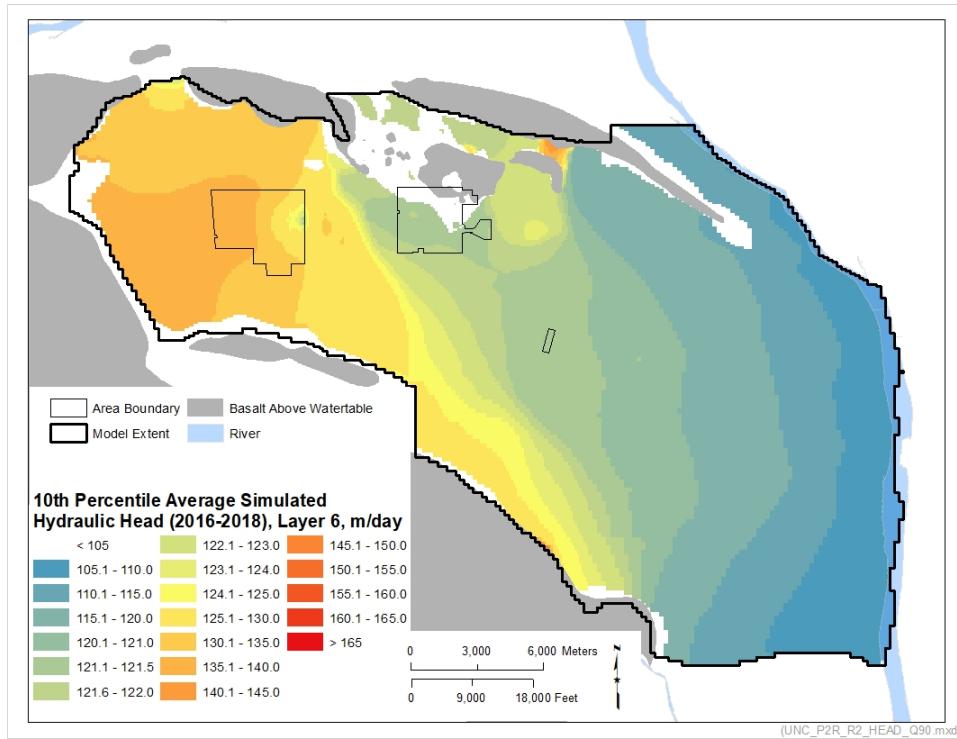


Figure B-44. Map of simulated hydraulic head in layer 6 of the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

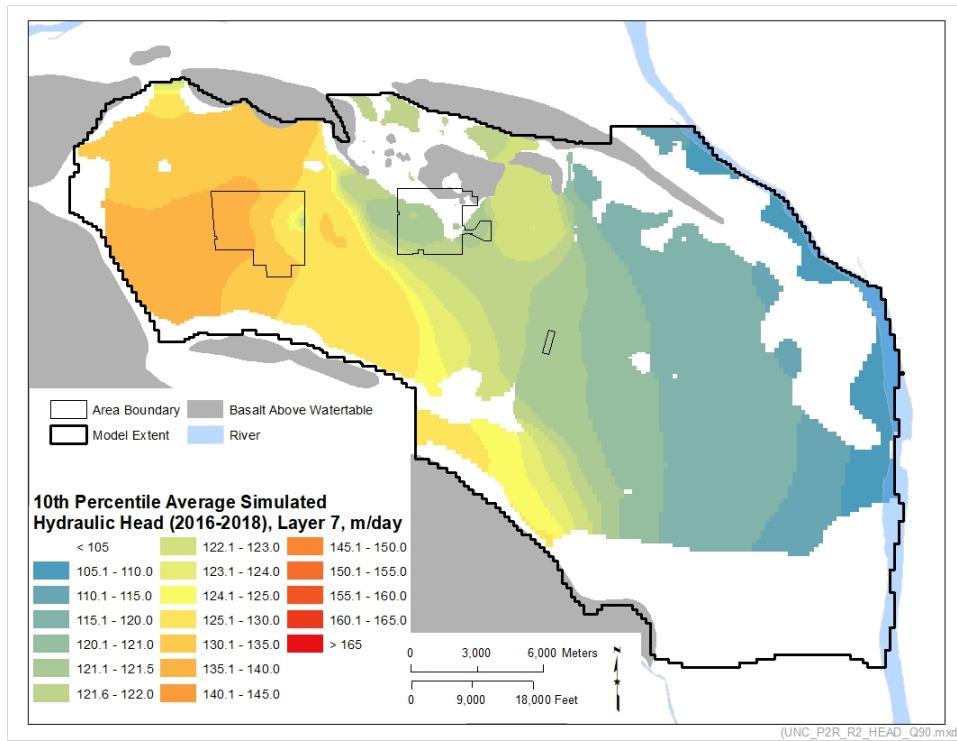


Figure B-45. Map of simulated hydraulic head in layer 7 of the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

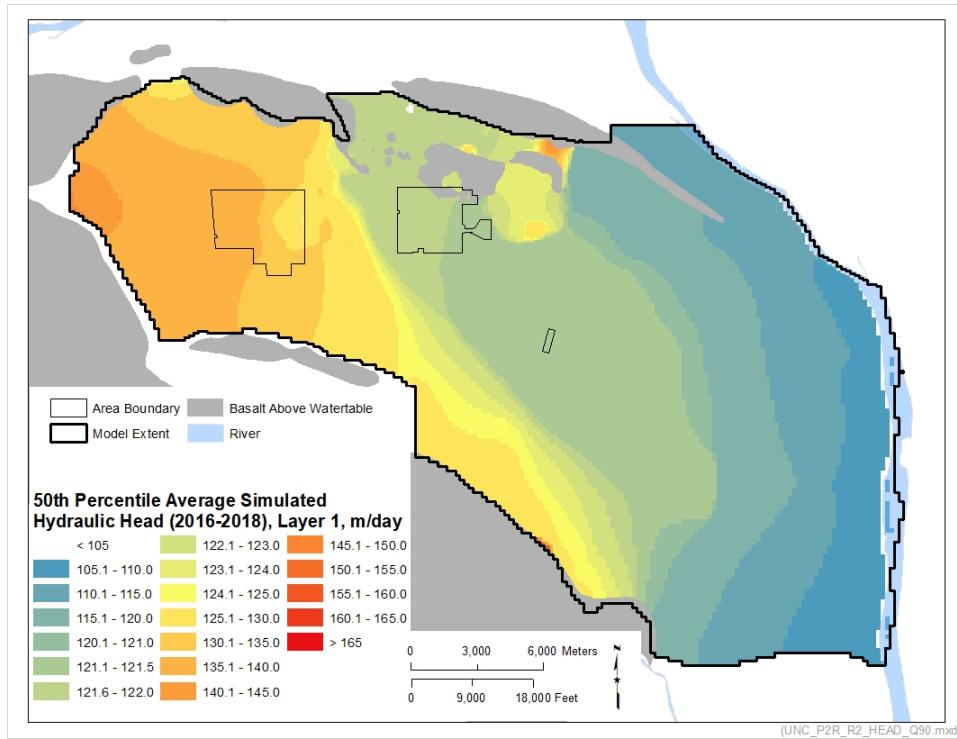


Figure B-46. Map of simulated hydraulic head in layer 1 of the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

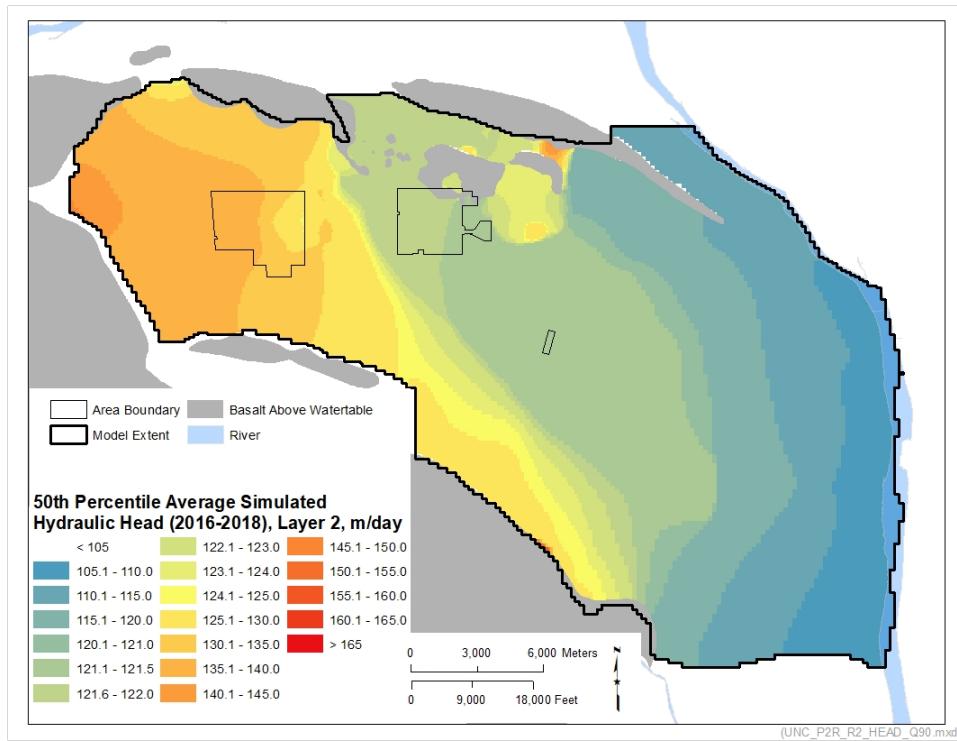


Figure B-47. Map of simulated hydraulic head in layer 2 of the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

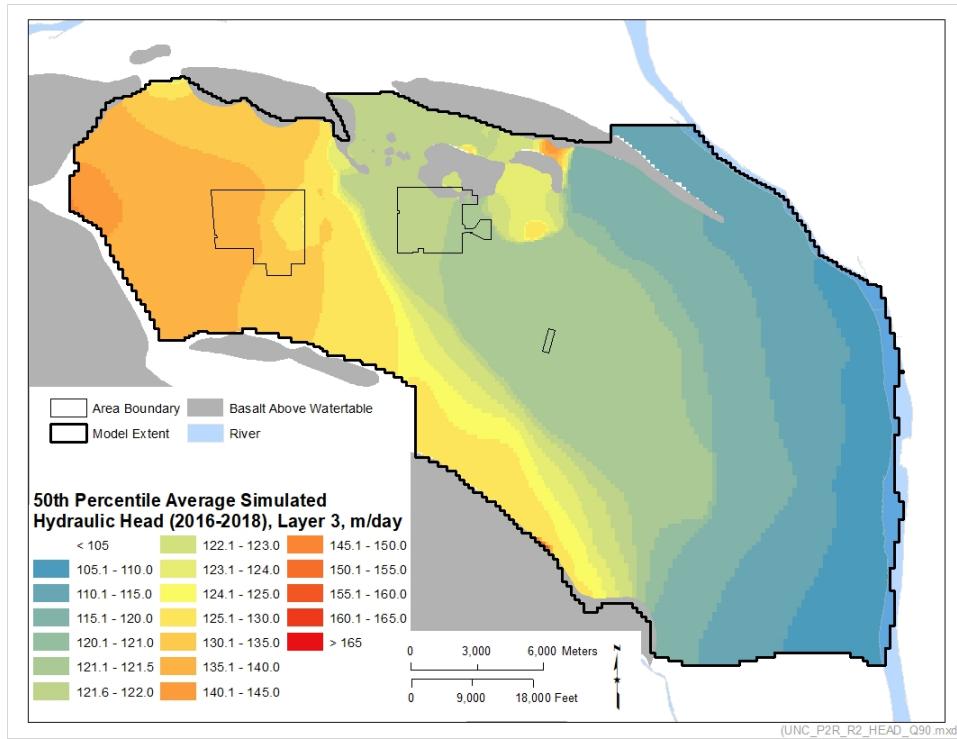


Figure B-48. Map of simulated hydraulic head in layer 3 of the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

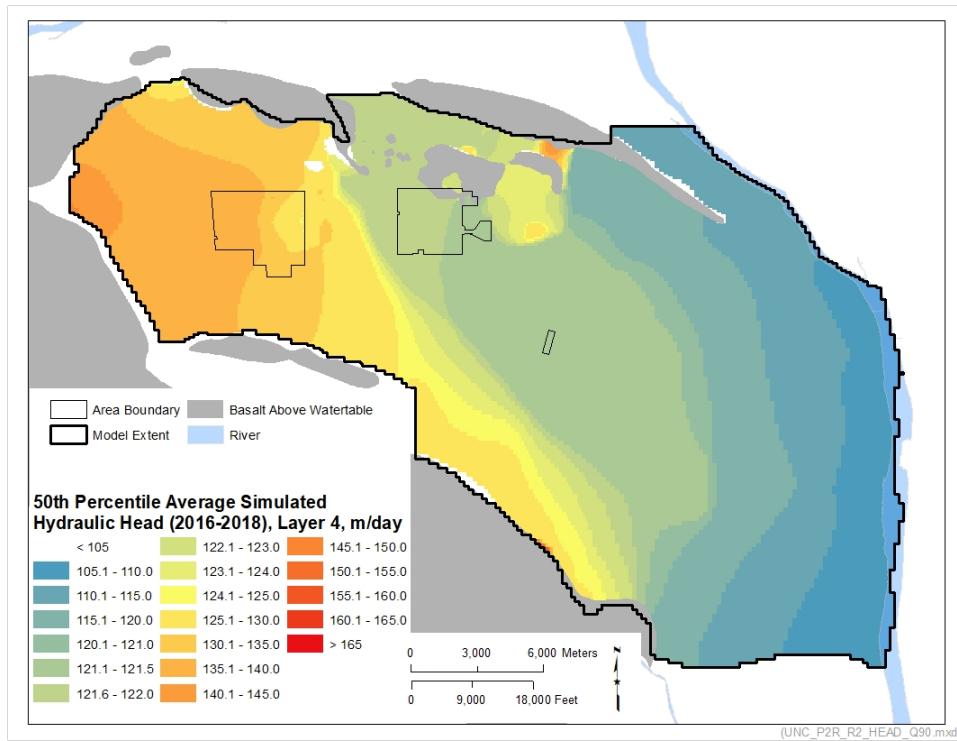


Figure B-49. Map of simulated hydraulic head in layer 4 of the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

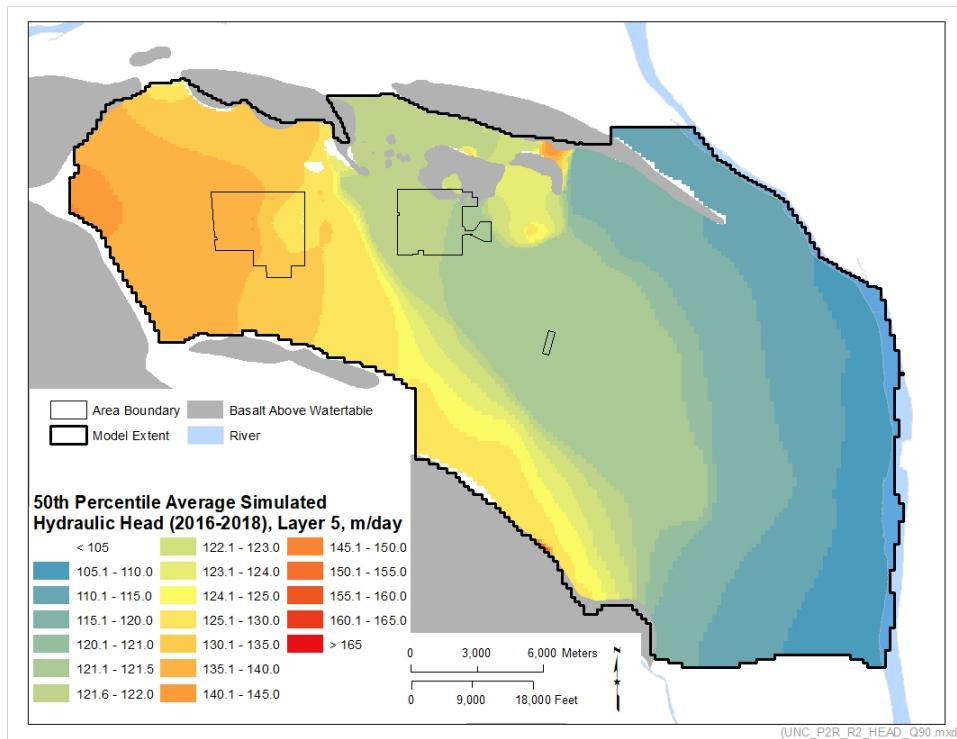


Figure B-50. Map of simulated hydraulic head in layer 5 of the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

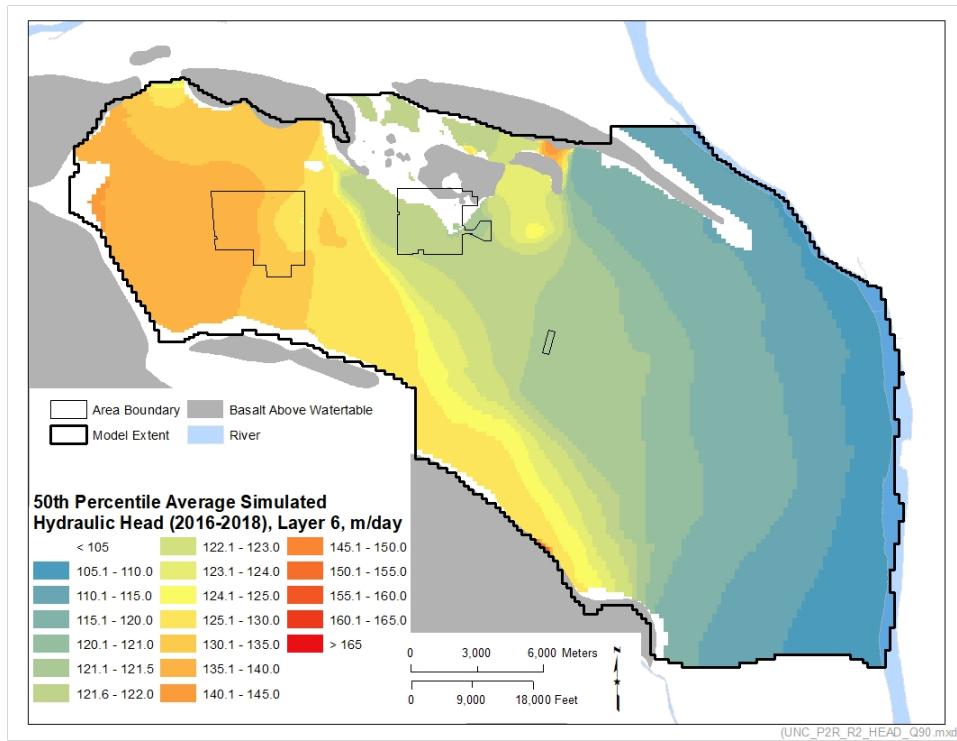


Figure B-51. Map of simulated hydraulic head in layer 6 of the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

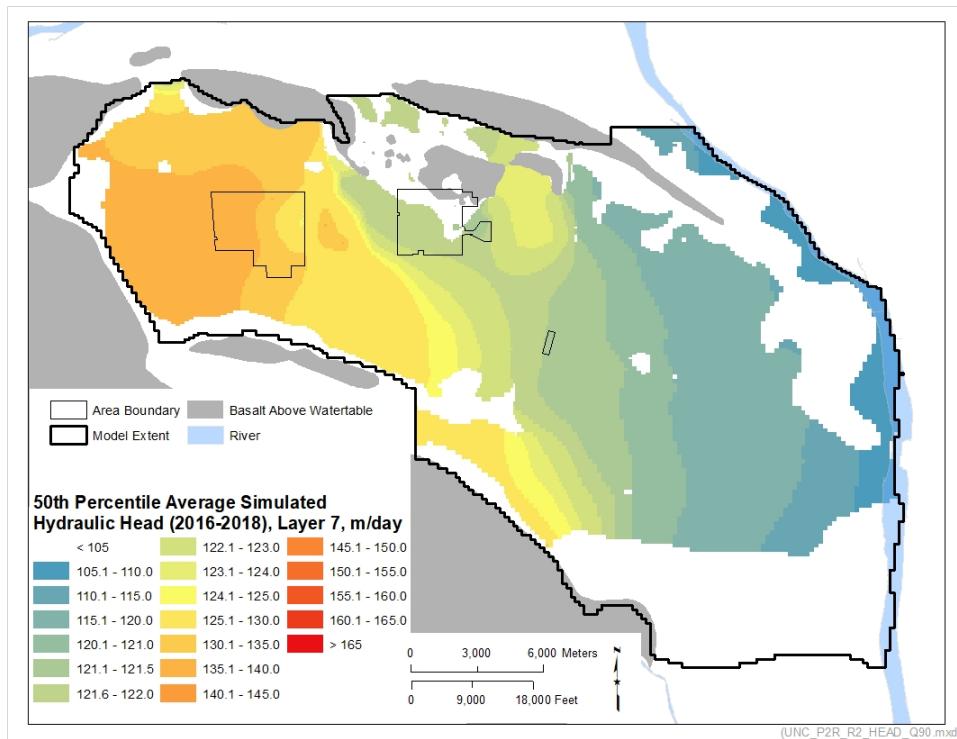


Figure B-52. Map of simulated hydraulic head in layer 7 of the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

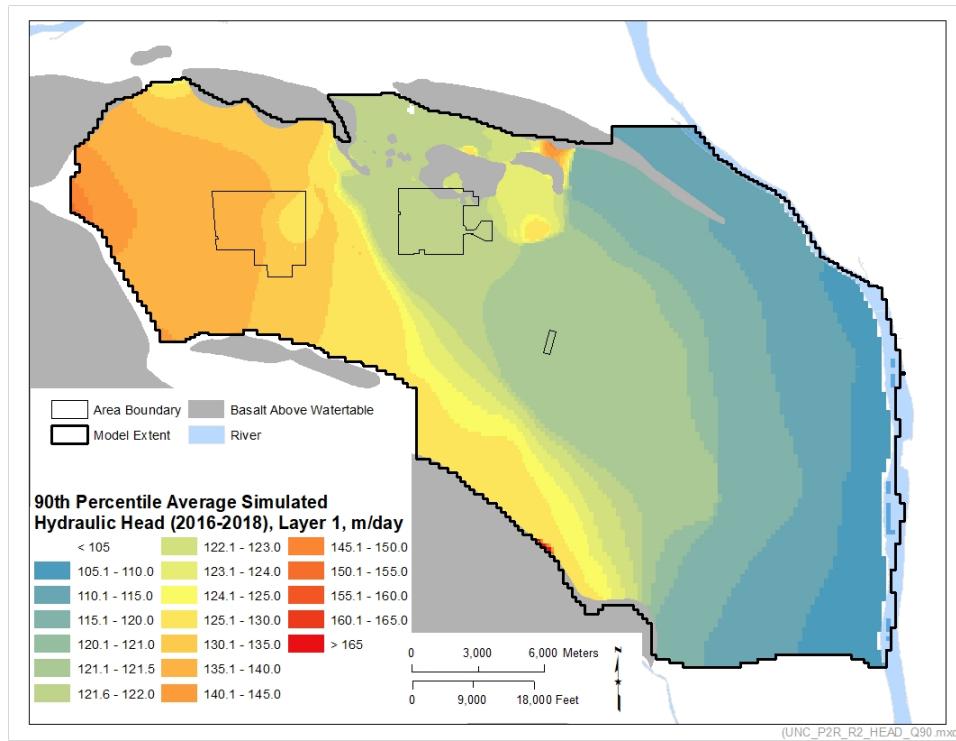


Figure B-53. Map of simulated hydraulic head in layer 1 of the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

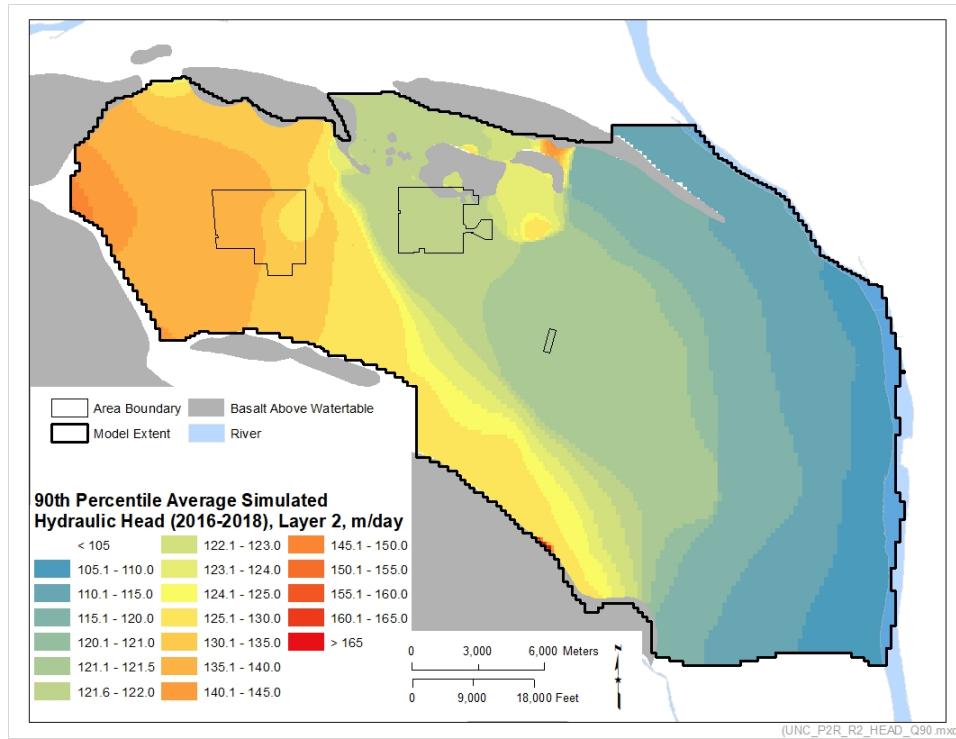


Figure B-54. Map of simulated hydraulic head in layer 2 of the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

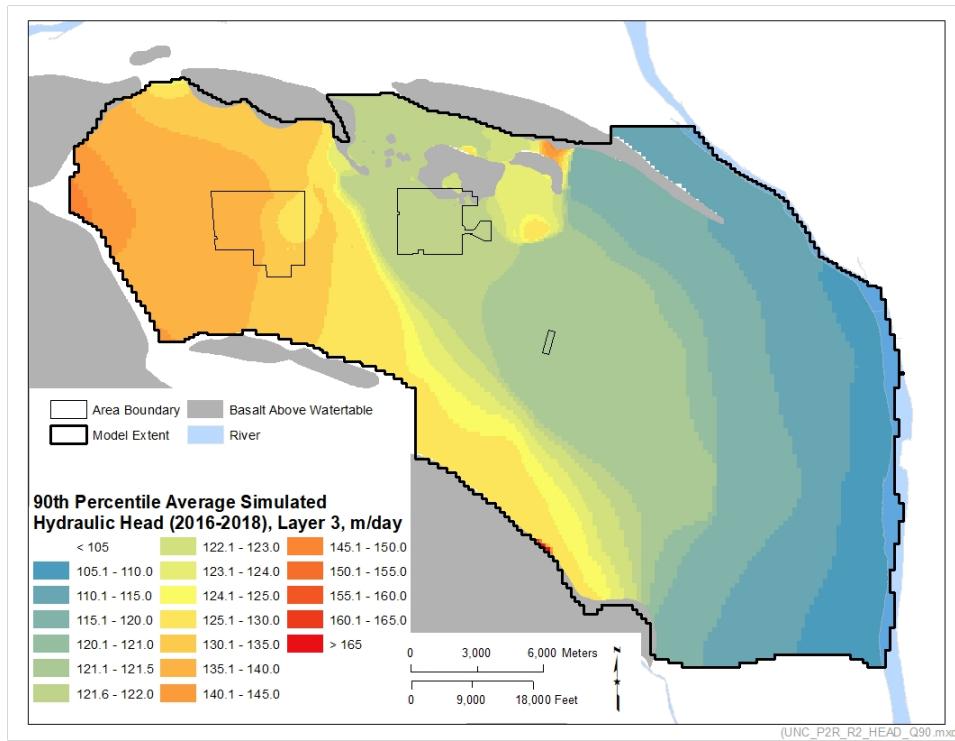


Figure B-55. Map of simulated hydraulic head in layer 3 of the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

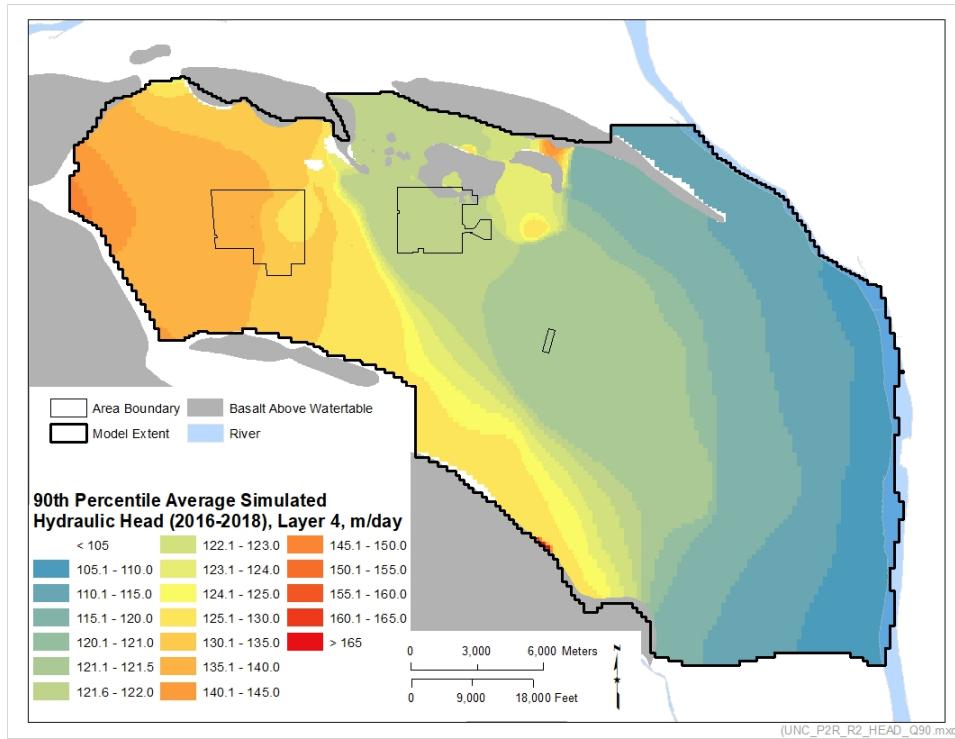


Figure B-56. Map of simulated hydraulic head in layer 4 of the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

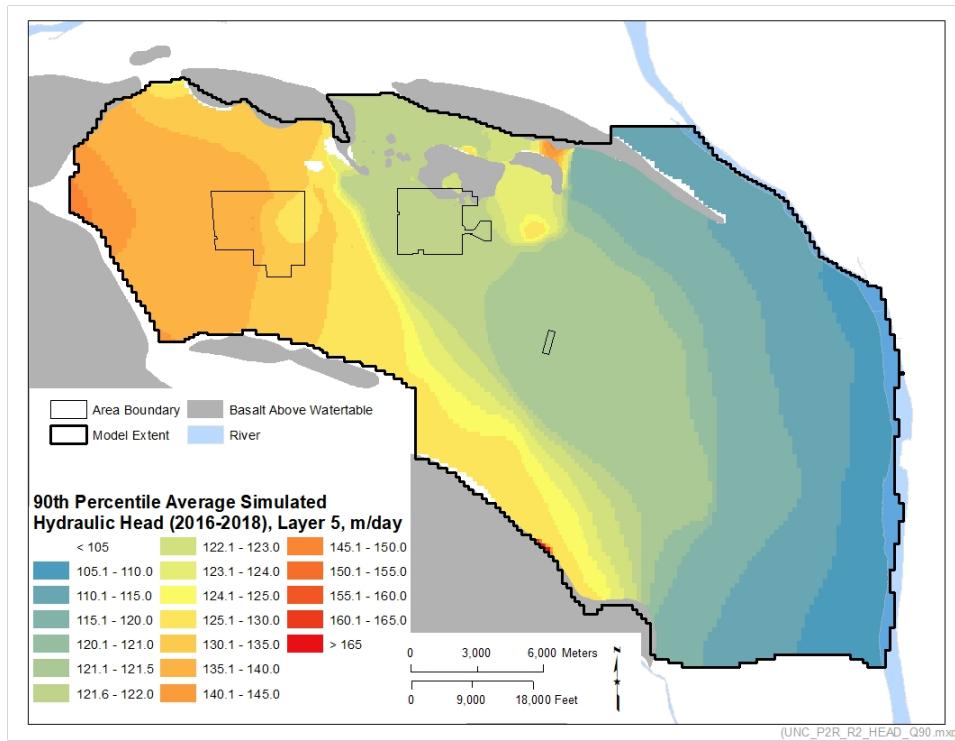


Figure B-57. Map of simulated hydraulic head in layer 5 of the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

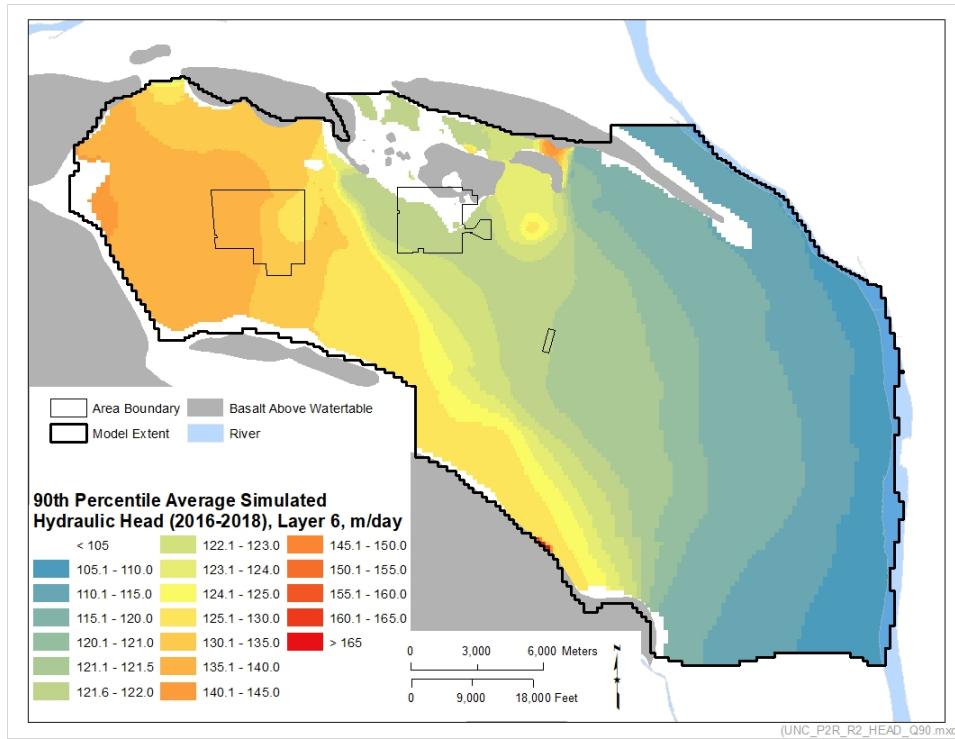


Figure B-58. Map of simulated hydraulic head in layer 6 of the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

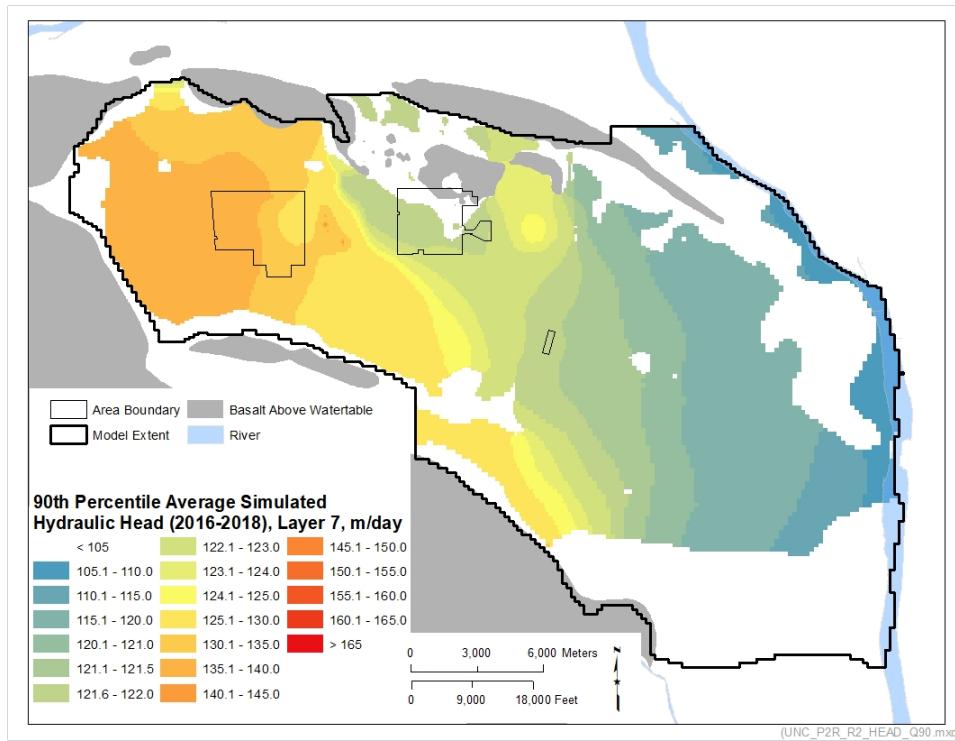


Figure B-59. Map of simulated hydraulic head in layer 7 of the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

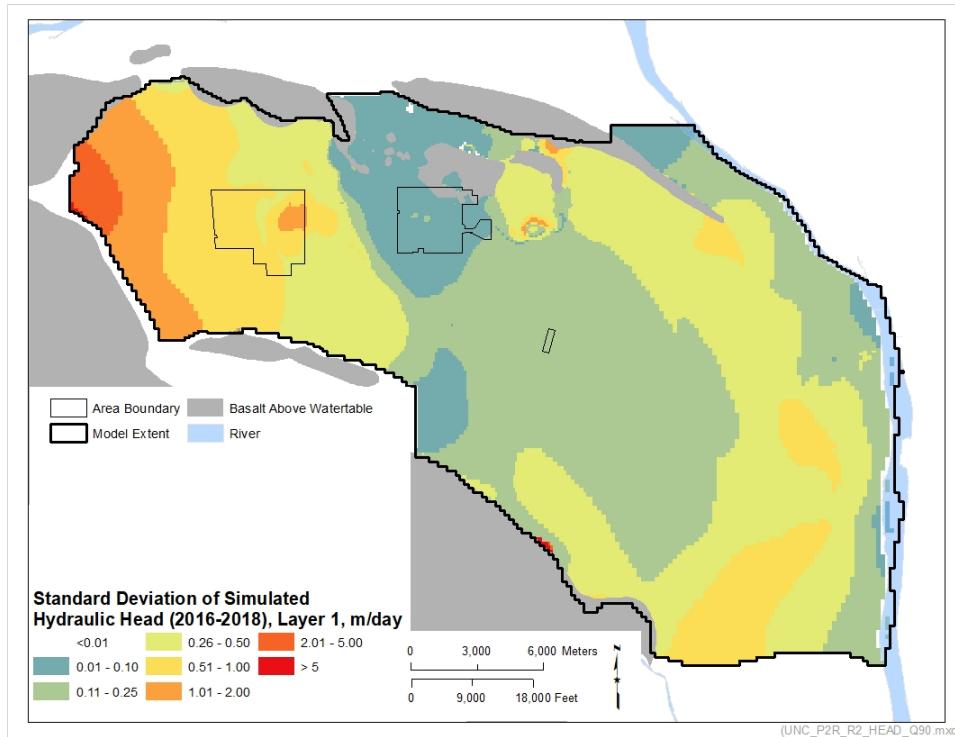


Figure B-60. Map of the standard deviation of simulated hydraulic head in layer 1 of the P2R Model representing all simulated variants executed for the NSMC.

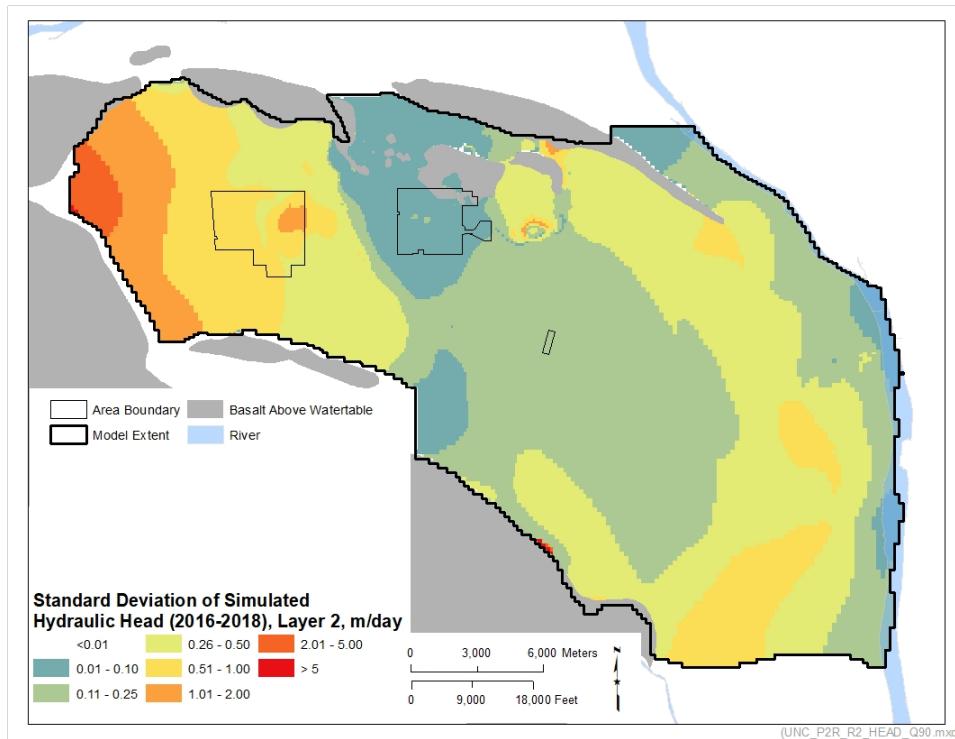


Figure B-61. Map of the standard deviation of simulated hydraulic head in layer 2 of the P2R Model representing all simulated variants executed for the NSMC.

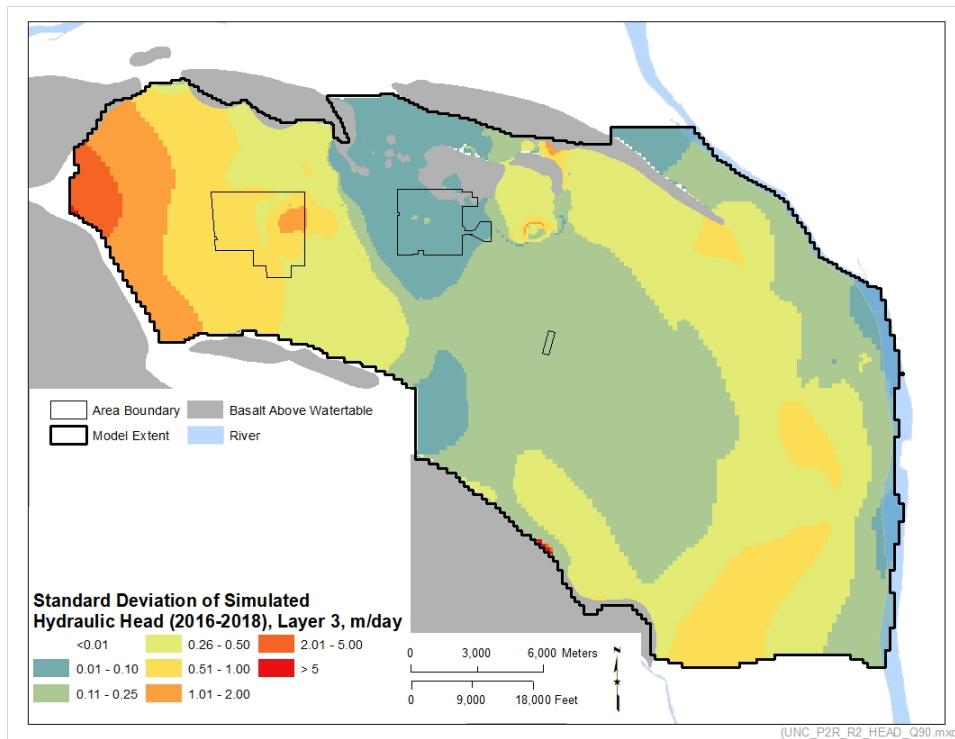


Figure B-62. Map of the standard deviation of simulated hydraulic head in layer 3 of the P2R Model representing all simulated variants executed for the NSMC.

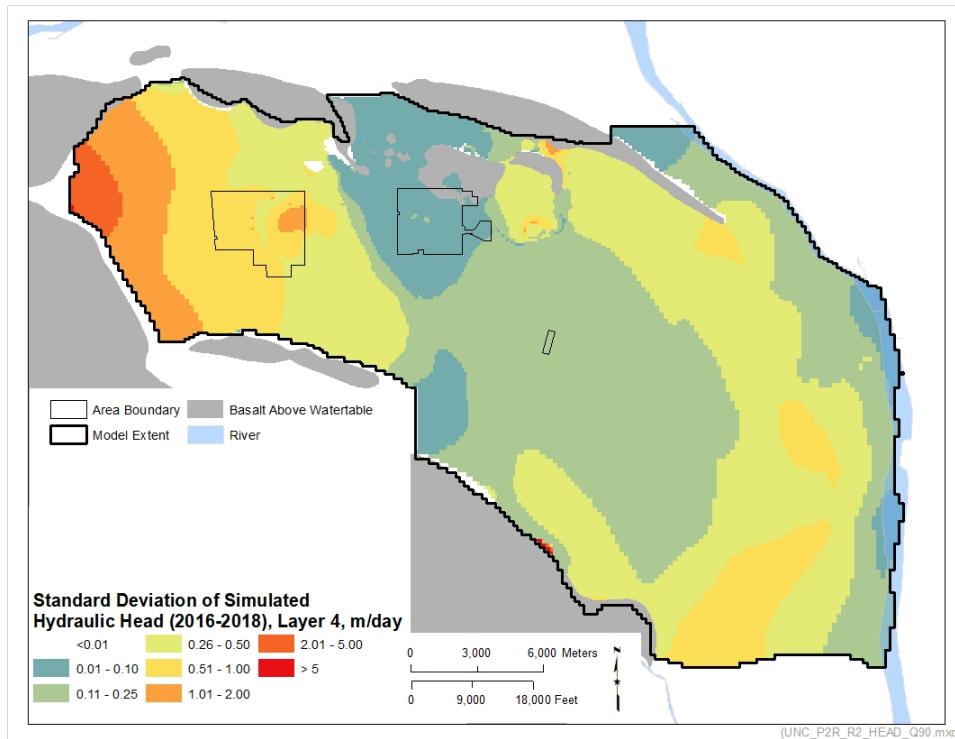


Figure B-63. Map of the standard deviation of simulated hydraulic head in layer 4 of the P2R Model representing all simulated variants executed for the NSMC.

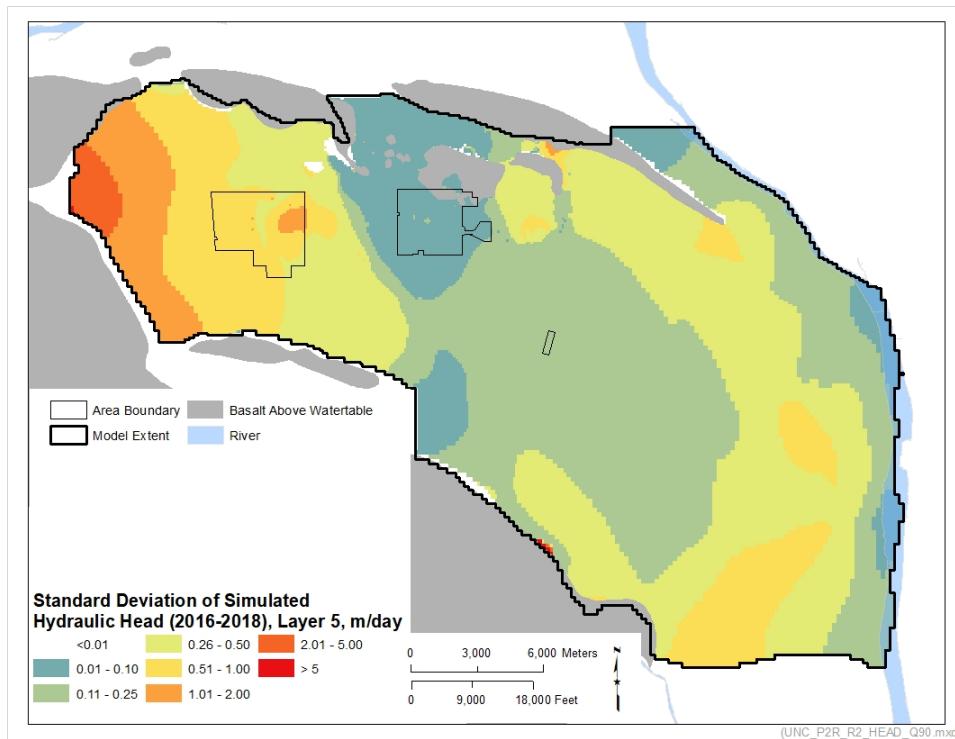


Figure B-64. Map of the standard deviation of simulated hydraulic head in layer 5 of the P2R Model representing all simulated variants executed for the NSMC.

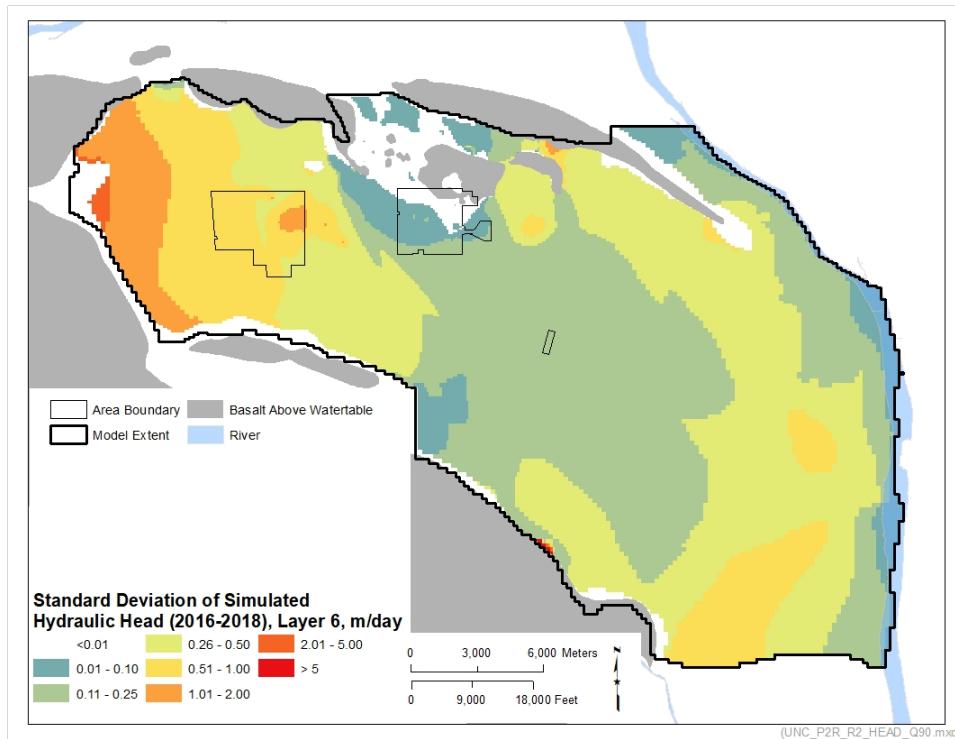


Figure B-65. Map of the standard deviation of simulated hydraulic head in layer 6 of the P2R Model representing all simulated variants executed for the NSMC.

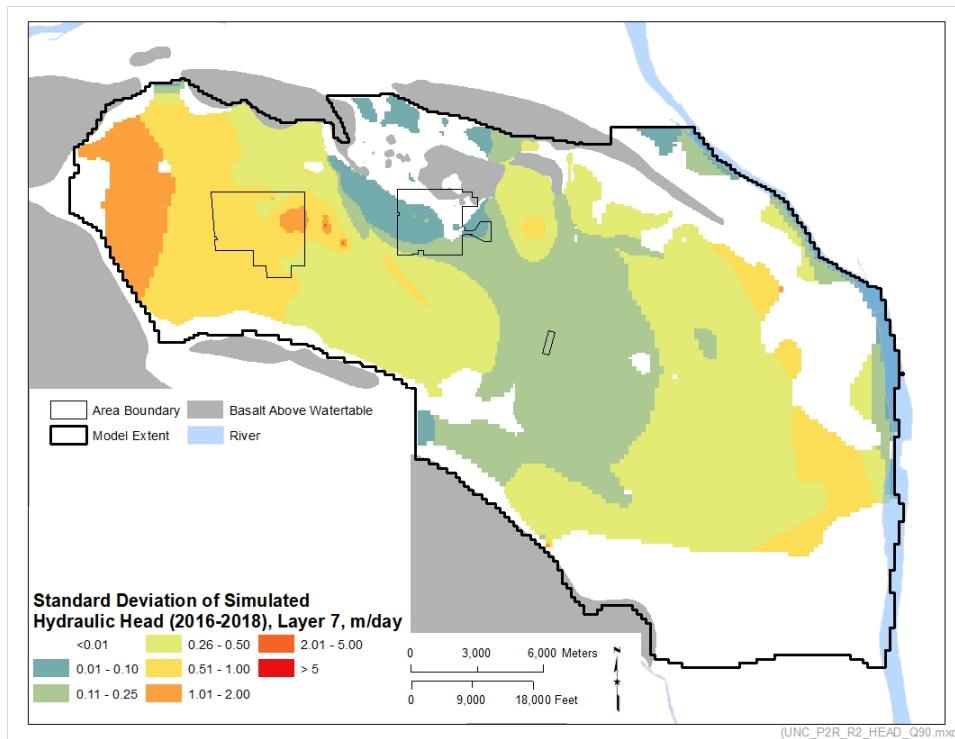


Figure B-66. Map of the standard deviation of simulated hydraulic head in layer 7 of the P2R Model representing all simulated variants executed for the NSMC.

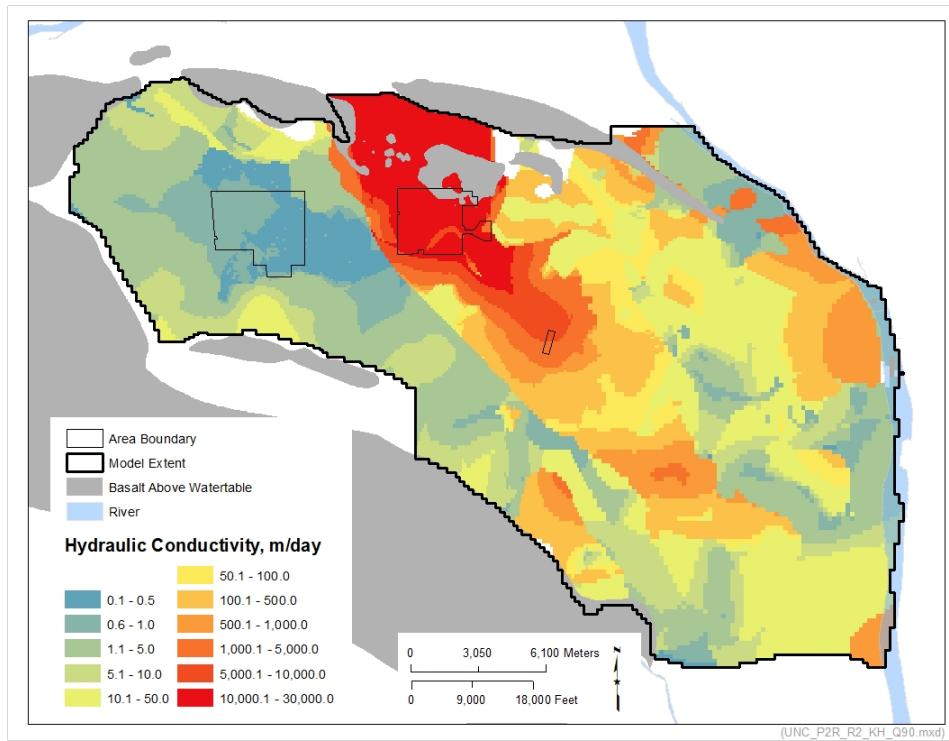


Figure B-67. Map of simulated hydraulic conductivity for the Hanford Formation in the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

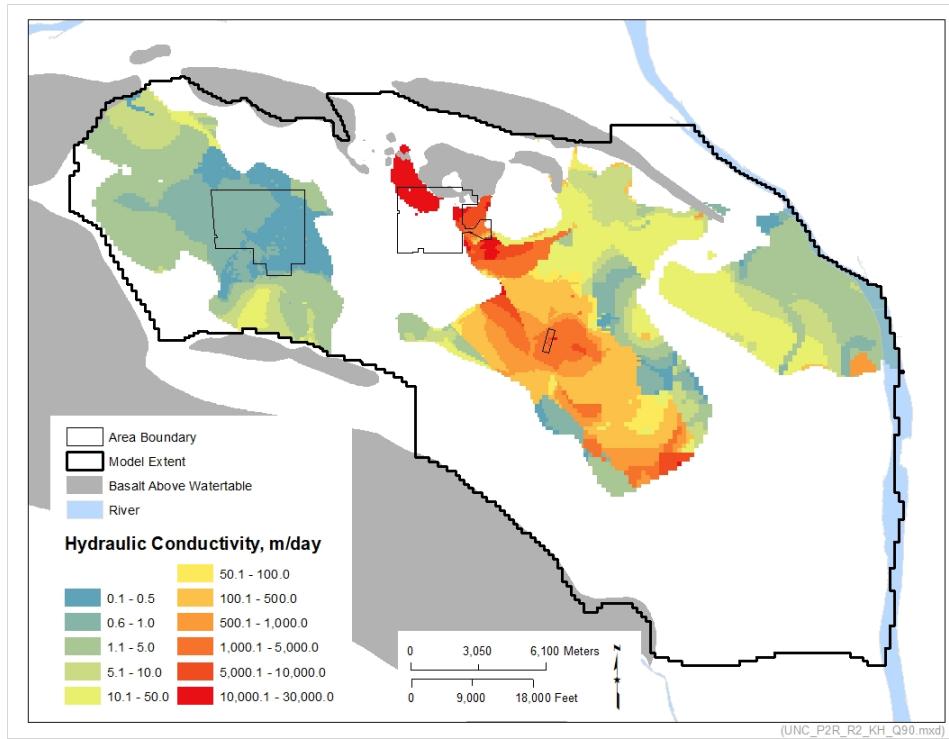


Figure B-68. Map of simulated hydraulic conductivity for the Cold Creek Unit in the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

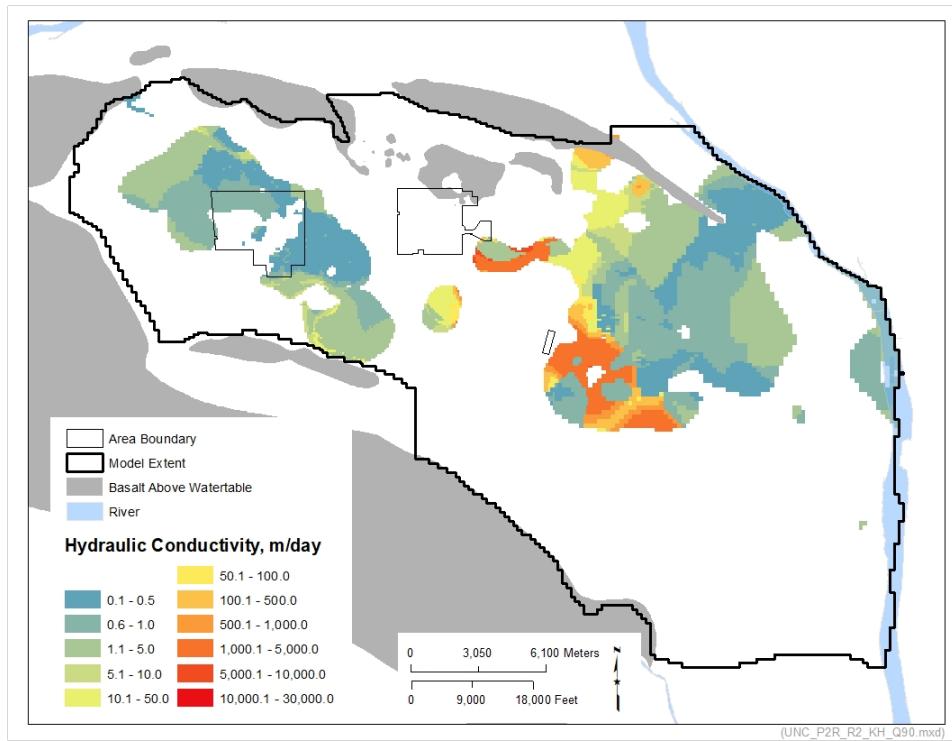


Figure B-69. Map of simulated hydraulic conductivity for the Ringold Taylor Flat Unit in the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

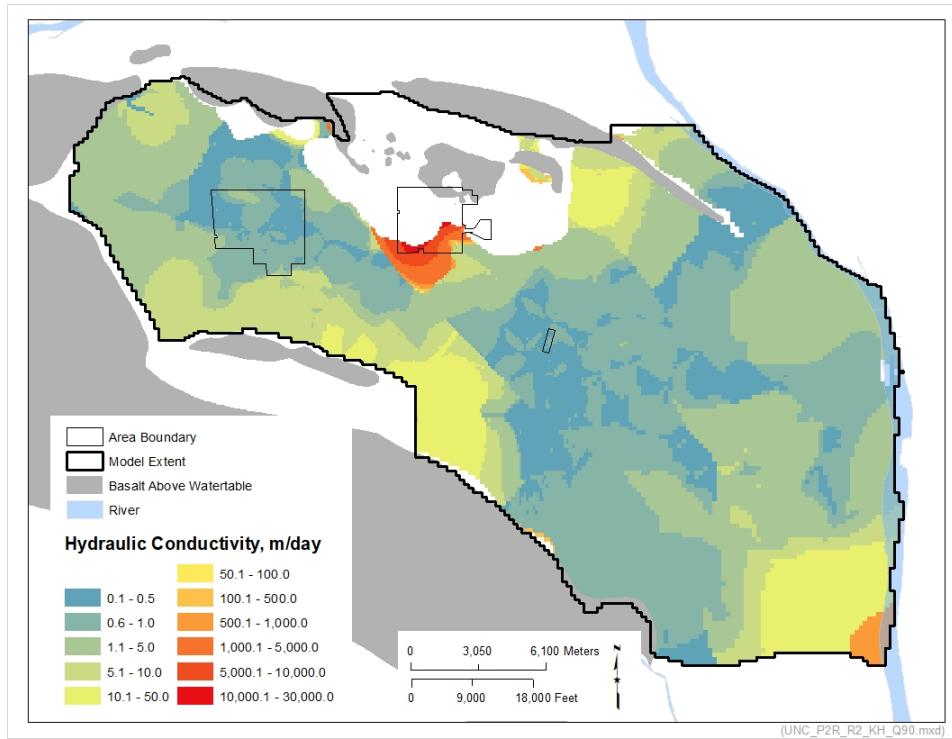


Figure B-70. Map of simulated hydraulic conductivity for the Ringold Unit E in the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

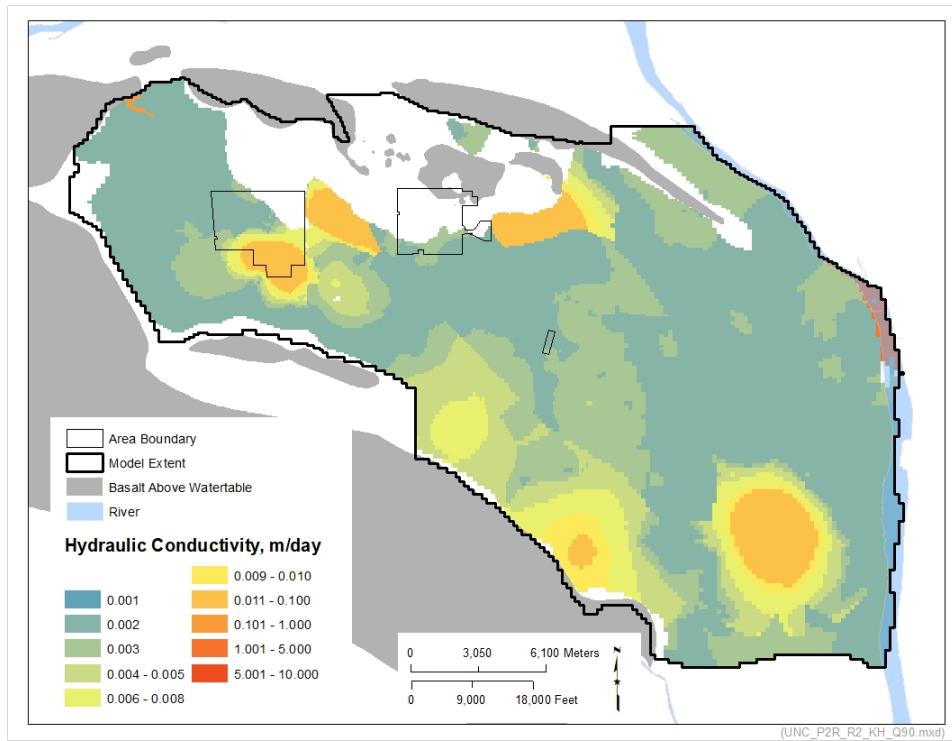


Figure B-71. Map of simulated hydraulic conductivity for the Ringold Lower Mud Unit in the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

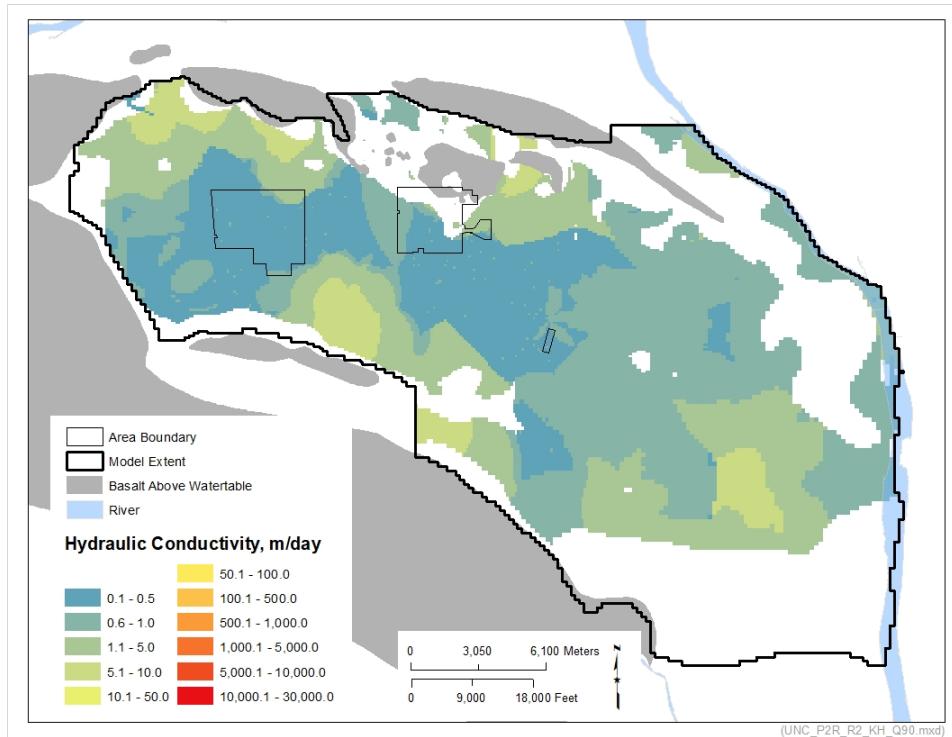


Figure B-72. Map of simulated hydraulic conductivity for the Ringold Unit A in the P2R Model representing the 10th percentile of all simulated variants executed for the NSMC.

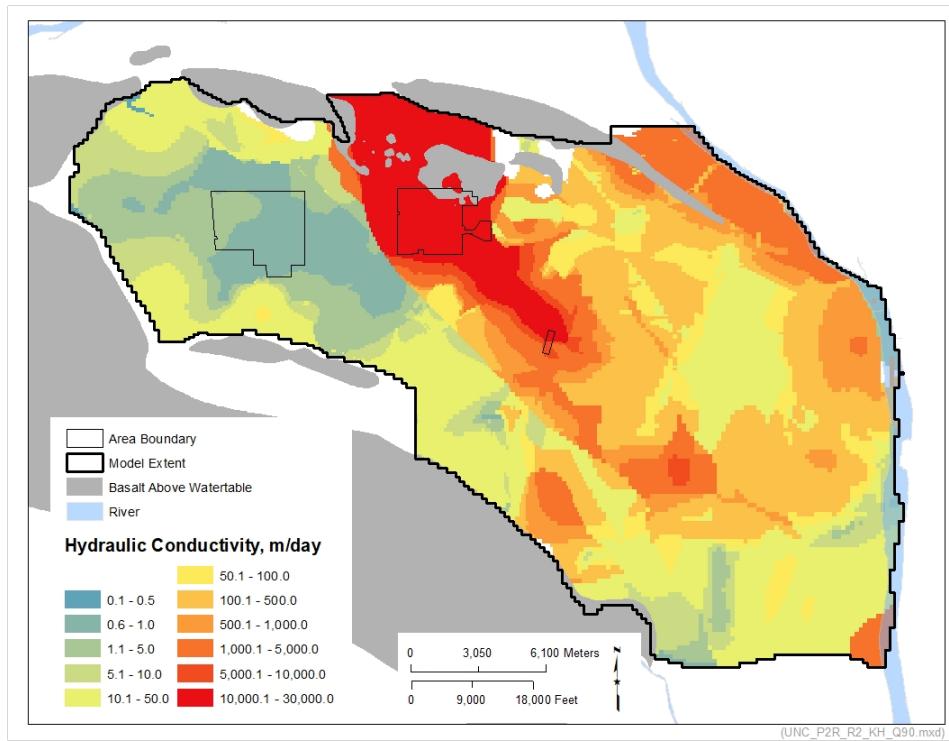


Figure B-73. Map of simulated hydraulic conductivity for the Hanford Formation in the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

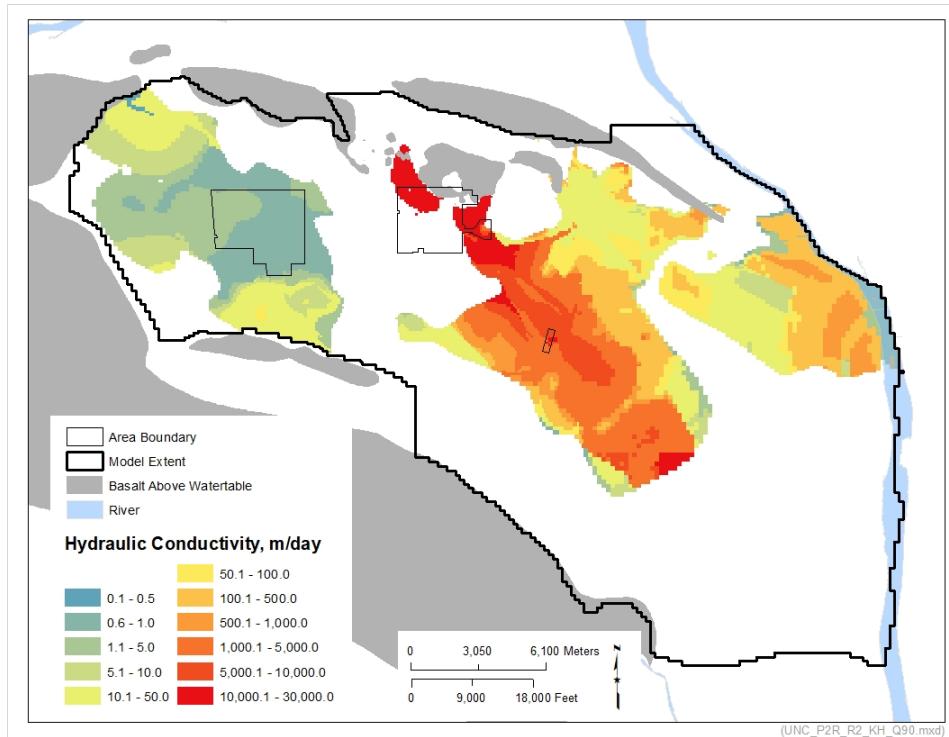


Figure B-74. Map of simulated hydraulic conductivity for the Cold Creek Unit in the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

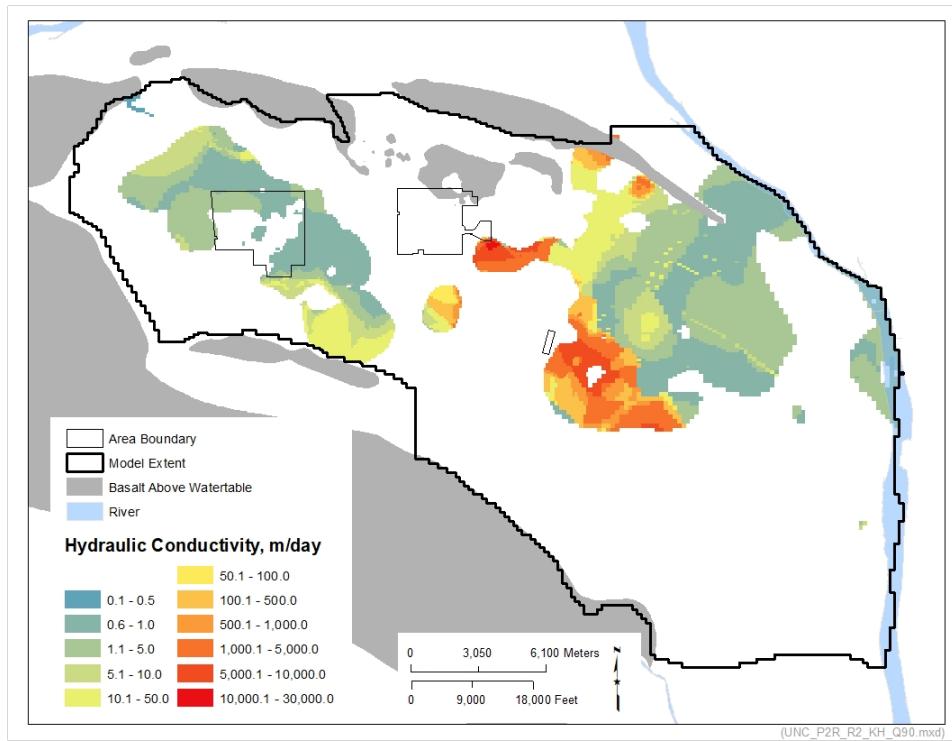


Figure B-75. Map of simulated hydraulic conductivity for the Ringold Taylor Flat Unit in the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

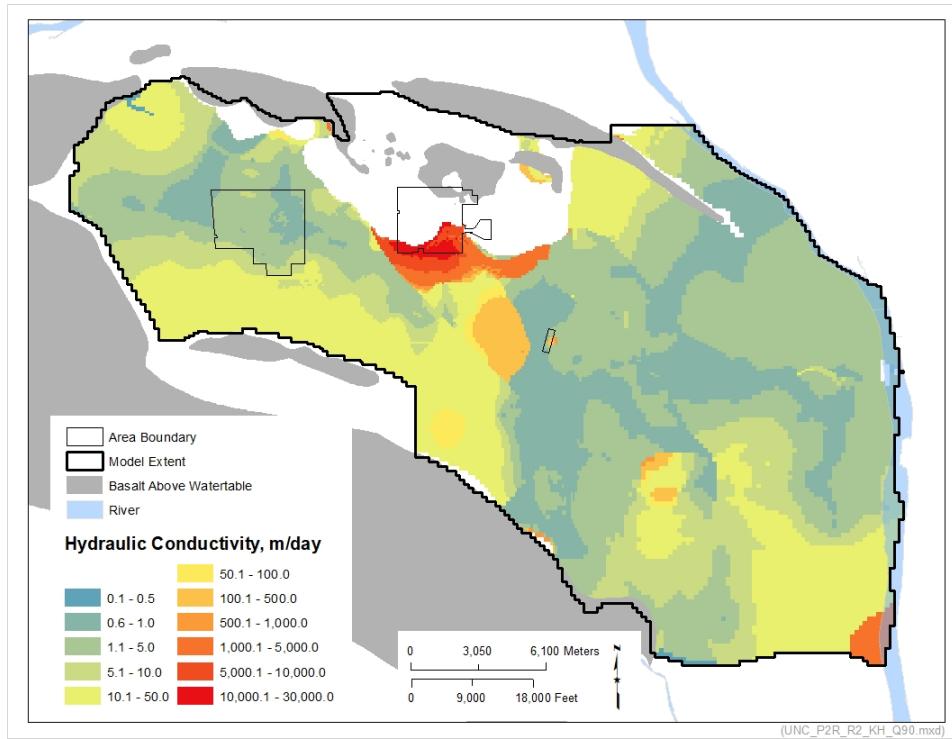


Figure B-76. Map of simulated hydraulic conductivity for the Ringold Unit E in the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

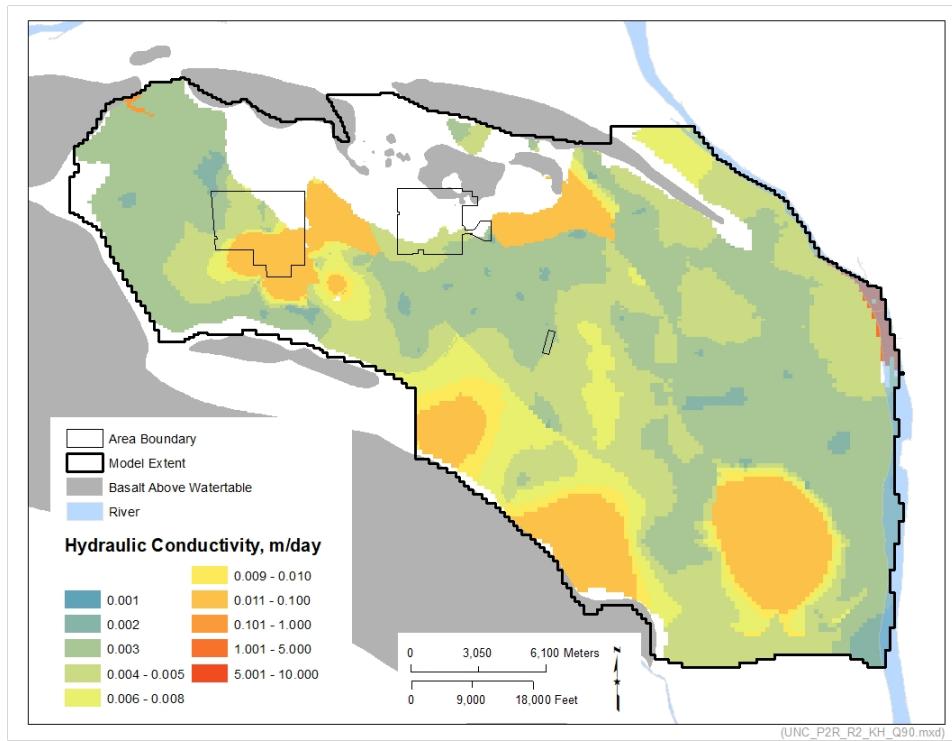


Figure B-77. Map of simulated hydraulic conductivity for the Ringold Lower Mud Unit in the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

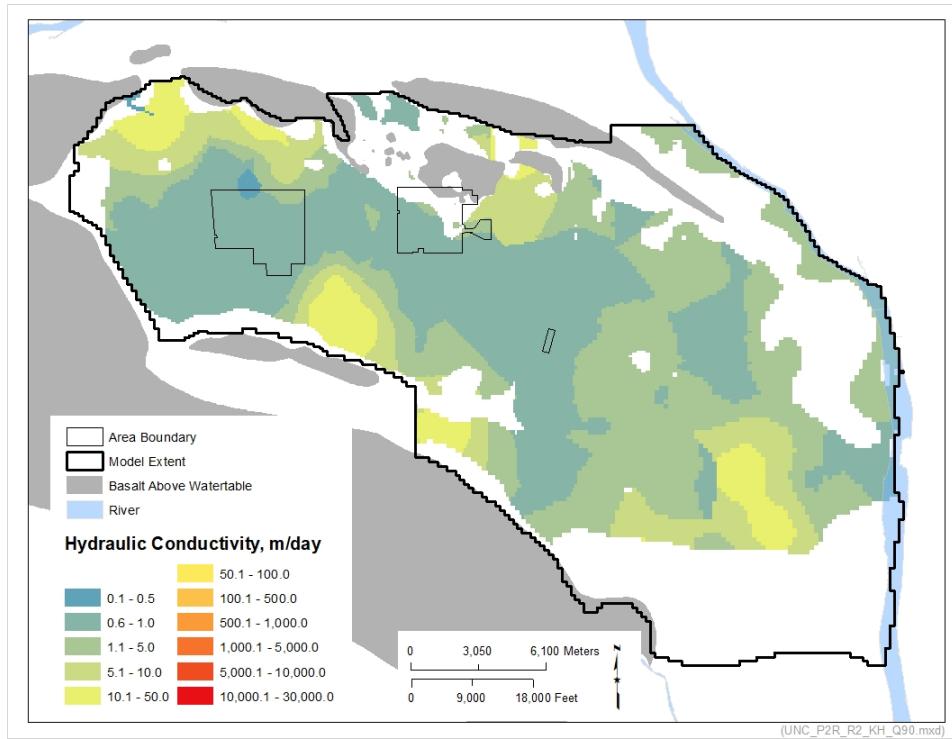


Figure B-78. Map of simulated hydraulic conductivity for the Ringold Unit A in the P2R Model representing the 50th percentile of all simulated variants executed for the NSMC.

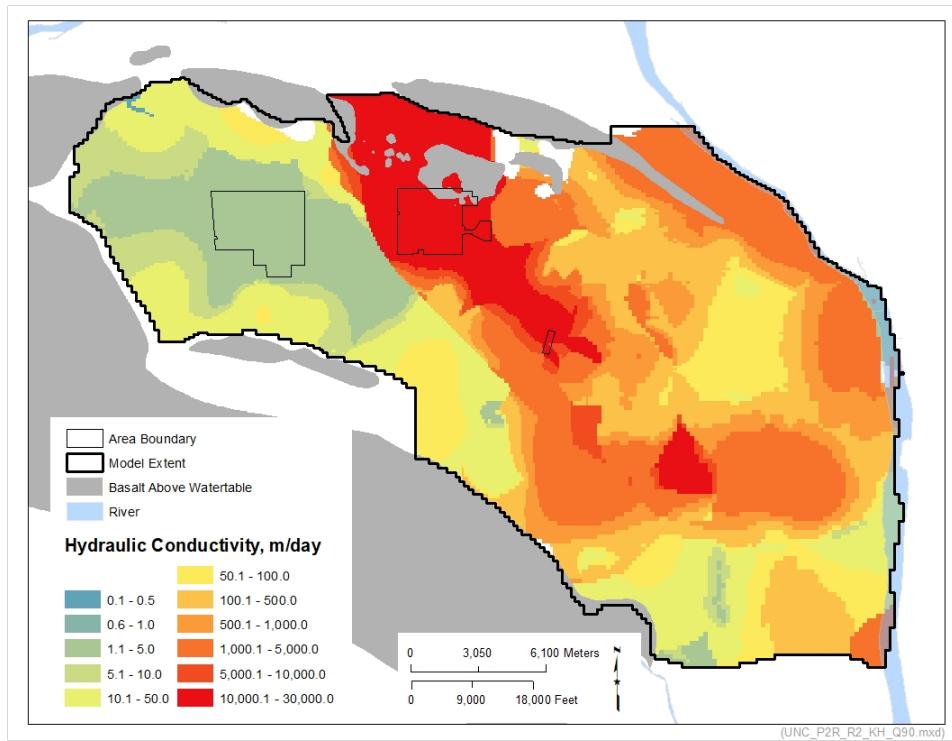


Figure B-79. Map of simulated hydraulic conductivity for the Hanford Formation in the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

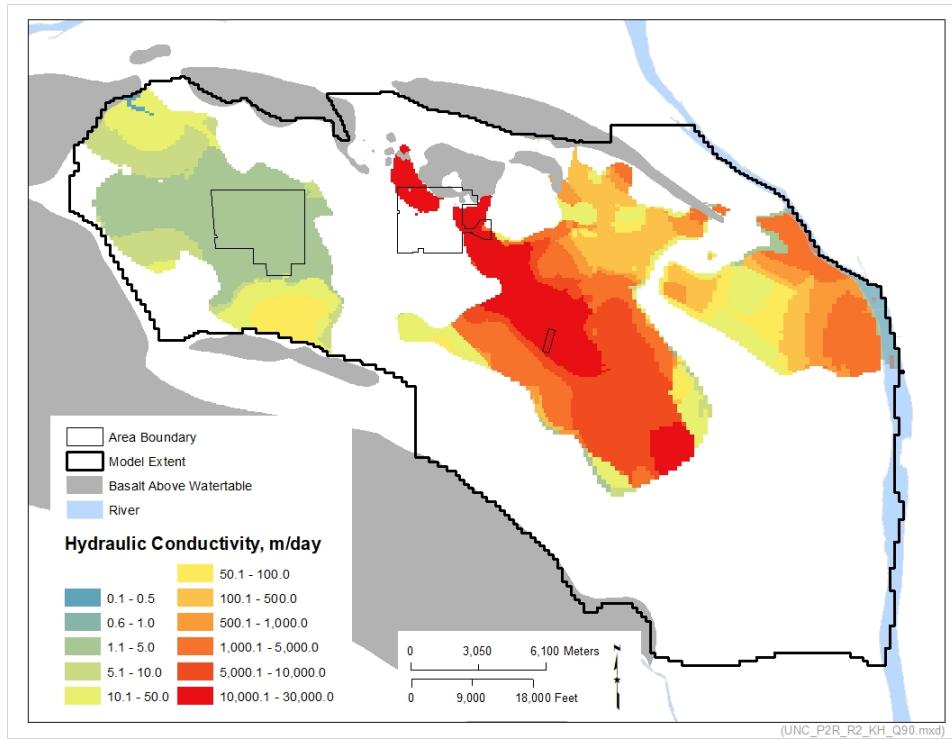


Figure B-80. Map of simulated hydraulic conductivity for the Cold Creek Unit in the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

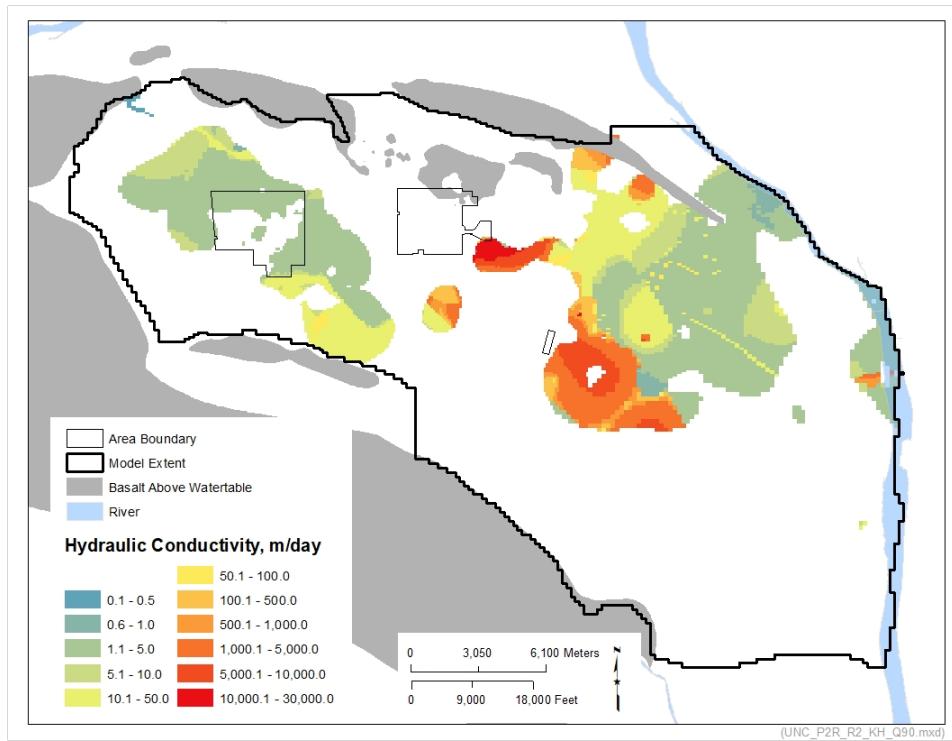


Figure B-81. Map of simulated hydraulic conductivity for the Ringold Taylor Flat Unit in the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

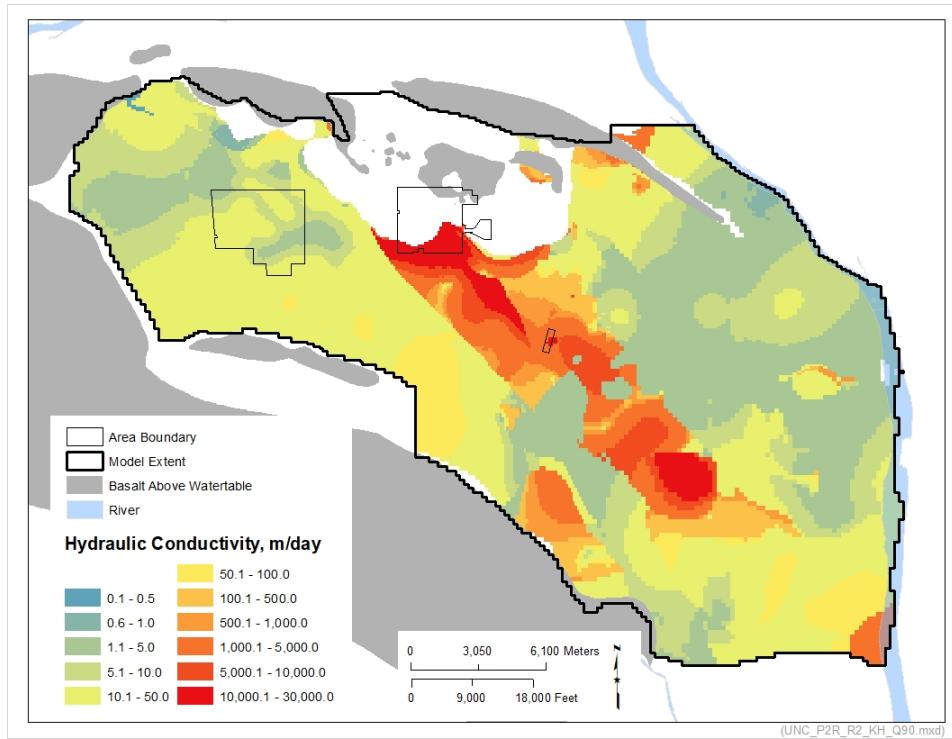


Figure B-82. Map of simulated hydraulic conductivity for the Ringold Unit E in the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

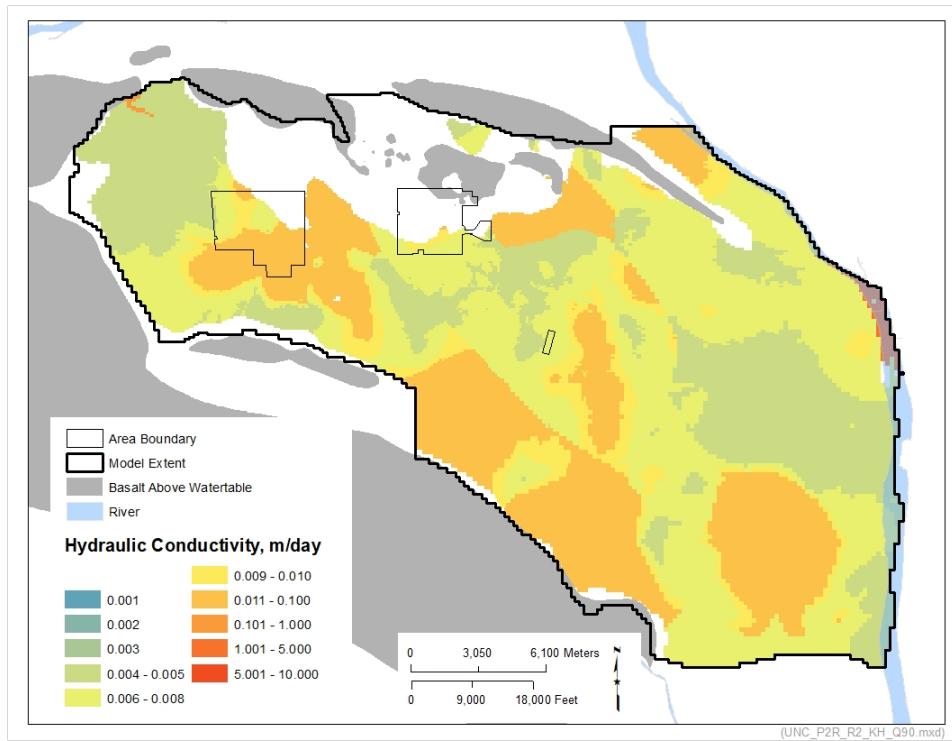


Figure B-83. Map of simulated hydraulic conductivity for the Ringold Lower Mud Unit in the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

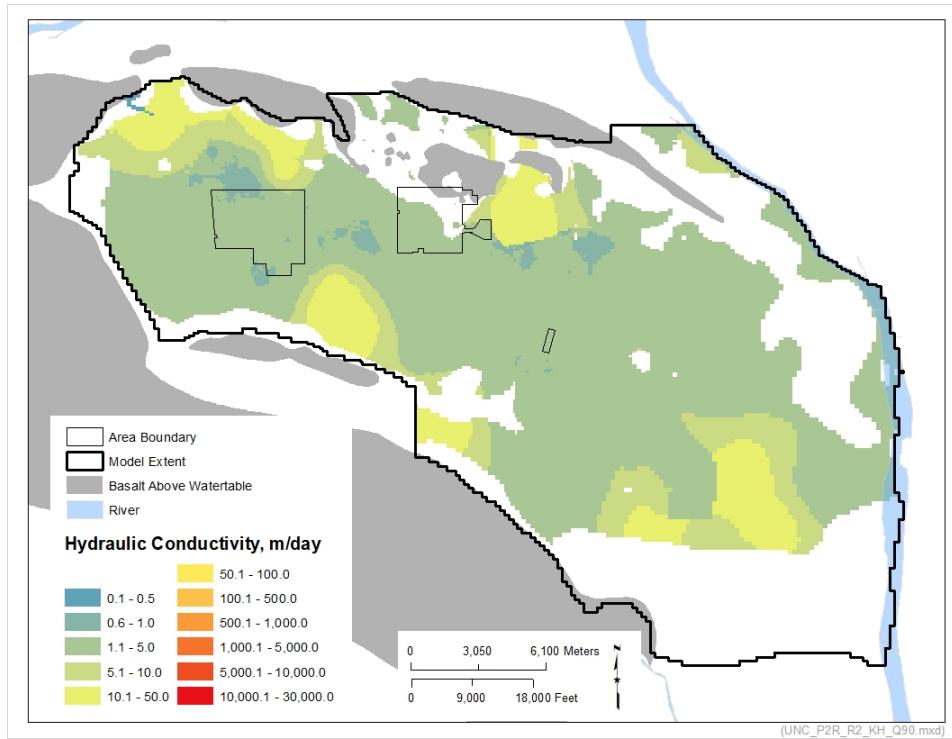


Figure B-84. Map of simulated hydraulic conductivity for the Ringold Unit A in the P2R Model representing the 90th percentile of all simulated variants executed for the NSMC.

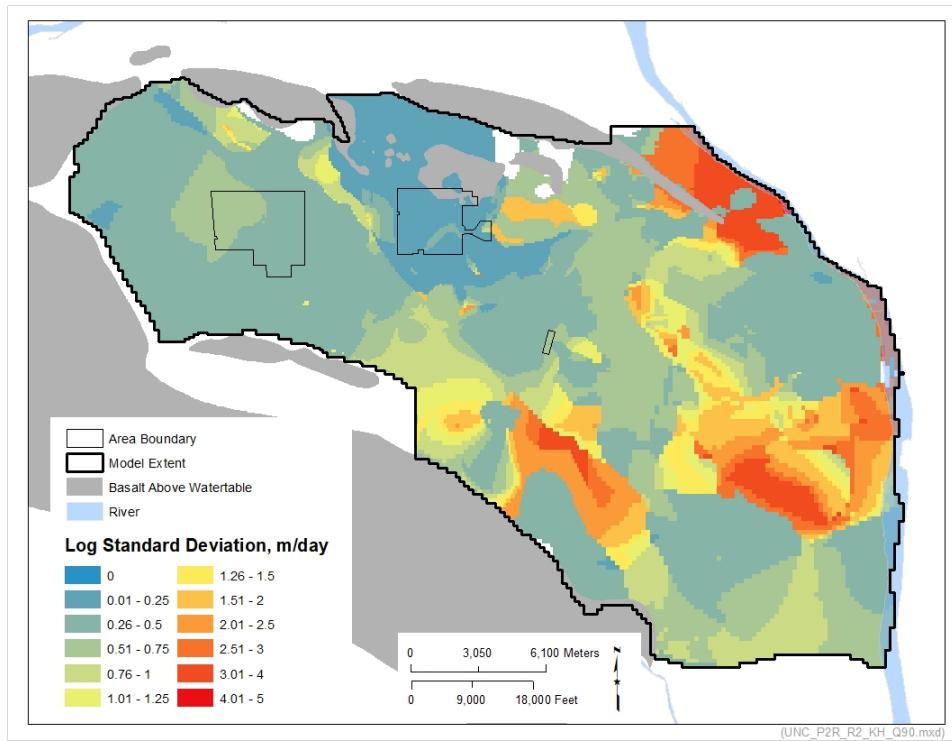


Figure B-85. Map of the standard deviation of the log transformed simulated hydraulic conductivity in Hanford Formation of the P2R Model representing all simulated variants executed for the NSMC.

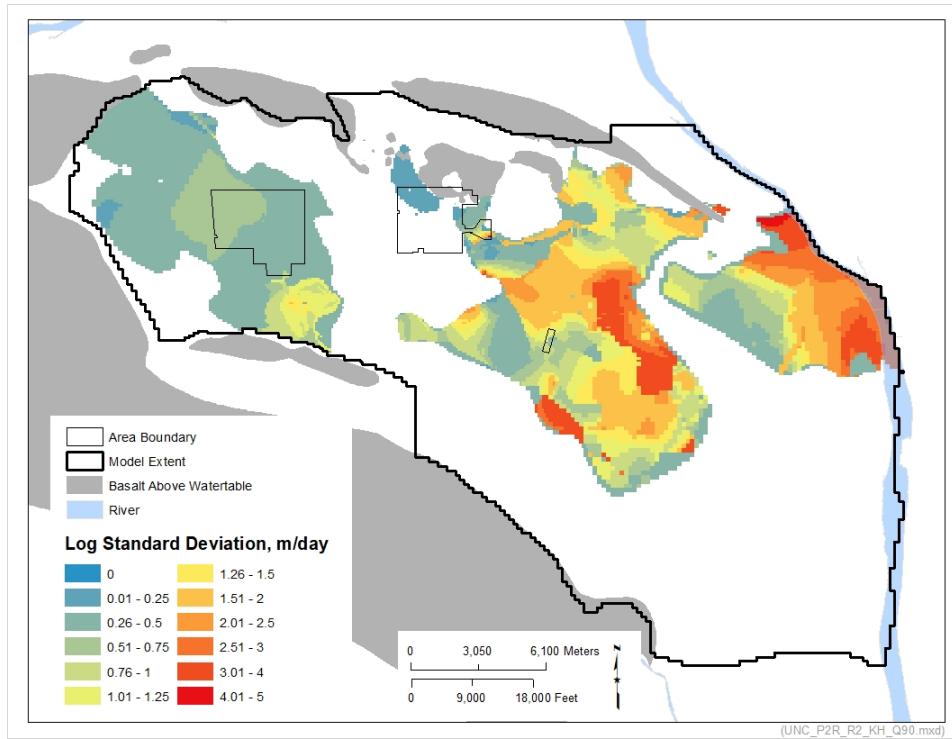


Figure B-86. Map of the standard deviation of the log transformed simulated hydraulic conductivity in Cold Creek Unit of the P2R Model representing all simulated variants executed for the NSMC.

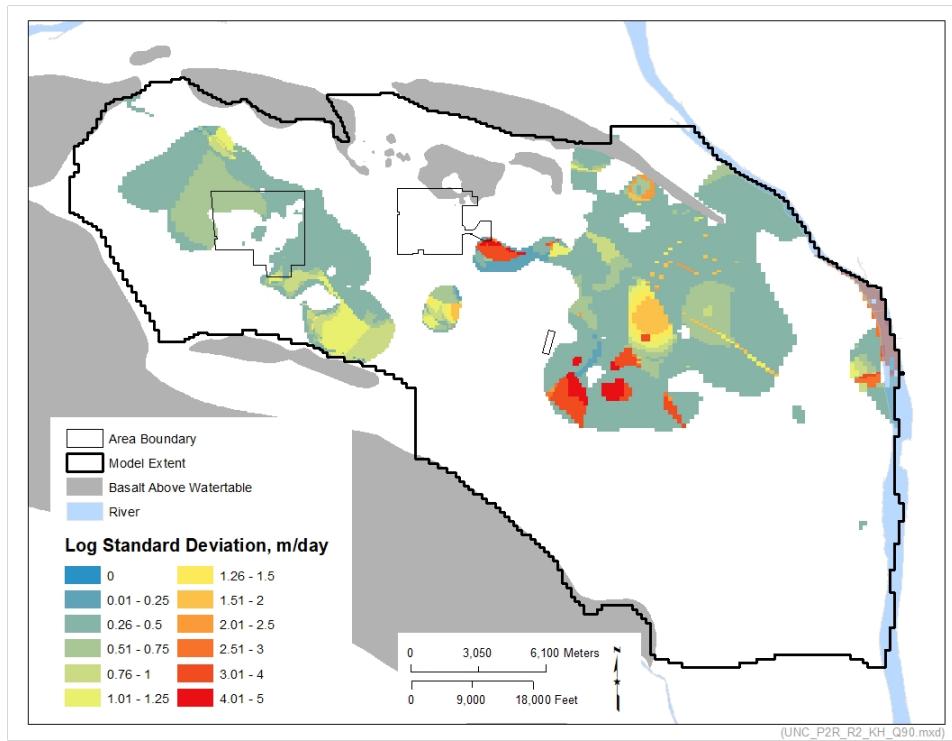


Figure B-87. Map of the standard deviation of the log transformed simulated hydraulic conductivity in Ringold Taylor Flat Unit of the P2R Model representing all simulated variants executed for the NSMC.

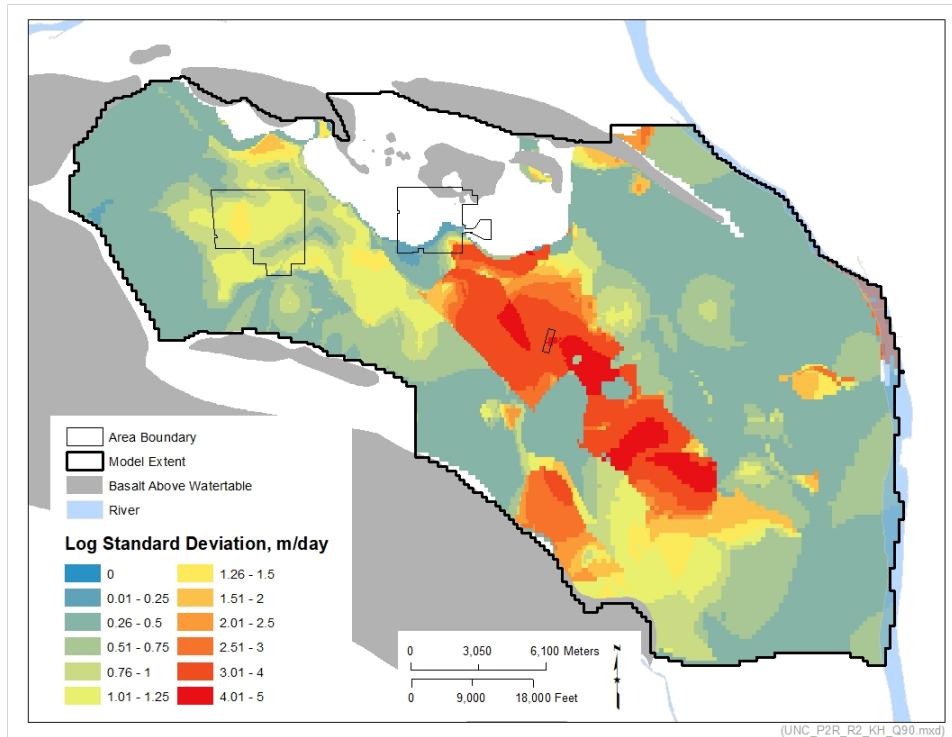


Figure B-88. Map of the standard deviation of the log transformed simulated hydraulic conductivity in Ringold Unit E of the P2R Model representing all simulated variants executed for the NSMC.

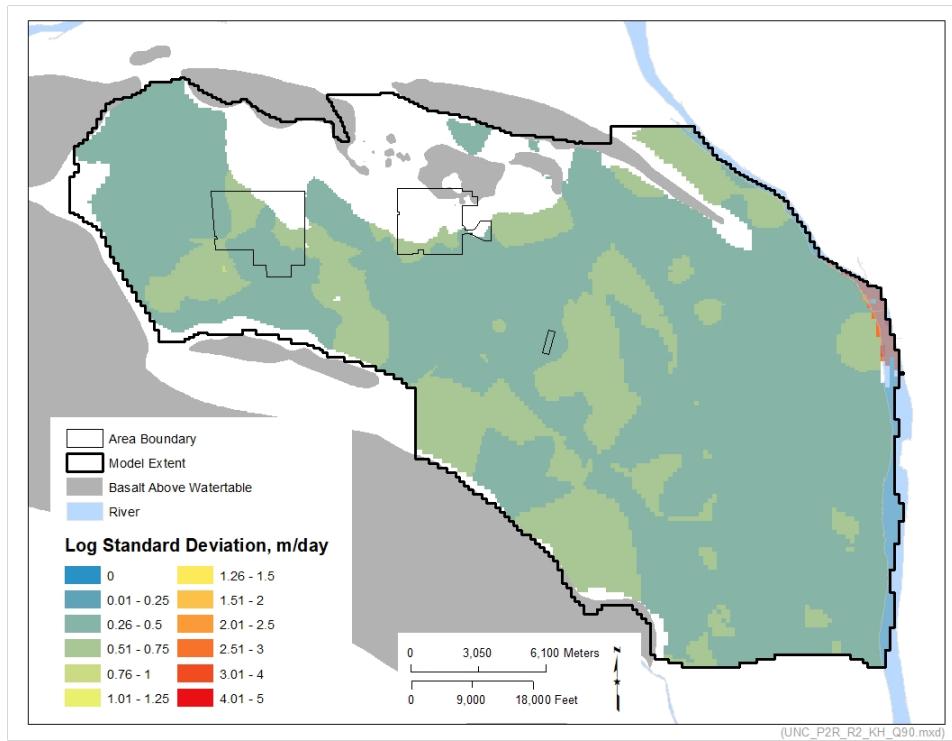


Figure B-89. Map of the standard deviation of the log transformed simulated hydraulic conductivity in Ringold Lower Mud Unit of the P2R Model representing all simulated variants executed for the NSMC.

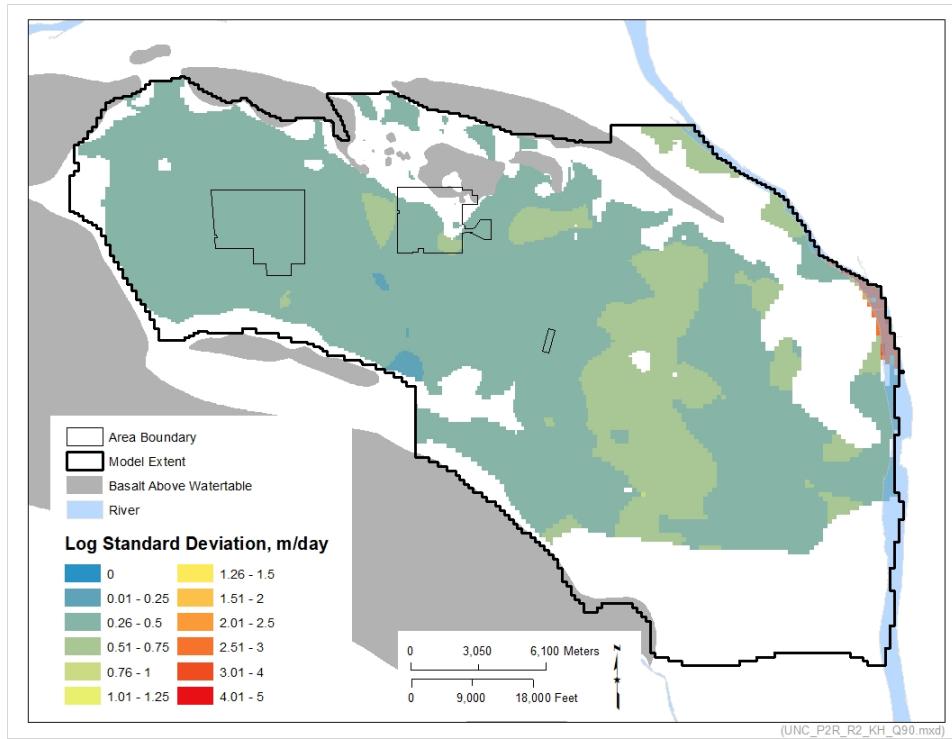


Figure B-90. Map of the standard deviation of the log transformed simulated hydraulic conductivity in Ringold Unit A of the P2R Model representing all simulated variants executed for the NSMC.

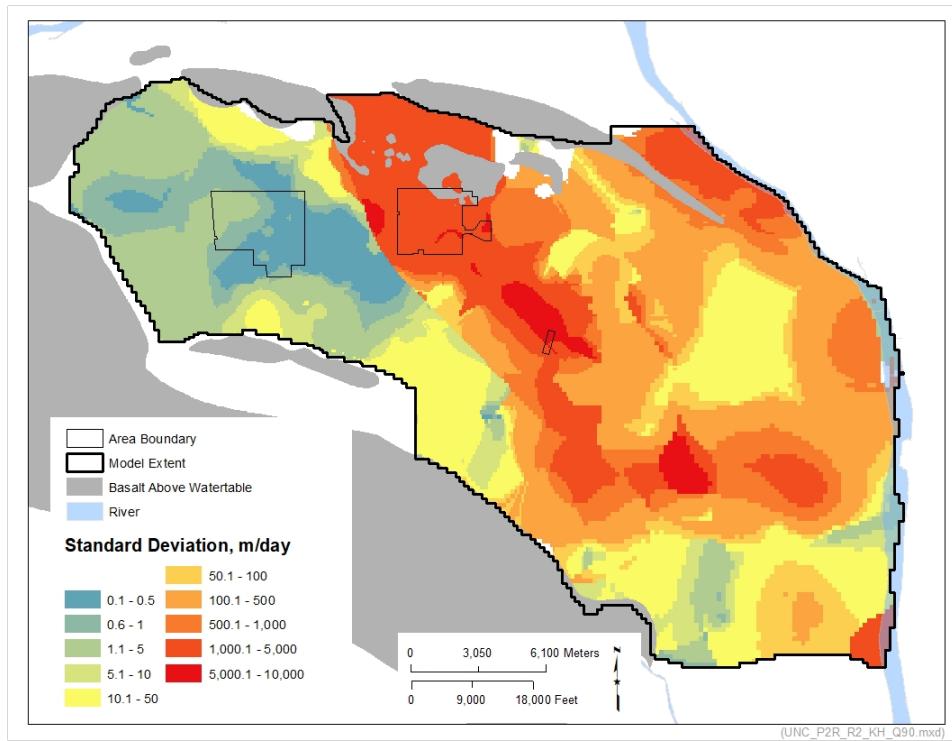


Figure B-91. Map of the standard deviation of simulated hydraulic conductivity in Hanford Formation of the P2R Model representing all simulated variants executed for the NSMC.

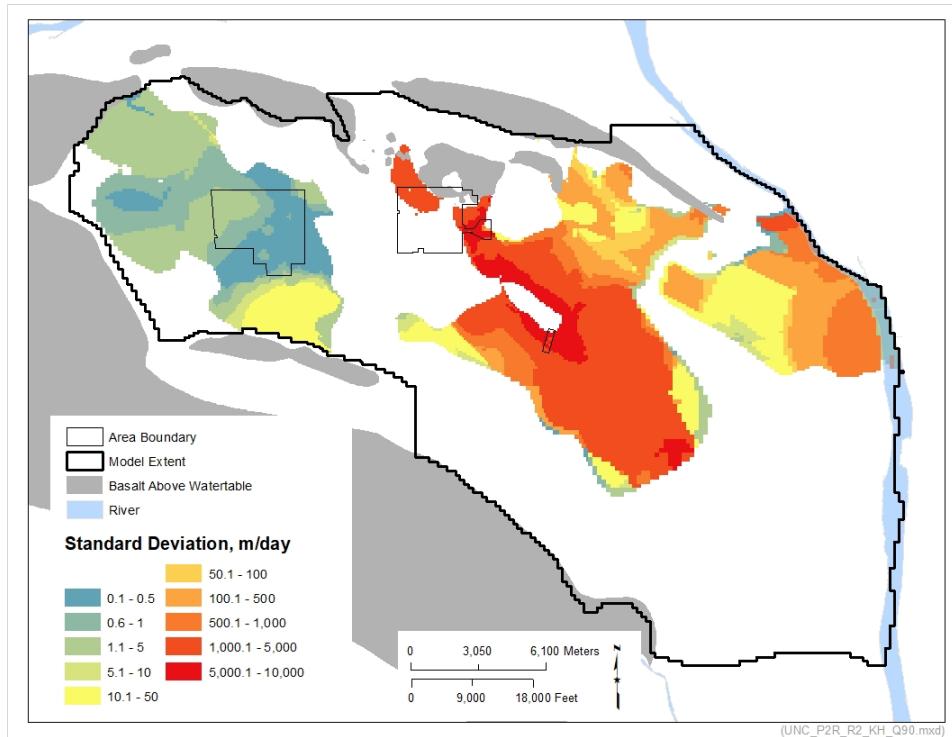


Figure B-92. Map of the standard deviation of simulated hydraulic conductivity in Cold Creek Unit of the P2R Model representing all simulated variants executed for the NSMC.

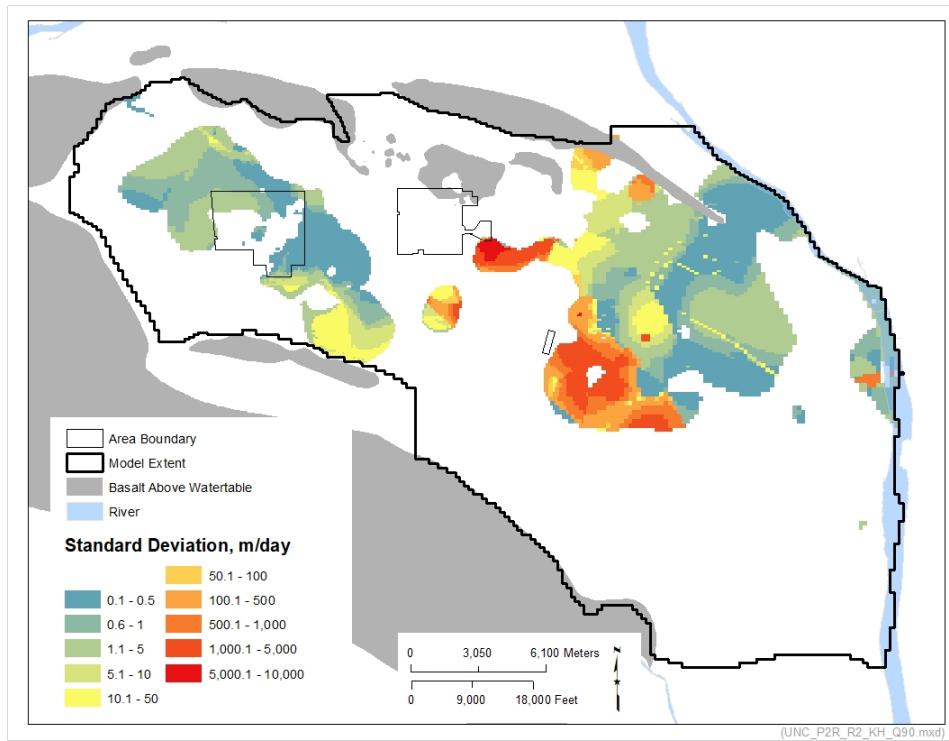


Figure B-93. Map of the standard deviation of simulated hydraulic conductivity in Ringold Taylor Flat Unit of the P2R Model representing all simulated variants executed for the NSMC.

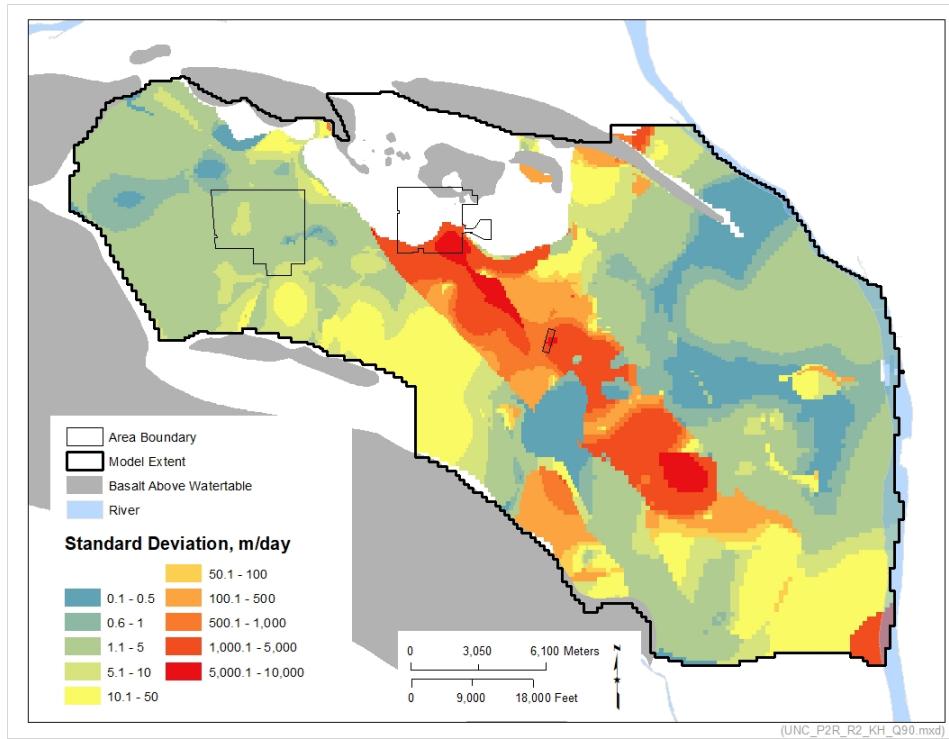


Figure B-94. Map of the standard deviation of simulated hydraulic conductivity in Ringold Unit E of the P2R Model representing all simulated variants executed for the NSMC.

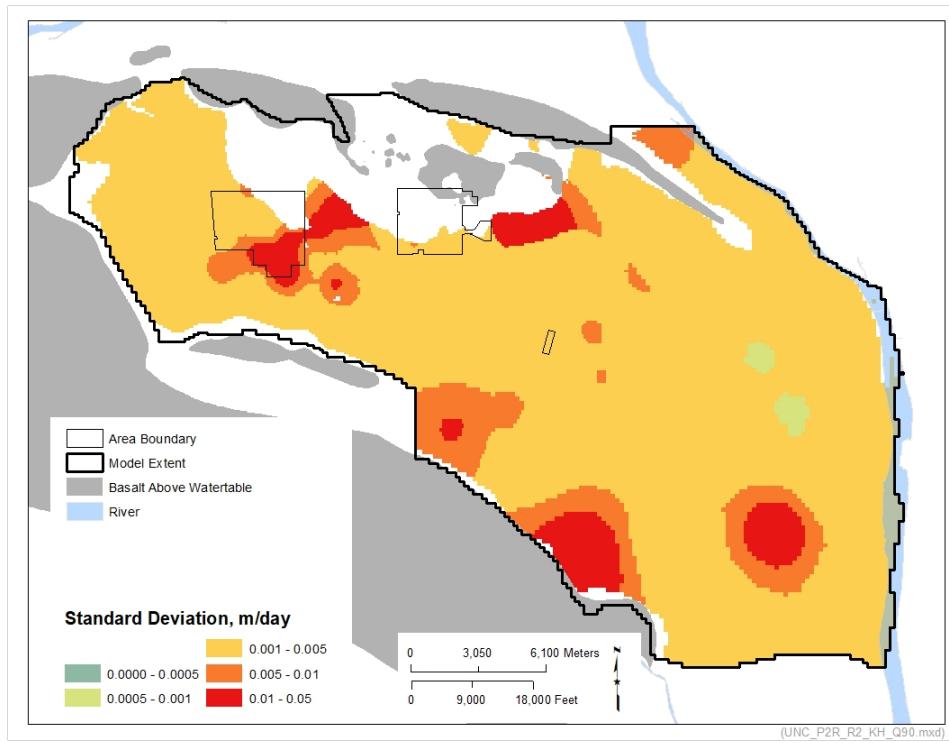


Figure B-95. Map of the standard deviation of simulated hydraulic conductivity in Ringold Lower Mud Unit of the P2R Model representing all simulated variants executed for the NSMC.

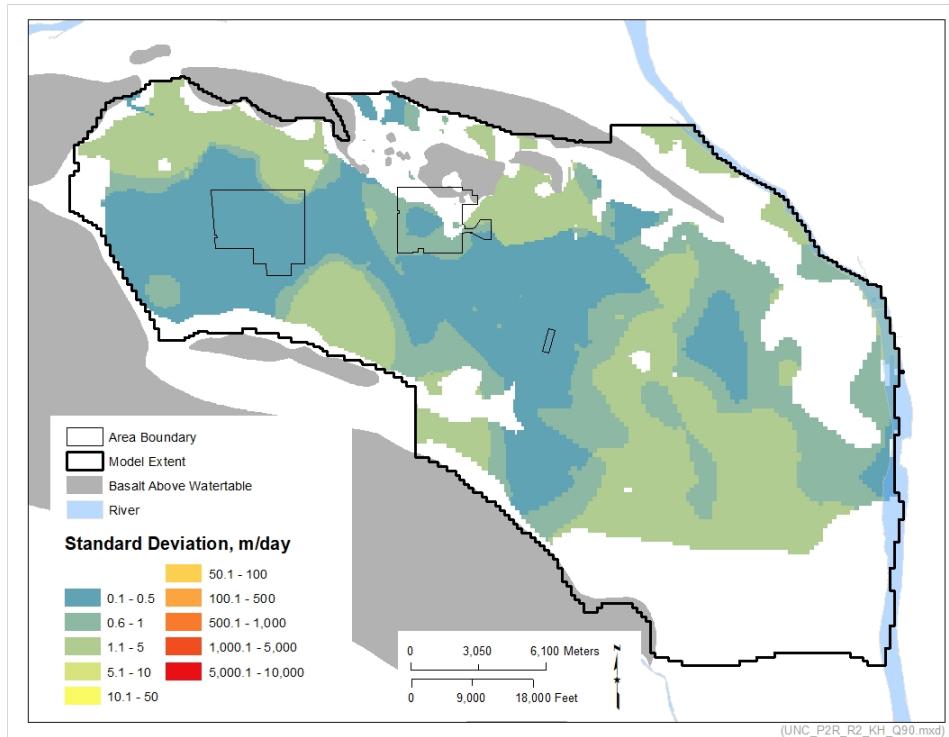


Figure B-96. Map of the standard deviation of simulated hydraulic conductivity in Ringold Unit A of the P2R Model representing all simulated variants executed for the NSMC.

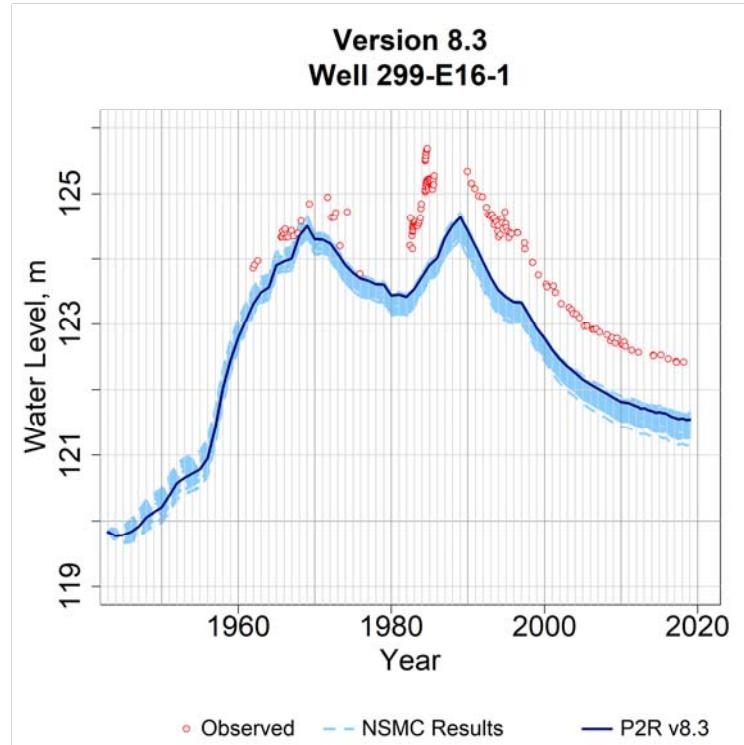


Figure B-97. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E16-1 for the calibrated model and all model variants from the NSMC.

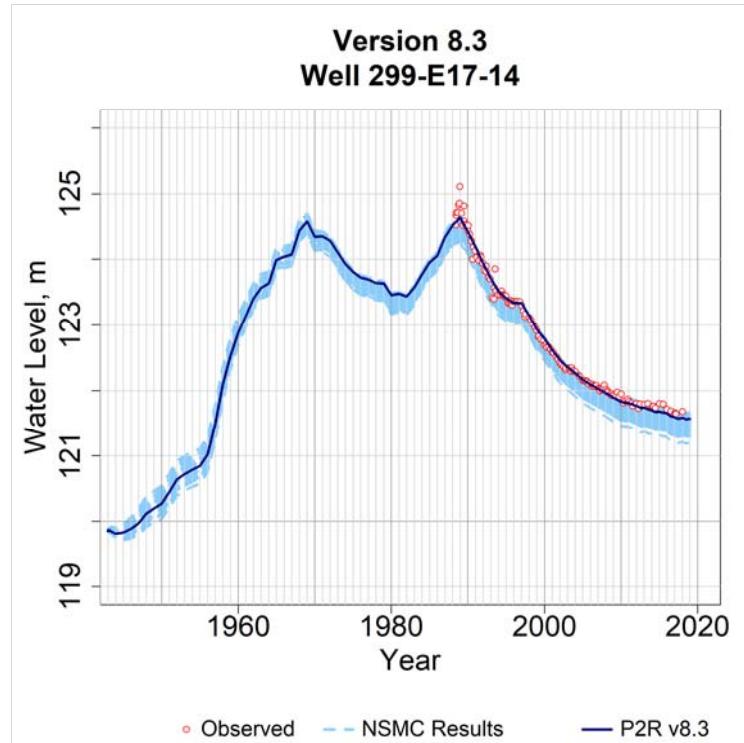


Figure B-98. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-14 for the calibrated model and all model variants from the NSMC.

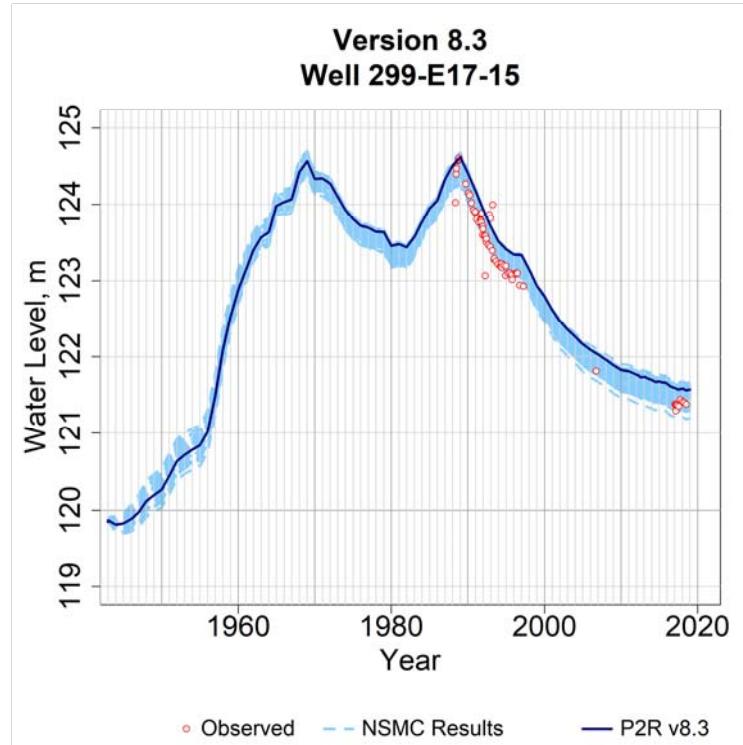


Figure B-99. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-15 for the calibrated model and all model variants from the NSMC.

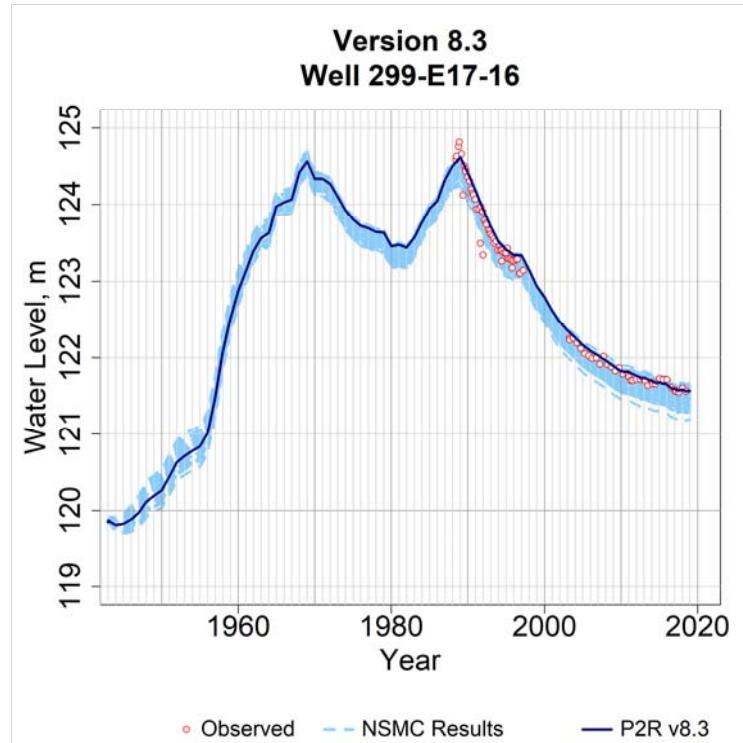


Figure B-100. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-16 for the calibrated model and all model variants from the NSMC.

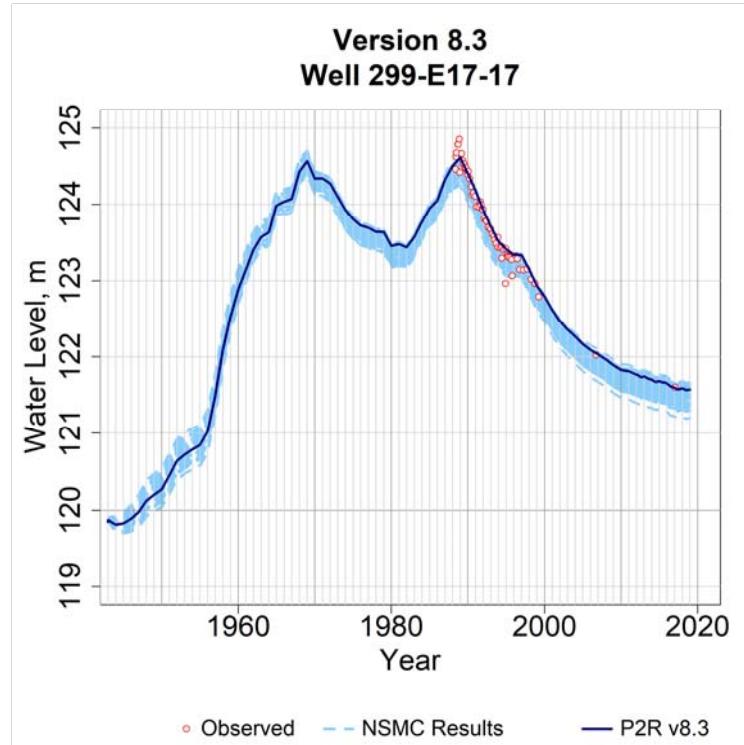


Figure B-101. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-17 for the calibrated model and all model variants from the NSMC.

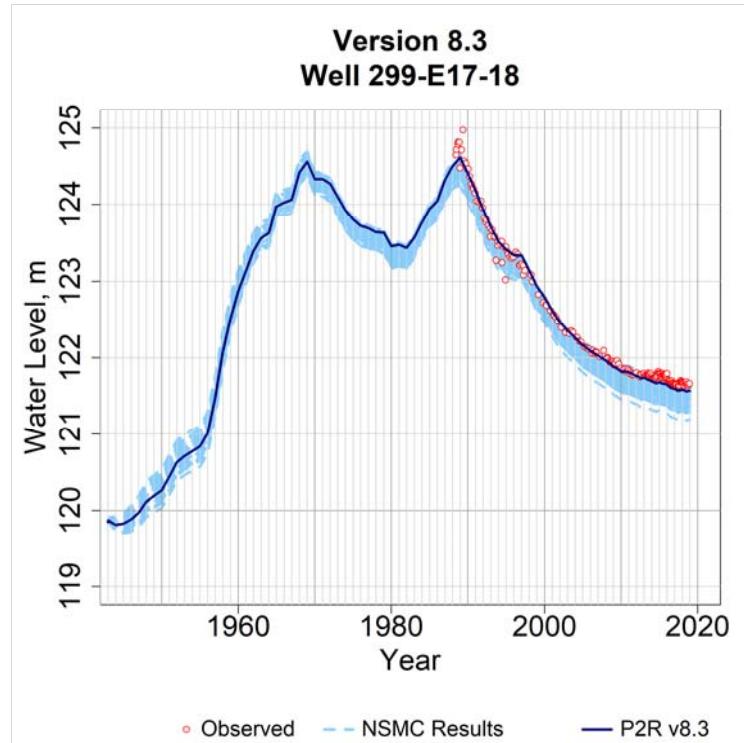


Figure B-102. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-18 for the calibrated model and all model variants from the NSMC.

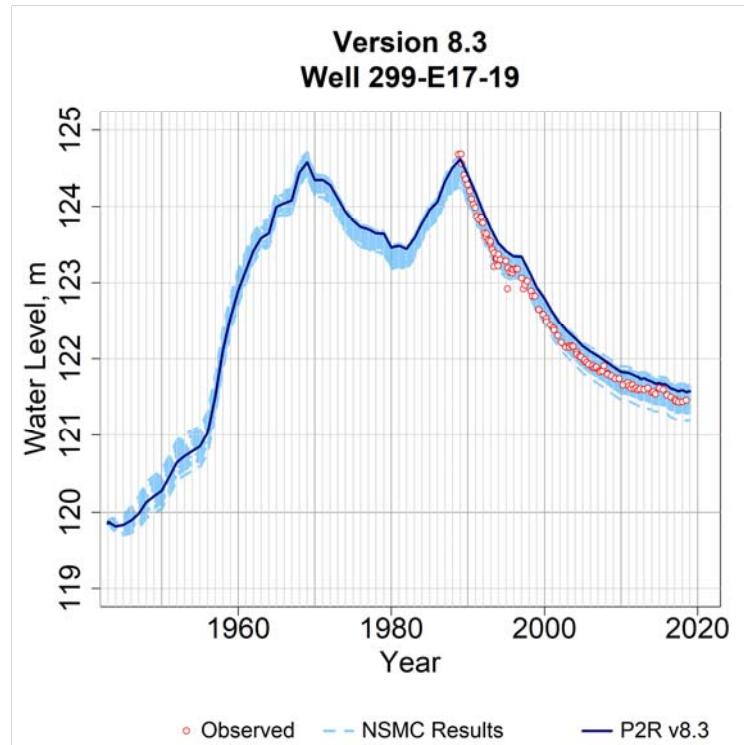


Figure B-103. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-19 for the calibrated model and all model variants from the NSMC.

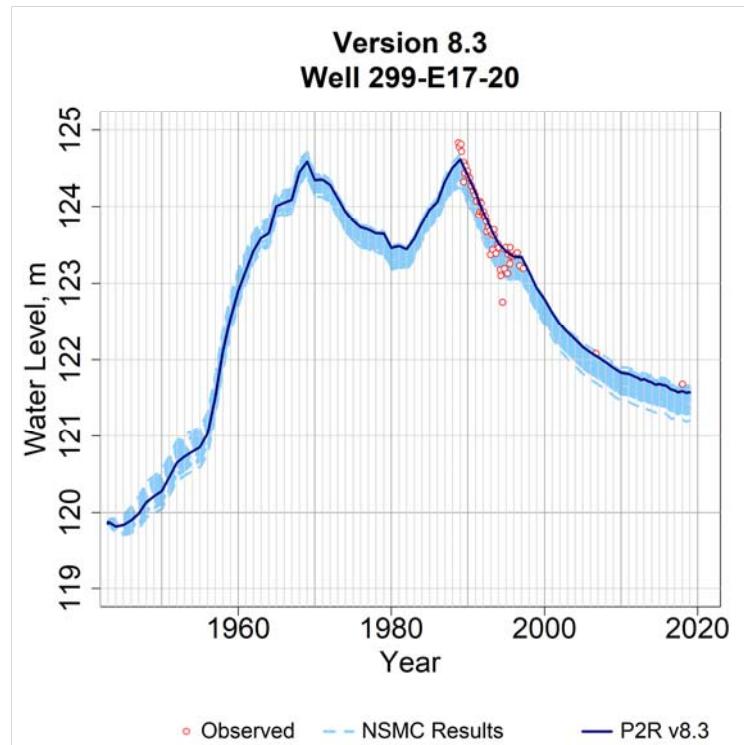


Figure B-104. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-20 for the calibrated model and all model variants from the NSMC.

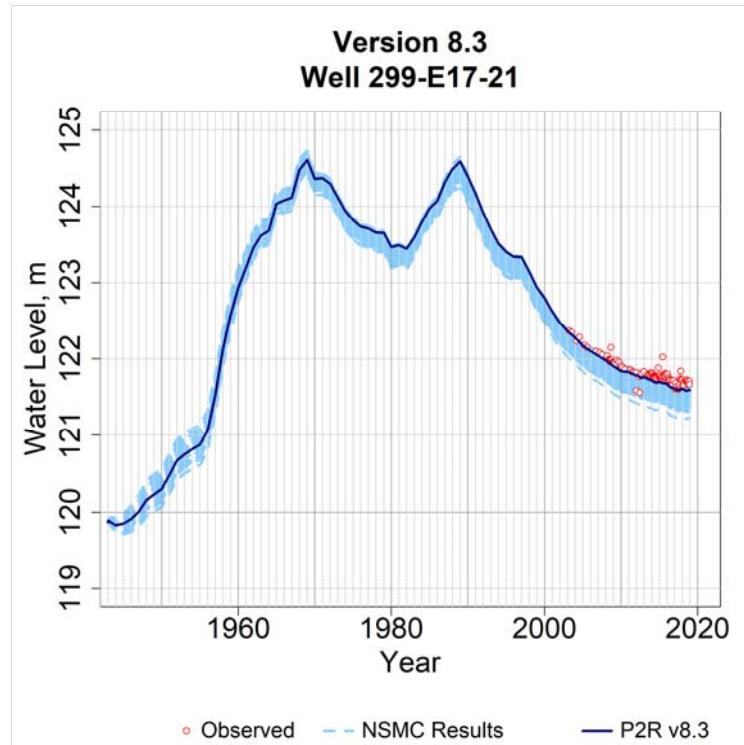


Figure B-105. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-21 for the calibrated model and all model variants from the NSMC.

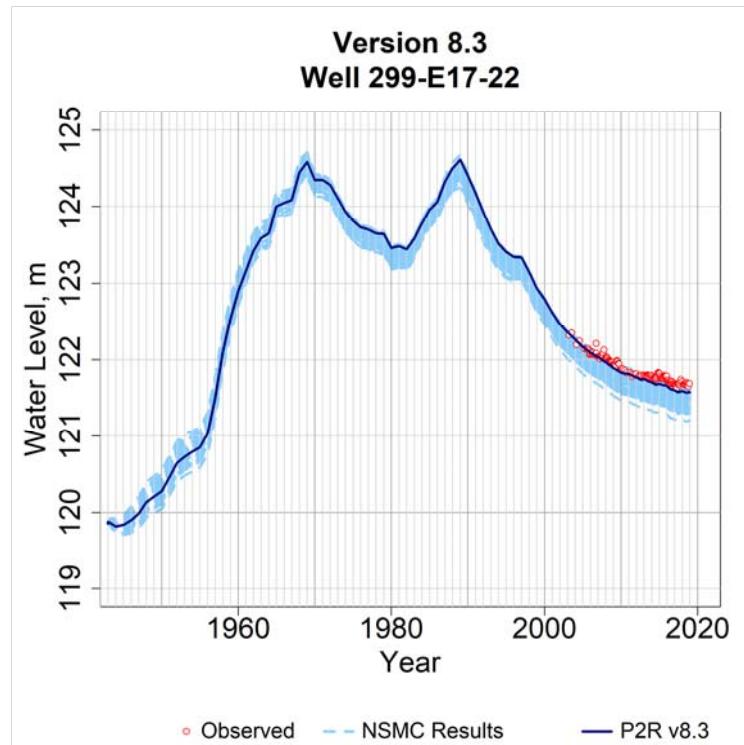


Figure B-106. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-22 for the calibrated model and all model variants from the NSMC.

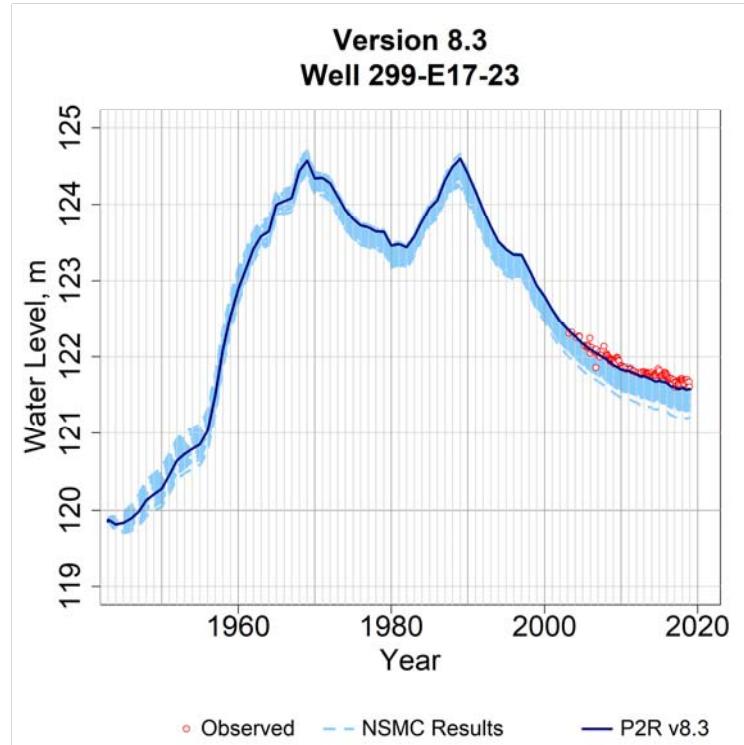


Figure B-107. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-23 for the calibrated model and all model variants from the NSMC.

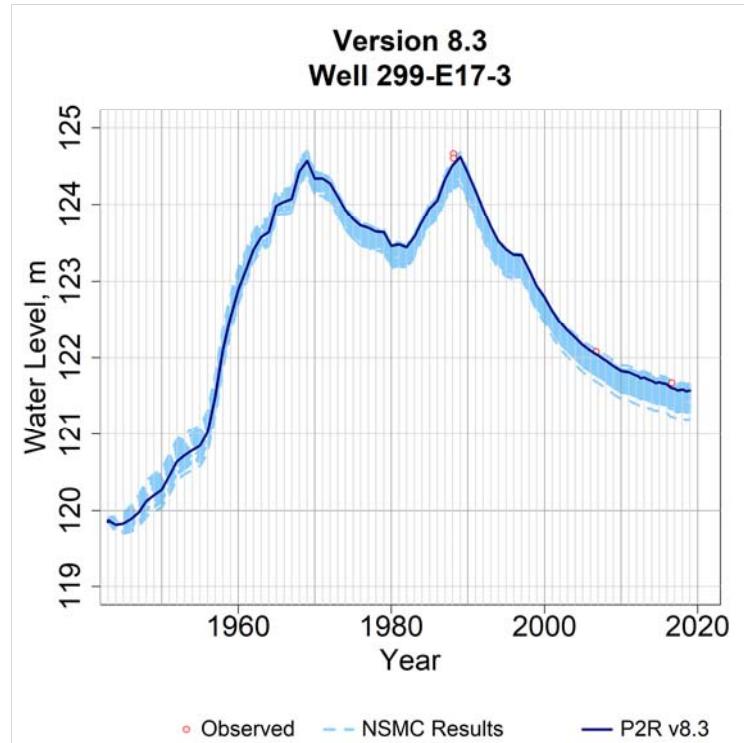


Figure B-108. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E17-3 for the calibrated model and all model variants from the NSMC.

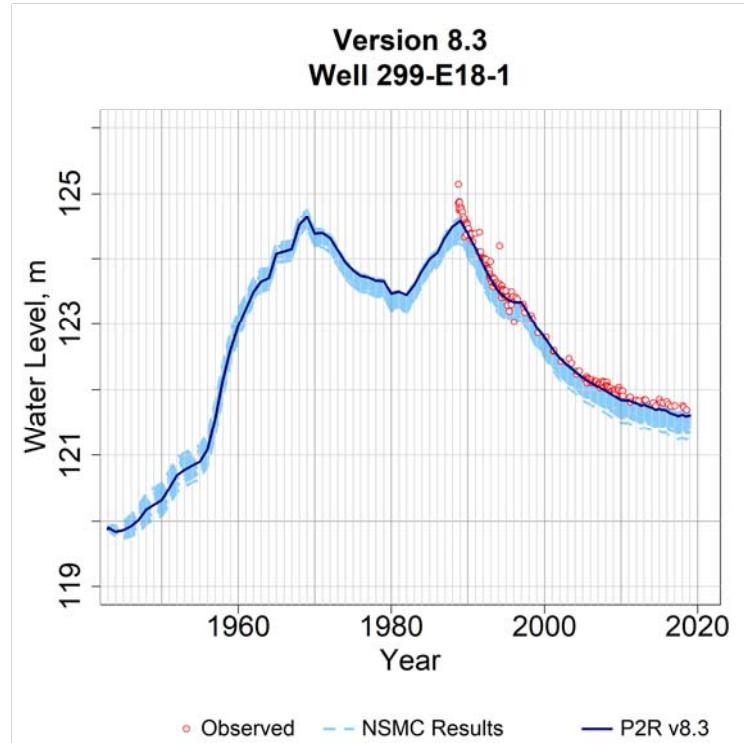


Figure B-109. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E18-1 for the calibrated model and all model variants from the NSMC.

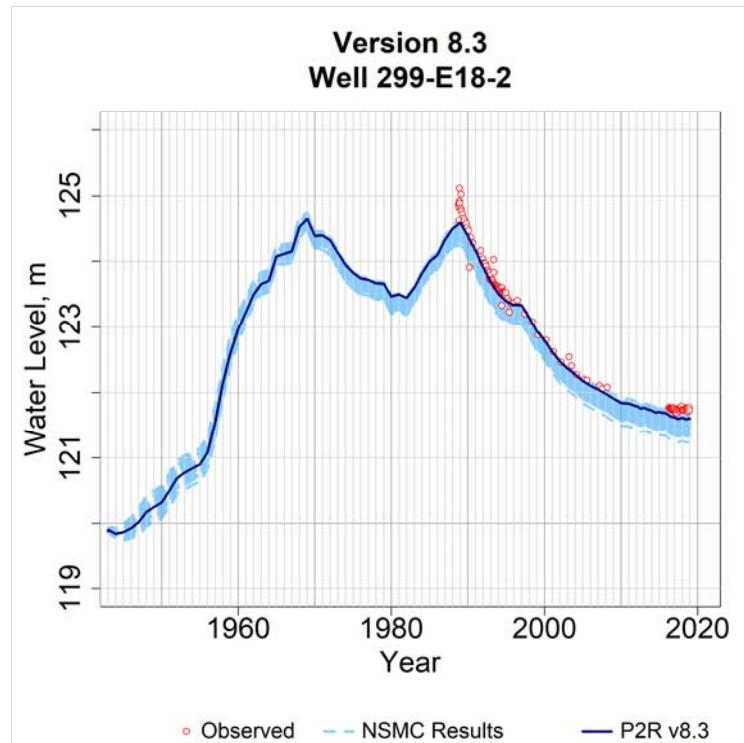


Figure B-110. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E18-2 for the calibrated model and all model variants from the NSMC.

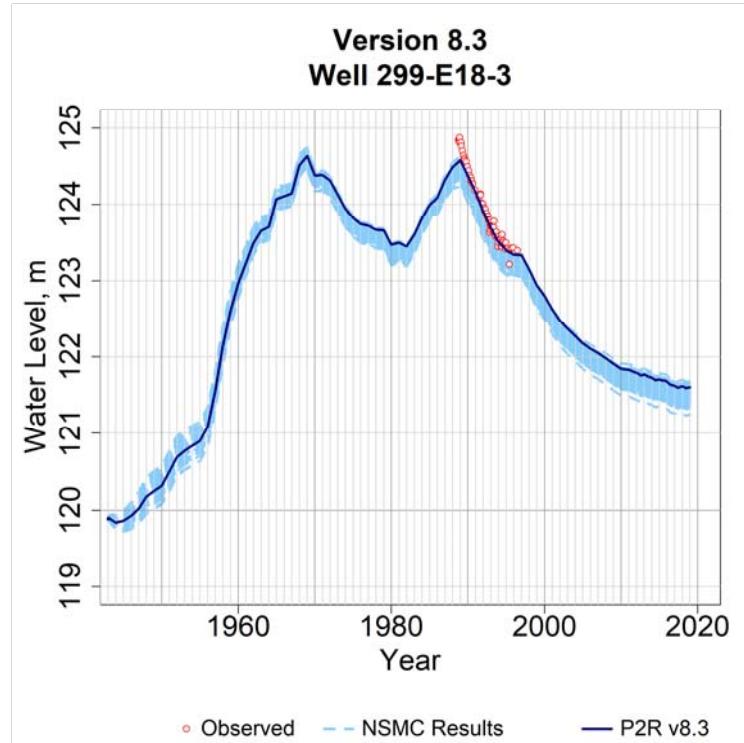


Figure B-111. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E18-3 for the calibrated model and all model variants from the NSMC.

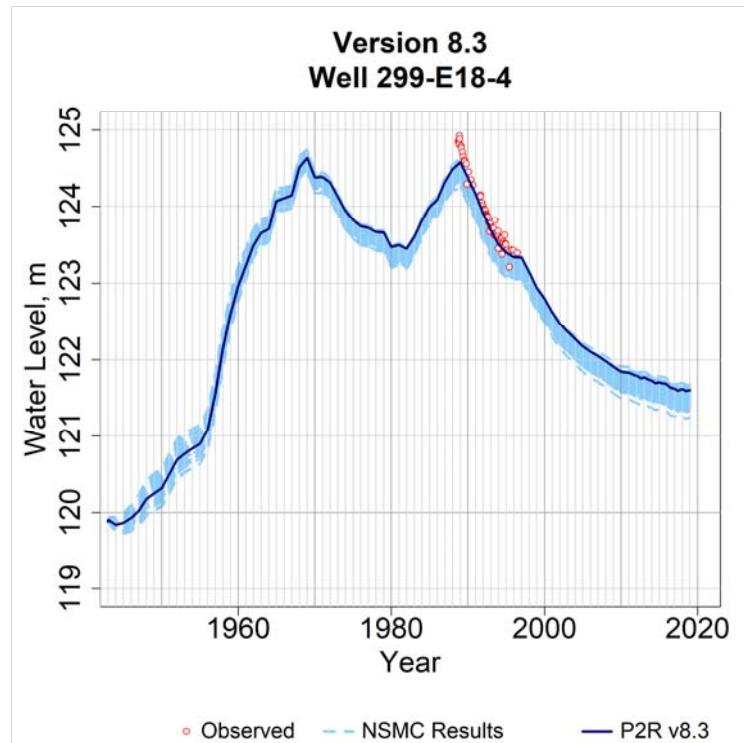


Figure B-112. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E18-4 for the calibrated model and all model variants from the NSMC.

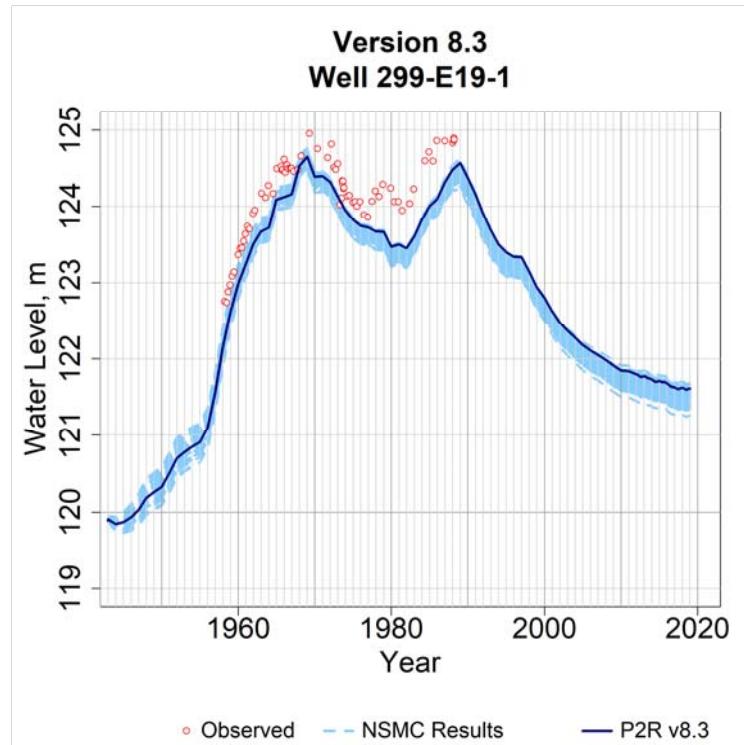


Figure B-113. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E19-1 for the calibrated model and all model variants from the NSMC.

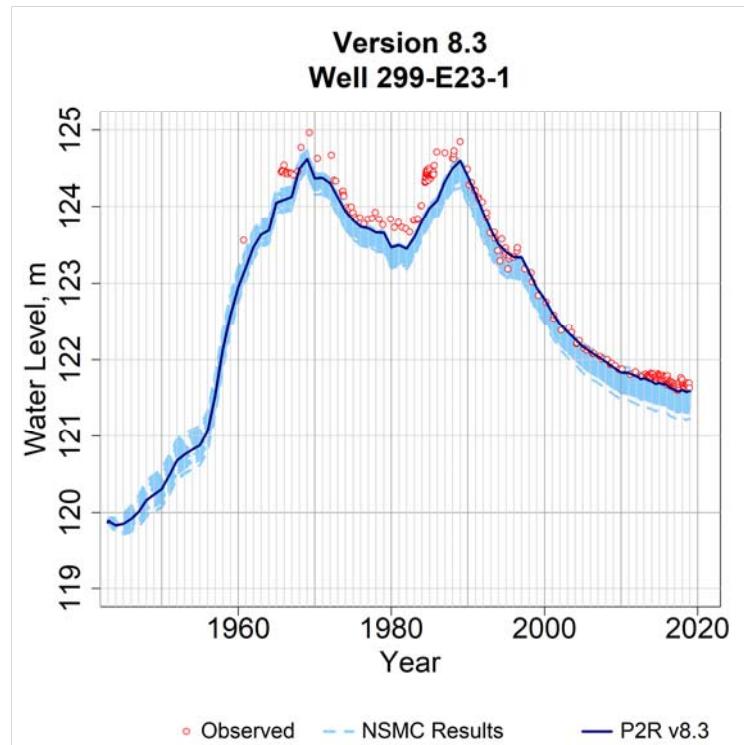


Figure B-114. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E23-1 for the calibrated model and all model variants from the NSMC.

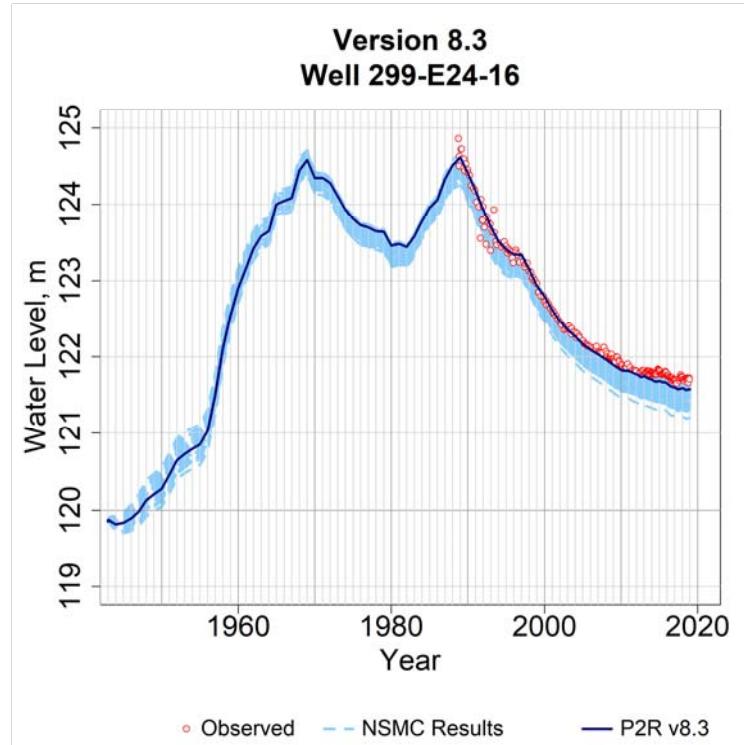


Figure B-115. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-16 for the calibrated model and all model variants from the NSMC.

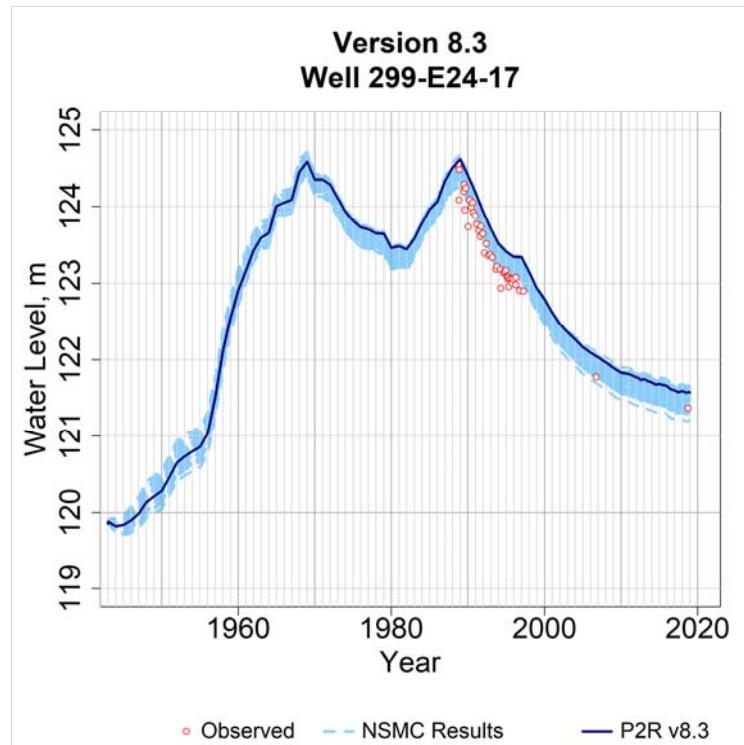


Figure B-116. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-17 for the calibrated model and all model variants from the NSMC.

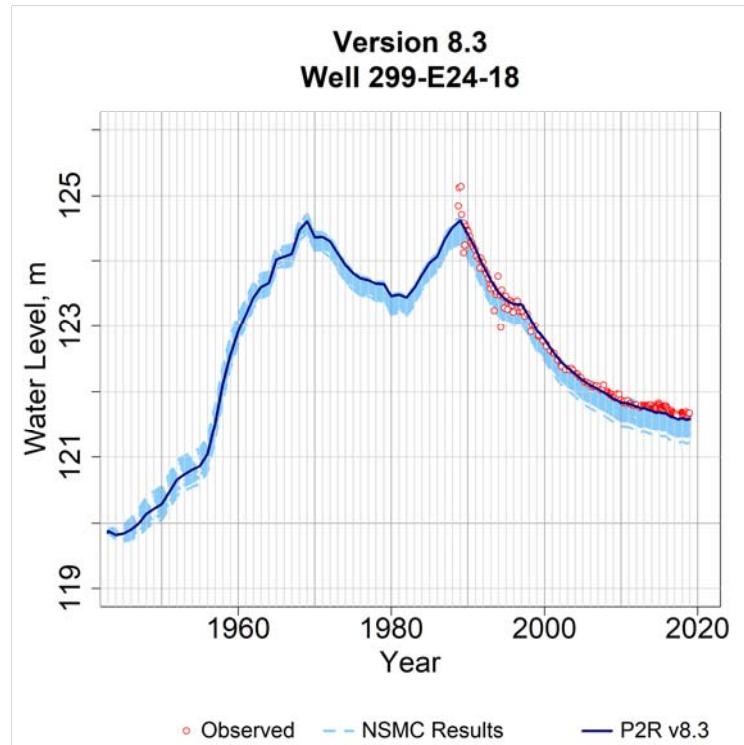


Figure B-117. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-18 for the calibrated model and all model variants from the NSMC.

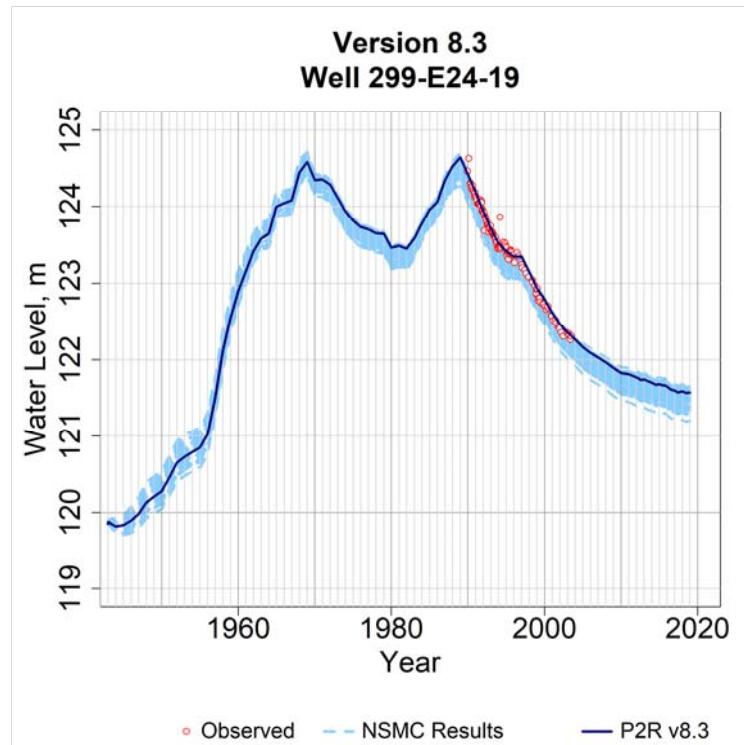


Figure B-118. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-19 for the calibrated model and all model variants from the NSMC.

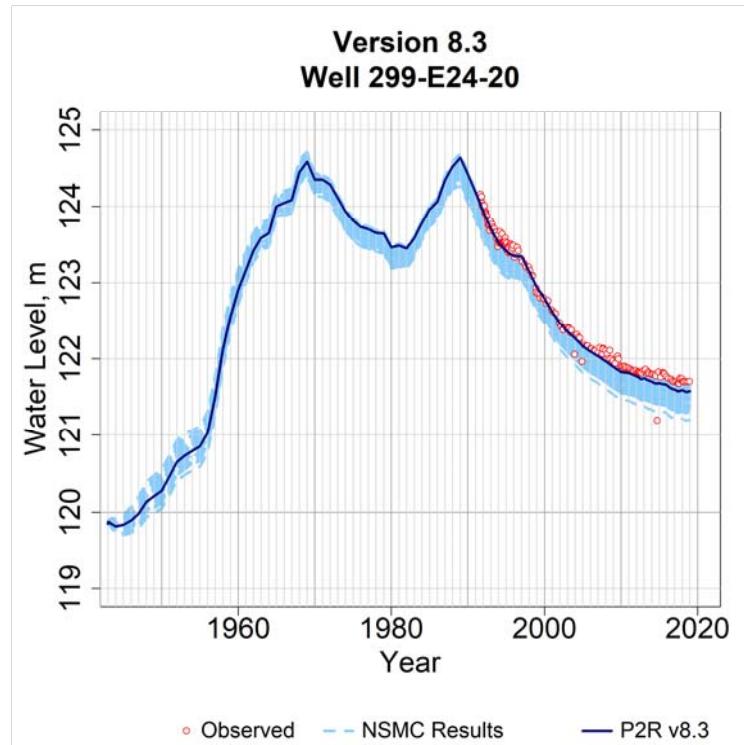


Figure B-119. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-20 for the calibrated model and all model variants from the NSMC.

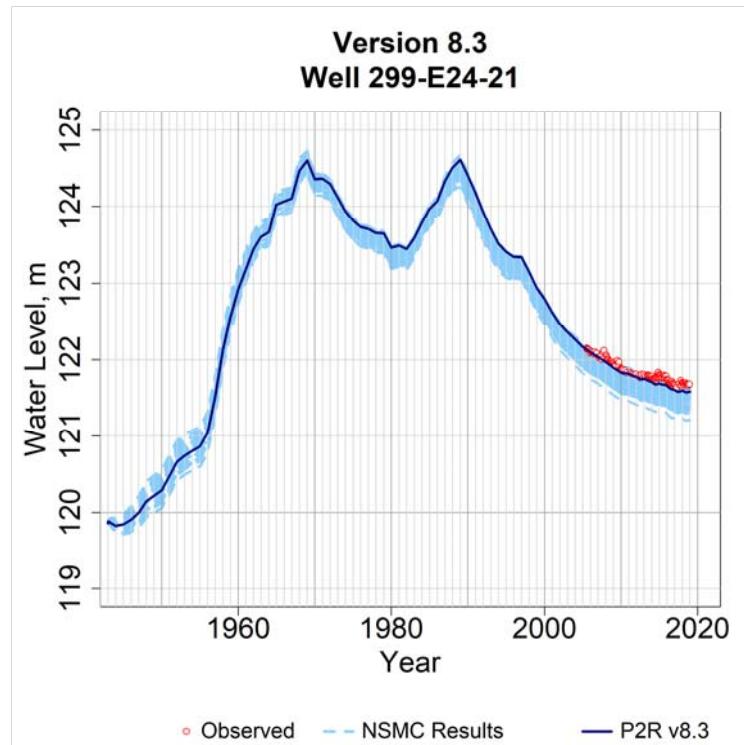


Figure B-120. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-21 for the calibrated model and all model variants from the NSMC.

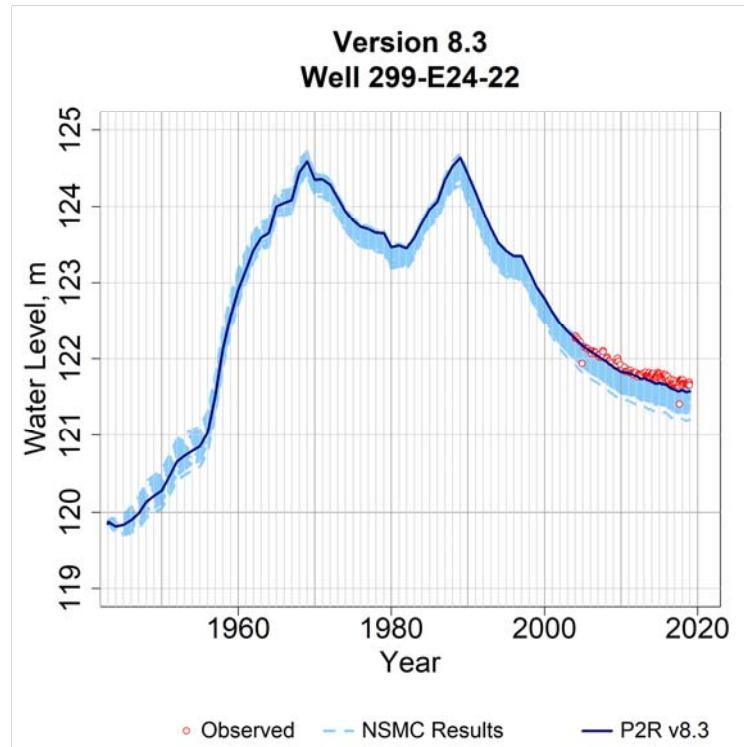


Figure B-121. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-22 for the calibrated model and all model variants from the NSMC.

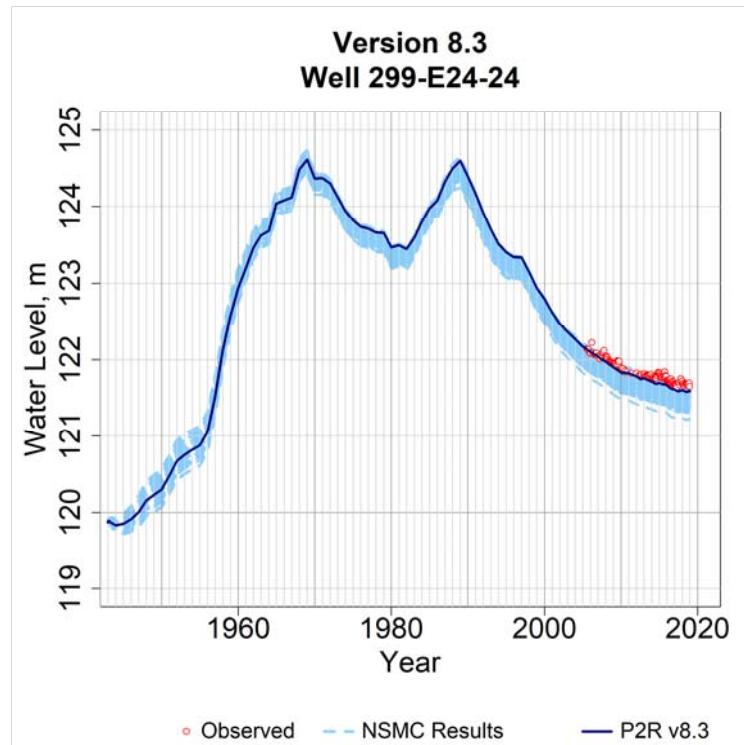


Figure B-122. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-24 for the calibrated model and all model variants from the NSMC.

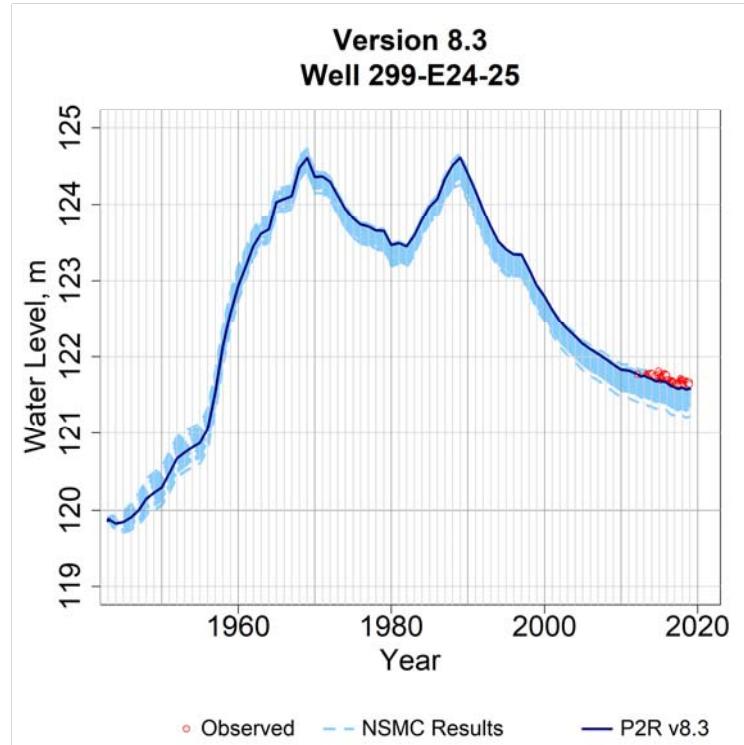


Figure B-123. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-25 for the calibrated model and all model variants from the NSMC.

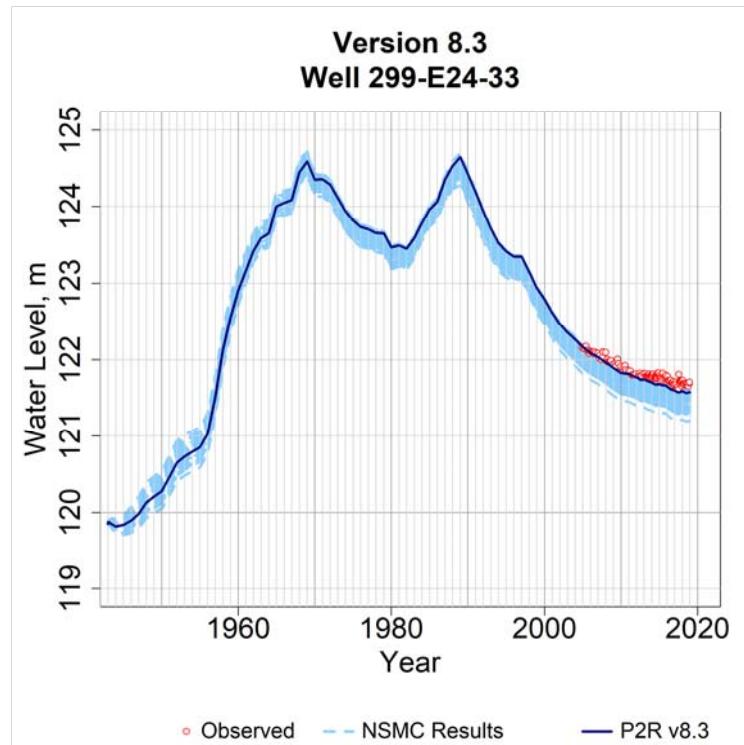


Figure B-124. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-33 for the calibrated model and all model variants from the NSMC.

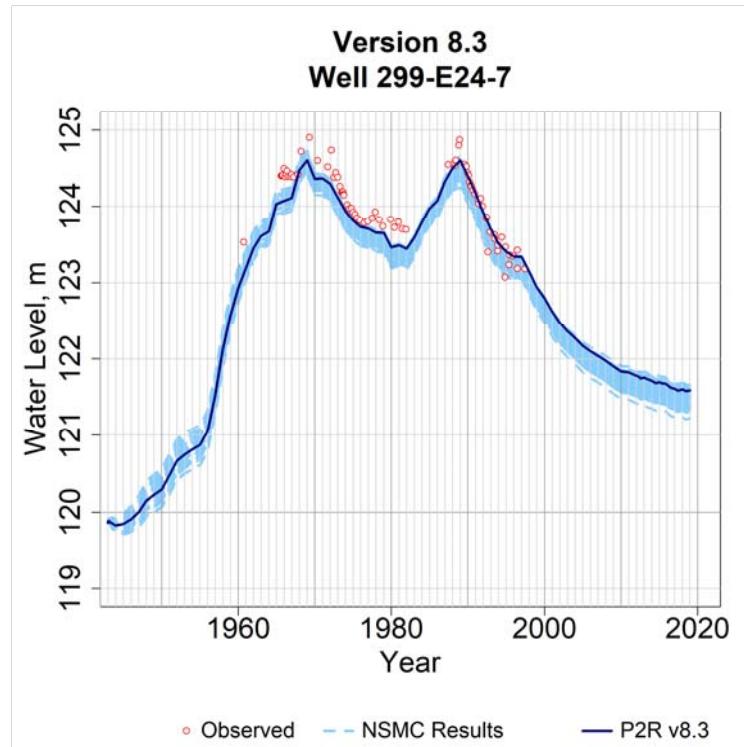


Figure B-125. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E24-7 for the calibrated model and all model variants from the NSMC.

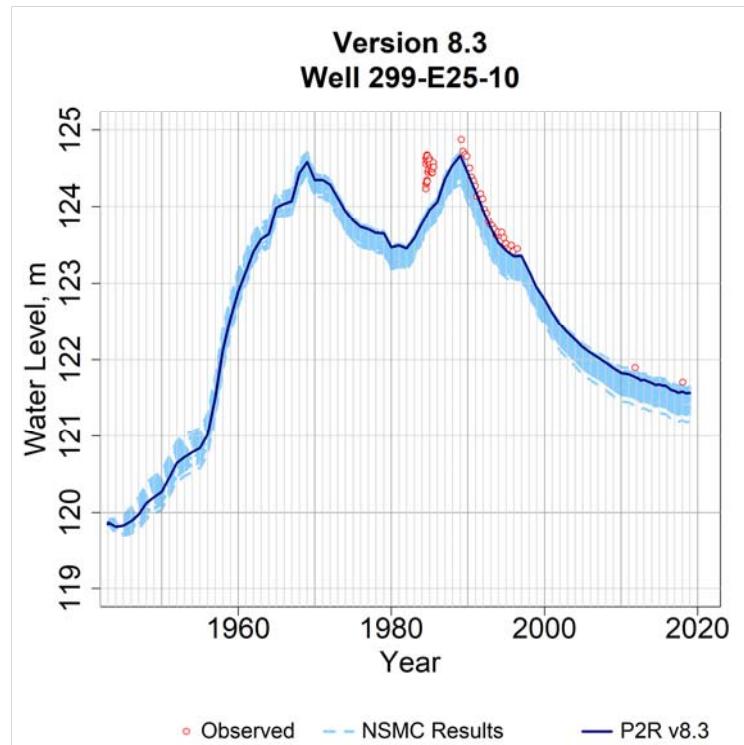


Figure B-126. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-10 for the calibrated model and all model variants from the NSMC.

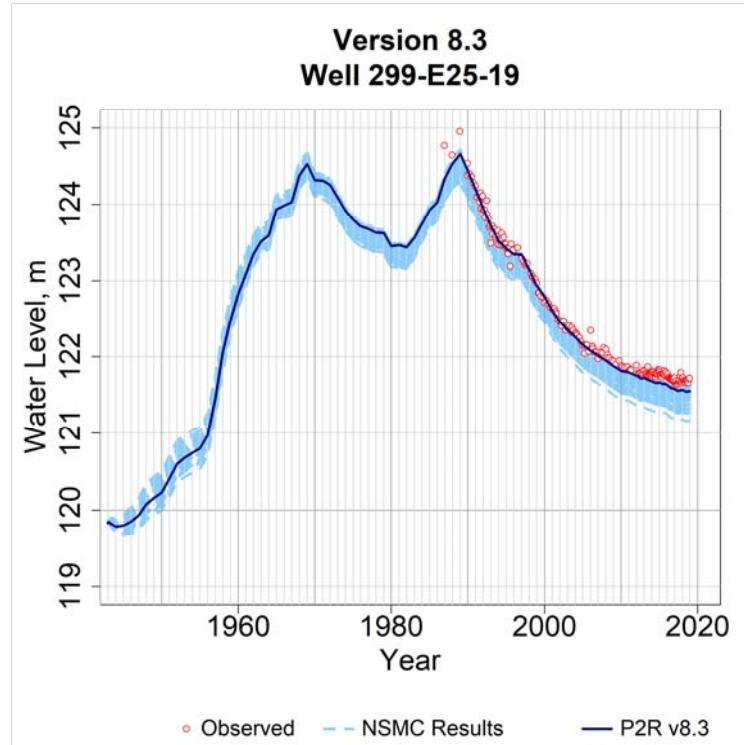


Figure B-127. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-19 for the calibrated model and all model variants from the NSMC.

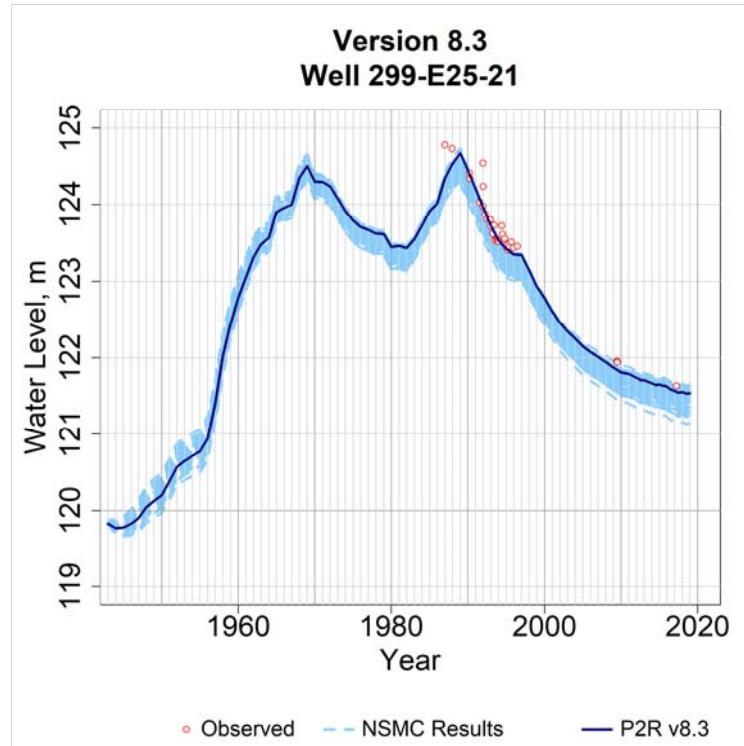


Figure B-128. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-21 for the calibrated model and all model variants from the NSMC.

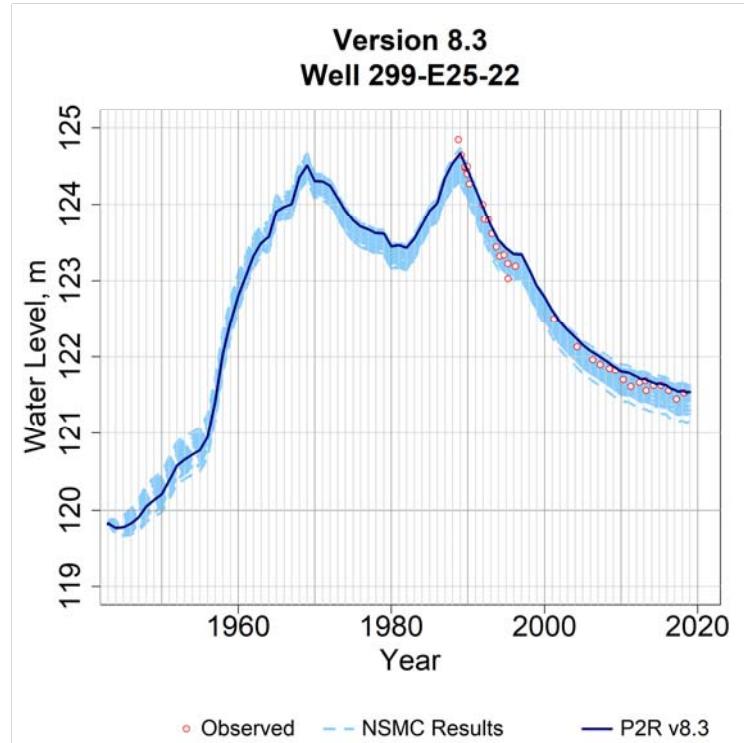


Figure B-129. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-22 for the calibrated model and all model variants from the NSMC.

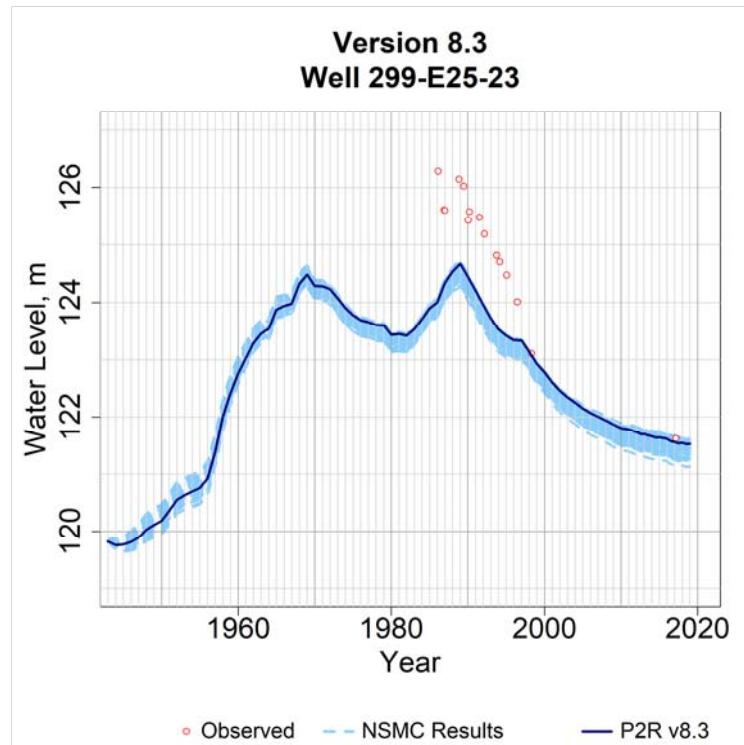


Figure B-130. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-23 for the calibrated model and all model variants from the NSMC.

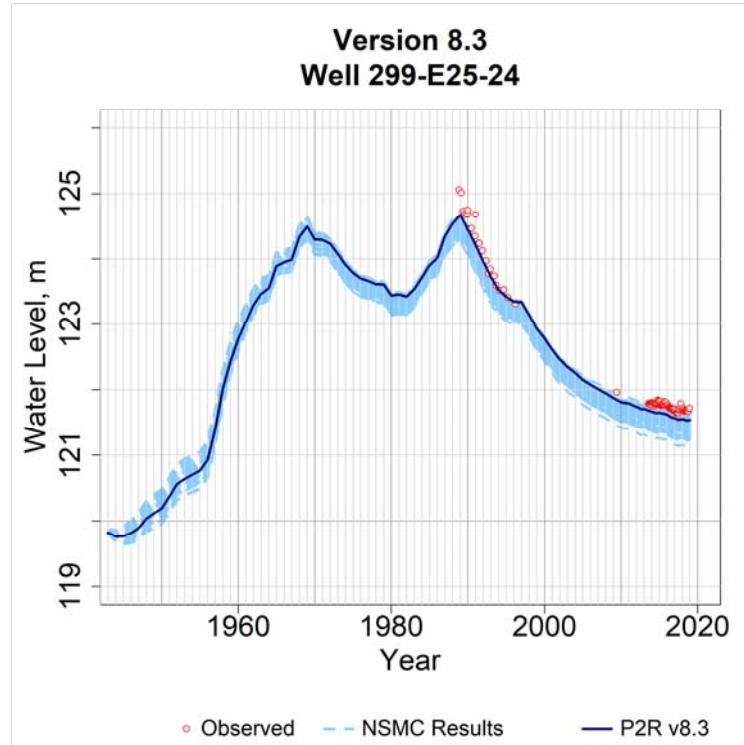


Figure B-131. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-24 for the calibrated model and all model variants from the NSMC.

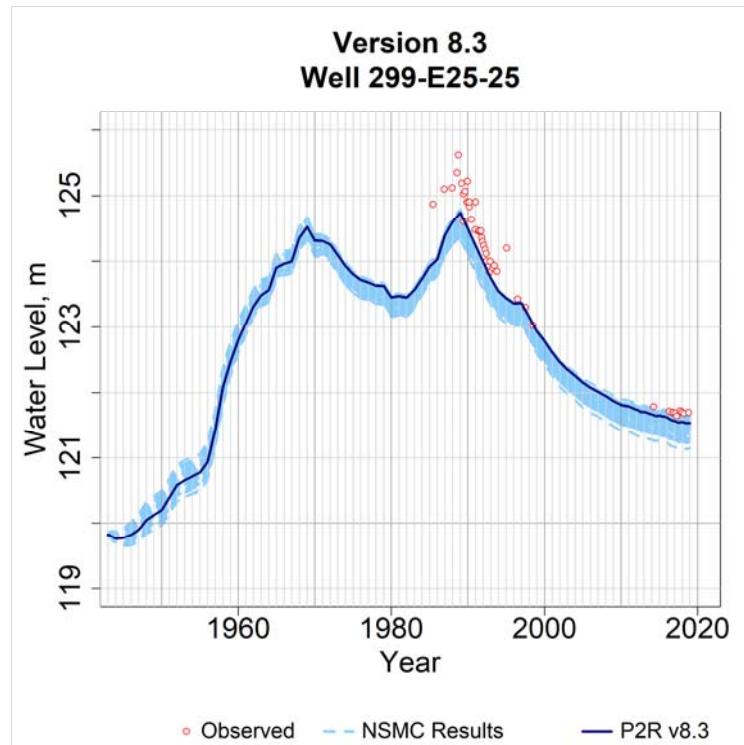


Figure B-132. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-25 for the calibrated model and all model variants from the NSMC.

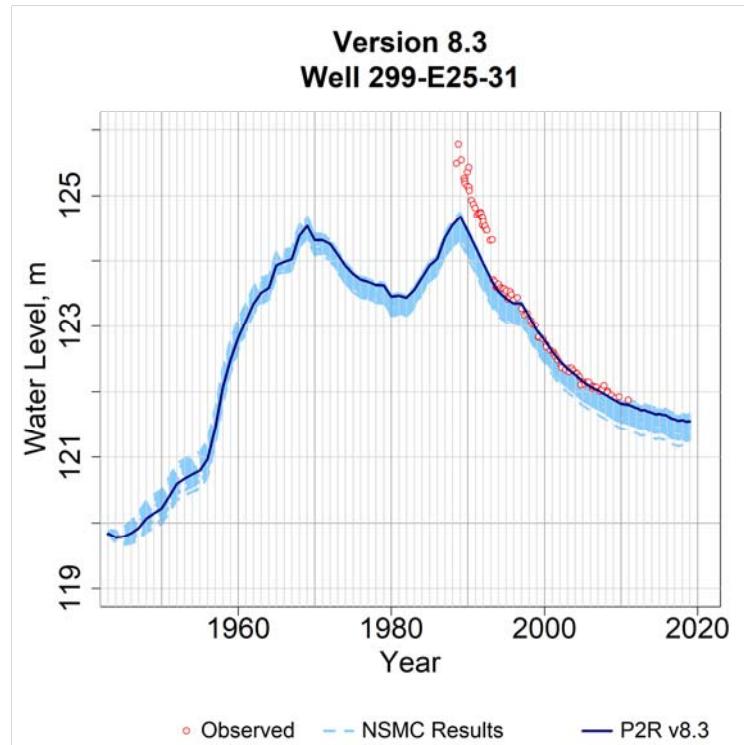


Figure B-133. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-31 for the calibrated model and all model variants from the NSMC.

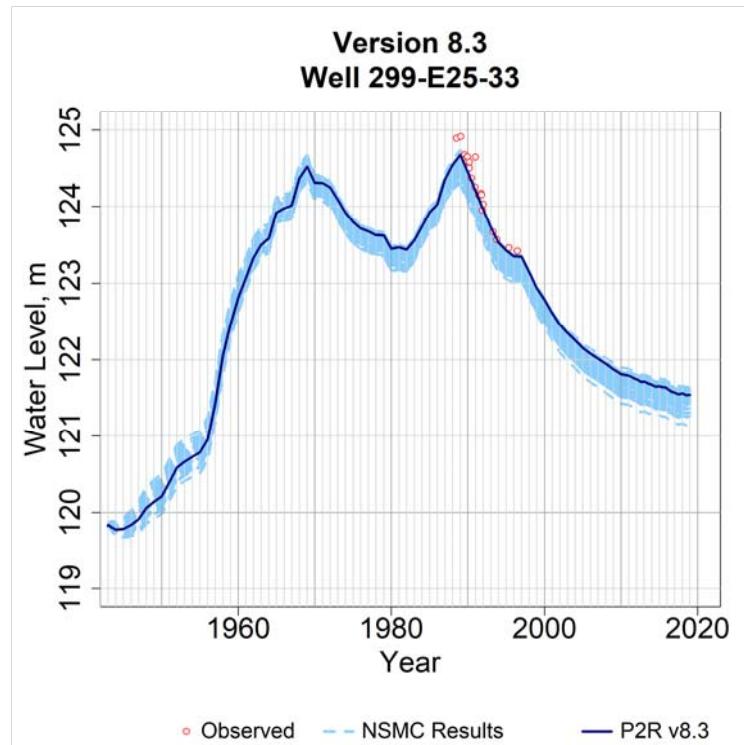


Figure B-134. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-33 for the calibrated model and all model variants from the NSMC.

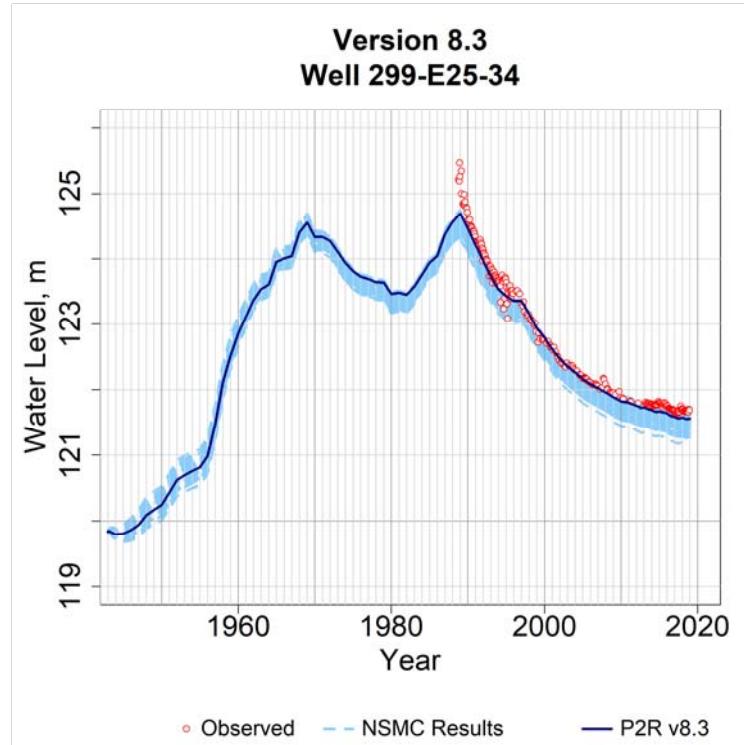


Figure B-135. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-34 for the calibrated model and all model variants from the NSMC.

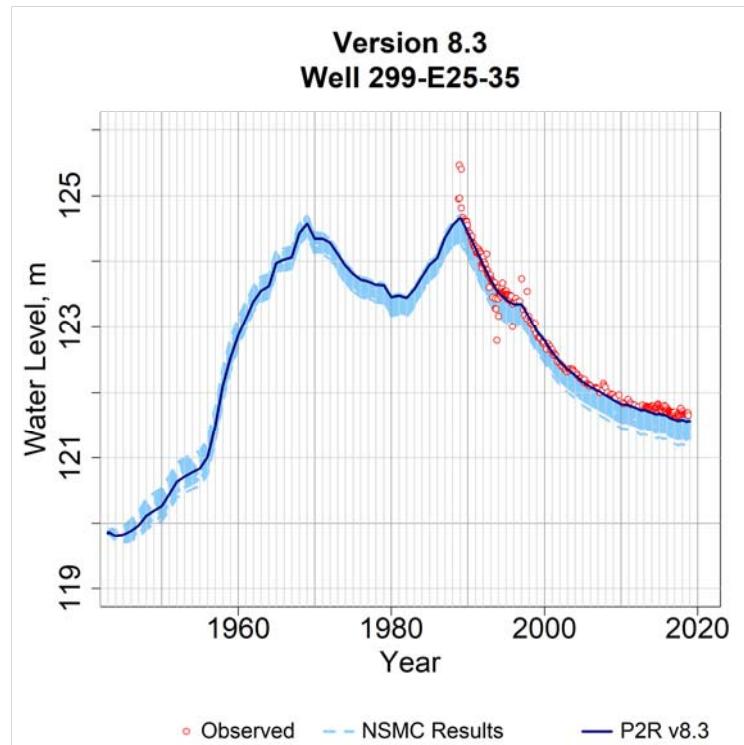


Figure B-136. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-35 for the calibrated model and all model variants from the NSMC.

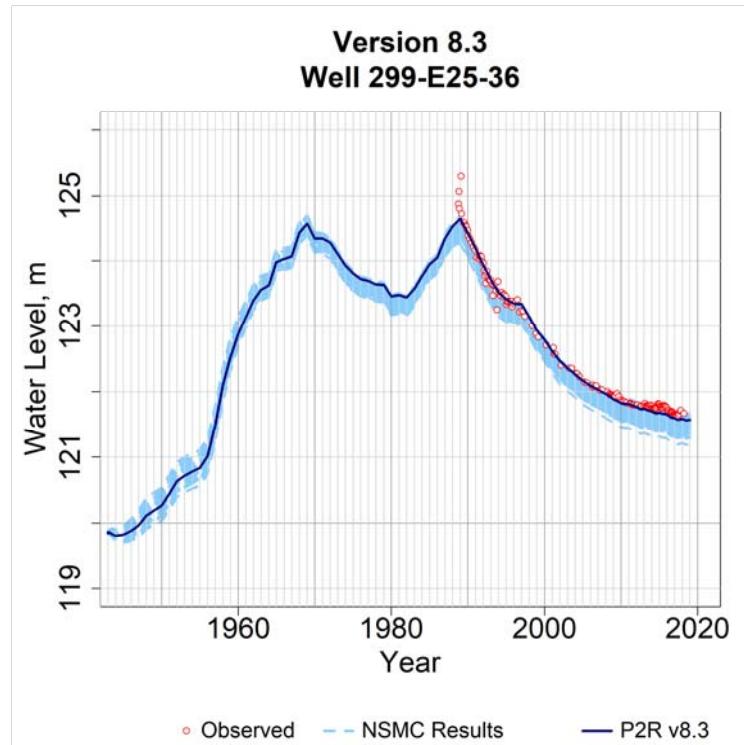


Figure B-137. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-36 for the calibrated model and all model variants from the NSMC.

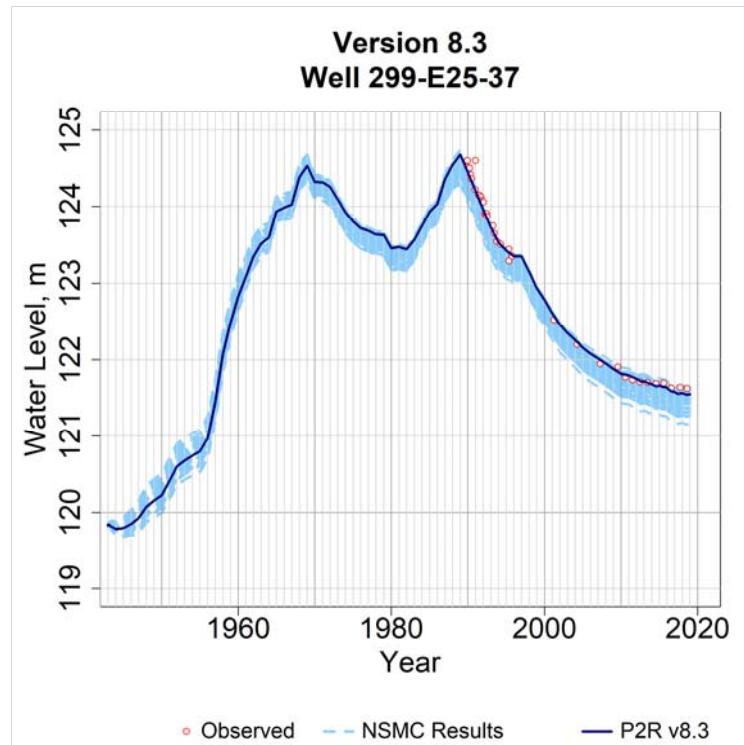


Figure B-138. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-37 for the calibrated model and all model variants from the NSMC.

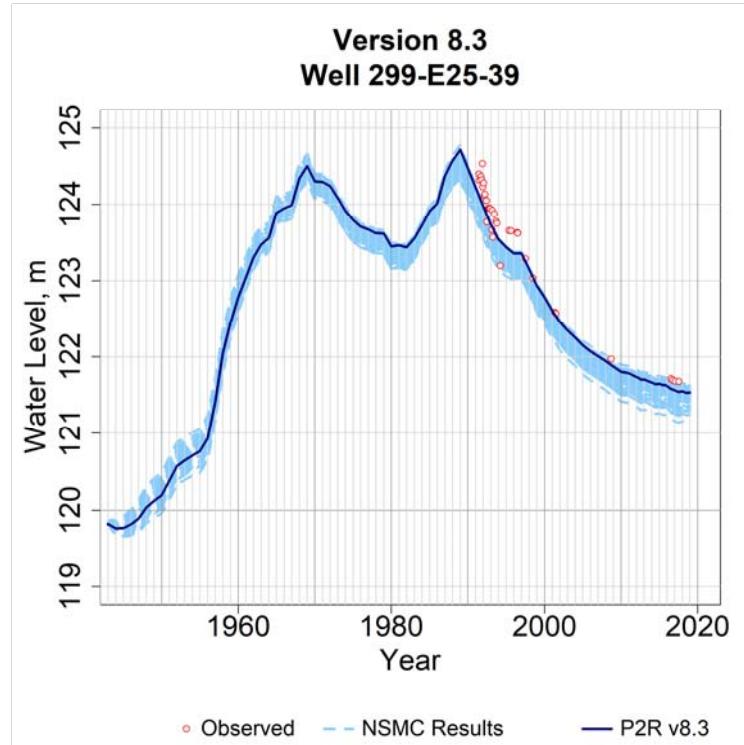


Figure B-139. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-39 for the calibrated model and all model variants from the NSMC.

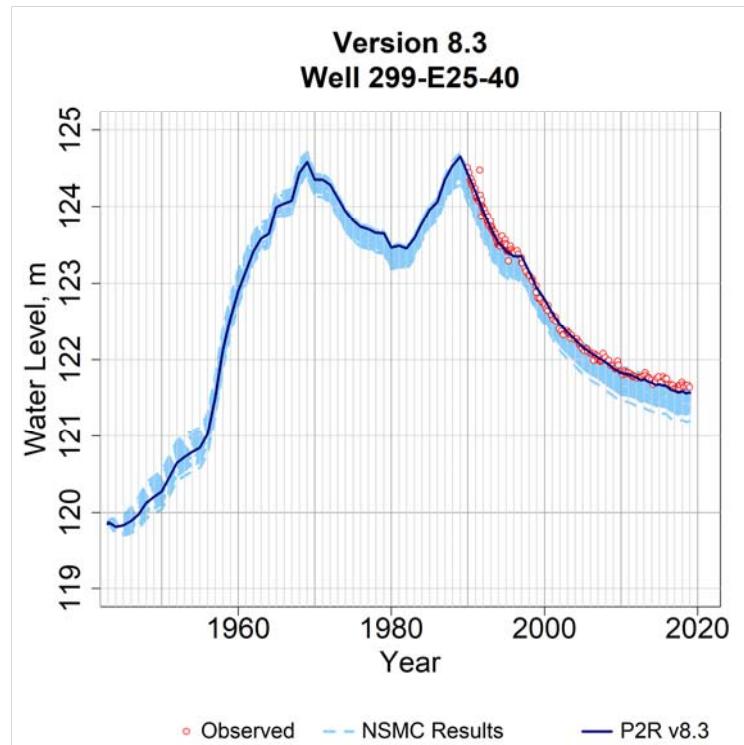


Figure B-140. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-40 for the calibrated model and all model variants from the NSMC.

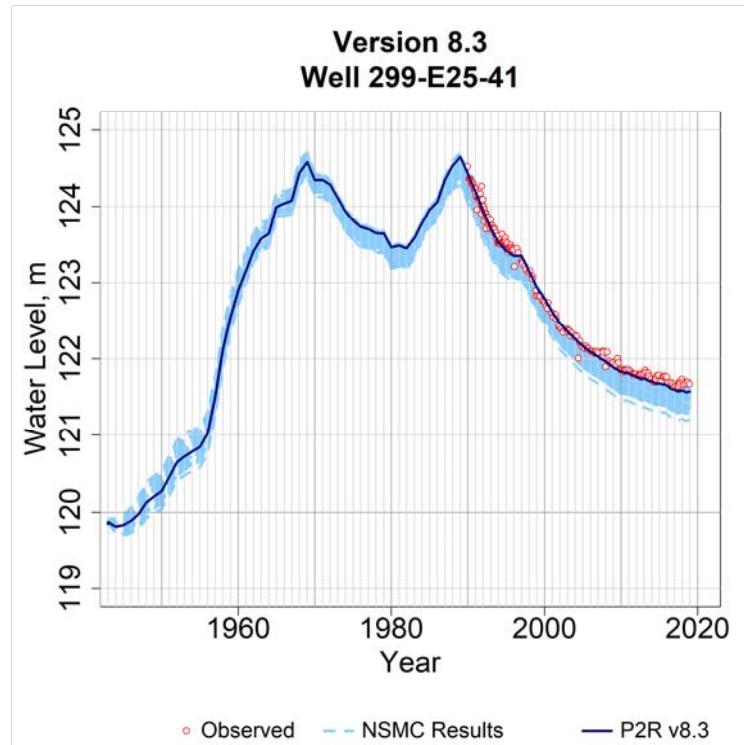


Figure B-141. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-41 for the calibrated model and all model variants from the NSMC.

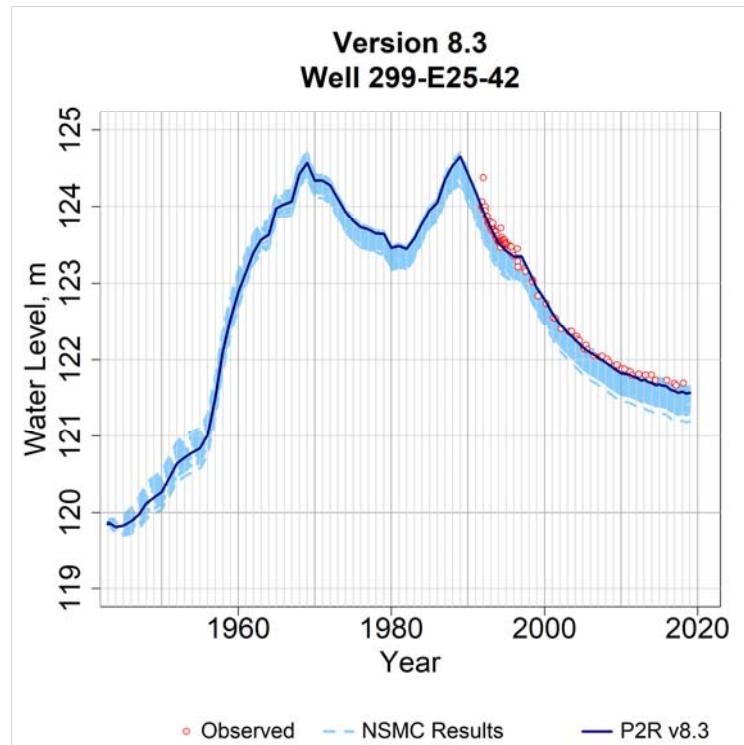


Figure B-142. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-42 for the calibrated model and all model variants from the NSMC.

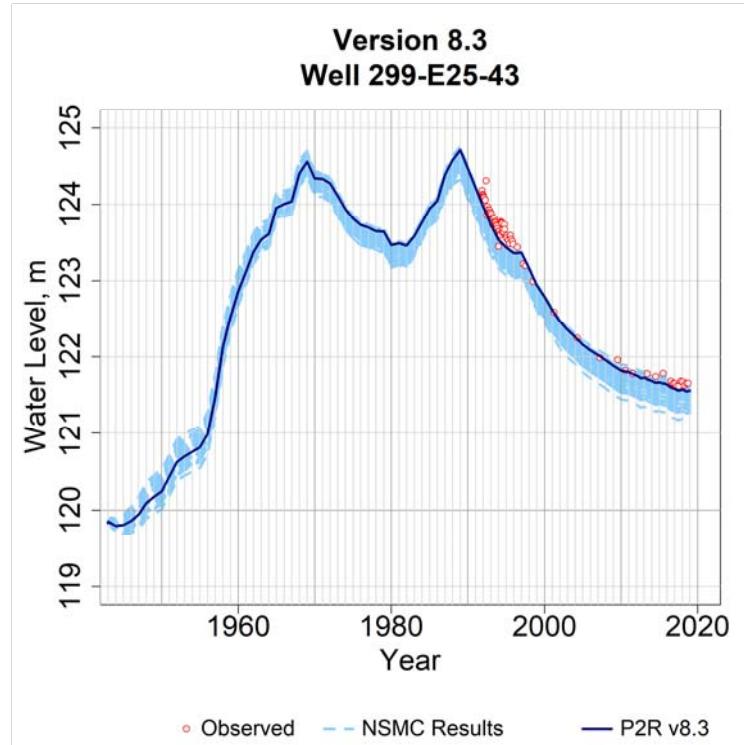


Figure B-143. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-43 for the calibrated model and all model variants from the NSMC.

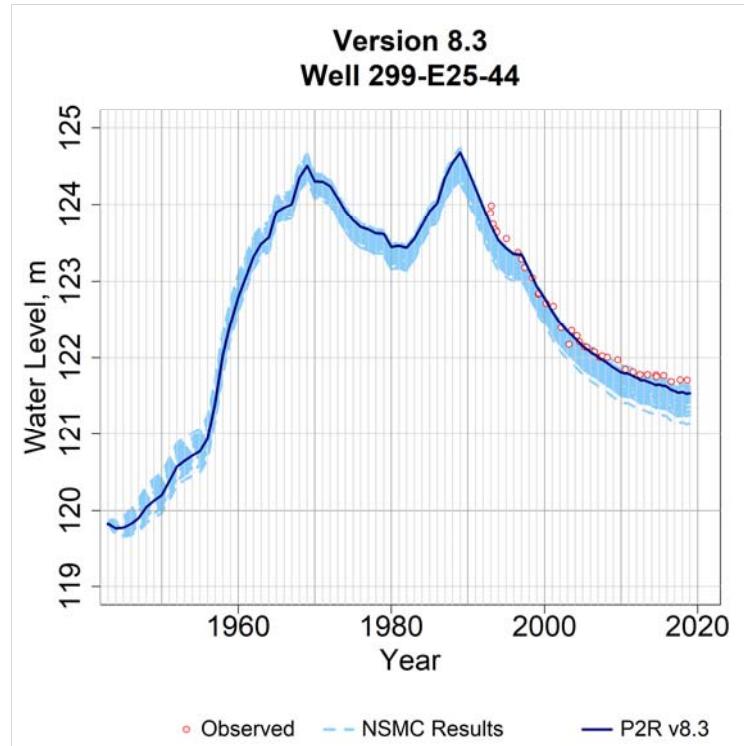


Figure B-144. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-44 for the calibrated model and all model variants from the NSMC.

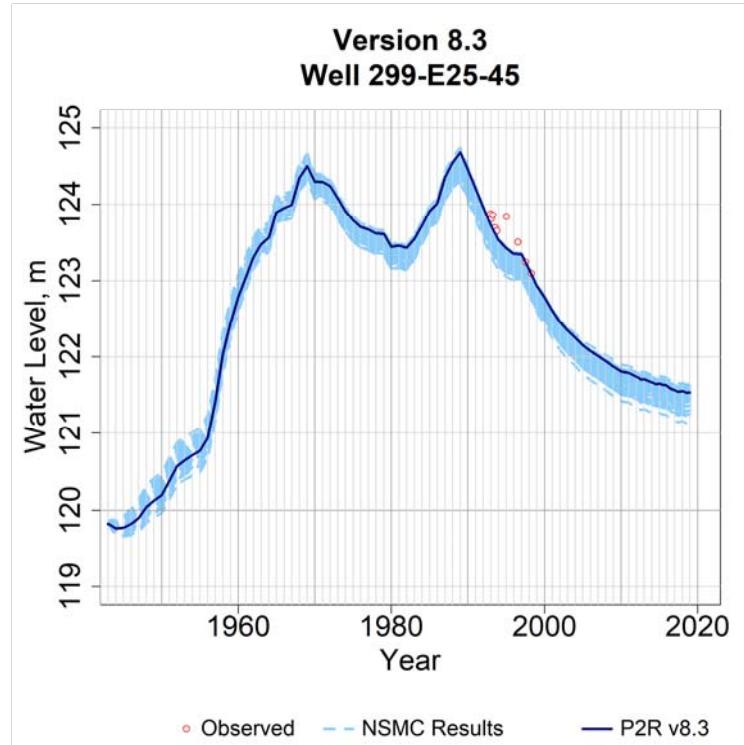


Figure B-145. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-45 for the calibrated model and all model variants from the NSMC.

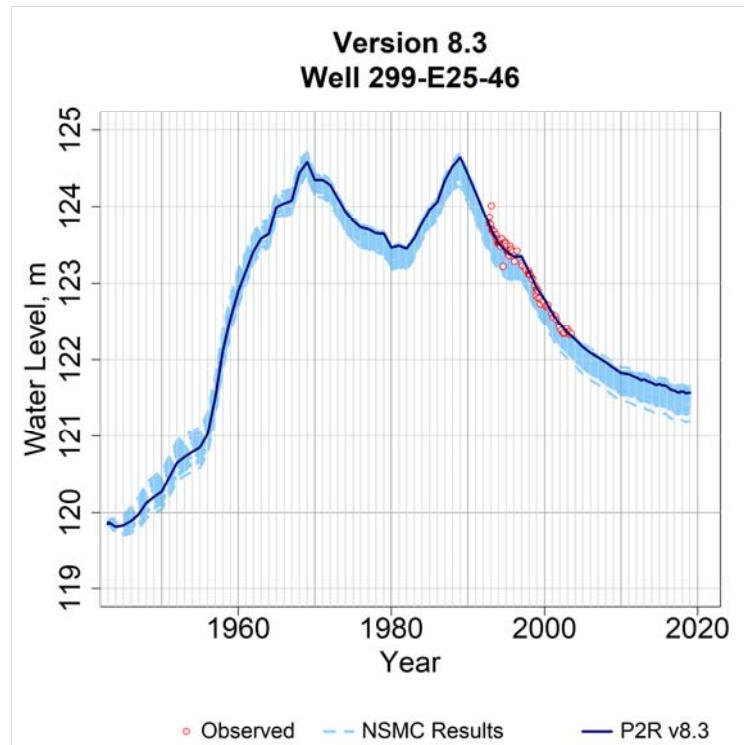


Figure B-146. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-46 for the calibrated model and all model variants from the NSMC.

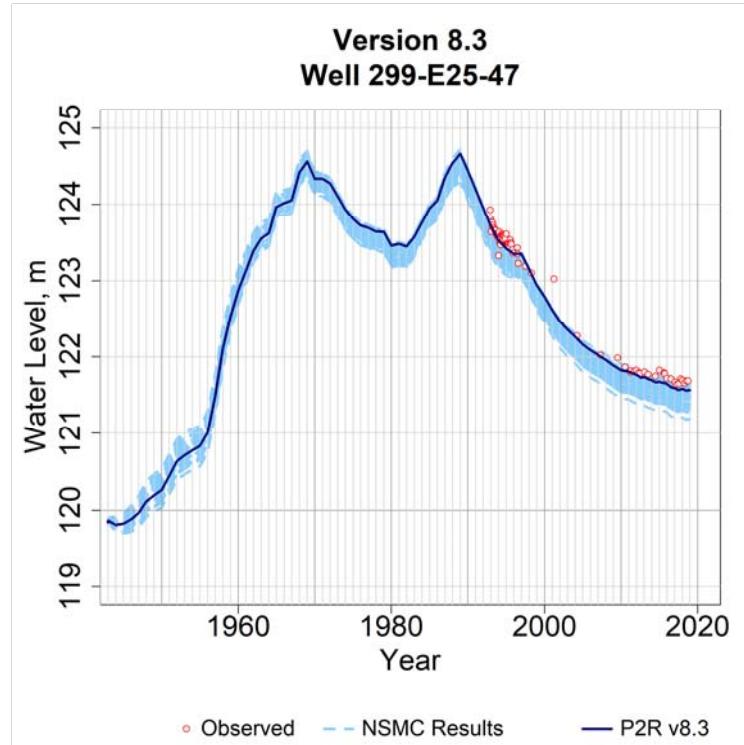


Figure B-147. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-47 for the calibrated model and all model variants from the NSMC.

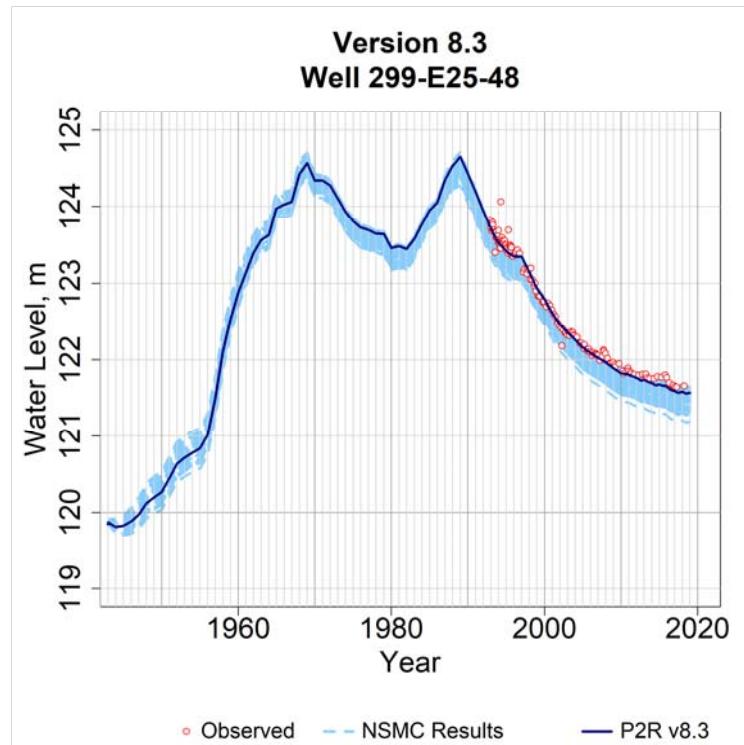


Figure B-148. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-48 for the calibrated model and all model variants from the NSMC.

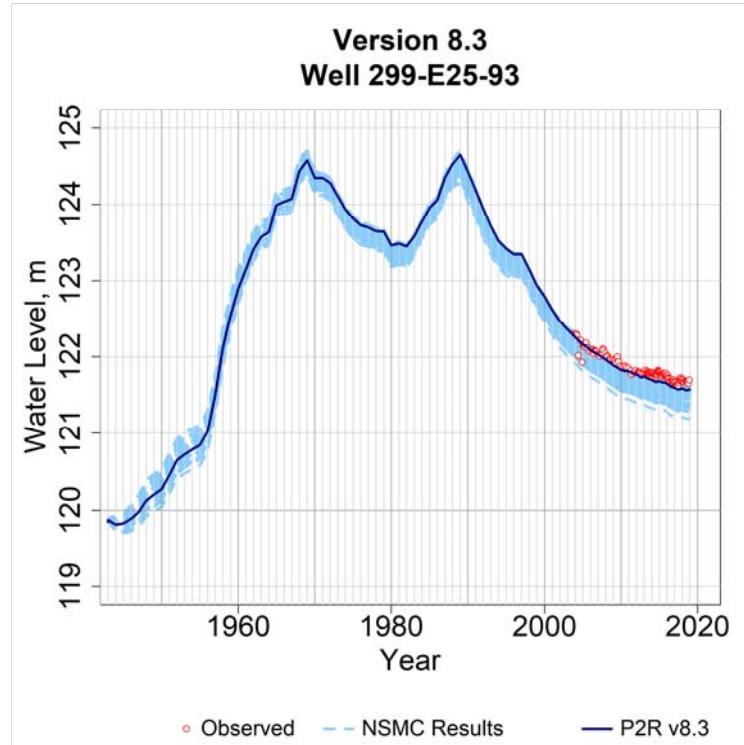


Figure B-149. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E25-93 for the calibrated model and all model variants from the NSMC.

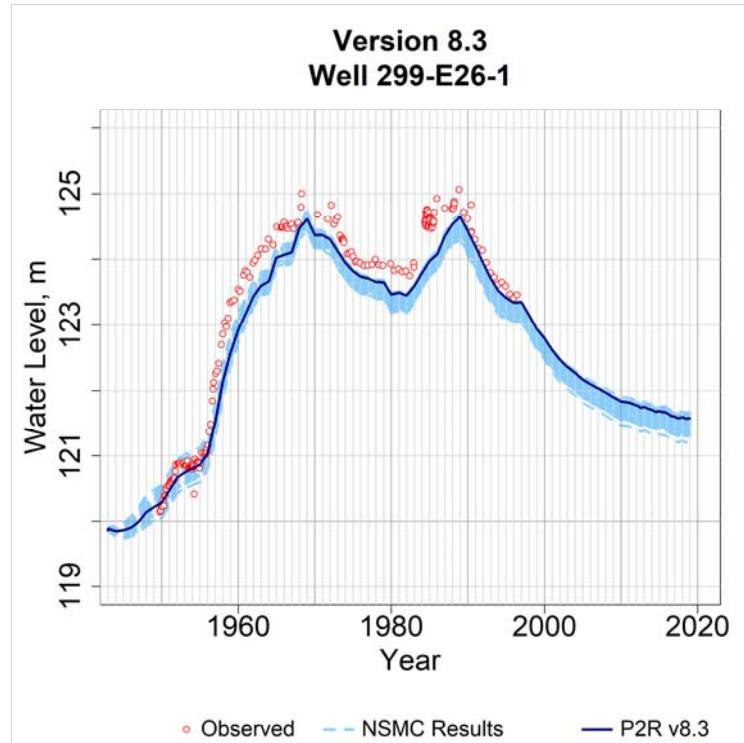


Figure B-150. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-1 for the calibrated model and all model variants from the NSMC.

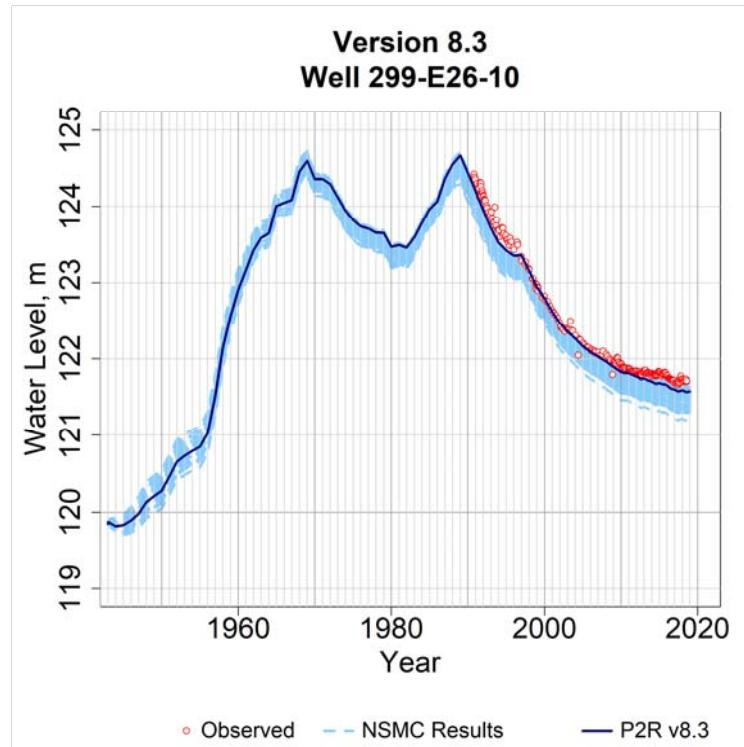


Figure B-151. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-10 for the calibrated model and all model variants from the NSMC.

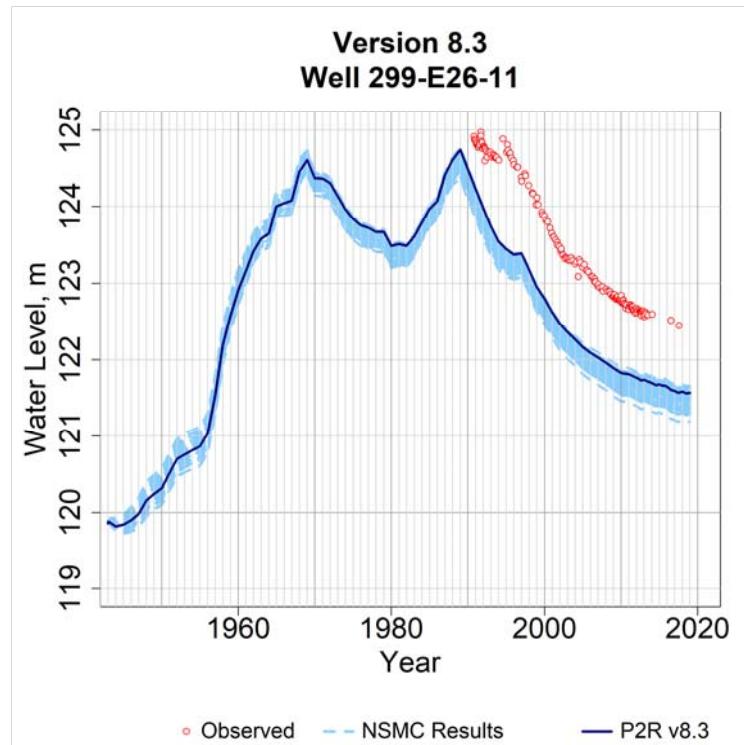


Figure B-152. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-11 for the calibrated model and all model variants from the NSMC.

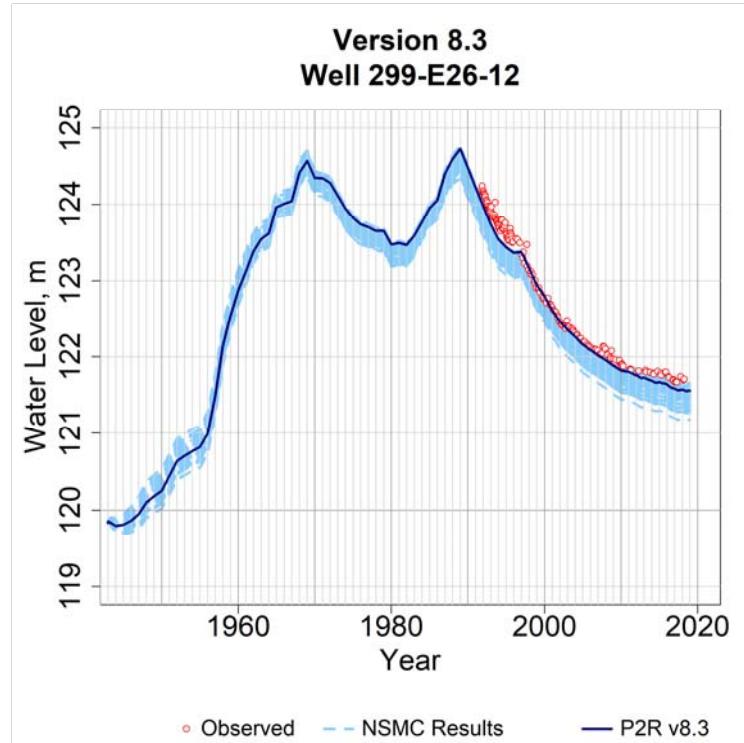


Figure B-153. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-12 for the calibrated model and all model variants from the NSMC.

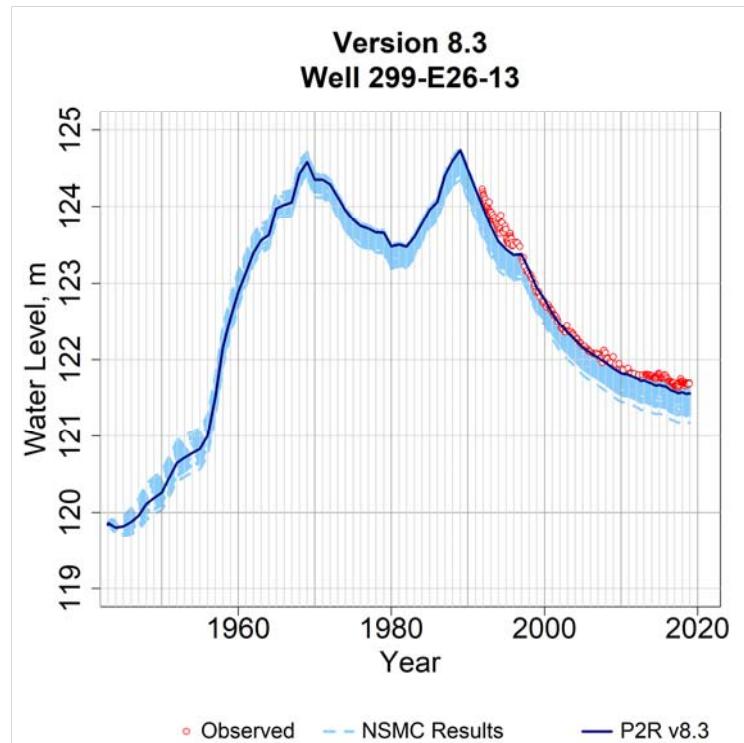


Figure B-154. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-13 for the calibrated model and all model variants from the NSMC.

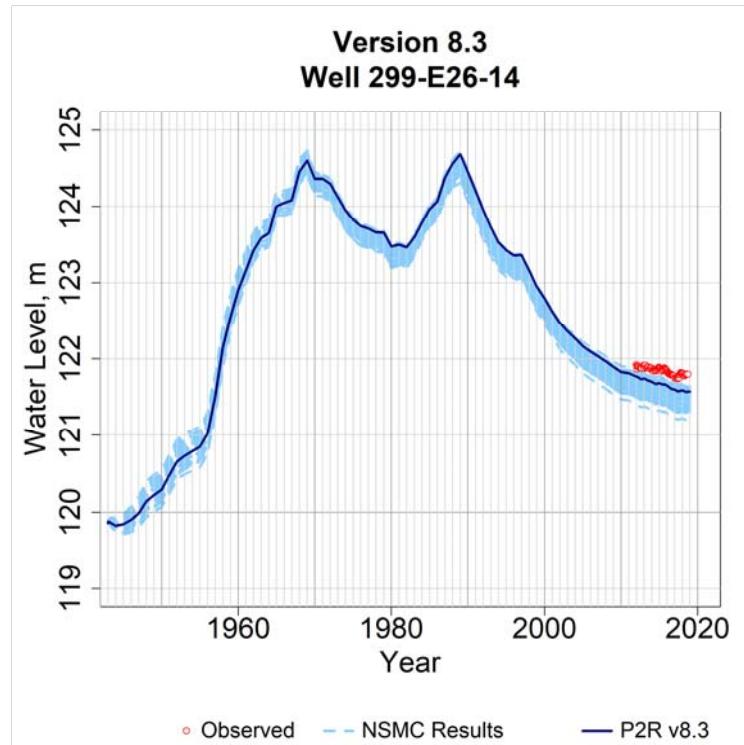


Figure B-155. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-14 for the calibrated model and all model variants from the NSMC.

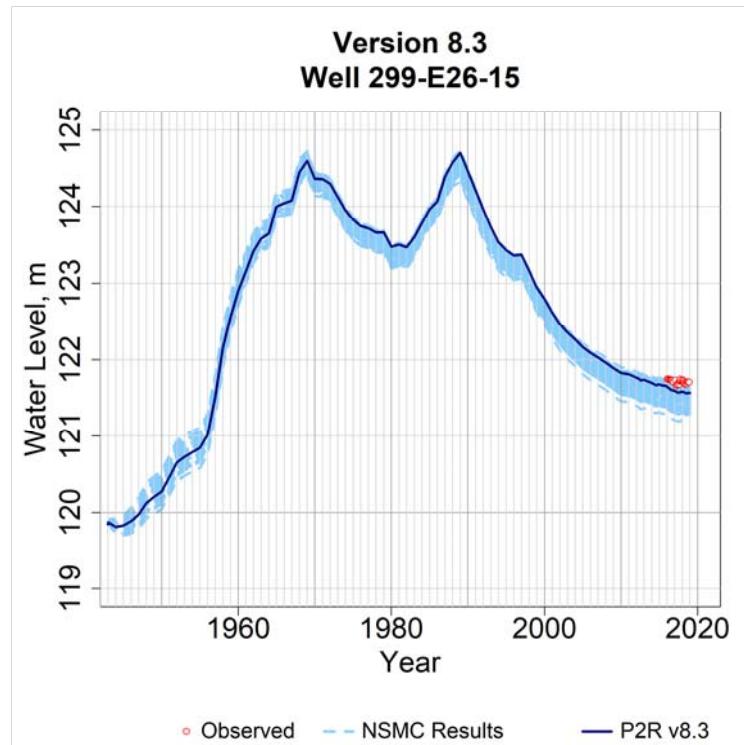


Figure B-156. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-15 for the calibrated model and all model variants from the NSMC.

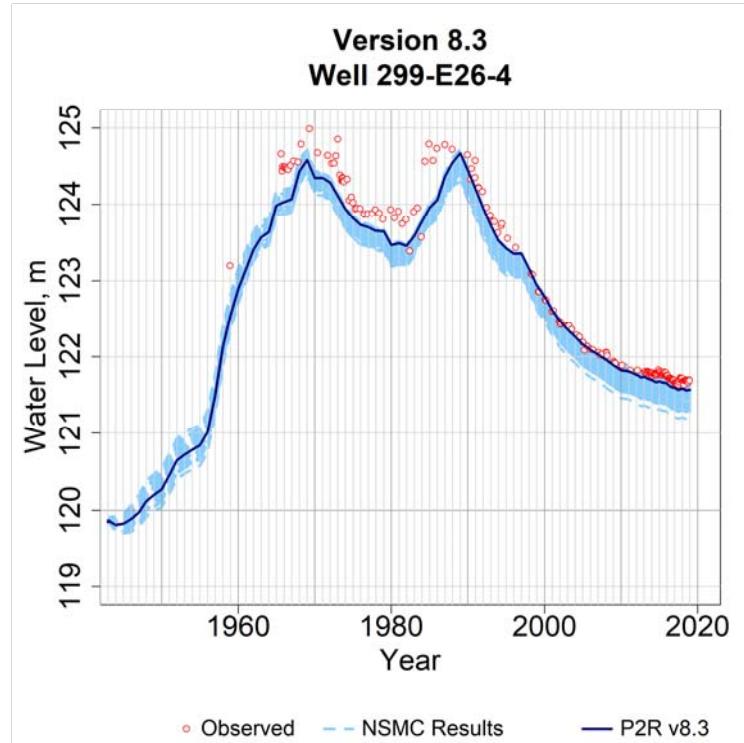


Figure B-157. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-4 for the calibrated model and all model variants from the NSMC.

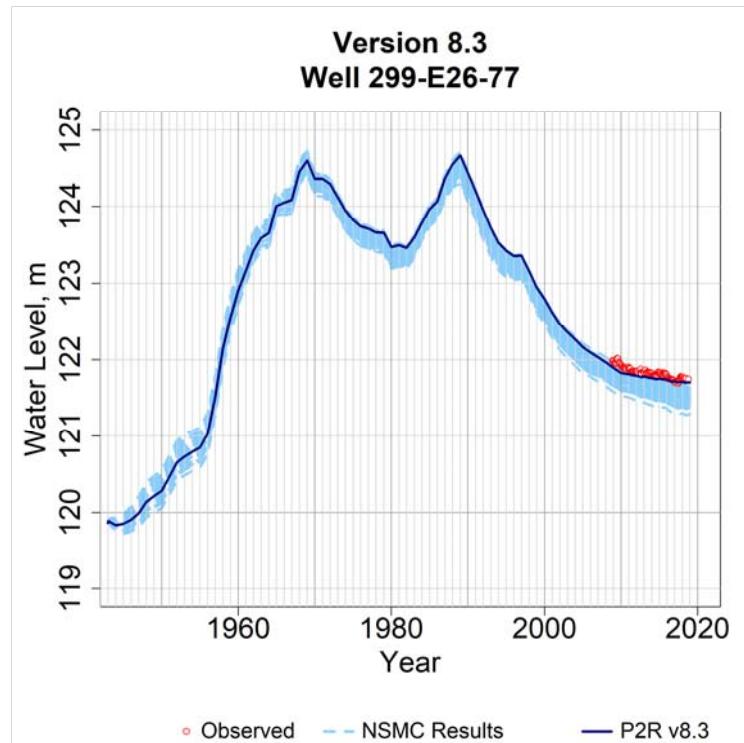


Figure B-158. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-77 for the calibrated model and all model variants from the NSMC.

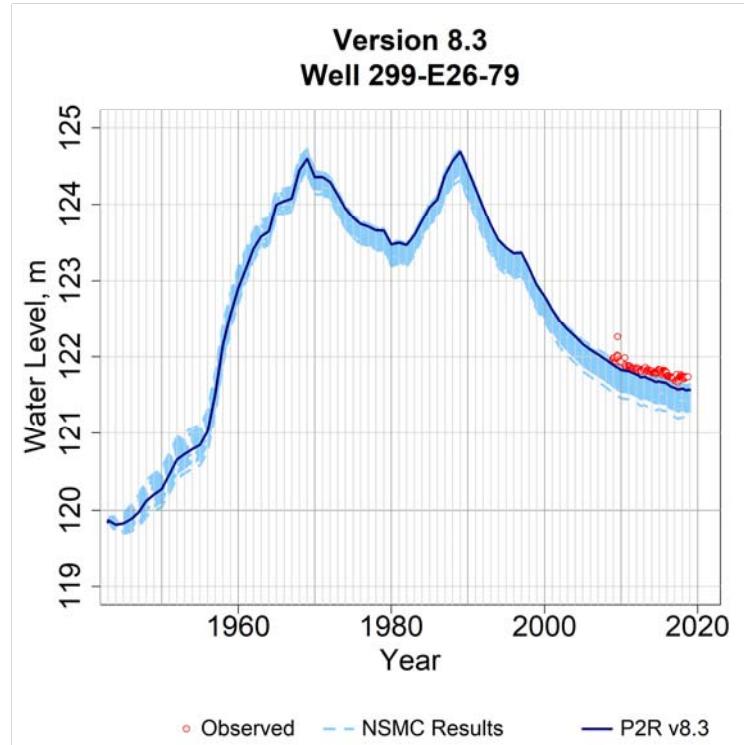


Figure B-159. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-79 for the calibrated model and all model variants from the NSMC.

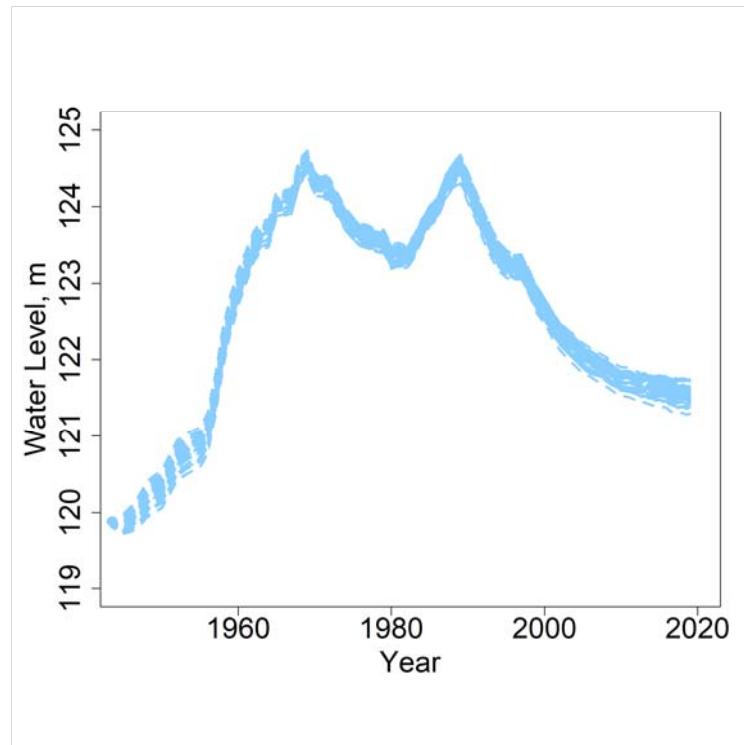


Figure B-160. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E26-9 for the calibrated model and all model variants from the NSMC.

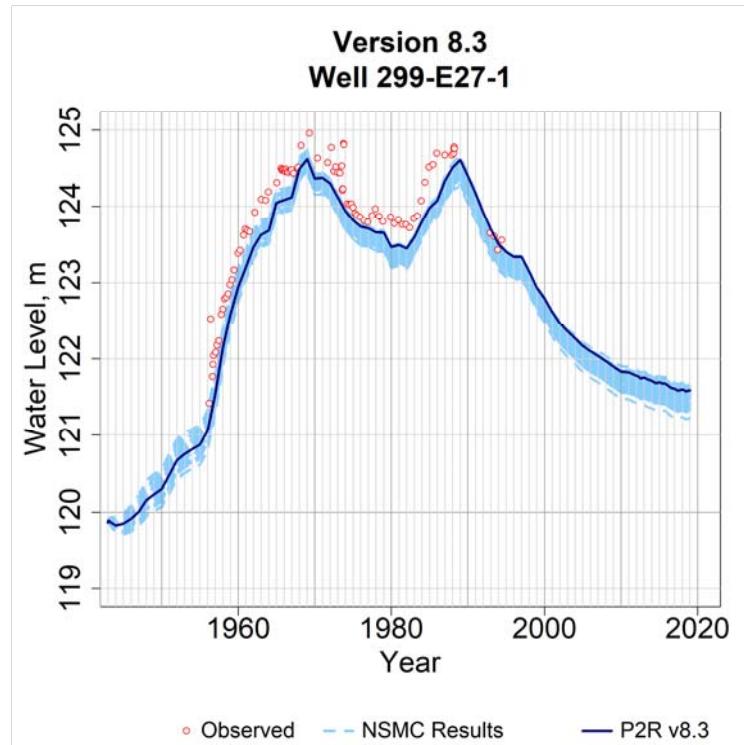


Figure B-161. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-1 for the calibrated model and all model variants from the NSMC.

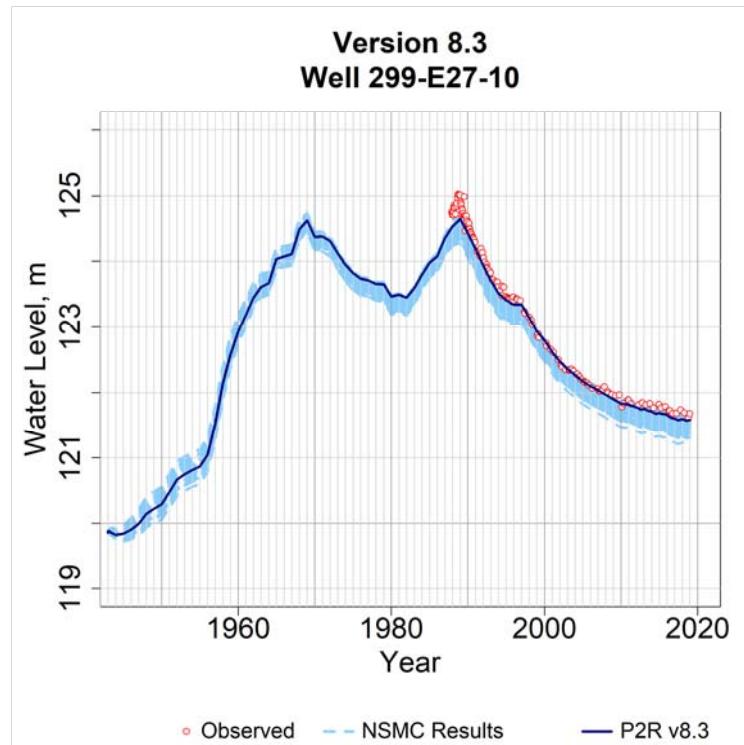


Figure B-162. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-10 for the calibrated model and all model variants from the NSMC.

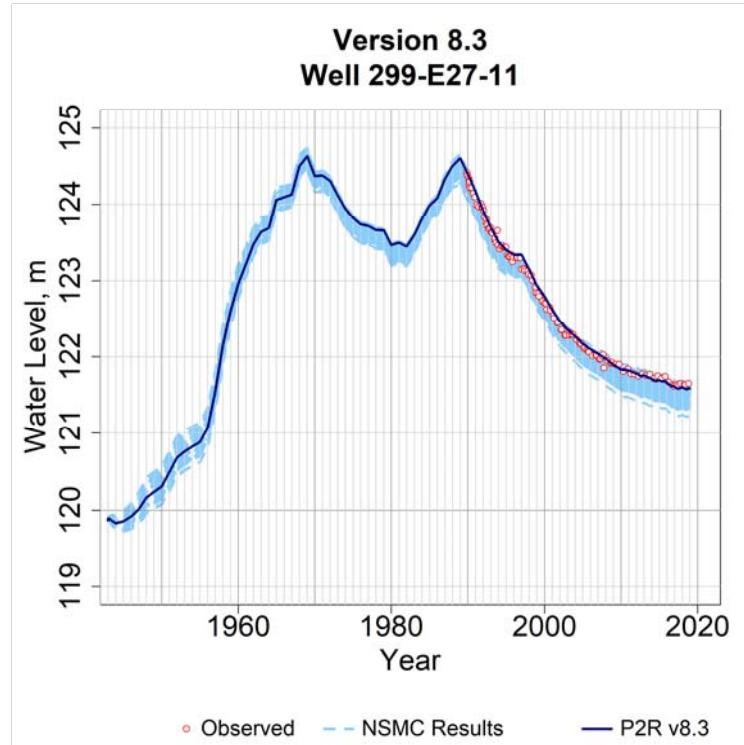


Figure B-163. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-11 for the calibrated model and all model variants from the NSMC.

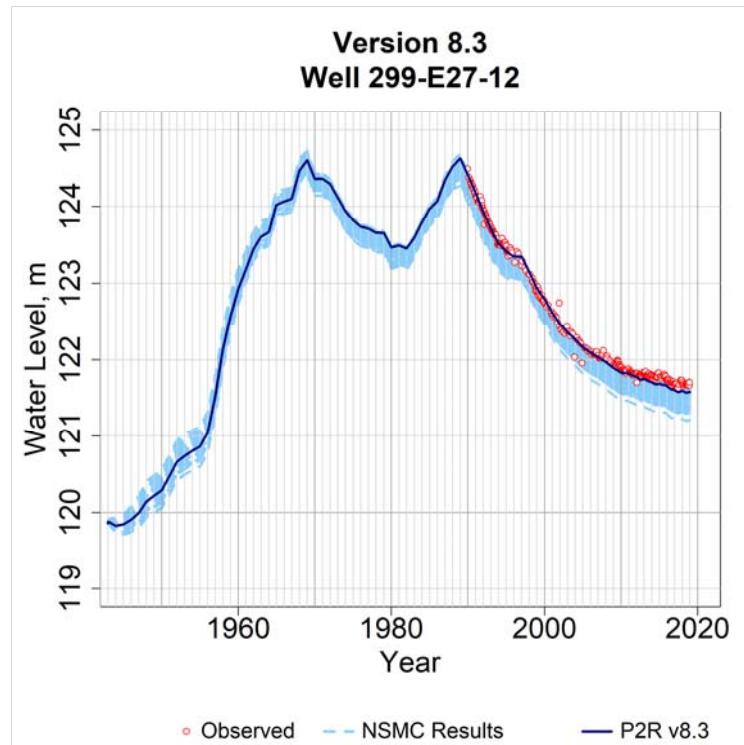


Figure B-164. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-12 for the calibrated model and all model variants from the NSMC.

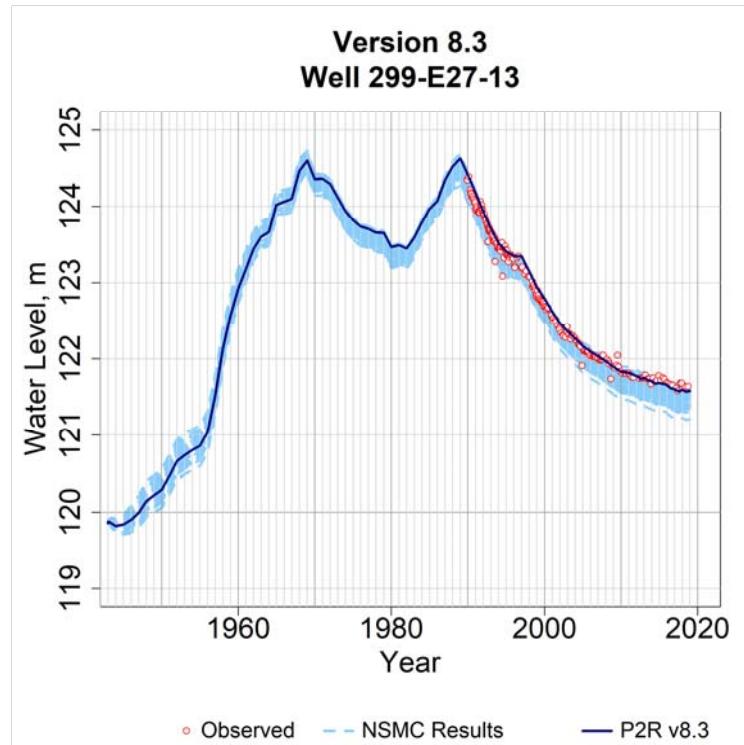


Figure B-165. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-13 for the calibrated model and all model variants from the NSMC.

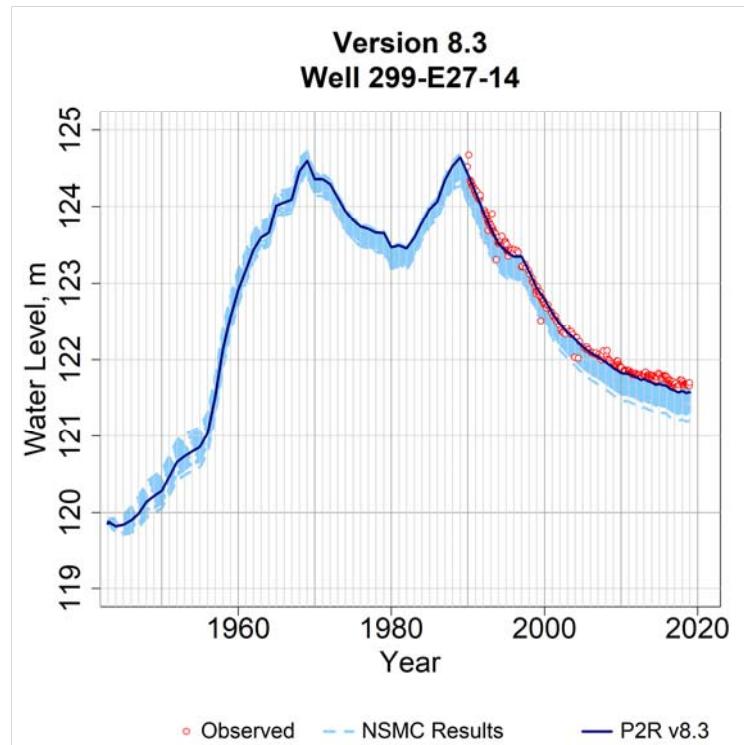


Figure B-166. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-14 for the calibrated model and all model variants from the NSMC.

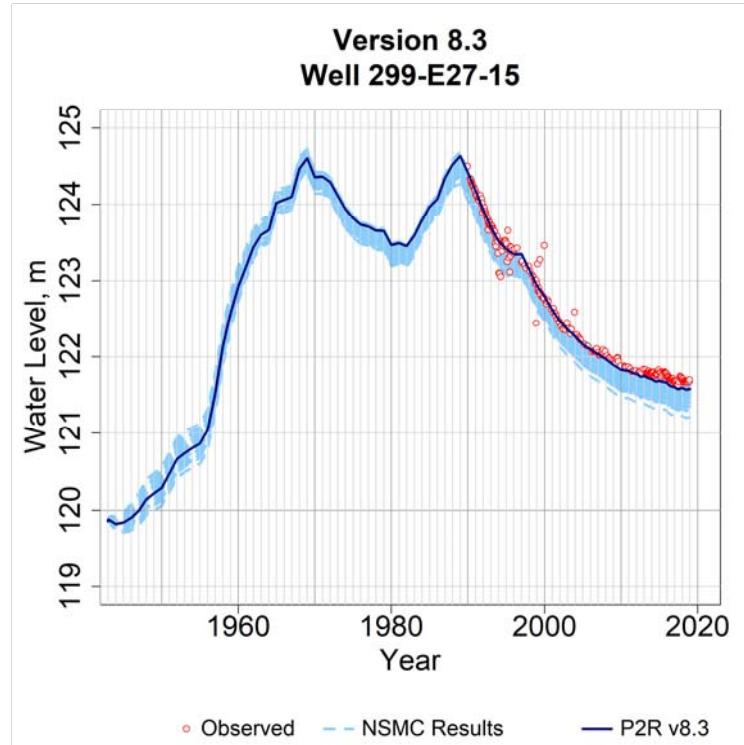


Figure B-167. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-15 for the calibrated model and all model variants from the NSMC.

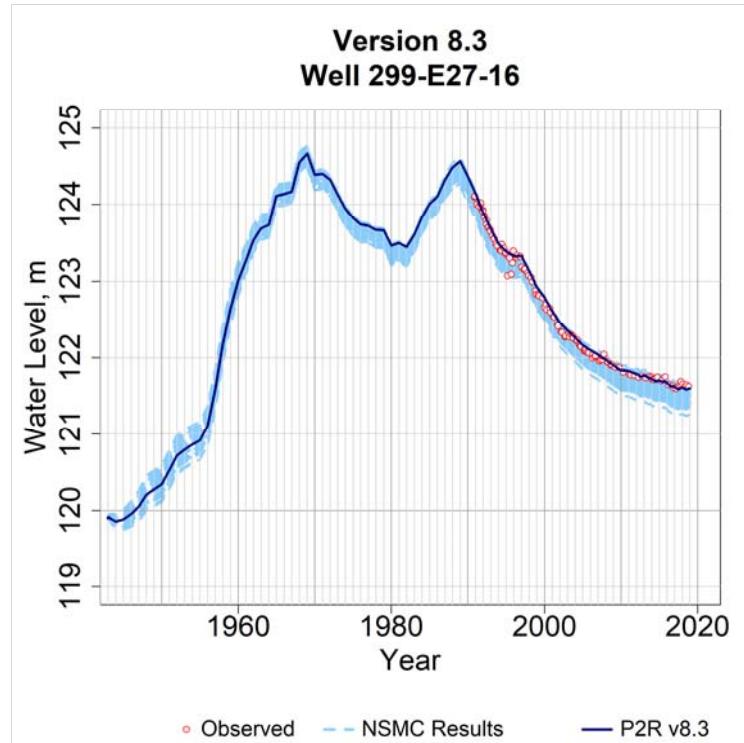


Figure B-168. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-16 for the calibrated model and all model variants from the NSMC.

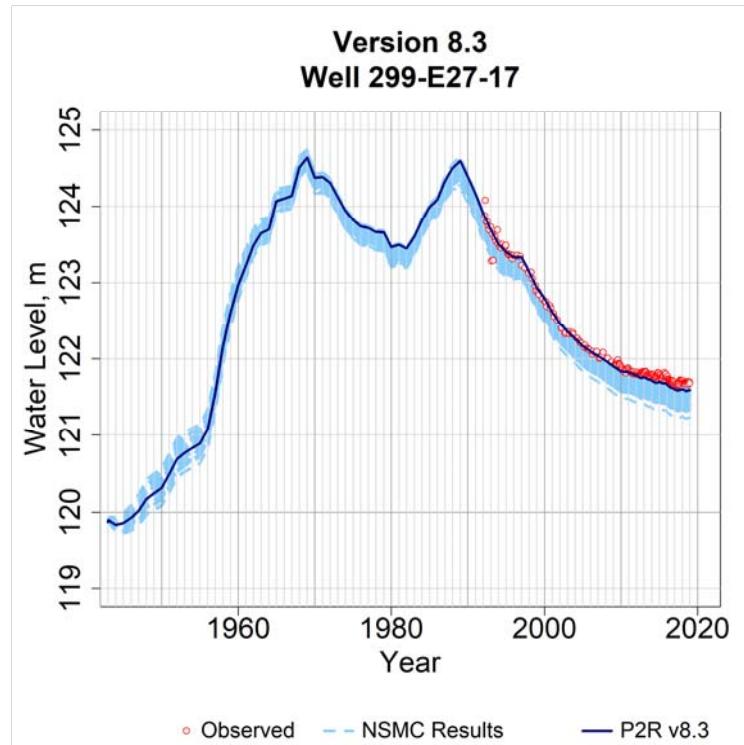


Figure B-169. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-17 for the calibrated model and all model variants from the NSMC.

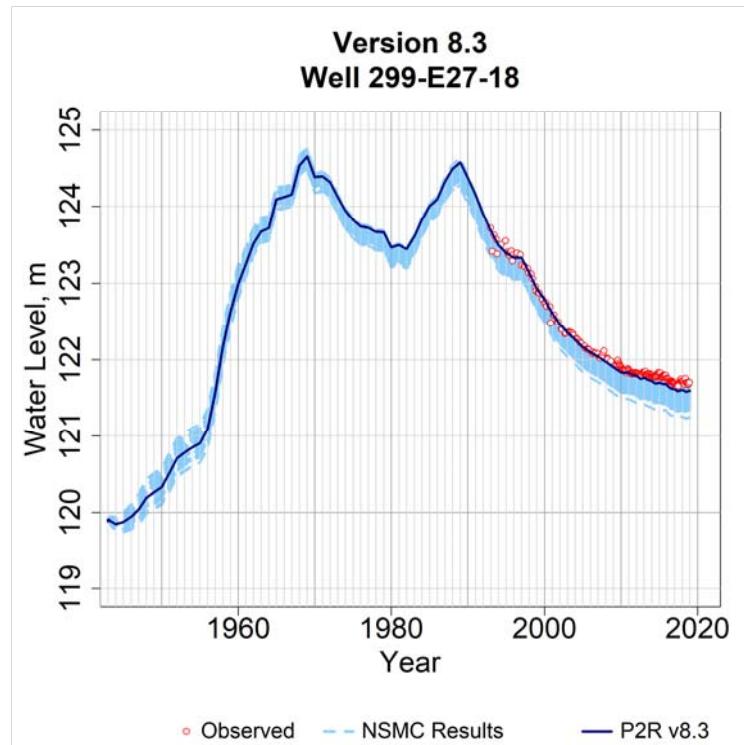


Figure B-170. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-18 for the calibrated model and all model variants from the NSMC.

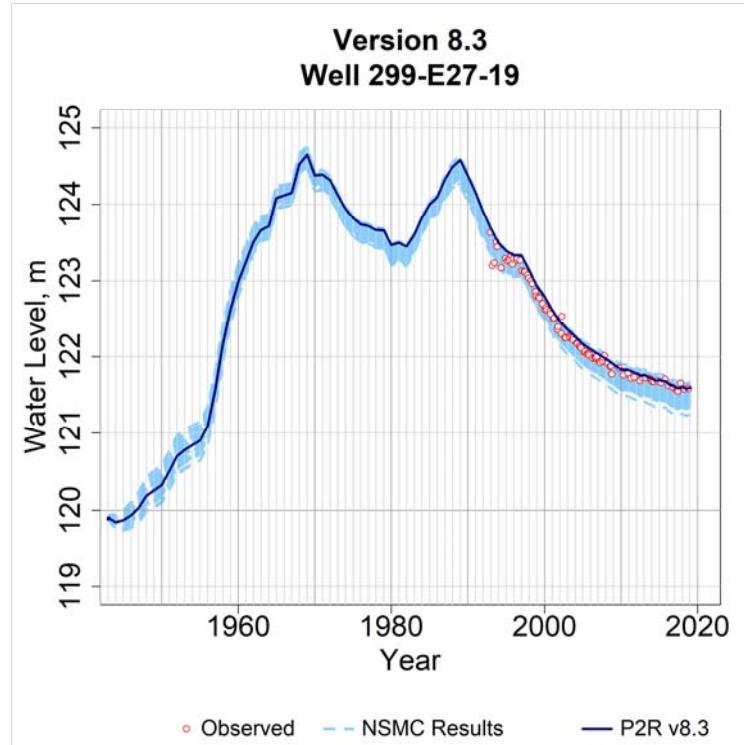


Figure B-171. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-19 for the calibrated model and all model variants from the NSMC.

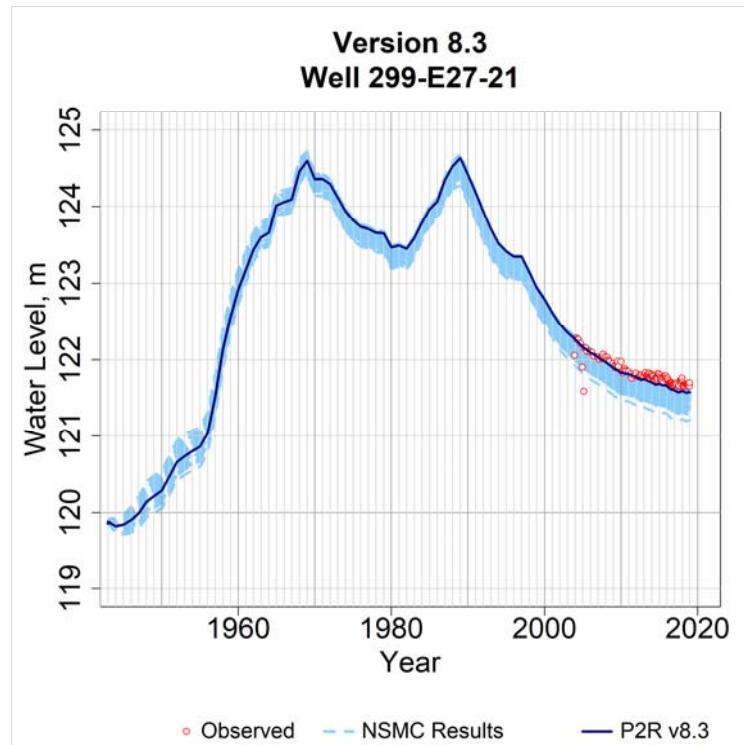


Figure B-172. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-21 for the calibrated model and all model variants from the NSMC.

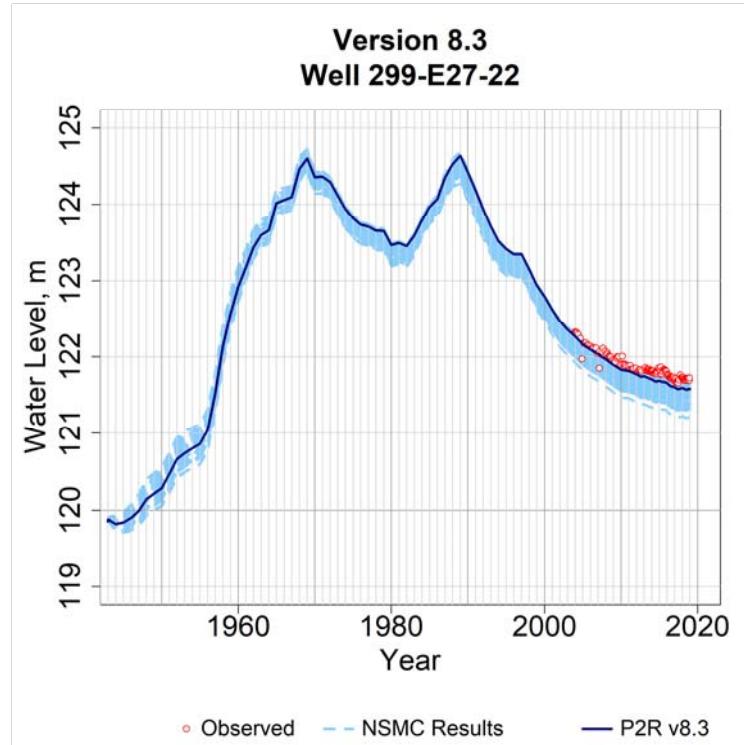


Figure B-173. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-22 for the calibrated model and all model variants from the NSMC.

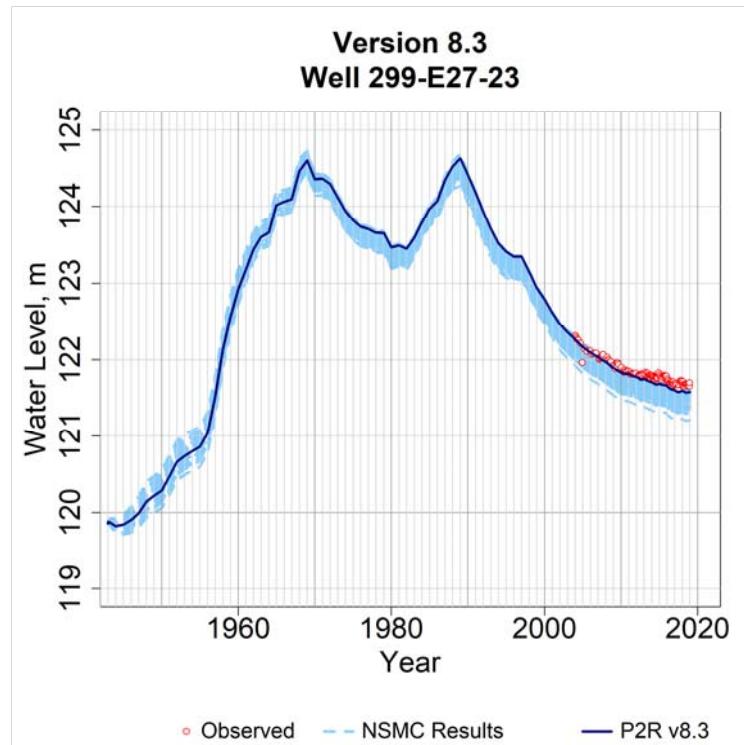


Figure B-174. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-23 for the calibrated model and all model variants from the NSMC.

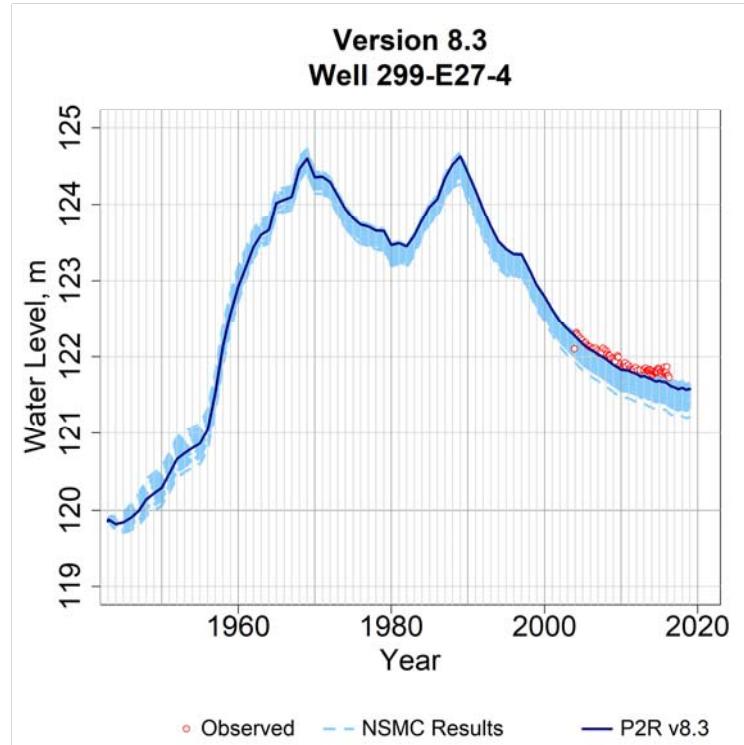


Figure B-175. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-4 for the calibrated model and all model variants from the NSMC.

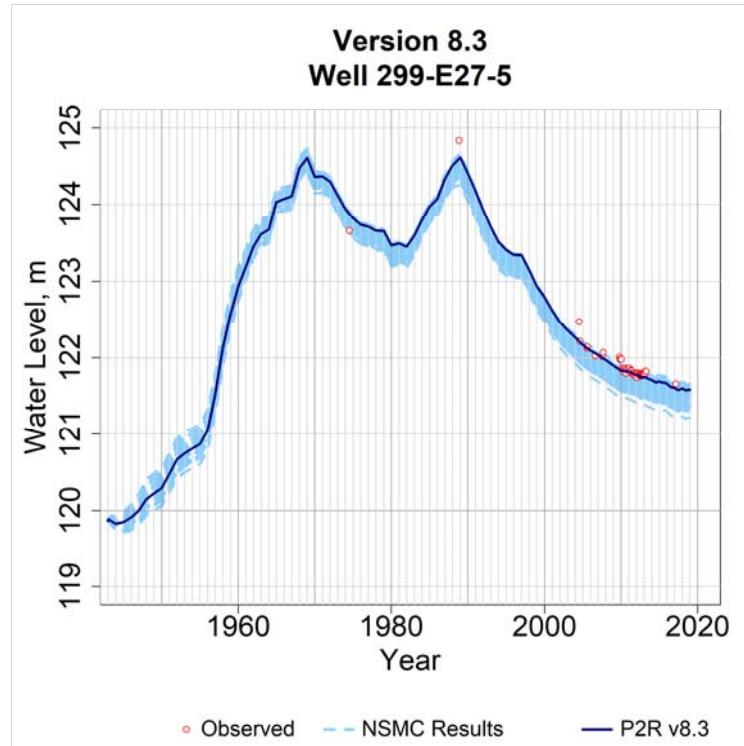


Figure B-176. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-5 for the calibrated model and all model variants from the NSMC.

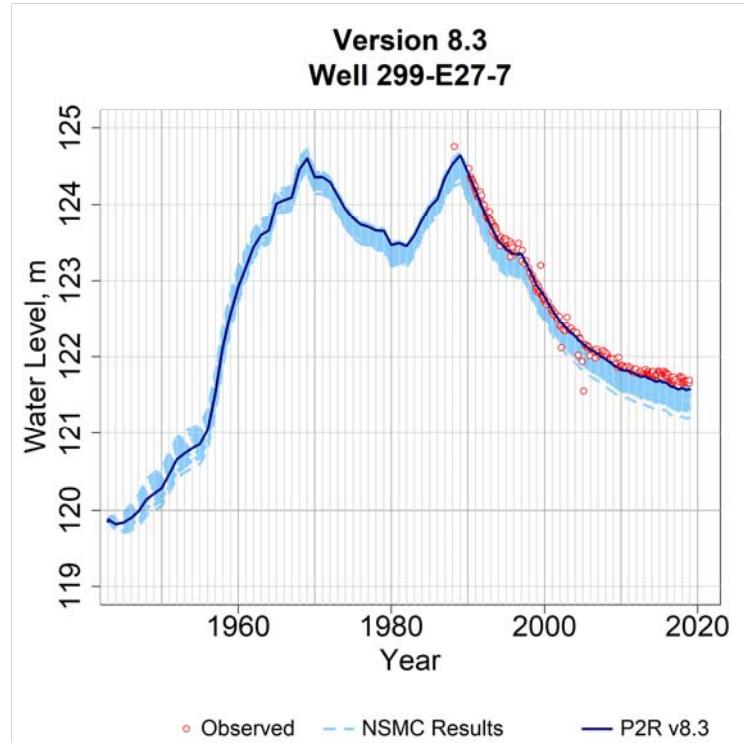


Figure B-177. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-7 for the calibrated model and all model variants from the NSMC.

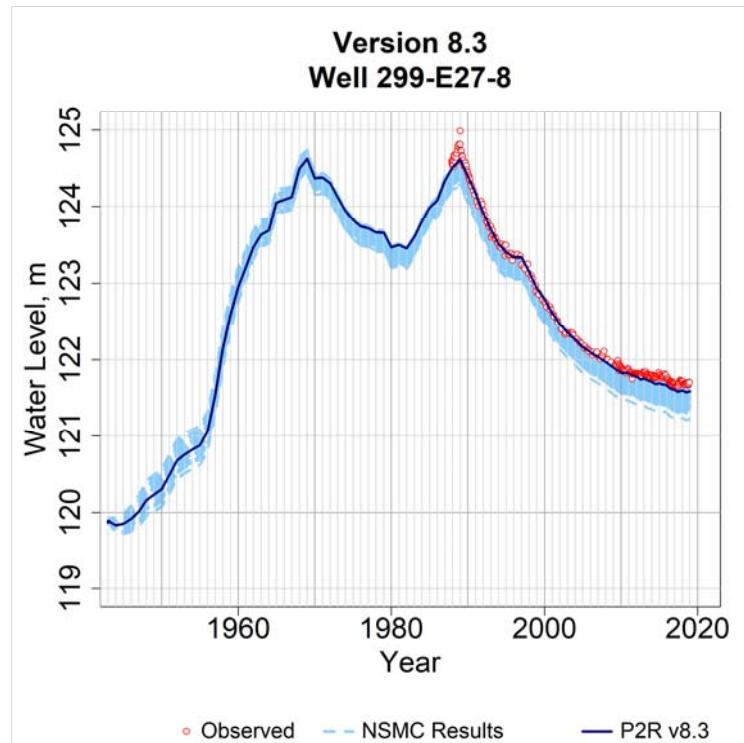


Figure B-178. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-8 for the calibrated model and all model variants from the NSMC.

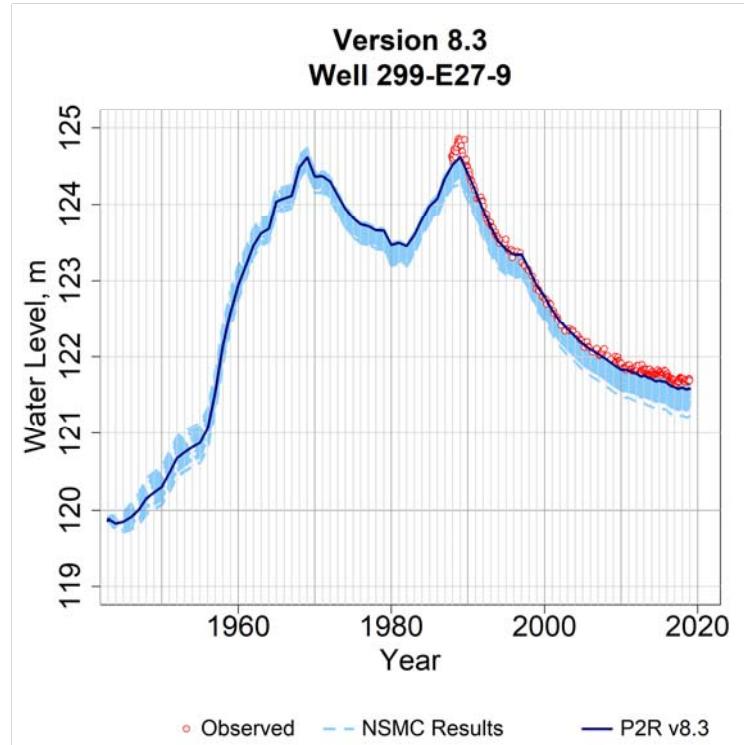


Figure B-179. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E27-9 for the calibrated model and all model variants from the NSMC.

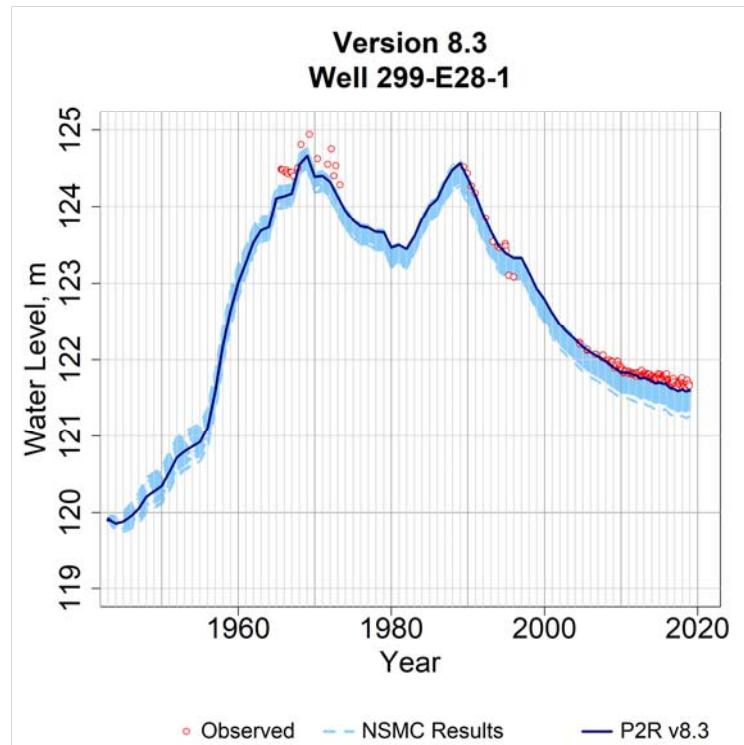


Figure B-180. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-1 for the calibrated model and all model variants from the NSMC.

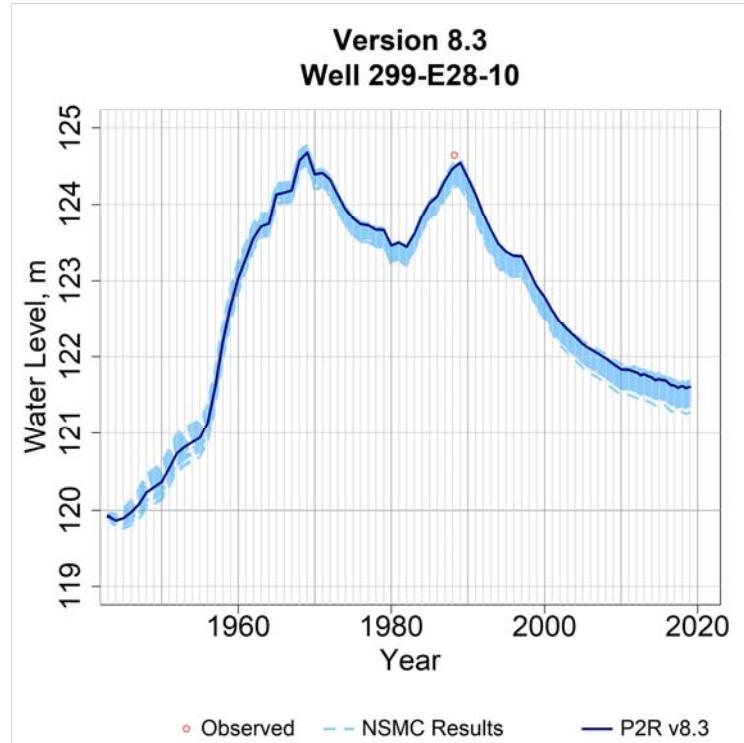


Figure B-181. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-10 for the calibrated model and all model variants from the NSMC.

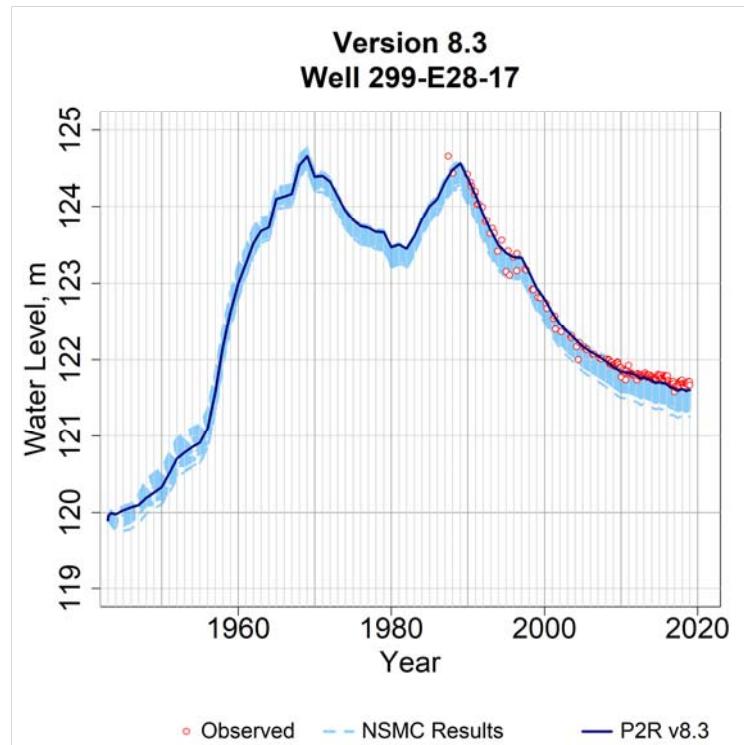


Figure B-182. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-17 for the calibrated model and all model variants from the NSMC.

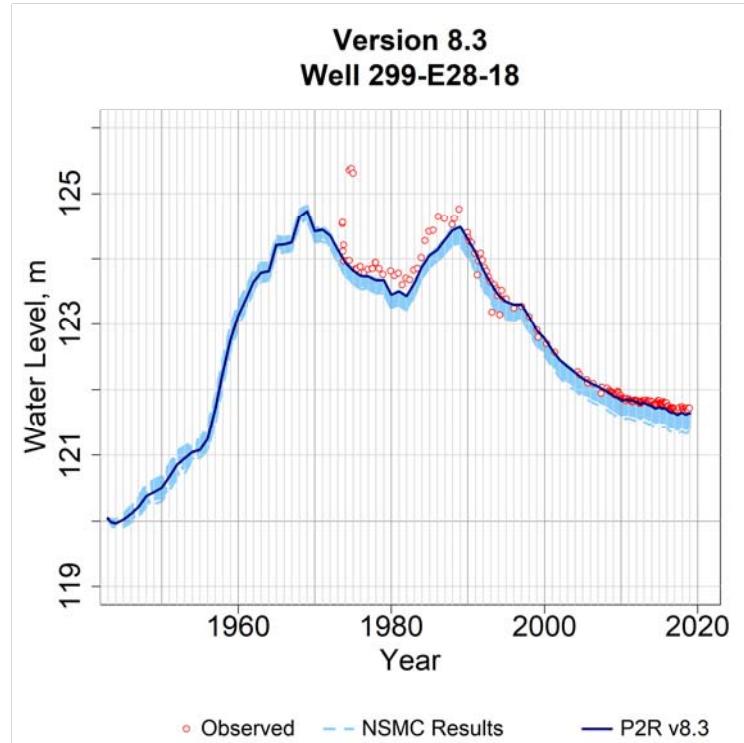


Figure B-183. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-18 for the calibrated model and all model variants from the NSMC.

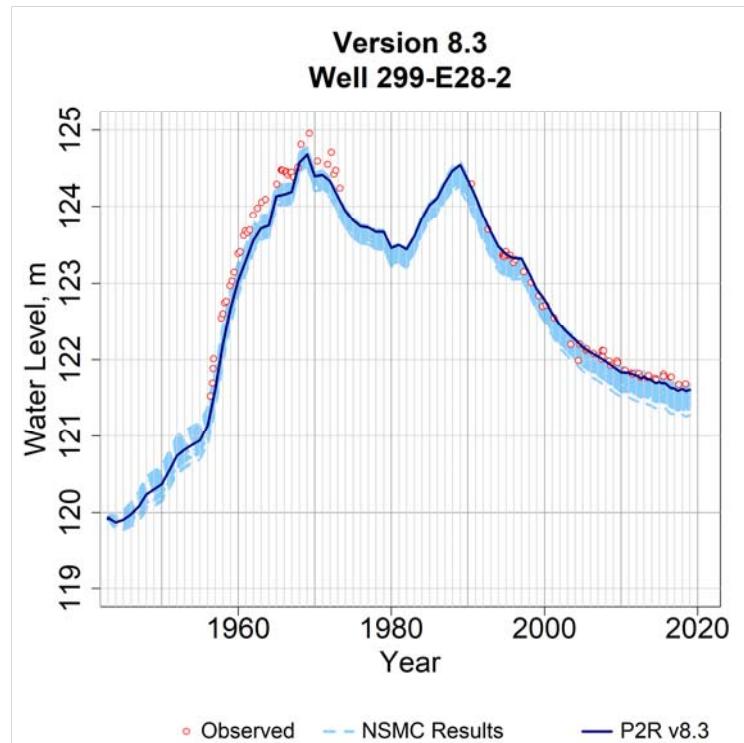


Figure B-184. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-2 for the calibrated model and all model variants from the NSMC.

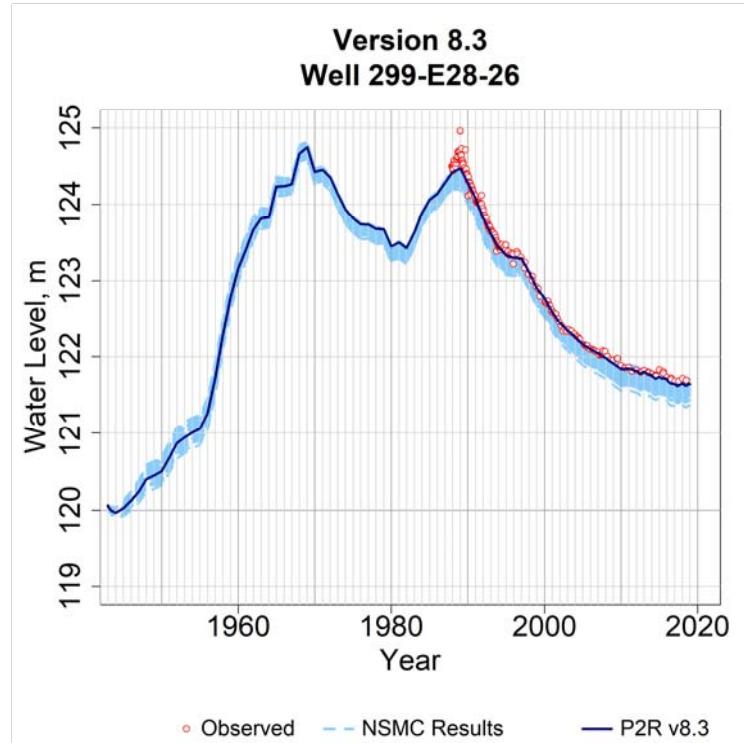


Figure B-185. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-26 for the calibrated model and all model variants from the NSMC.

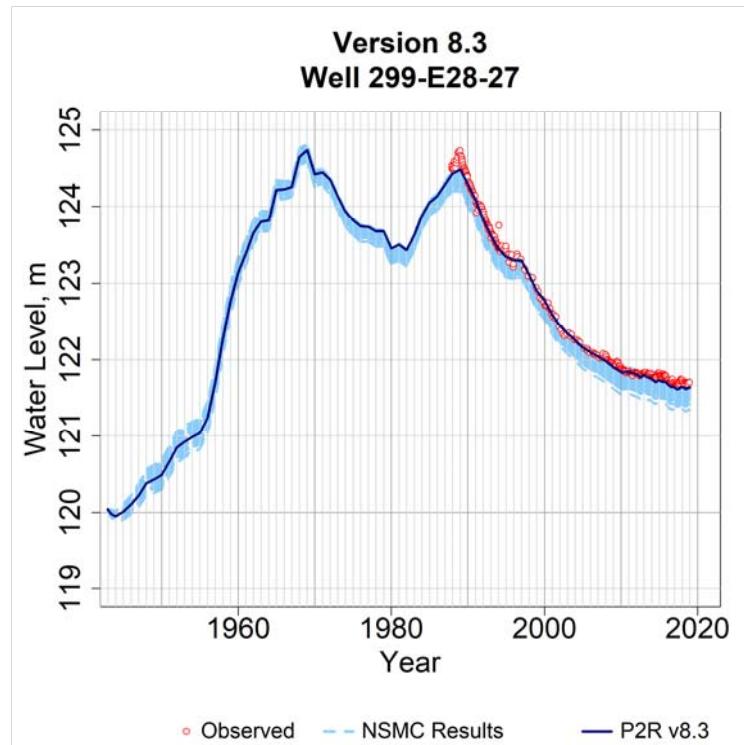


Figure B-186. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-27 for the calibrated model and all model variants from the NSMC.

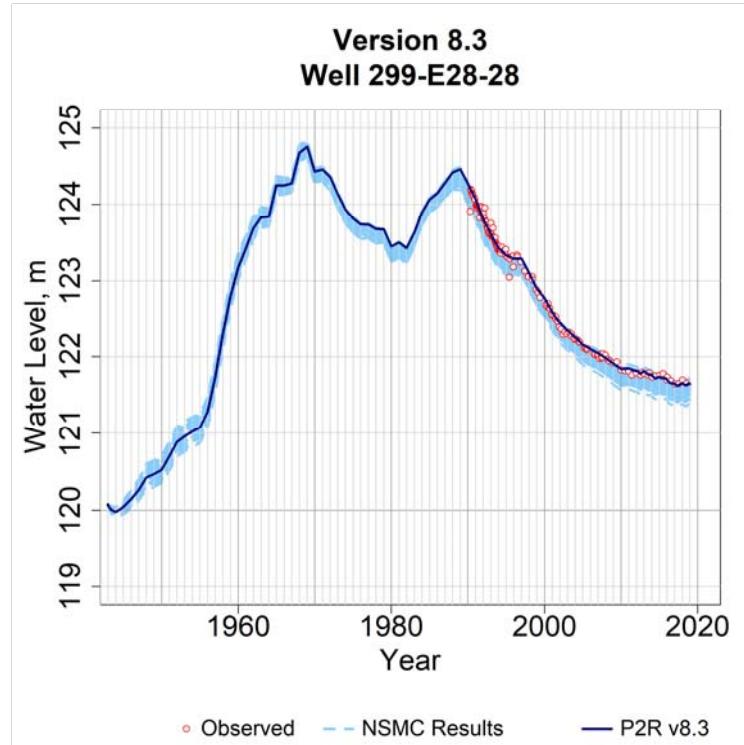


Figure B-187. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-28 for the calibrated model and all model variants from the NSMC.

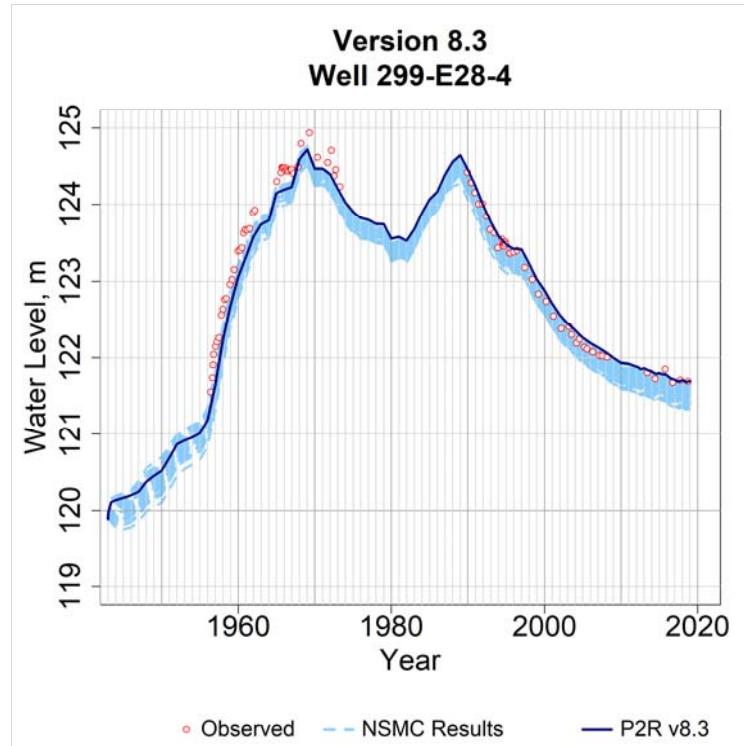


Figure B-188. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-4 for the calibrated model and all model variants from the NSMC.

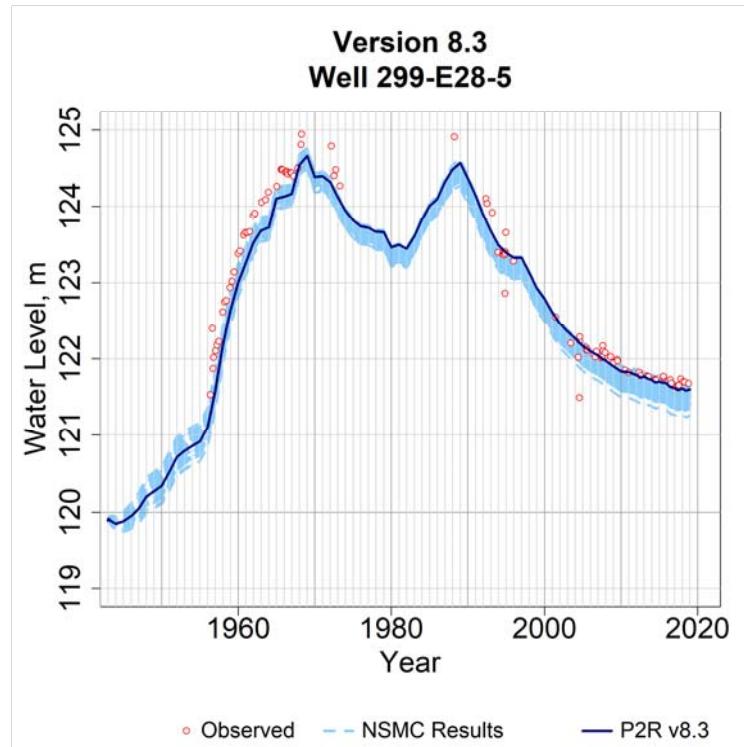


Figure B-189. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-5 for the calibrated model and all model variants from the NSMC.

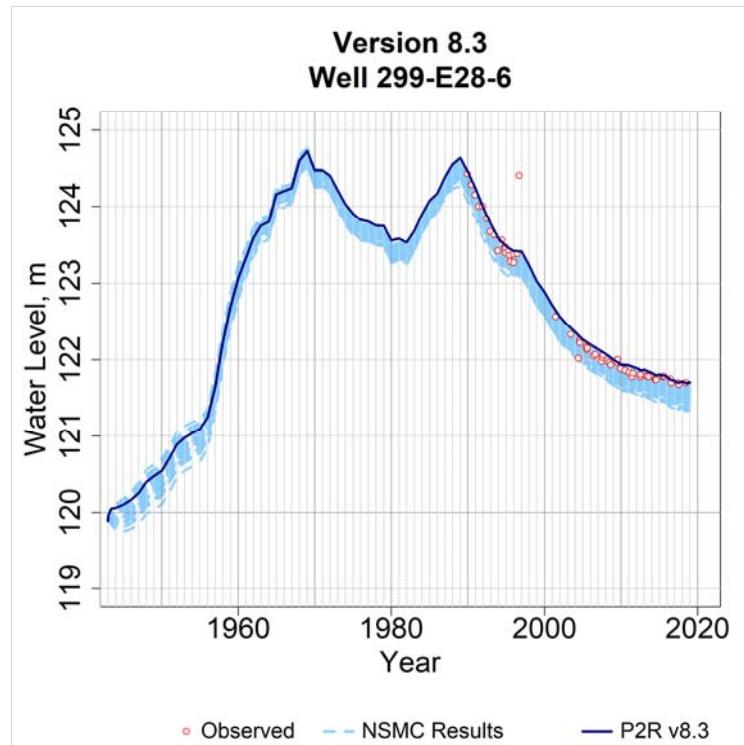


Figure B-190. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-6 for the calibrated model and all model variants from the NSMC.

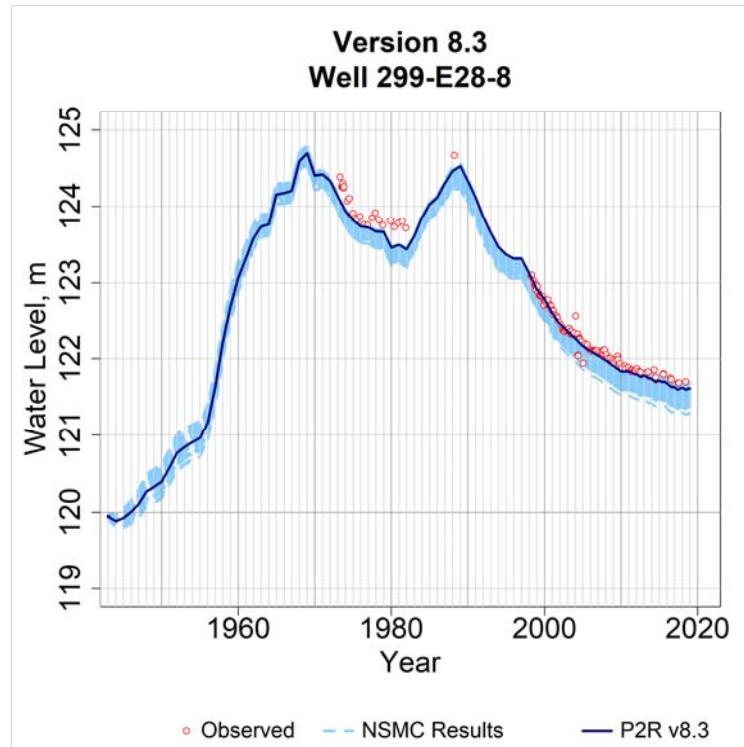


Figure B-191. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E28-8 for the calibrated model and all model variants from the NSMC.

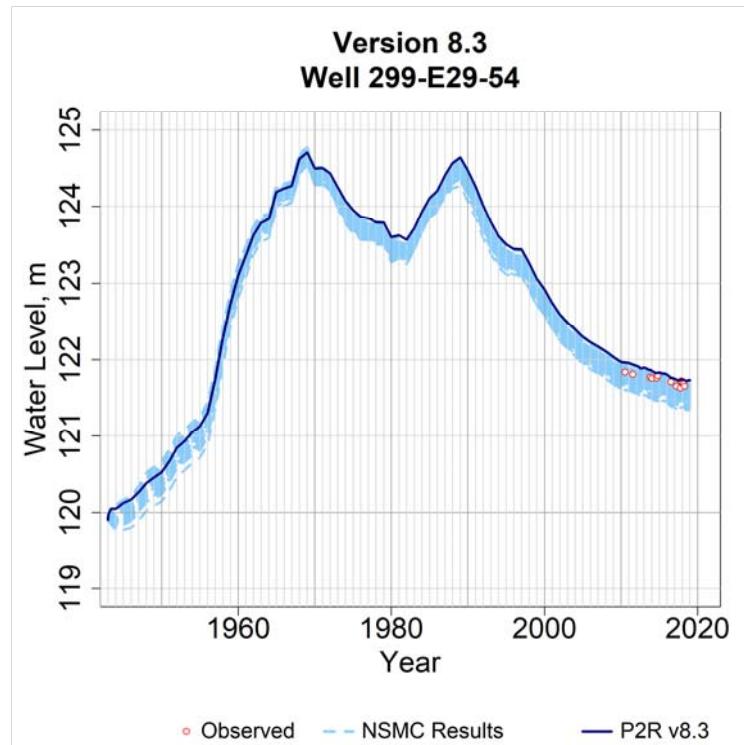


Figure B-192. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E29-54 for the calibrated model and all model variants from the NSMC.

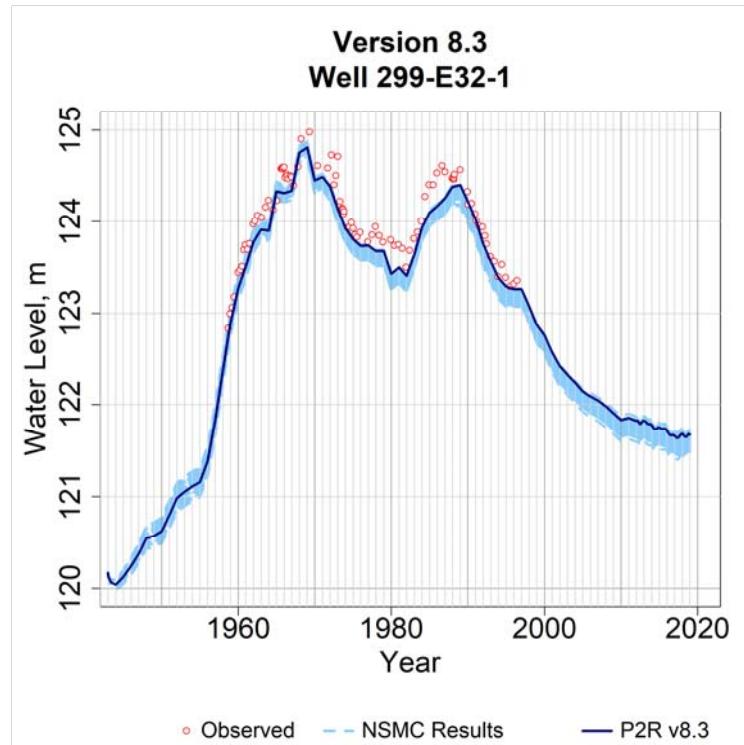


Figure B-193. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-1 for the calibrated model and all model variants from the NSMC.

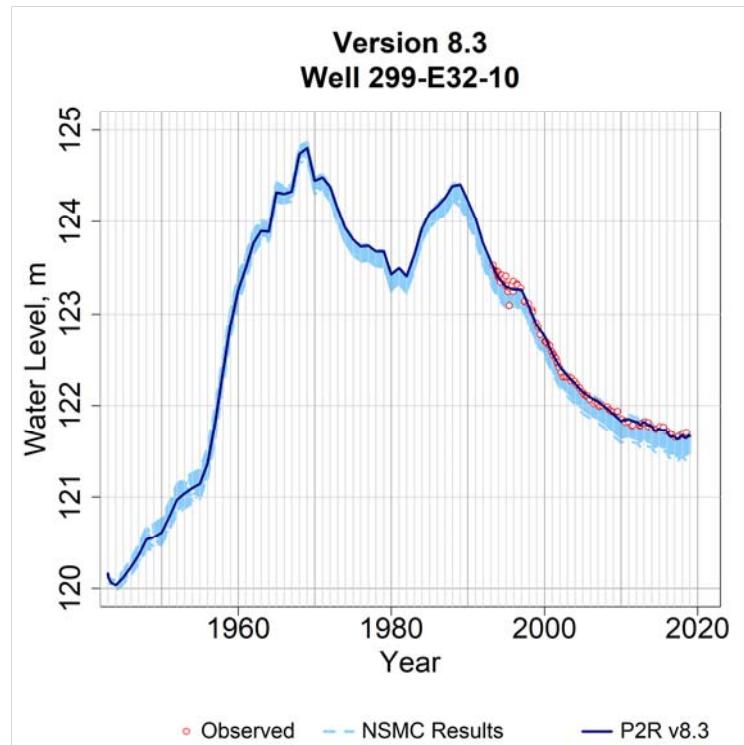


Figure B-194. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-10 for the calibrated model and all model variants from the NSMC.

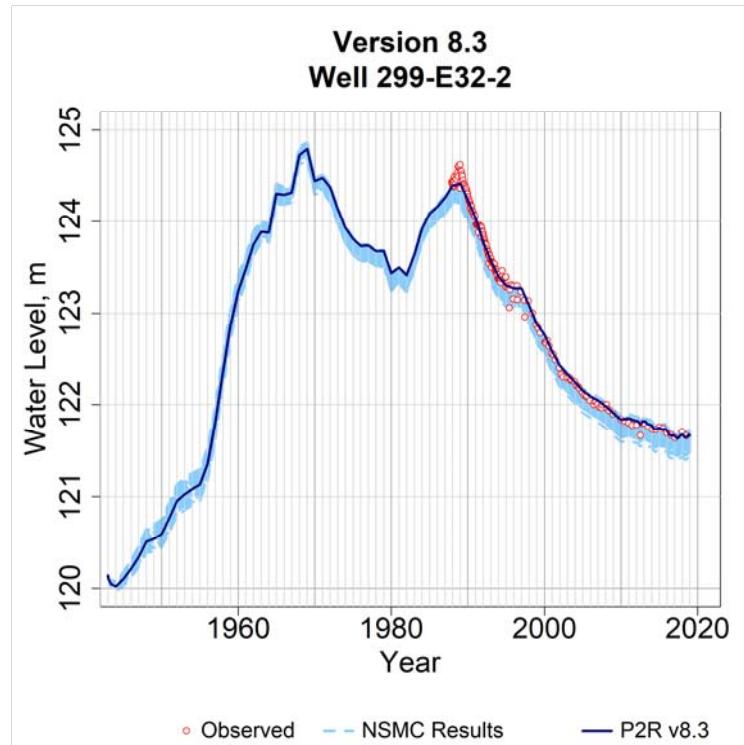


Figure B-195. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-2 for the calibrated model and all model variants from the NSMC.

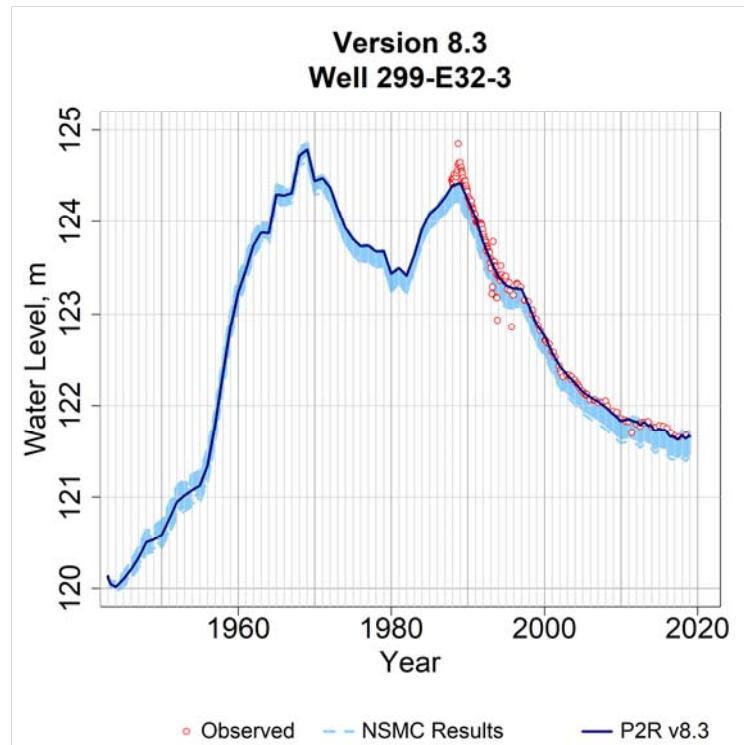


Figure B-196. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-3 for the calibrated model and all model variants from the NSMC.

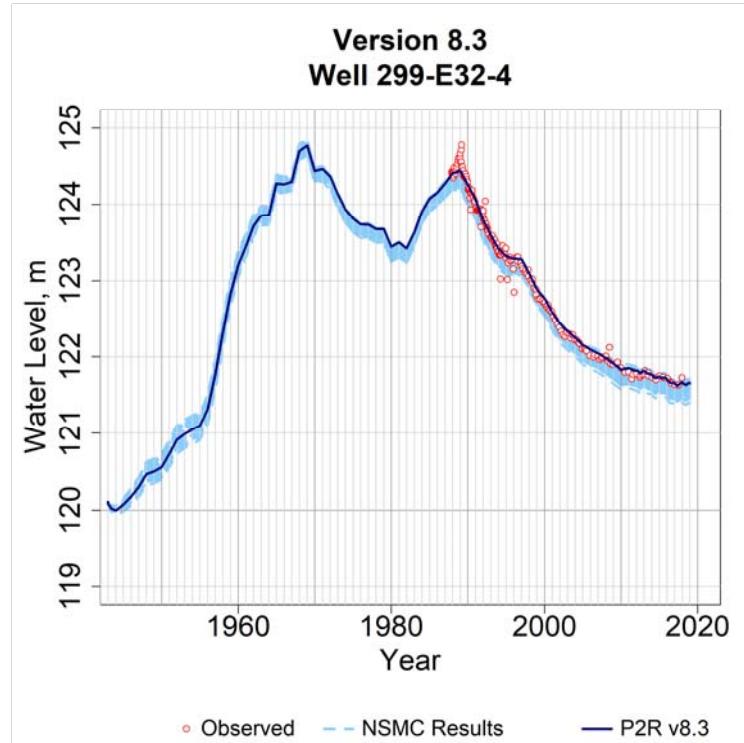


Figure B-197. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-4 for the calibrated model and all model variants from the NSMC.

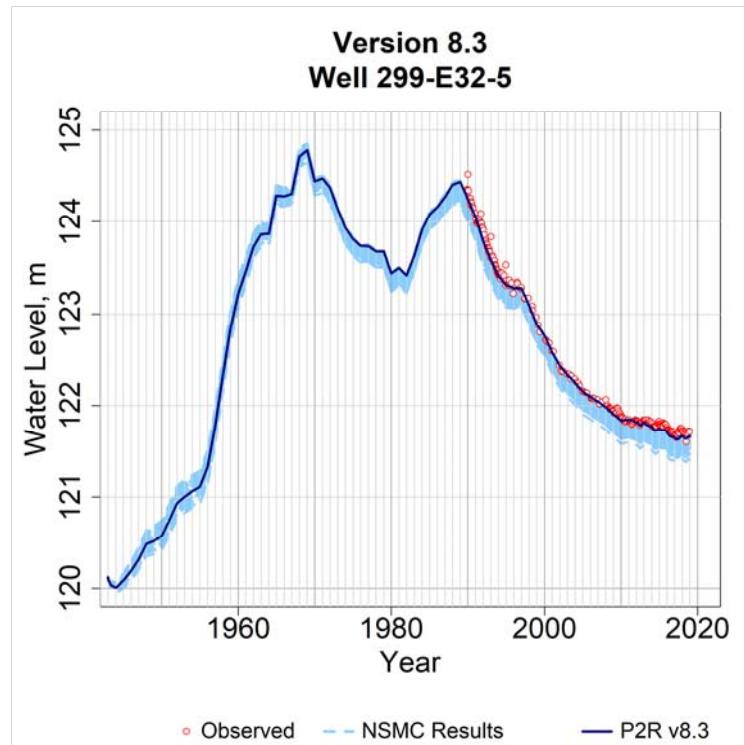


Figure B-198. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-5 for the calibrated model and all model variants from the NSMC.

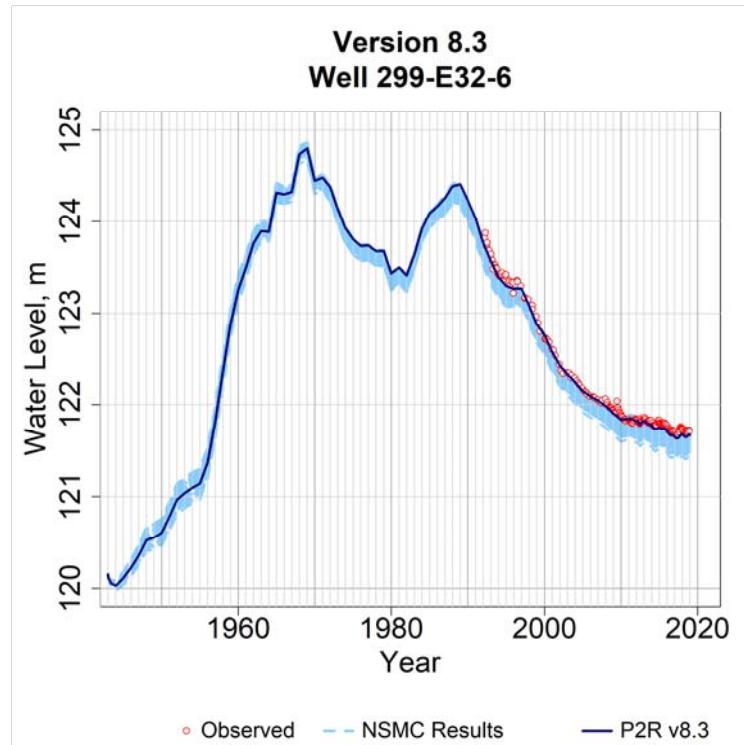


Figure B-199. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-6 for the calibrated model and all model variants from the NSMC.

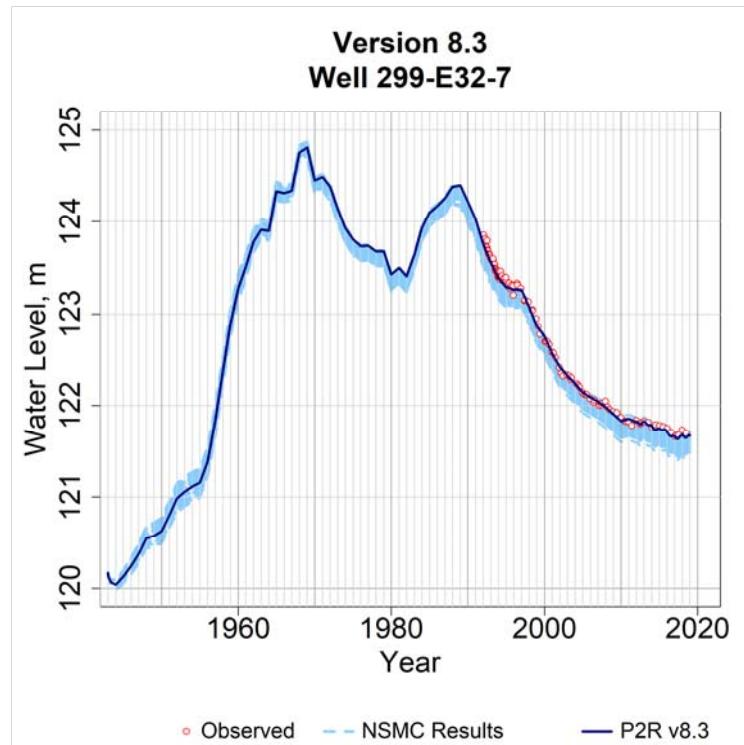


Figure B-200. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-7 for the calibrated model and all model variants from the NSMC.

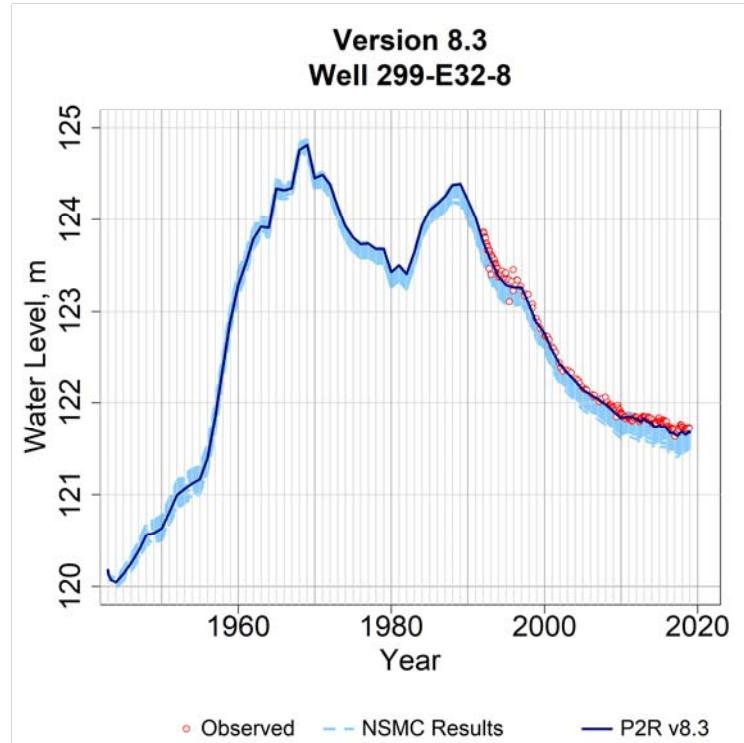


Figure B-201. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E32-8 for the calibrated model and all model variants from the NSMC.

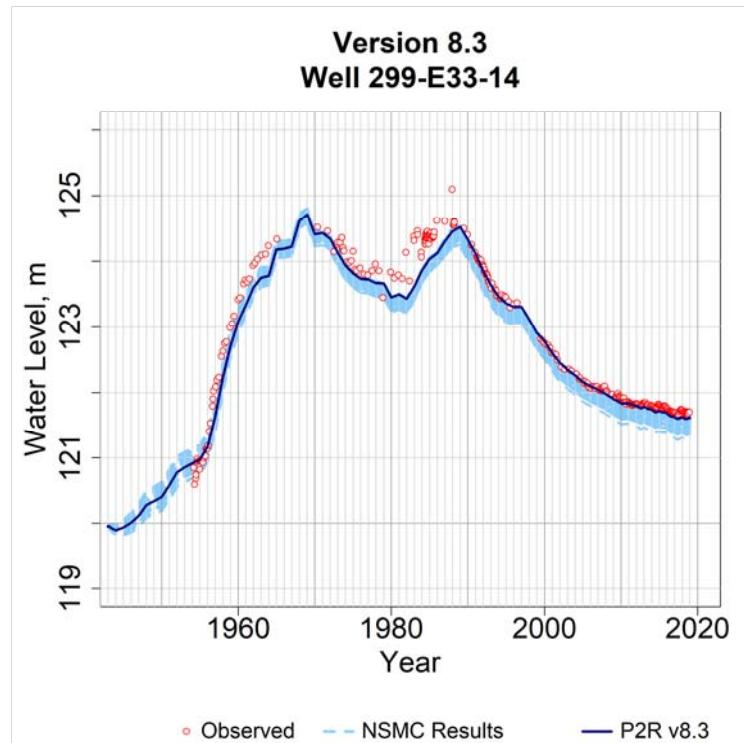


Figure B-202. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-14 for the calibrated model and all model variants from the NSMC.

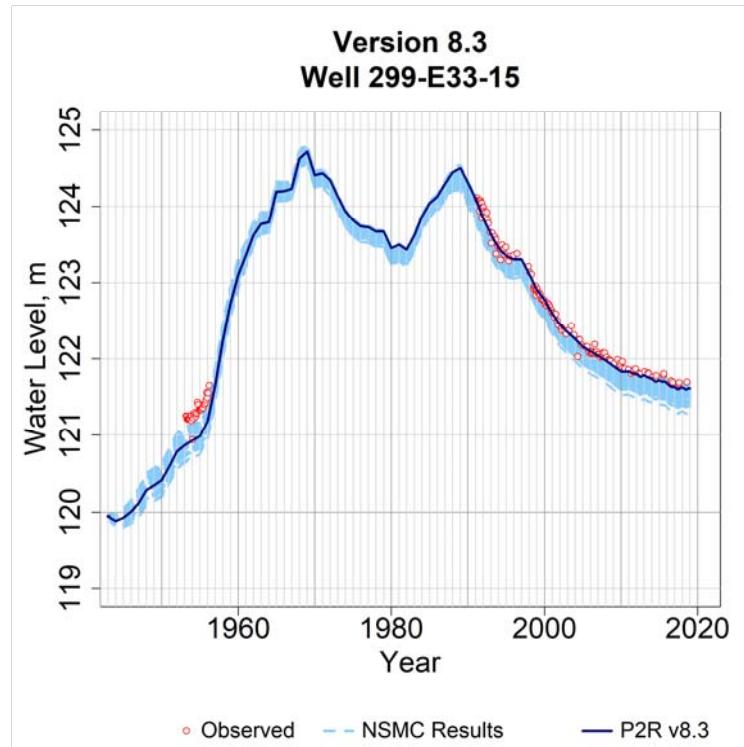


Figure B-203. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-15 for the calibrated model and all model variants from the NSMC.

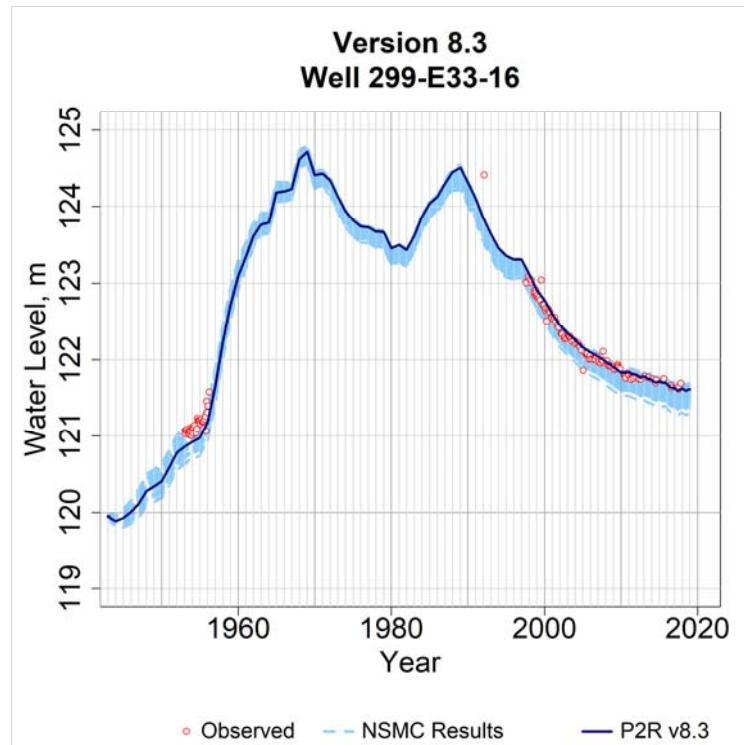


Figure B-204. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-16 for the calibrated model and all model variants from the NSMC.

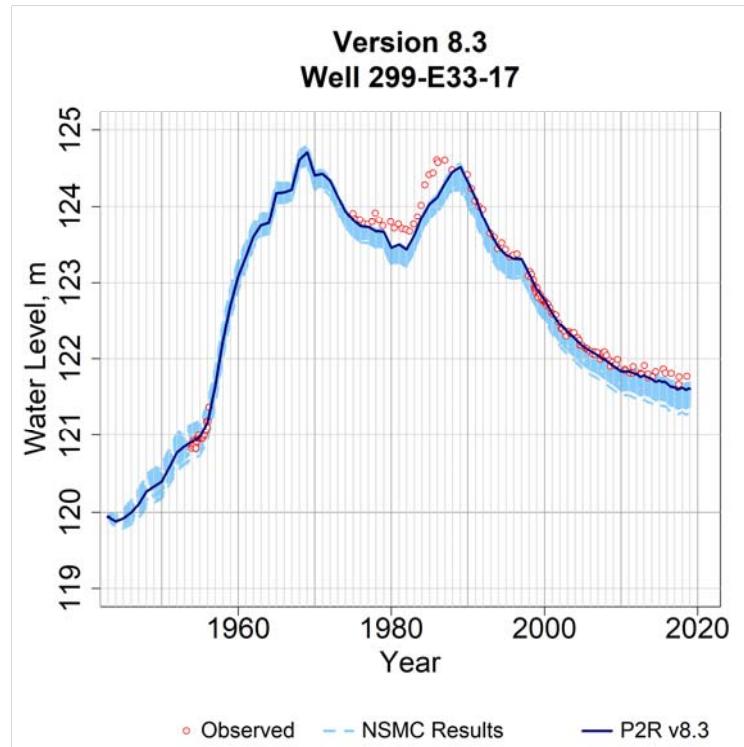


Figure B-205. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-17 for the calibrated model and all model variants from the NSMC.

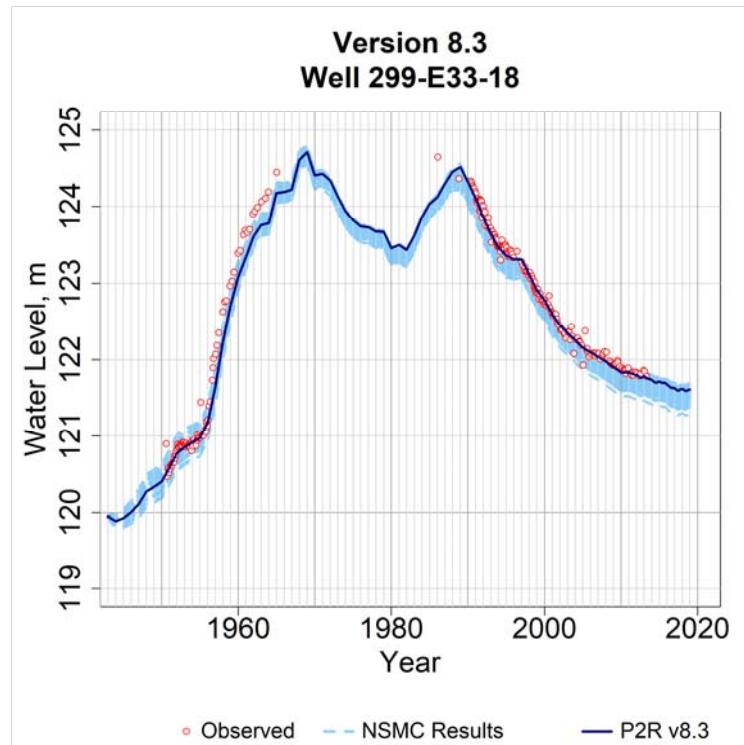


Figure B-206. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-18 for the calibrated model and all model variants from the NSMC.

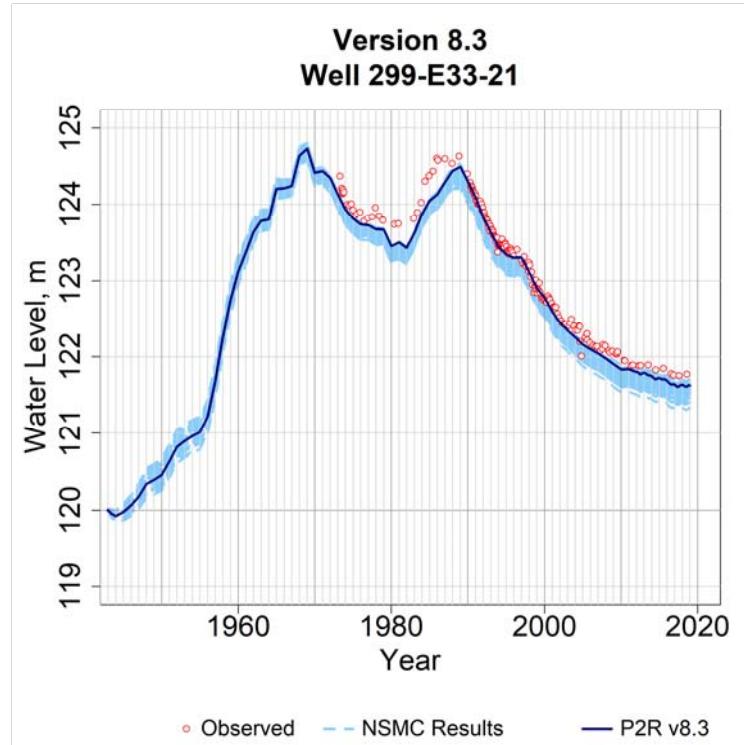


Figure B-207. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-21 for the calibrated model and all model variants from the NSMC.

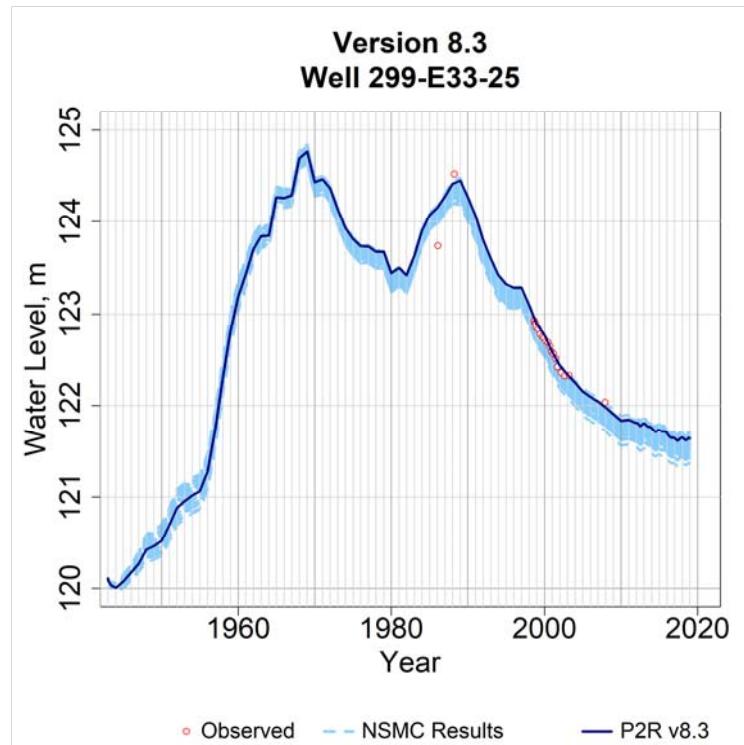


Figure B-208. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-25 for the calibrated model and all model variants from the NSMC.

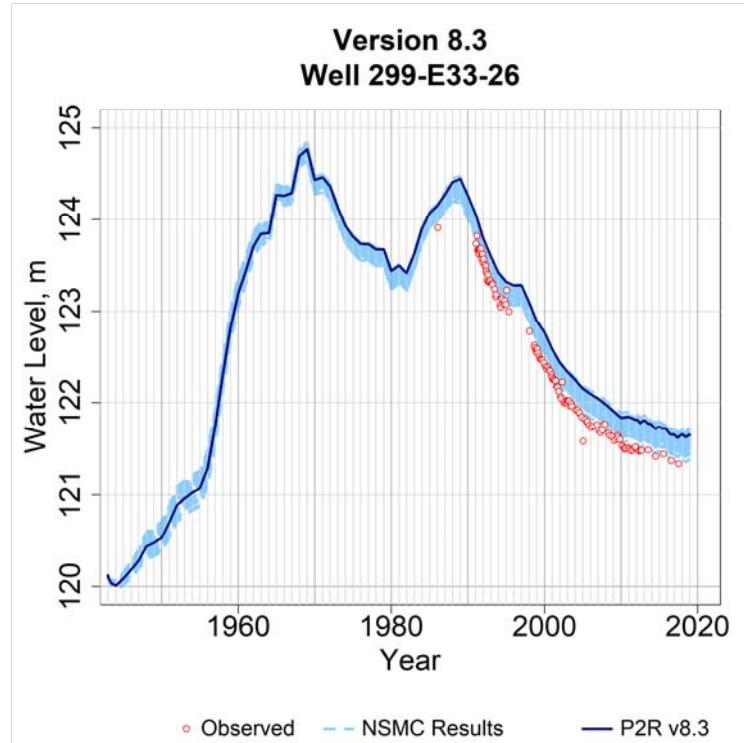


Figure B-209. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-26 for the calibrated model and all model variants from the NSMC.

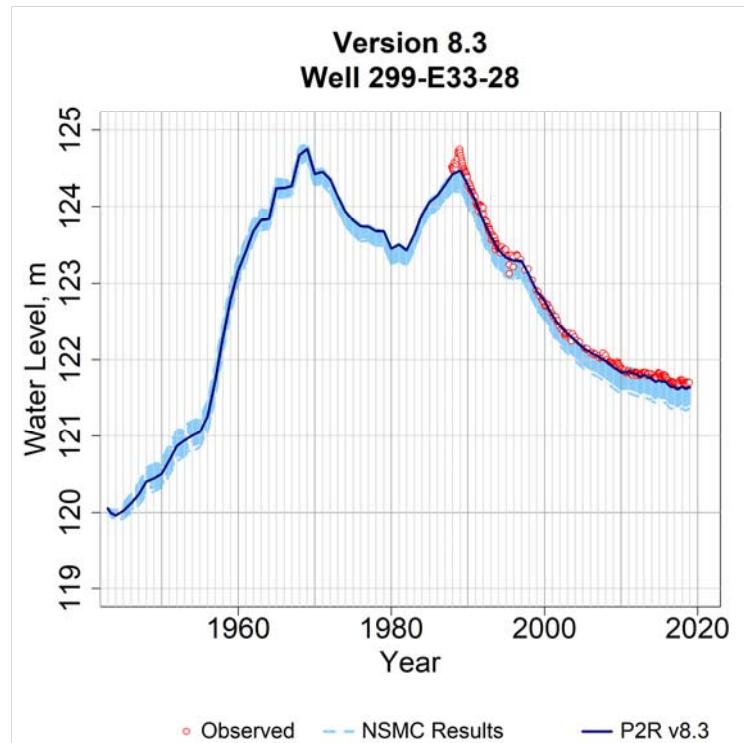


Figure B-210. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-28 for the calibrated model and all model variants from the NSMC.

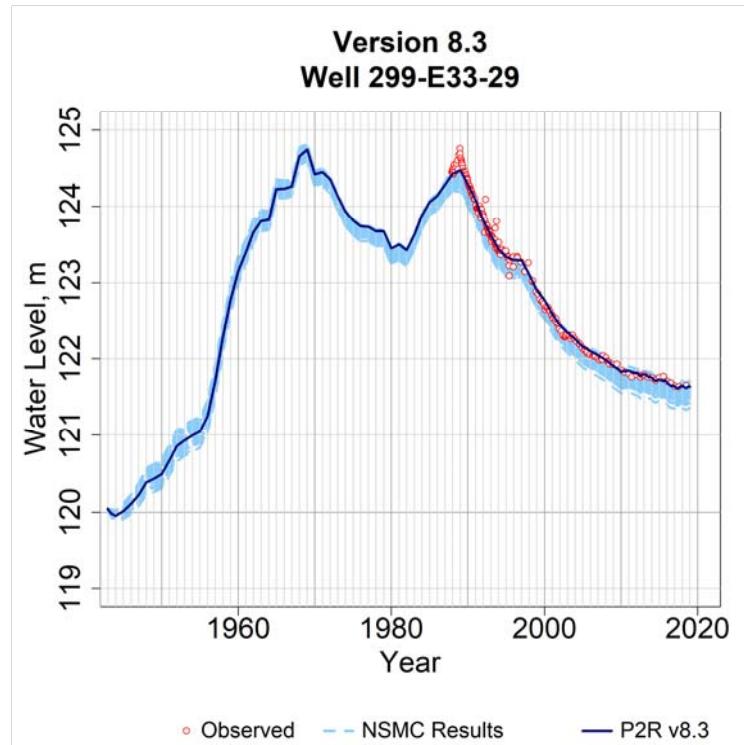


Figure B-211. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-29 for the calibrated model and all model variants from the NSMC.

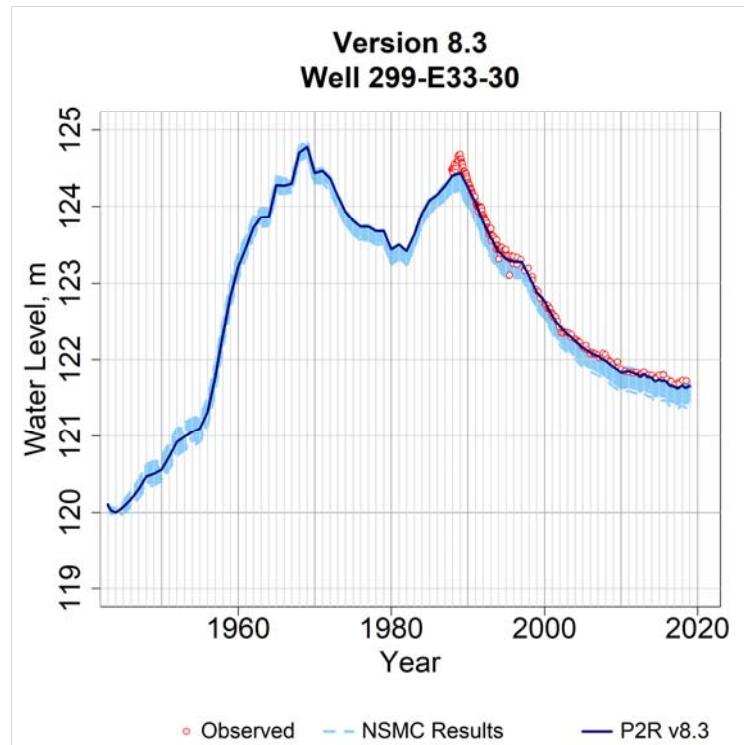


Figure B-212. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-30 for the calibrated model and all model variants from the NSMC.

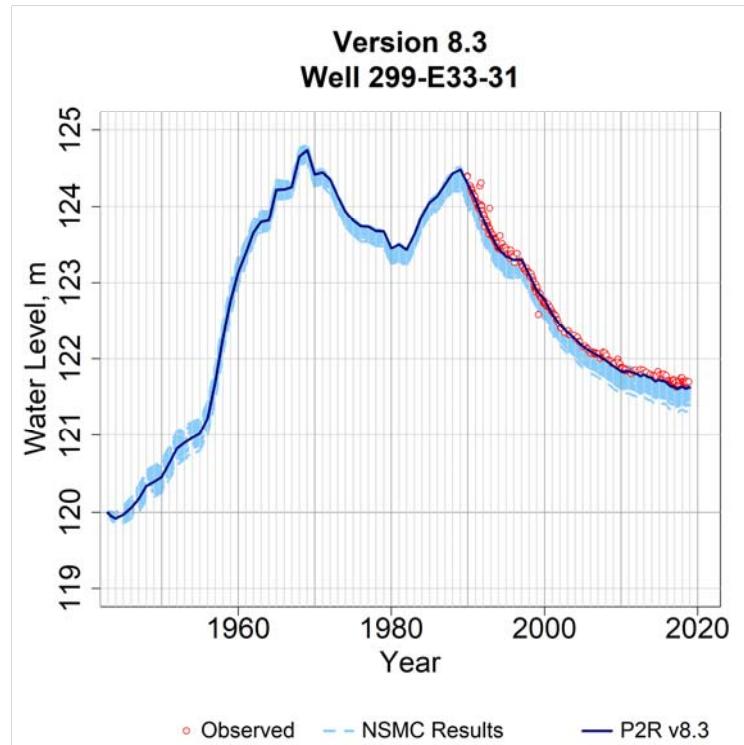


Figure B-213. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-31 for the calibrated model and all model variants from the NSMC.

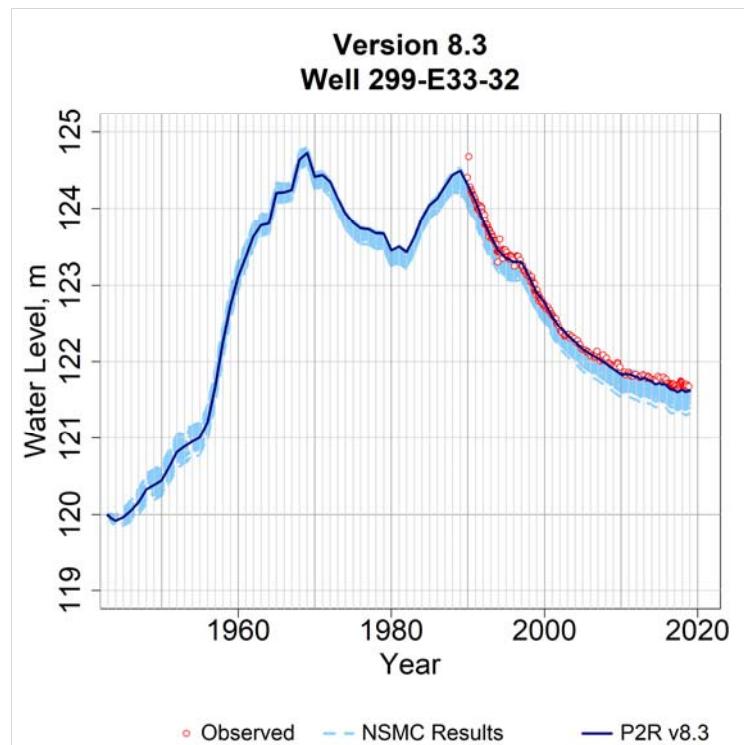


Figure B-214. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-32 for the calibrated model and all model variants from the NSMC.

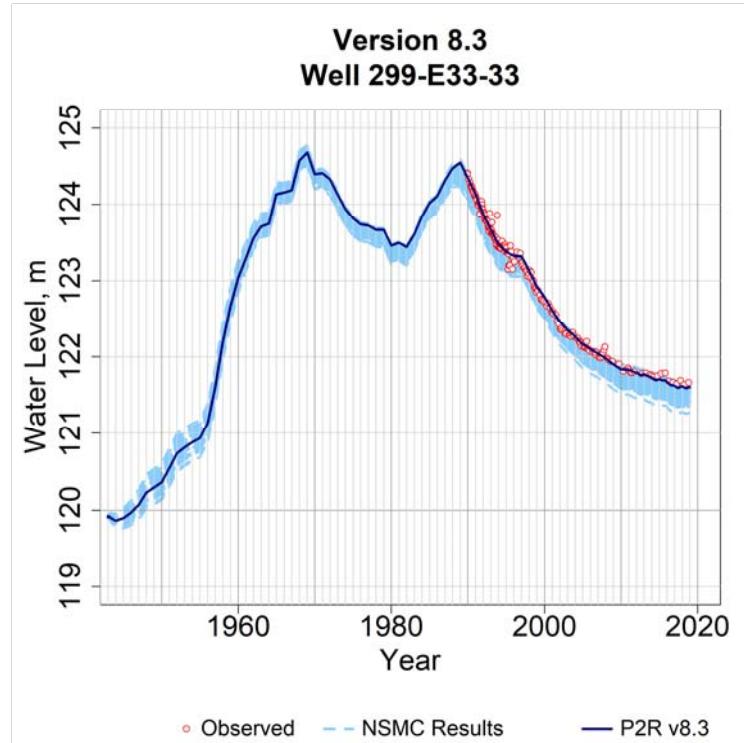


Figure B-215. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-33 for the calibrated model and all model variants from the NSMC.

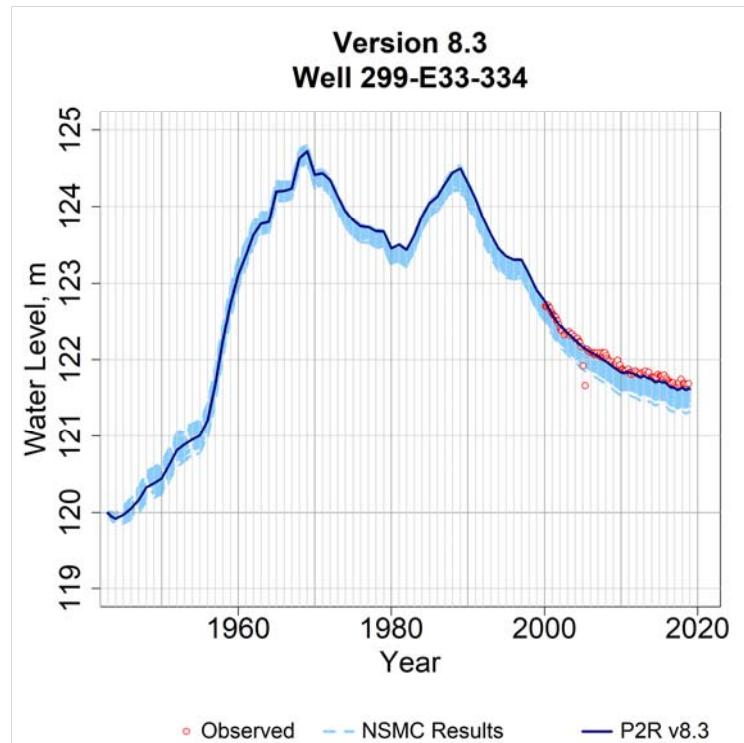


Figure B-216. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-334 for the calibrated model and all model variants from the NSMC.

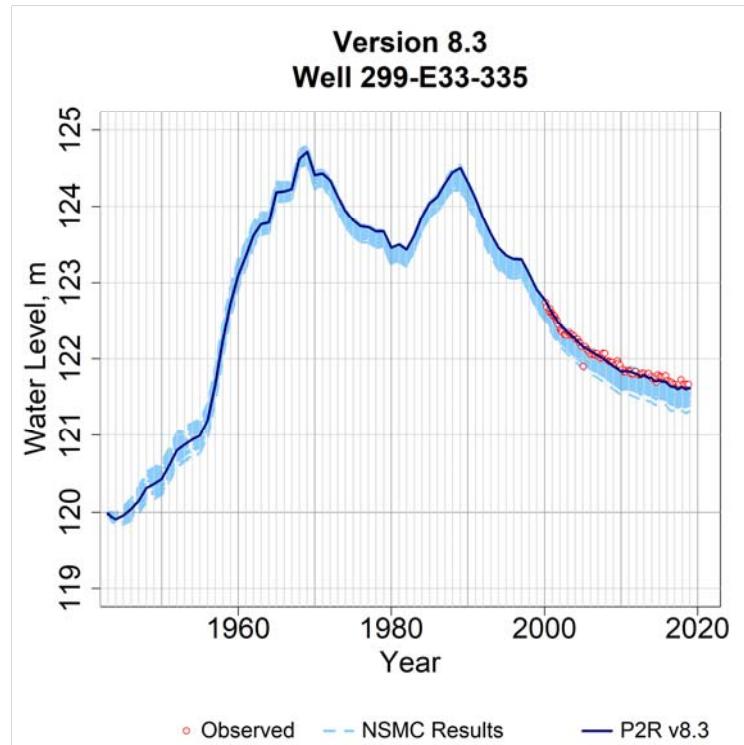


Figure B-217. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-335 for the calibrated model and all model variants from the NSMC.

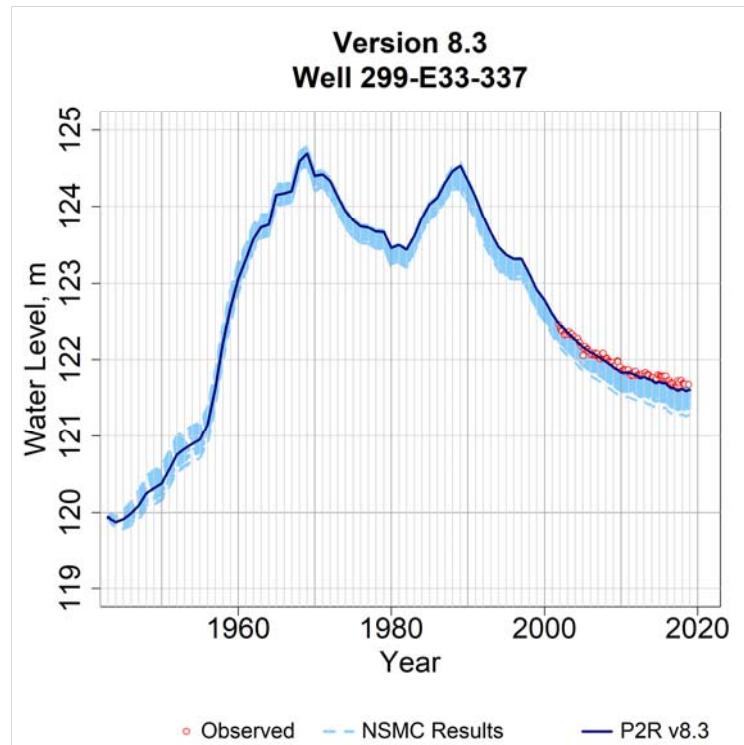


Figure B-218. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-337 for the calibrated model and all model variants from the NSMC.

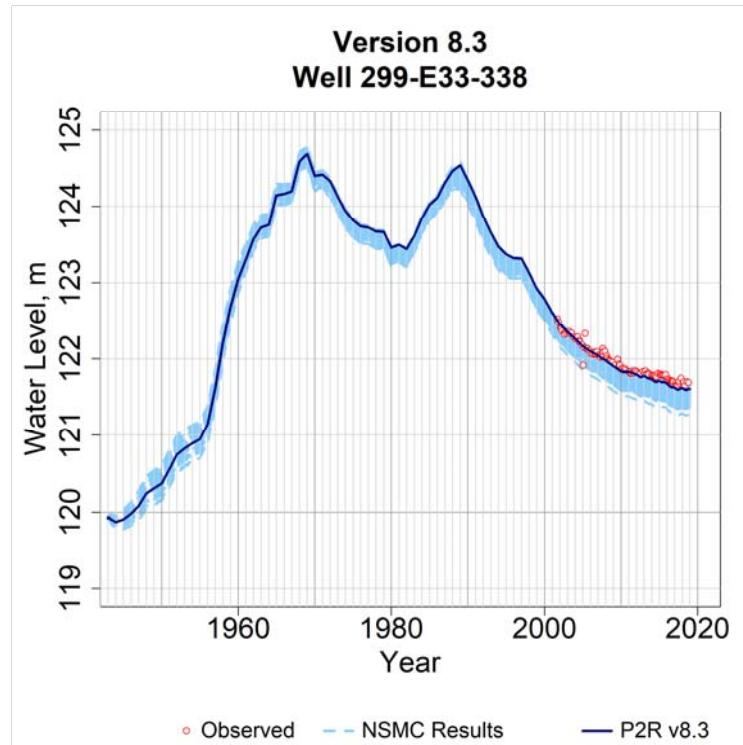


Figure B-219. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-338 for the calibrated model and all model variants from the NSMC.

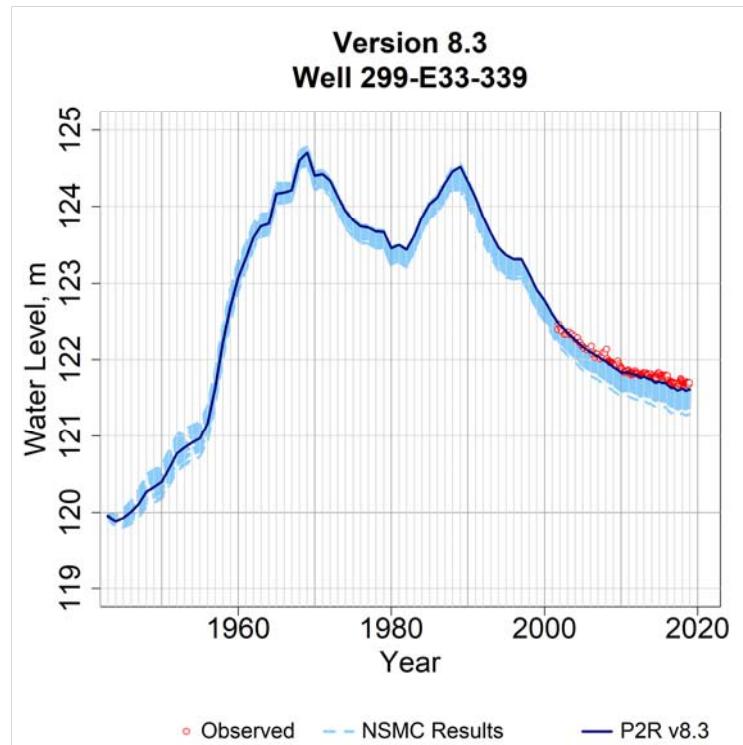


Figure B-220. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-339 for the calibrated model and all model variants from the NSMC.

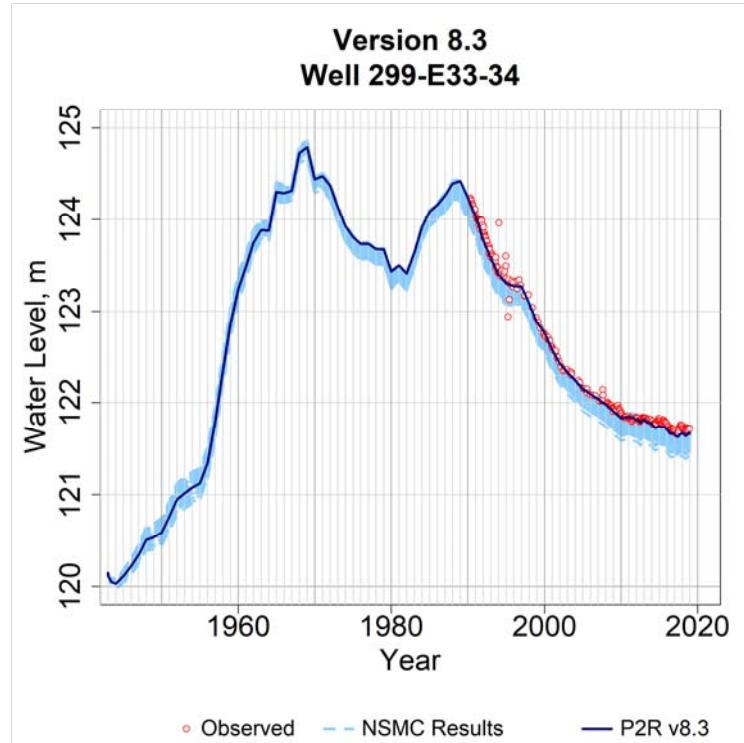


Figure B-221. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-34 for the calibrated model and all model variants from the NSMC.

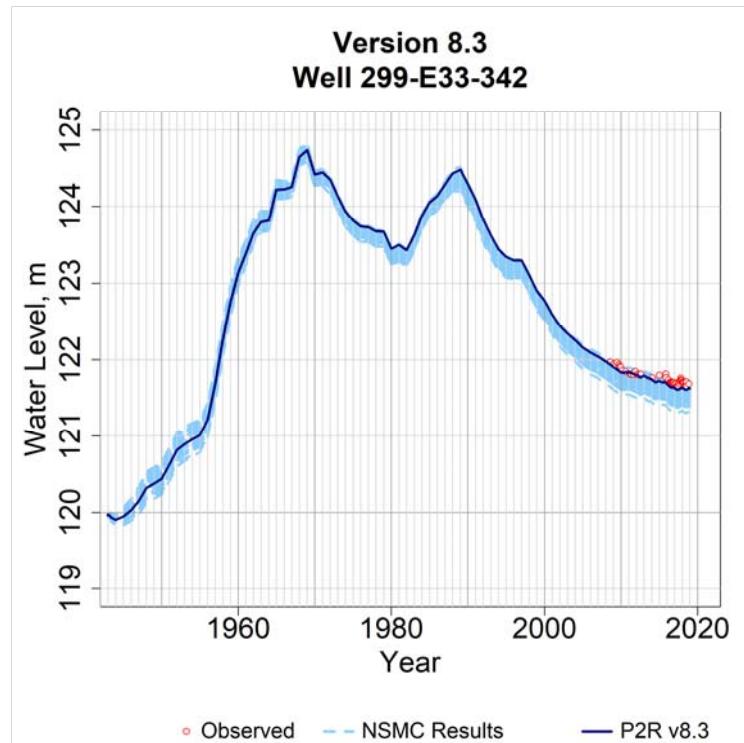


Figure B-222. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-342 for the calibrated model and all model variants from the NSMC.

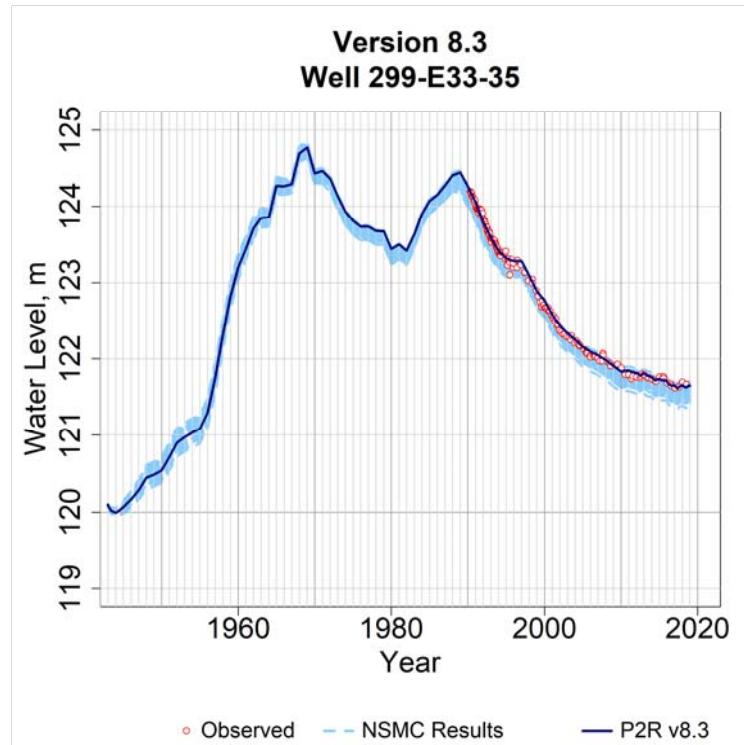


Figure B-223. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-35 for the calibrated model and all model variants from the NSMC.

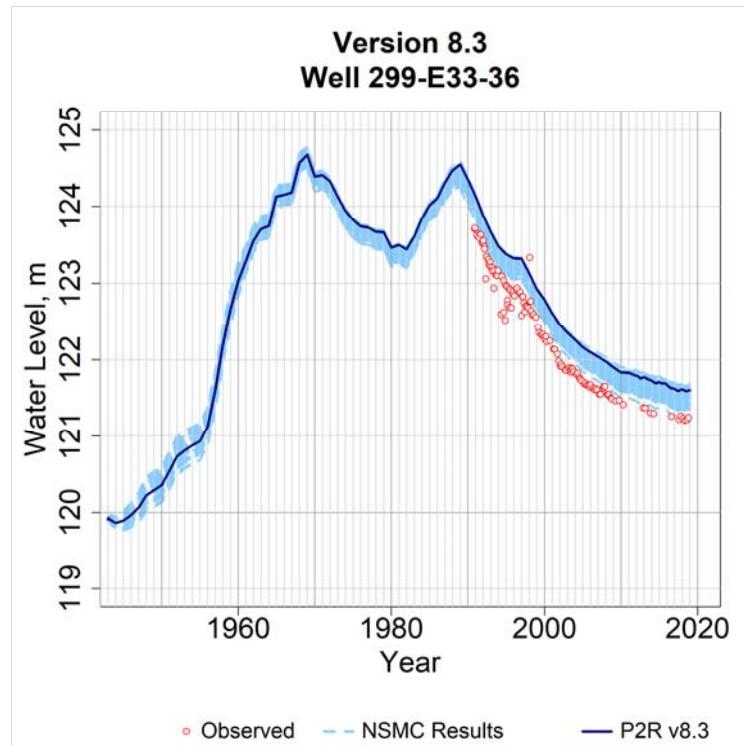


Figure B-224. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-36 for the calibrated model and all model variants from the NSMC.

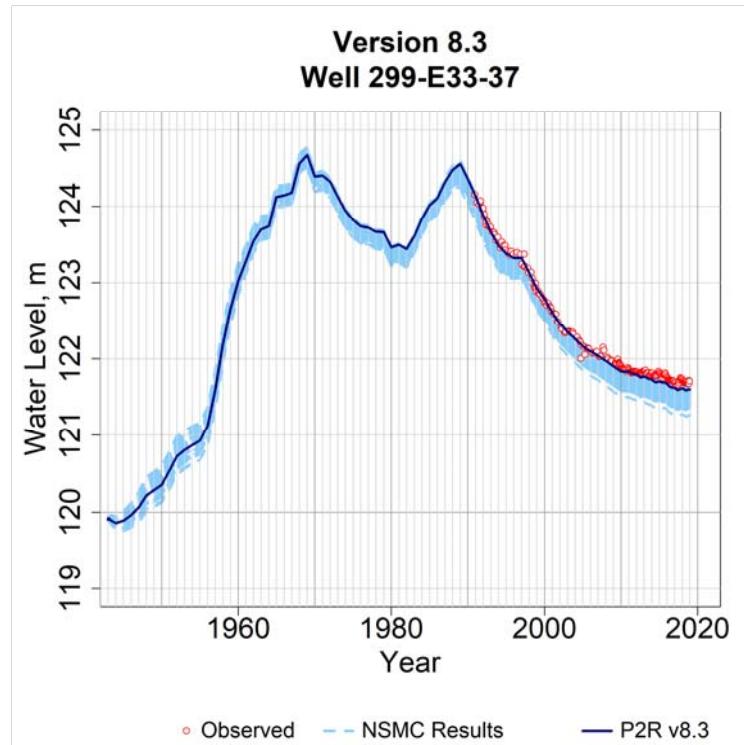


Figure B-225. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-37 for the calibrated model and all model variants from the NSMC.

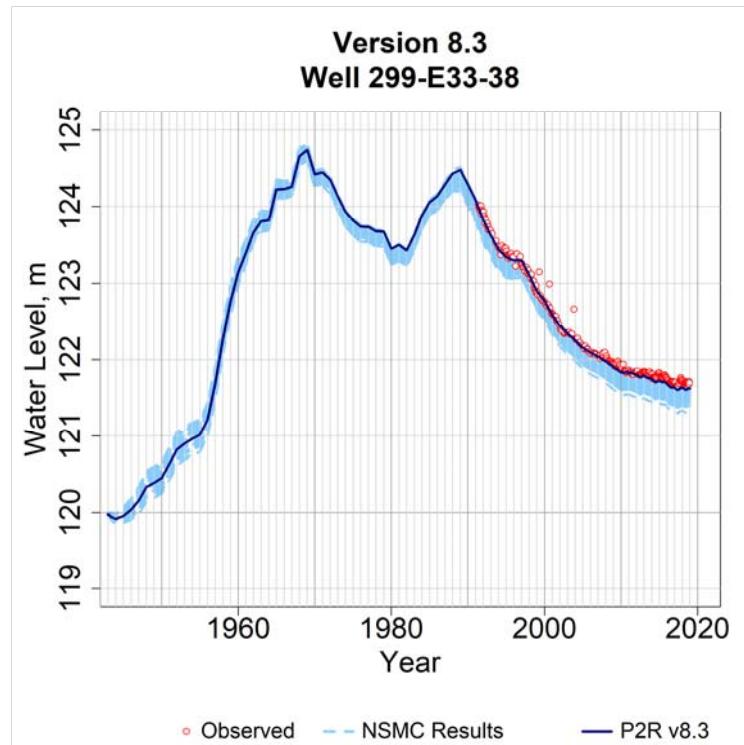


Figure B-226. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-38 for the calibrated model and all model variants from the NSMC.

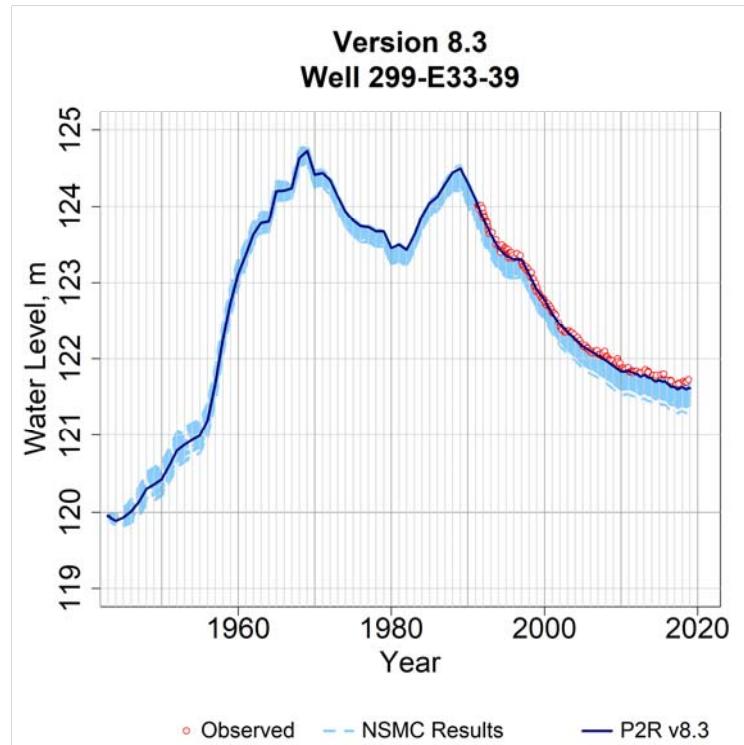


Figure B-227. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-39 for the calibrated model and all model variants from the NSMC.

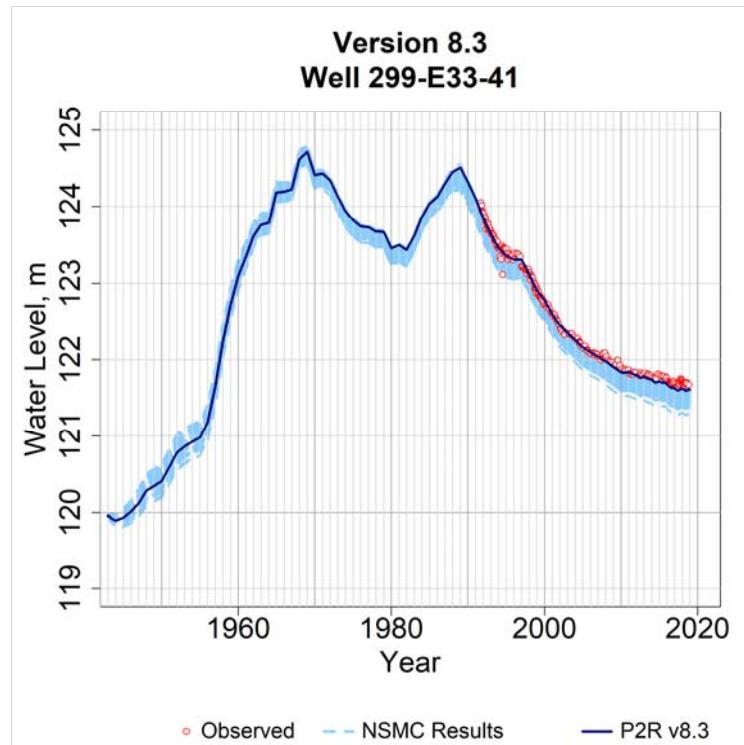


Figure B-228. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-41 for the calibrated model and all model variants from the NSMC.

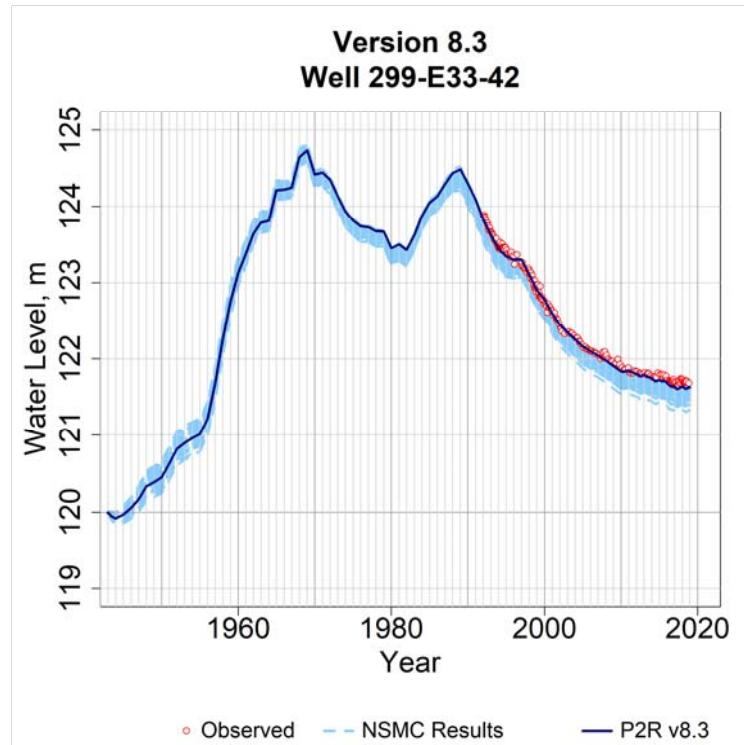


Figure B-229. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-42 for the calibrated model and all model variants from the NSMC.

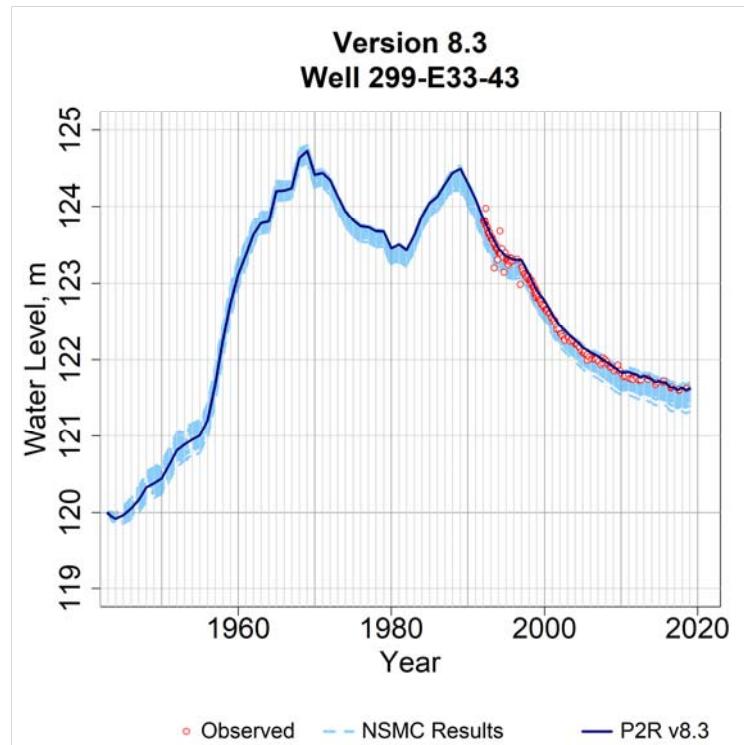


Figure B-230. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-43 for the calibrated model and all model variants from the NSMC.

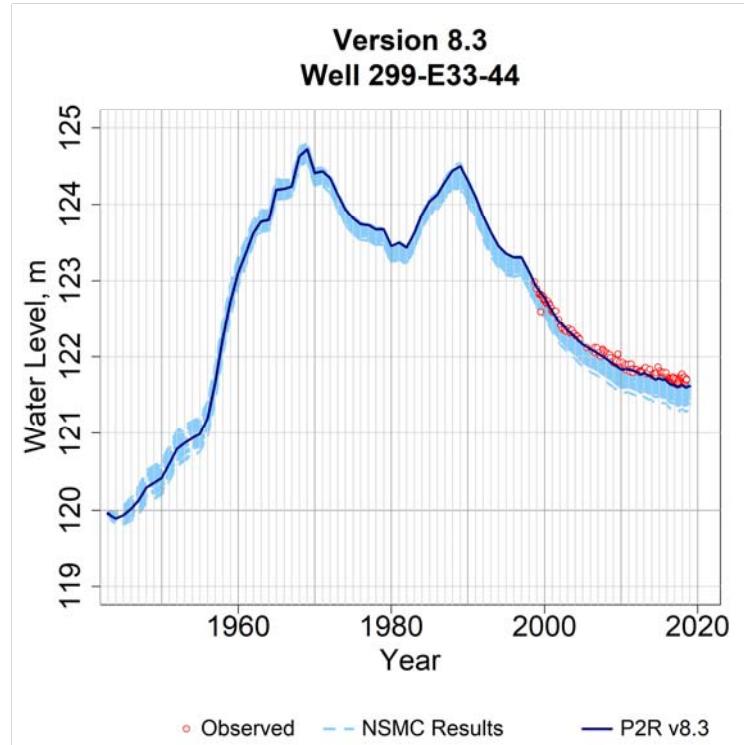


Figure B-231. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-44 for the calibrated model and all model variants from the NSMC.

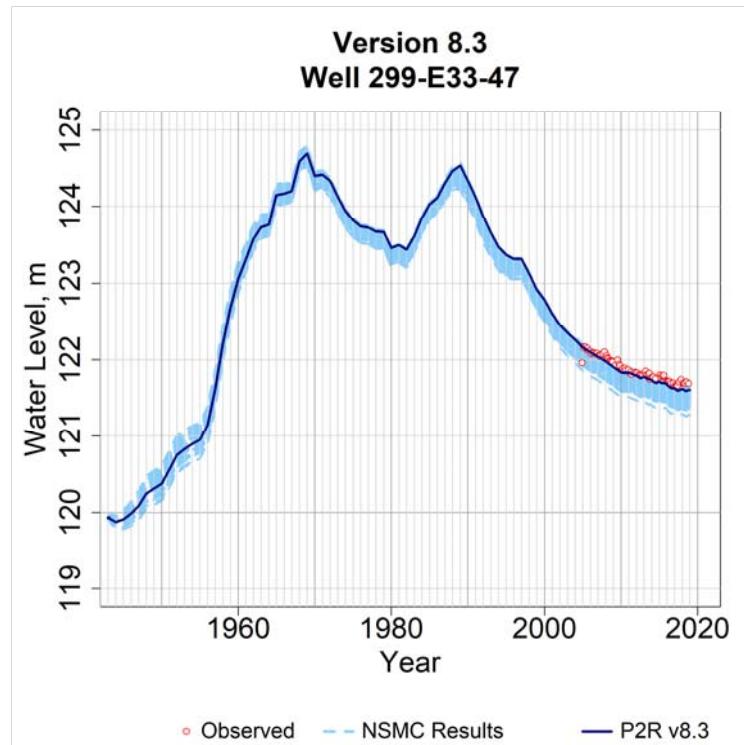


Figure B-232. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-47 for the calibrated model and all model variants from the NSMC.

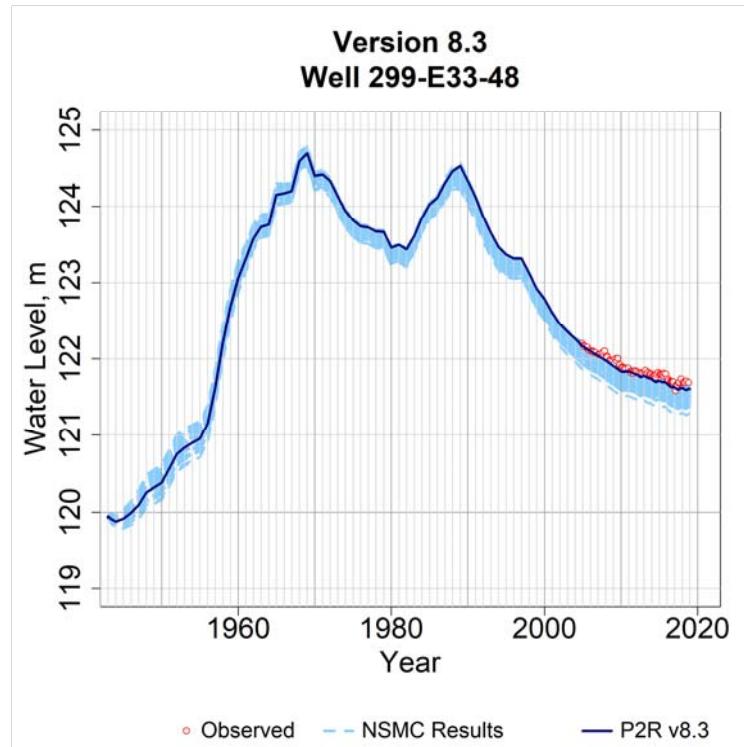


Figure B-233. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-48 for the calibrated model and all model variants from the NSMC.

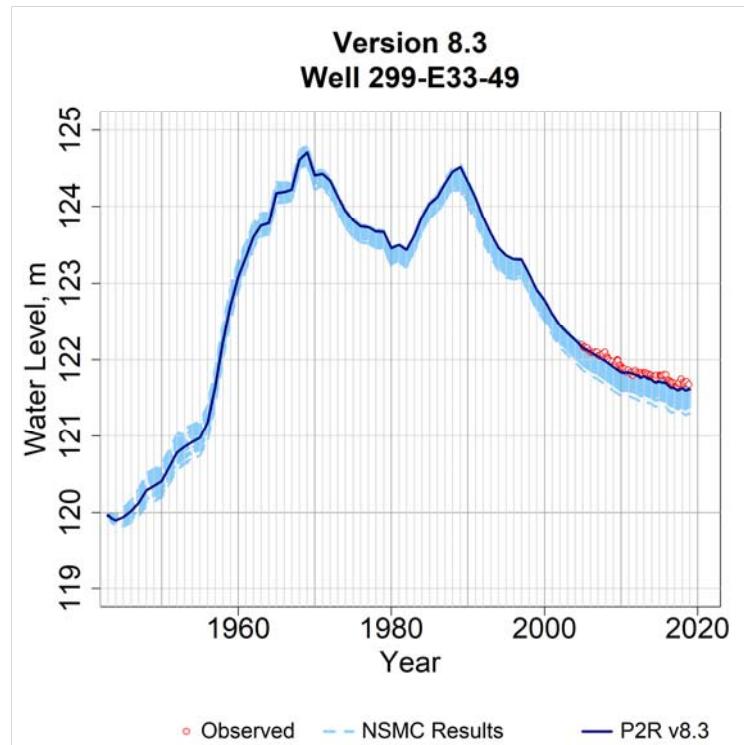


Figure B-234. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-49 for the calibrated model and all model variants from the NSMC.

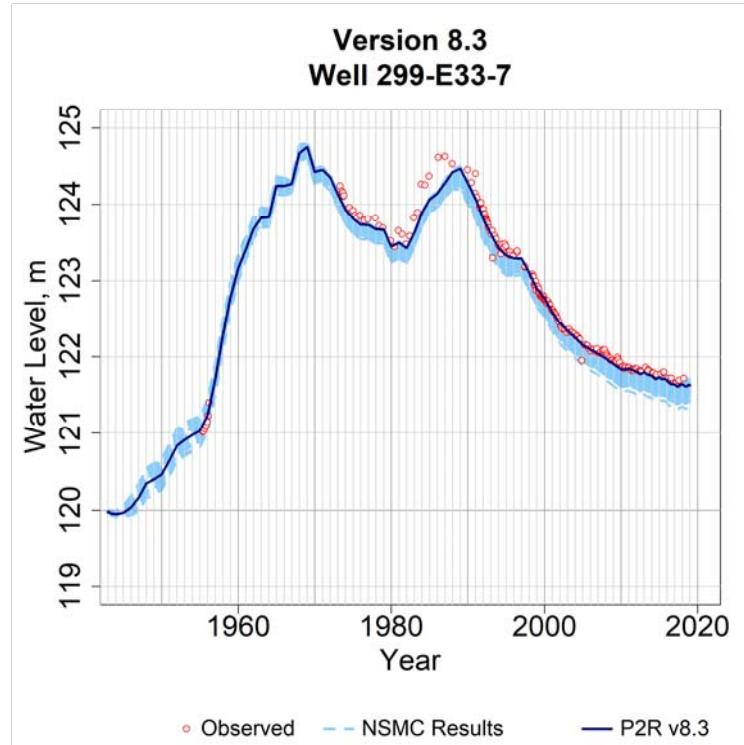


Figure B-235. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-7 for the calibrated model and all model variants from the NSMC.

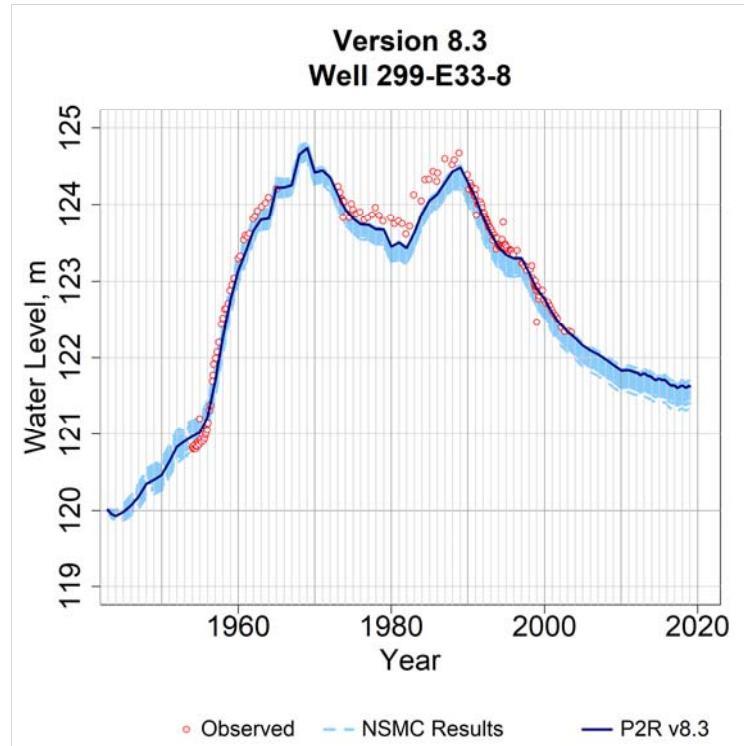


Figure B-236. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E33-8 for the calibrated model and all model variants from the NSMC.

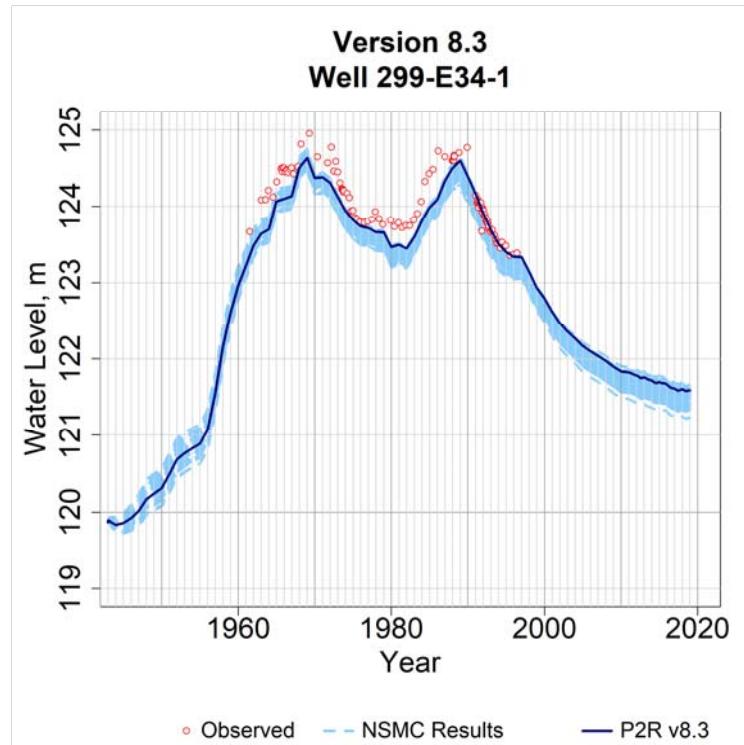


Figure B-237. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-1 for the calibrated model and all model variants from the NSMC.

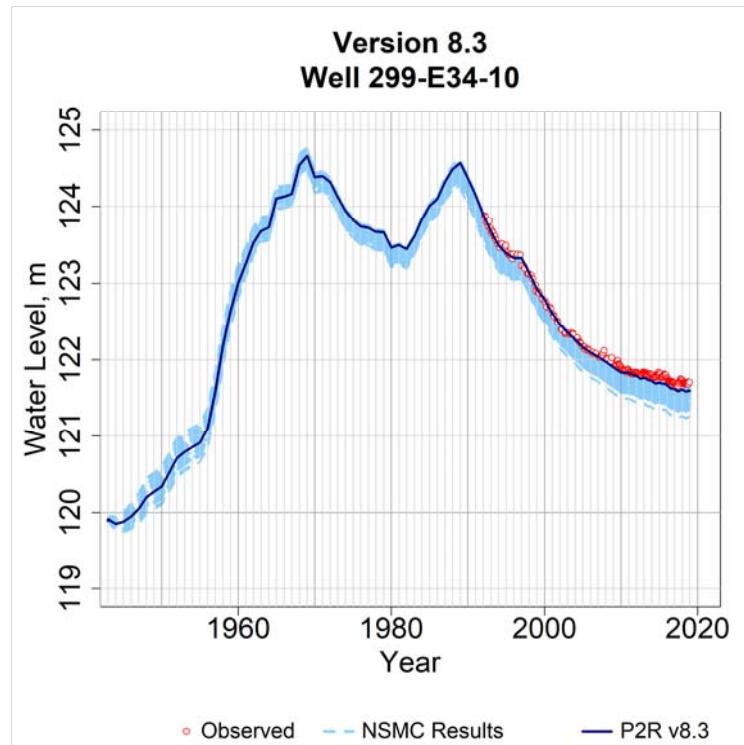


Figure B-238. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-10 for the calibrated model and all model variants from the NSMC.

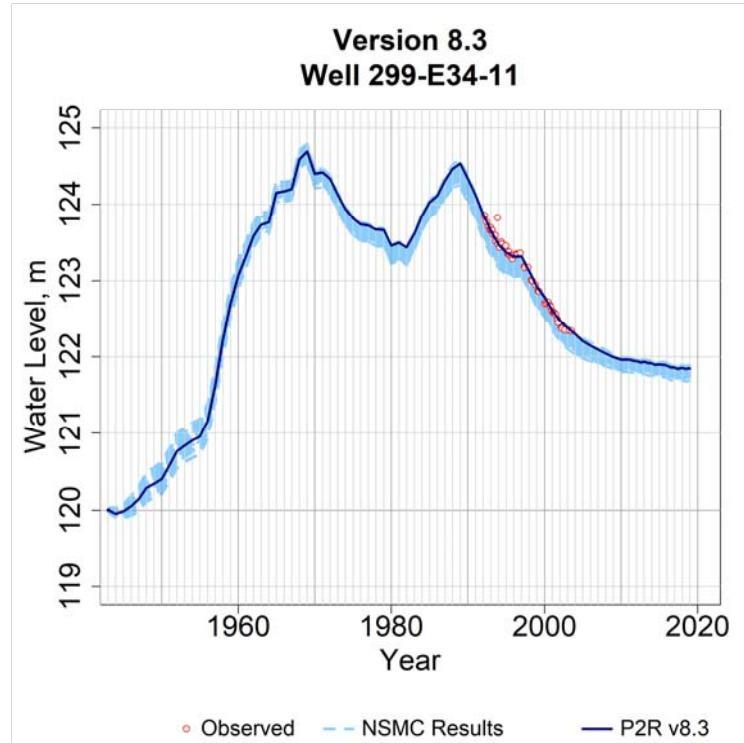


Figure B-239. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-11 for the calibrated model and all model variants from the NSMC.

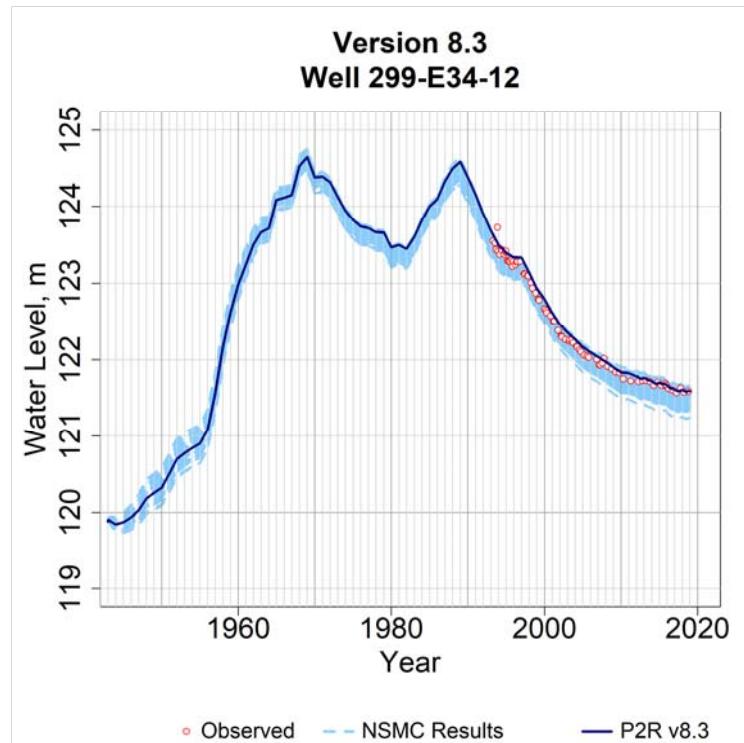


Figure B-240. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-12 for the calibrated model and all model variants from the NSMC.

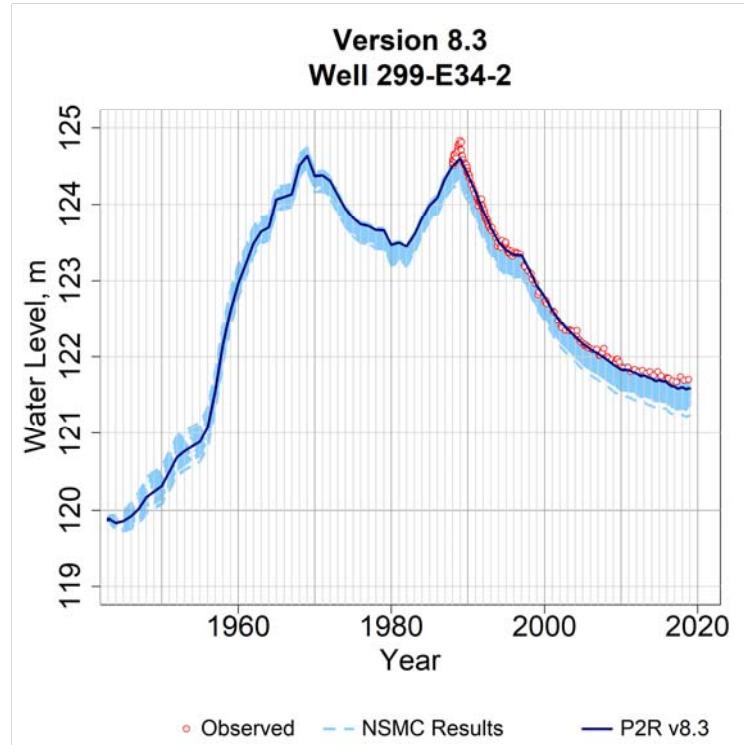


Figure B-241. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-2 for the calibrated model and all model variants from the NSMC.

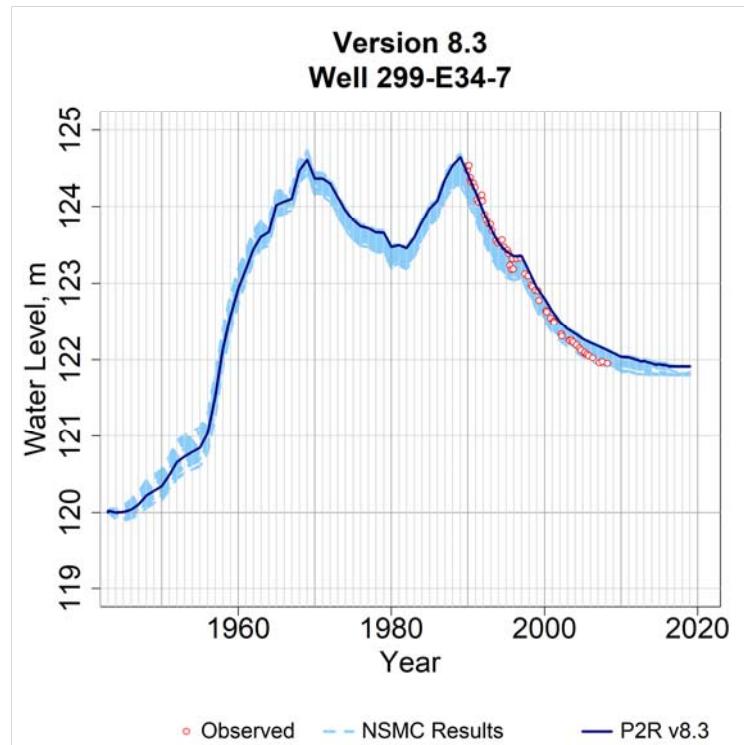


Figure B-242. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-7 for the calibrated model and all model variants from the NSMC.

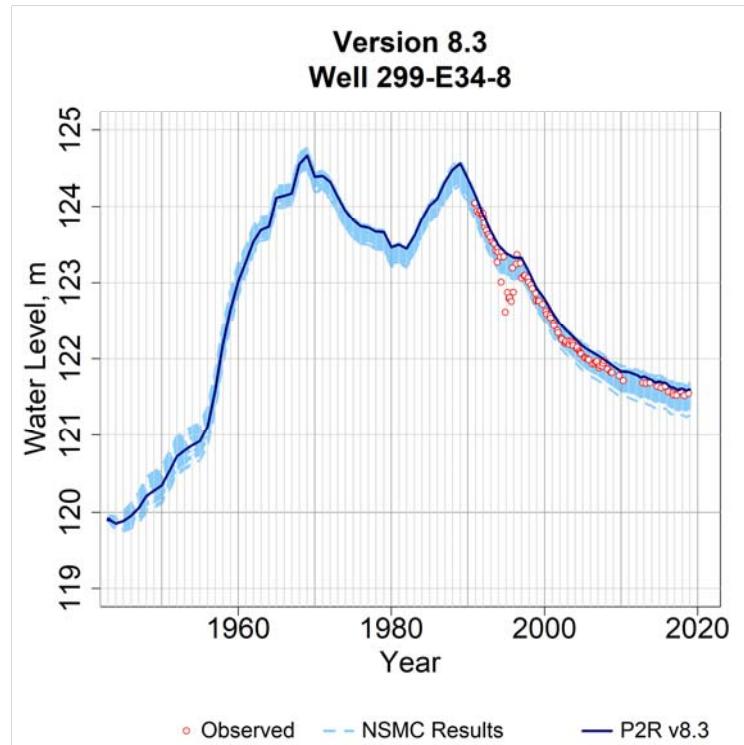


Figure B-243. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-8 for the calibrated model and all model variants from the NSMC.

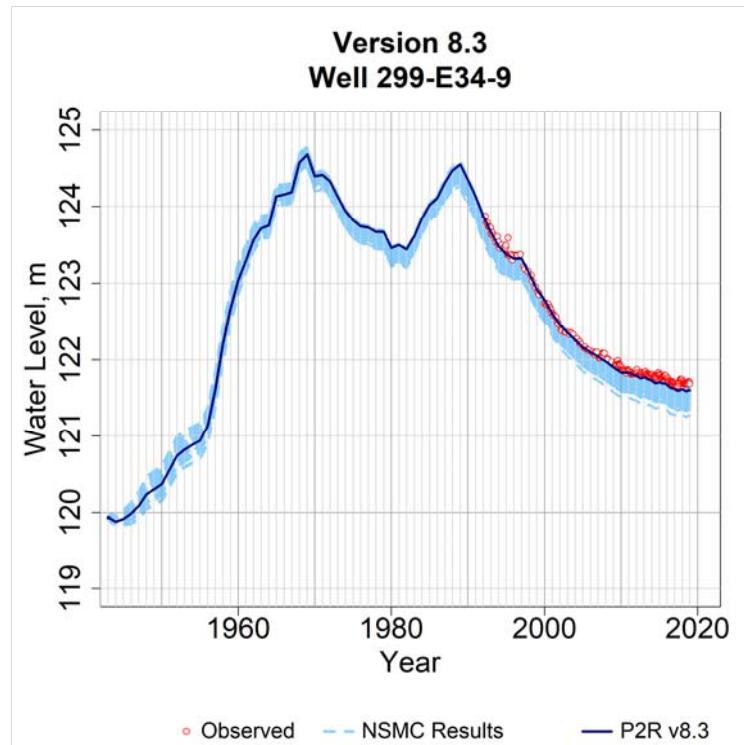


Figure B-244. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E34-9 for the calibrated model and all model variants from the NSMC.

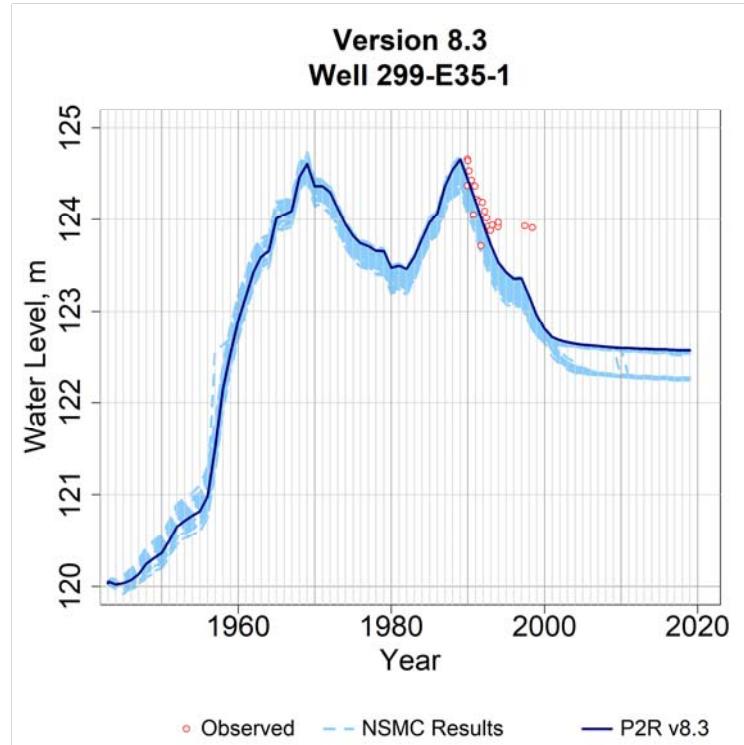


Figure B-245. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E35-1 for the calibrated model and all model variants from the NSMC.

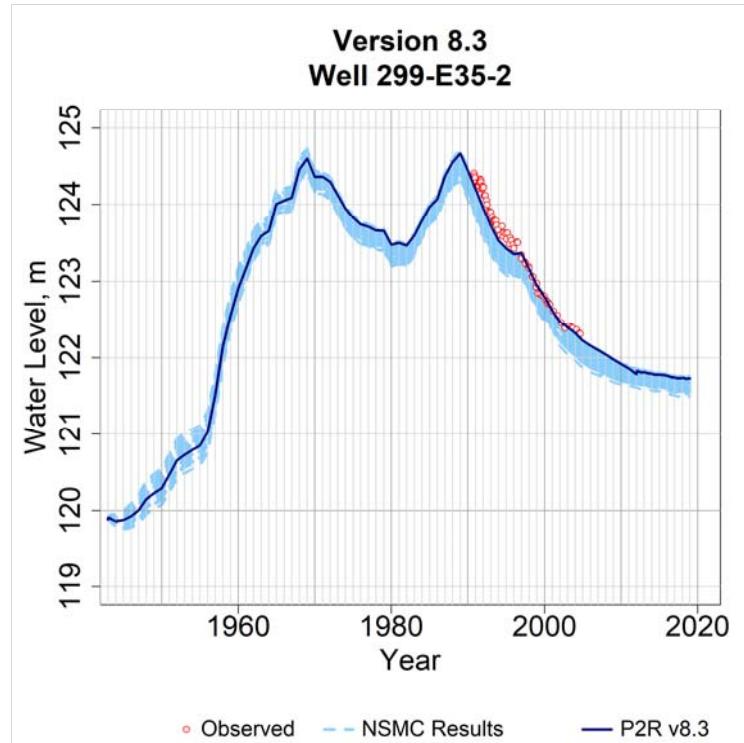


Figure B-246. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-E35-2 for the calibrated model and all model variants from the NSMC.

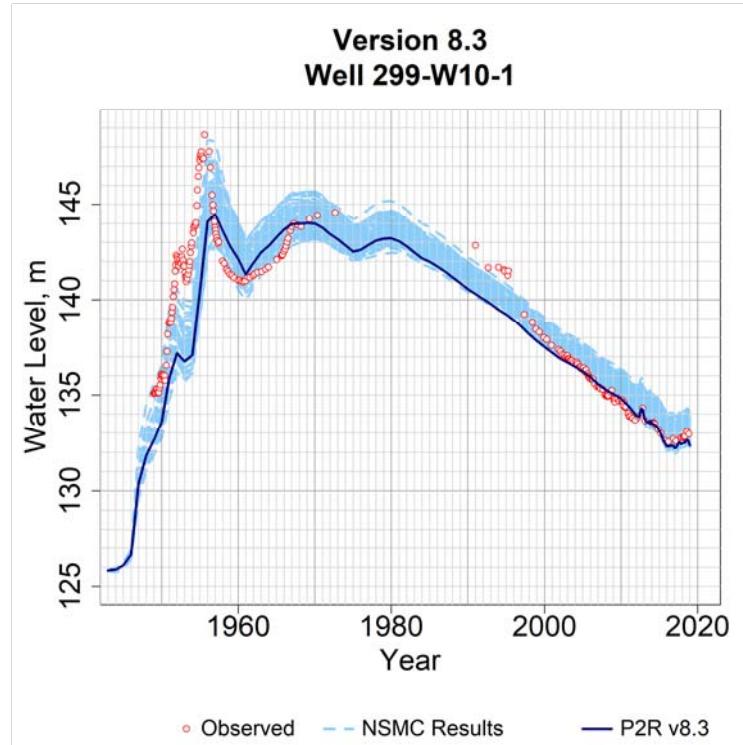


Figure B-247. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-1 for the calibrated model and all model variants from the NSMC.

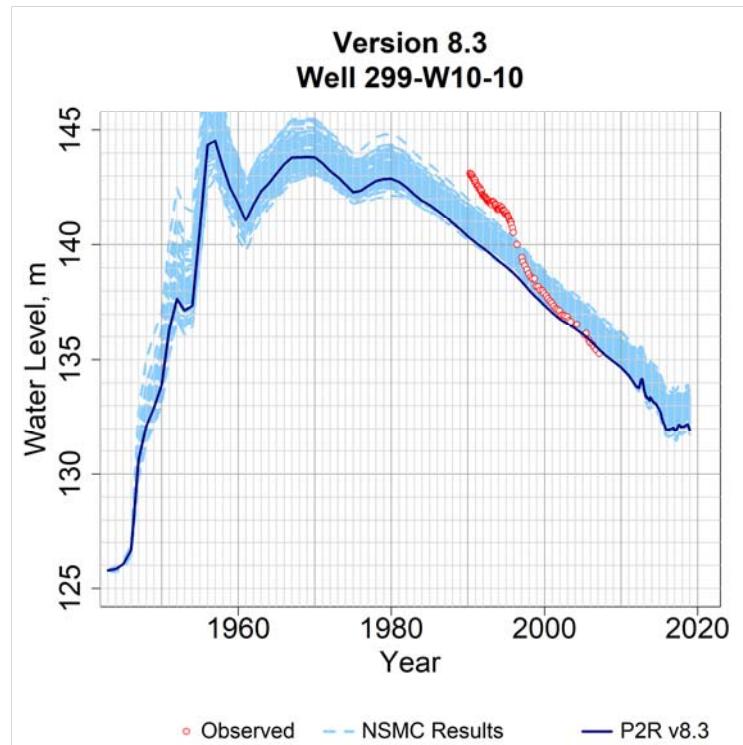


Figure B-248. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-10 for the calibrated model and all model variants from the NSMC.

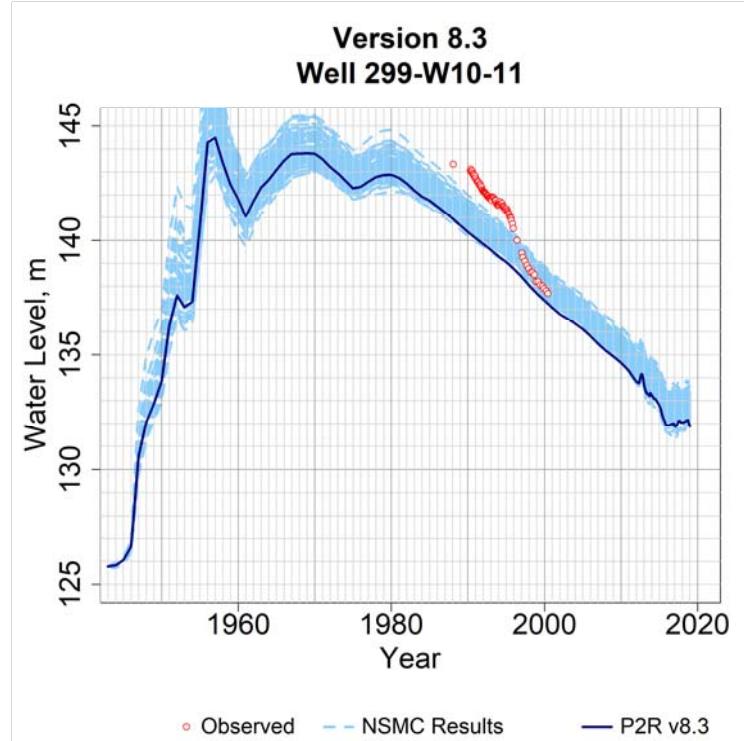


Figure B-249. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-11 for the calibrated model and all model variants from the NSMC.

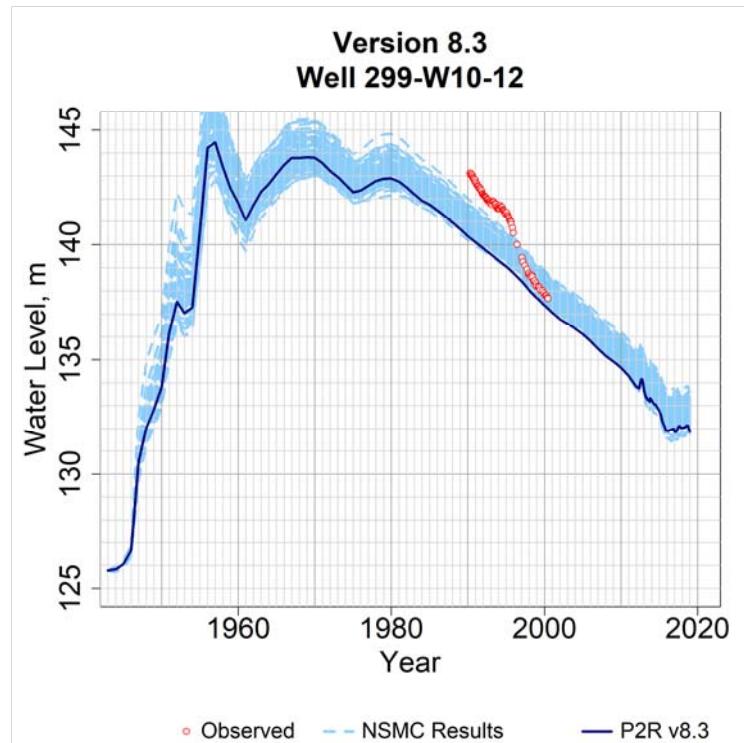


Figure B-250. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-12 for the calibrated model and all model variants from the NSMC.

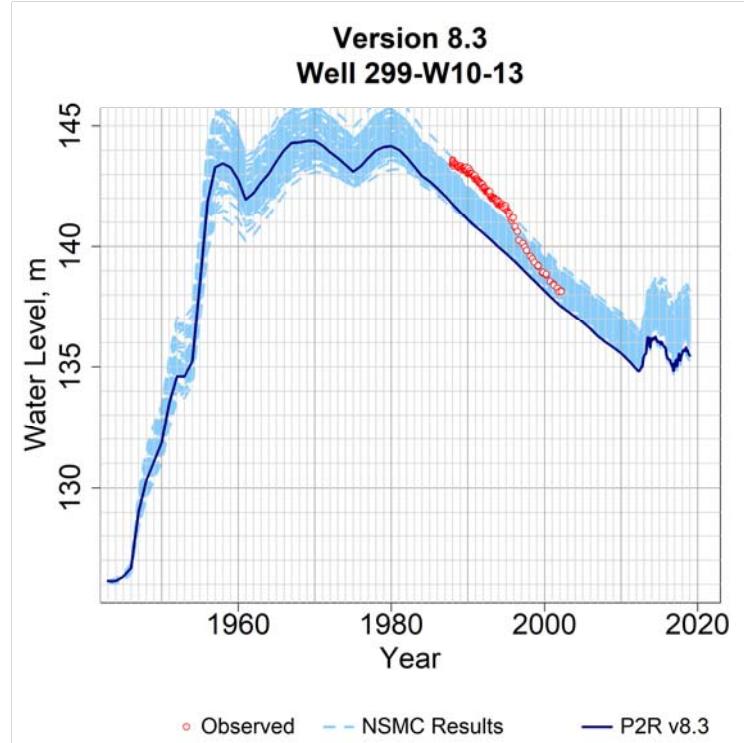


Figure B-251. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-13 for the calibrated model and all model variants from the NSMC.

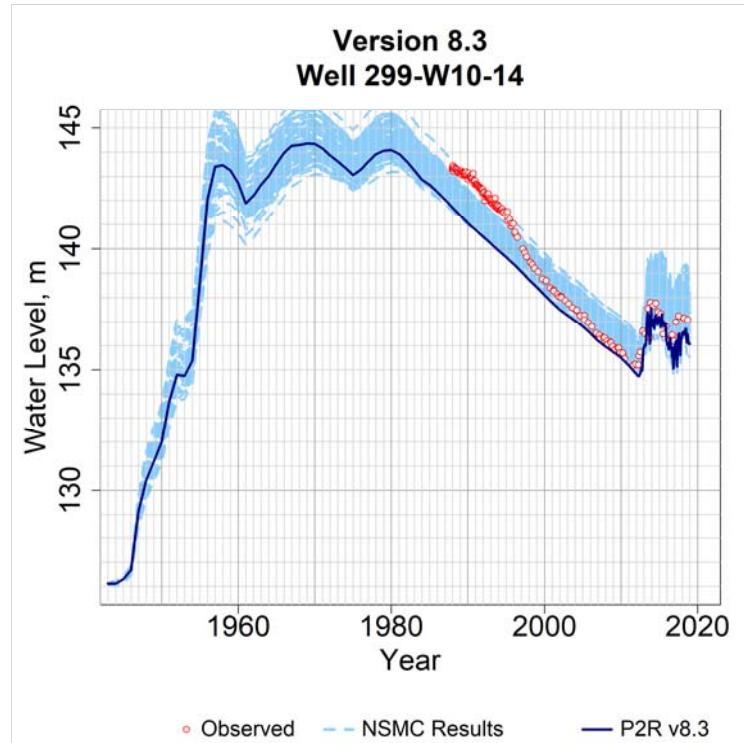


Figure B-252. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-14 for the calibrated model and all model variants from the NSMC.

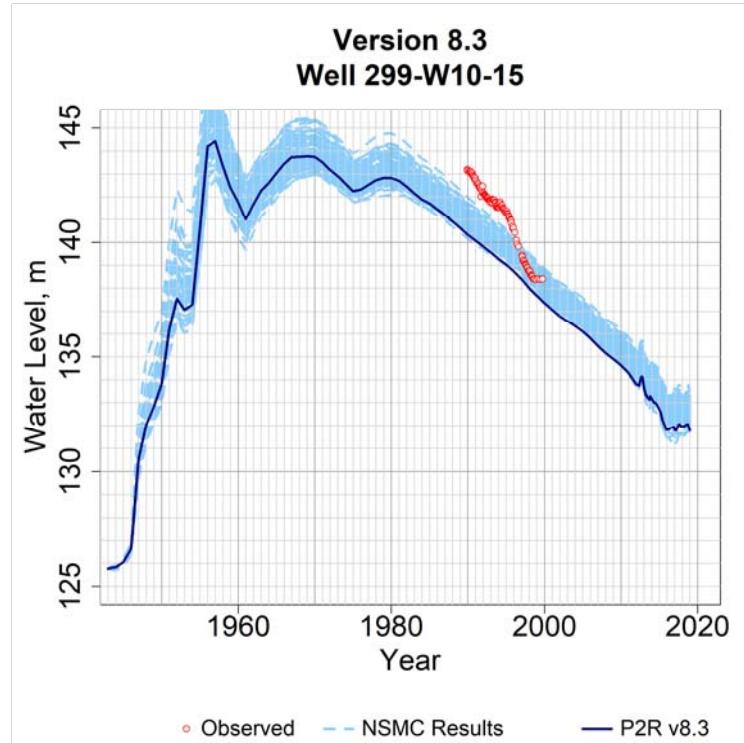


Figure B-253. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-15 for the calibrated model and all model variants from the NSMC.

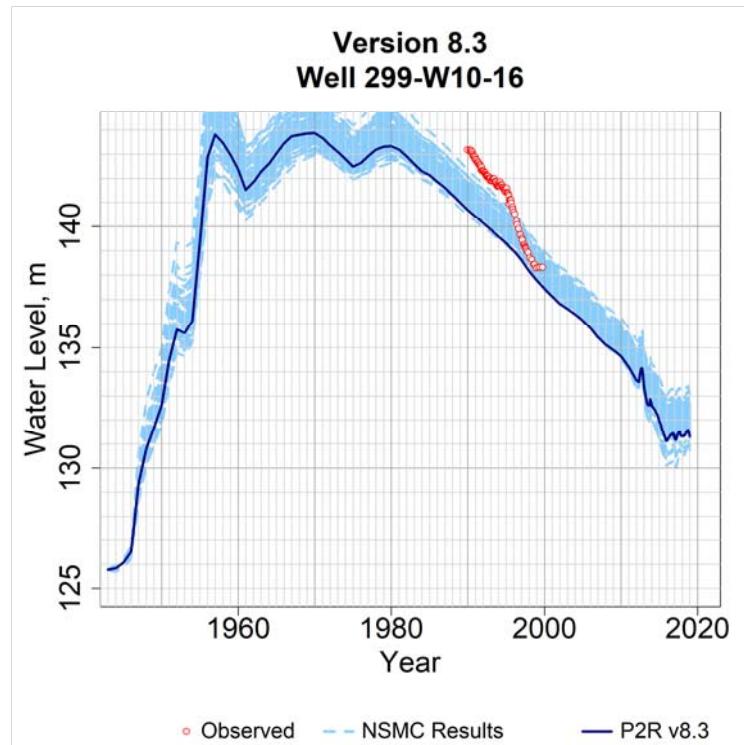


Figure B-254. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-16 for the calibrated model and all model variants from the NSMC.

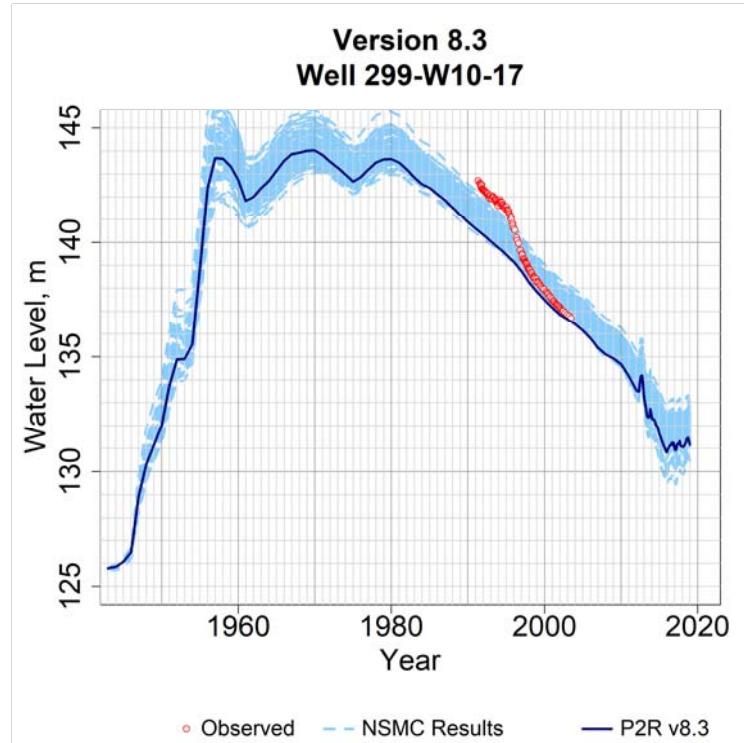


Figure B-255. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-17 for the calibrated model and all model variants from the NSMC.

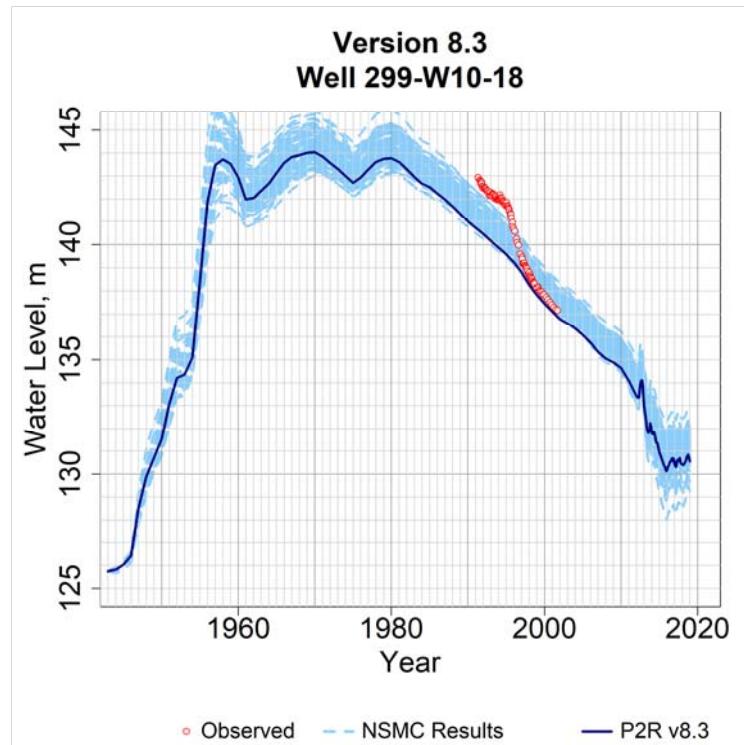


Figure B-256. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-18 for the calibrated model and all model variants from the NSMC.

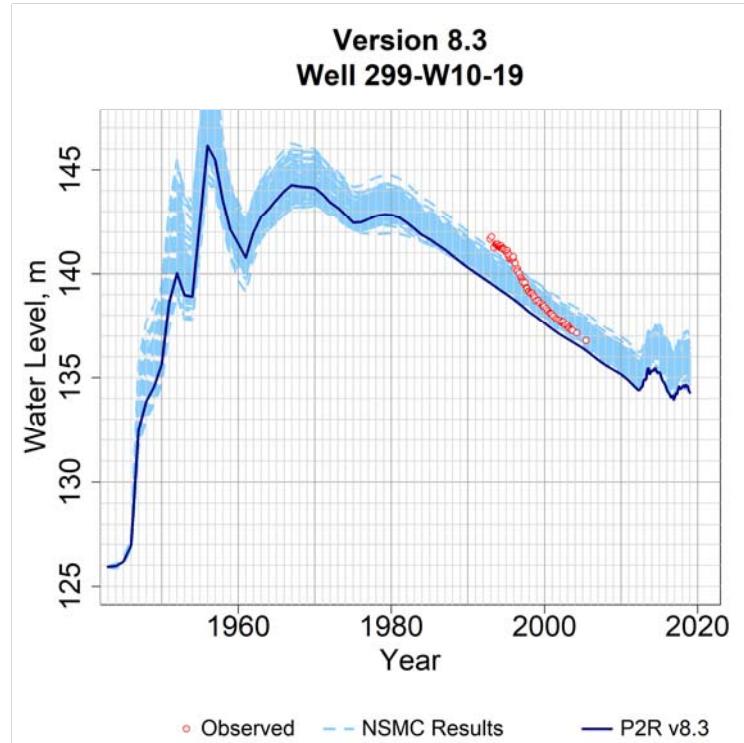


Figure B-257. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-19 for the calibrated model and all model variants from the NSMC.

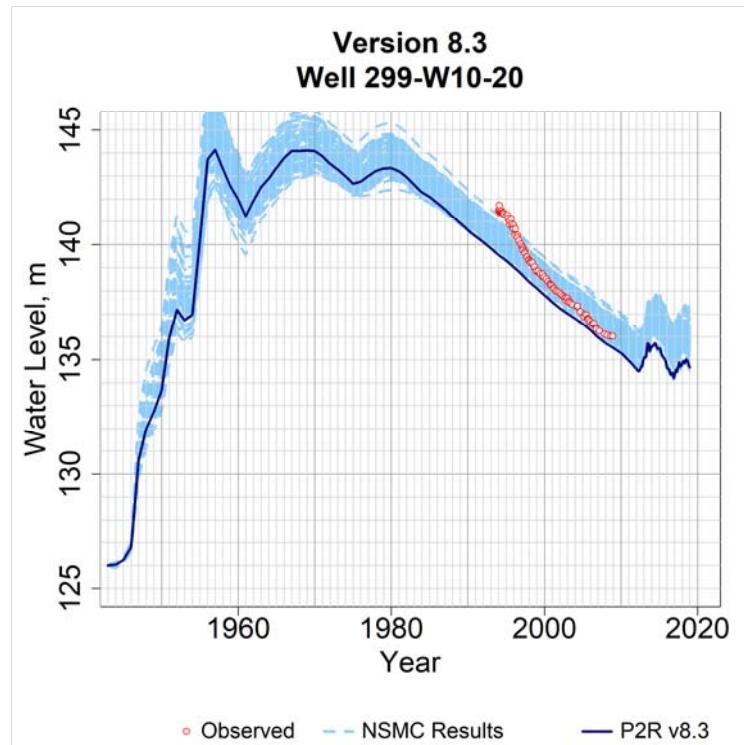


Figure B-258. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-20 for the calibrated model and all model variants from the NSMC.

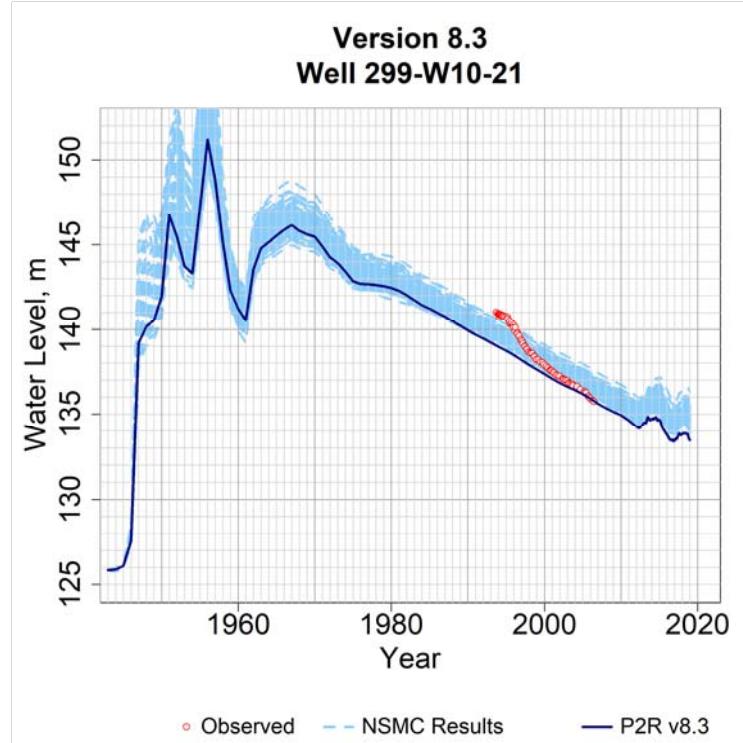


Figure B-259. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-21 for the calibrated model and all model variants from the NSMC.

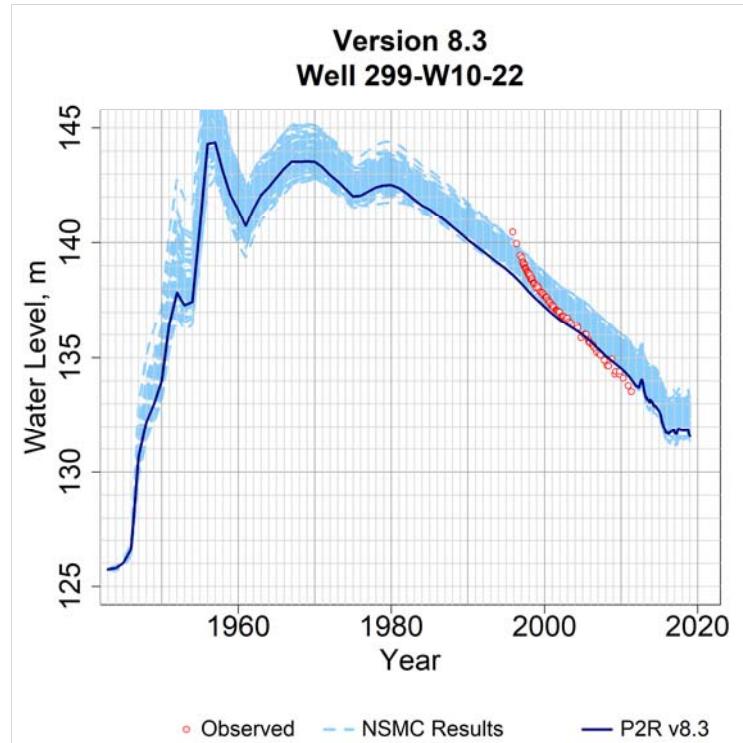


Figure B-260. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-22 for the calibrated model and all model variants from the NSMC.

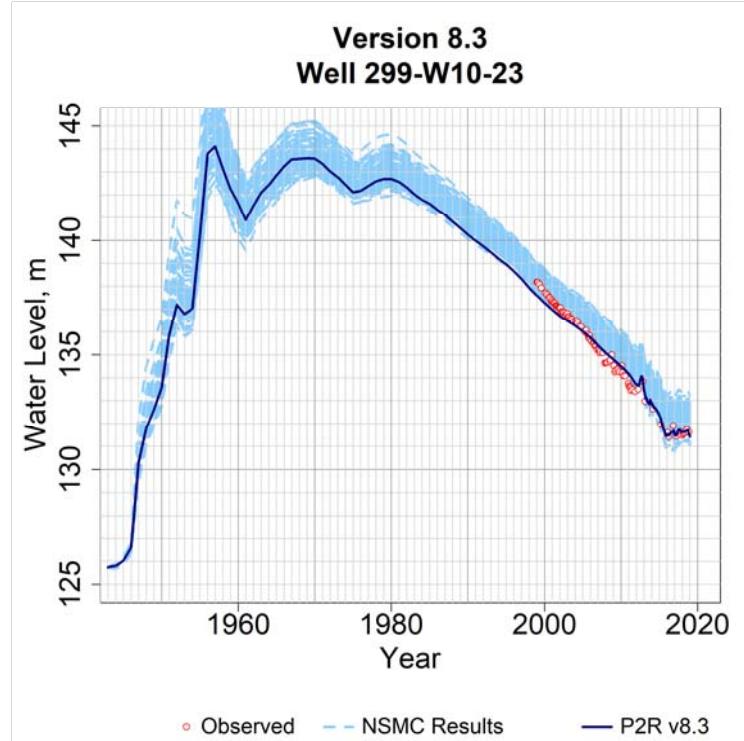


Figure B-261. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-23 for the calibrated model and all model variants from the NSMC.

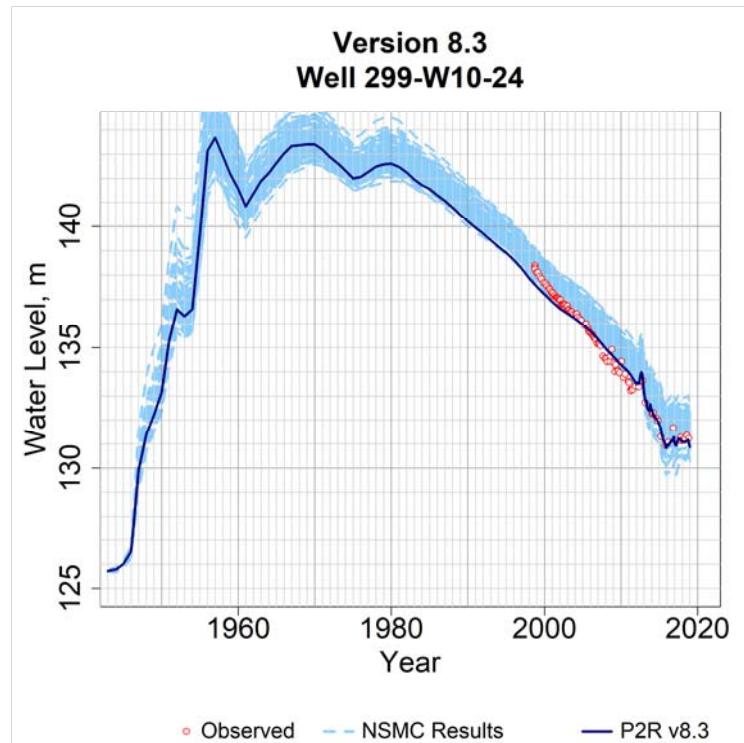


Figure B-262. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-24 for the calibrated model and all model variants from the NSMC.

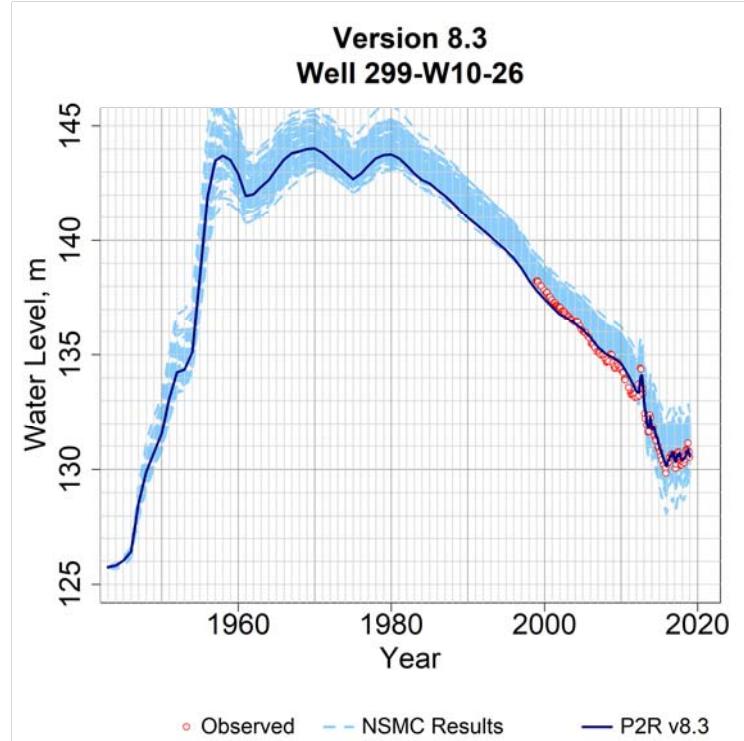


Figure B-263. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-26 for the calibrated model and all model variants from the NSMC.

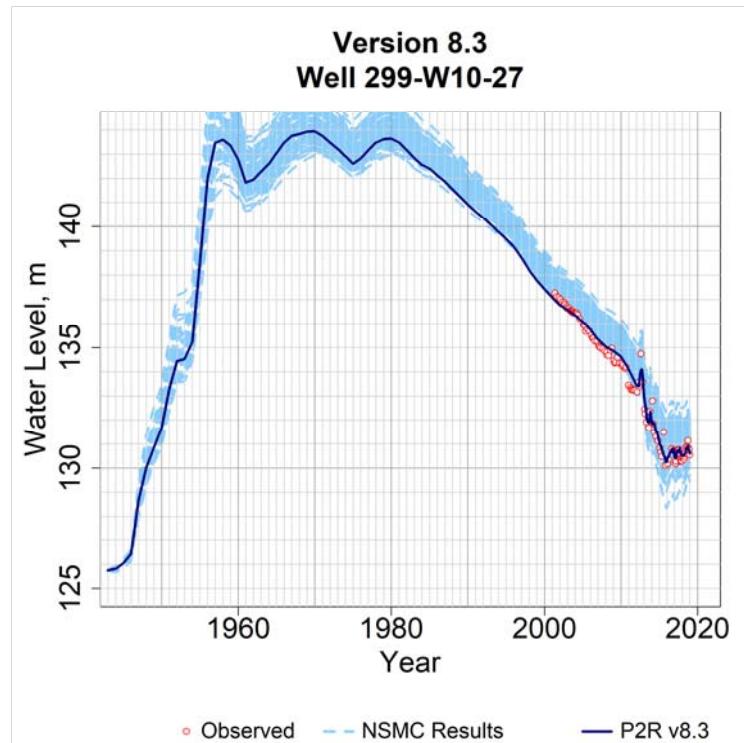


Figure B-264. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-27 for the calibrated model and all model variants from the NSMC.

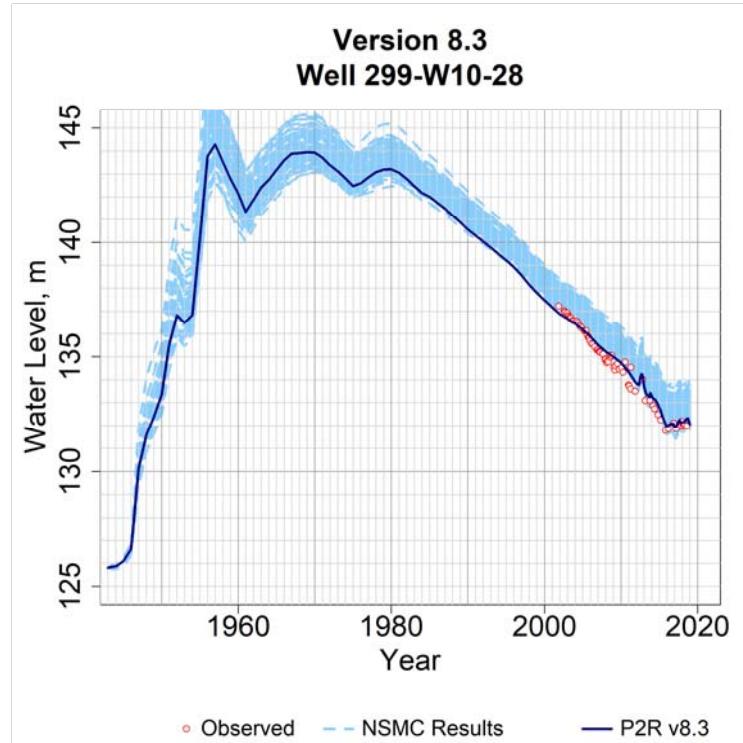


Figure B-265. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-28 for the calibrated model and all model variants from the NSMC.

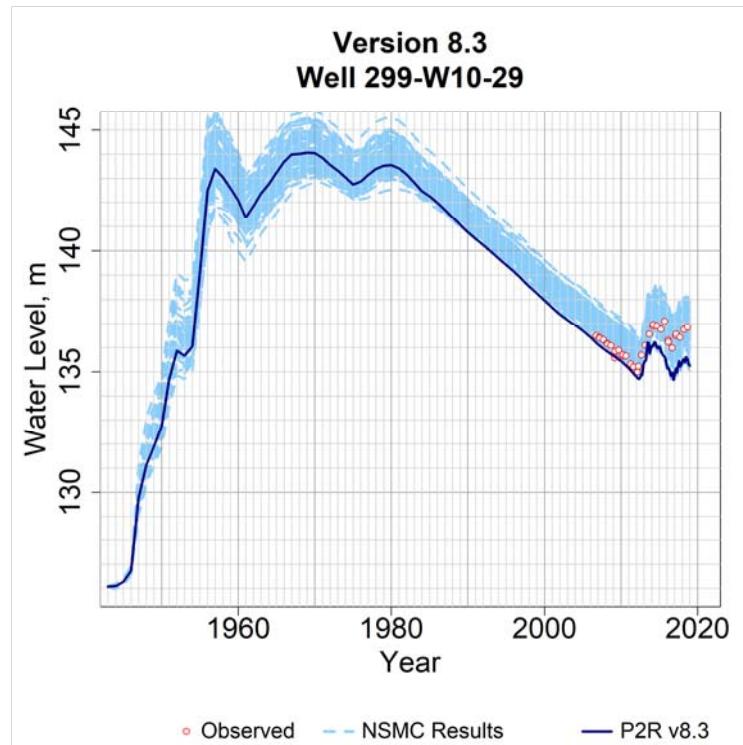


Figure B-266. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-29 for the calibrated model and all model variants from the NSMC.

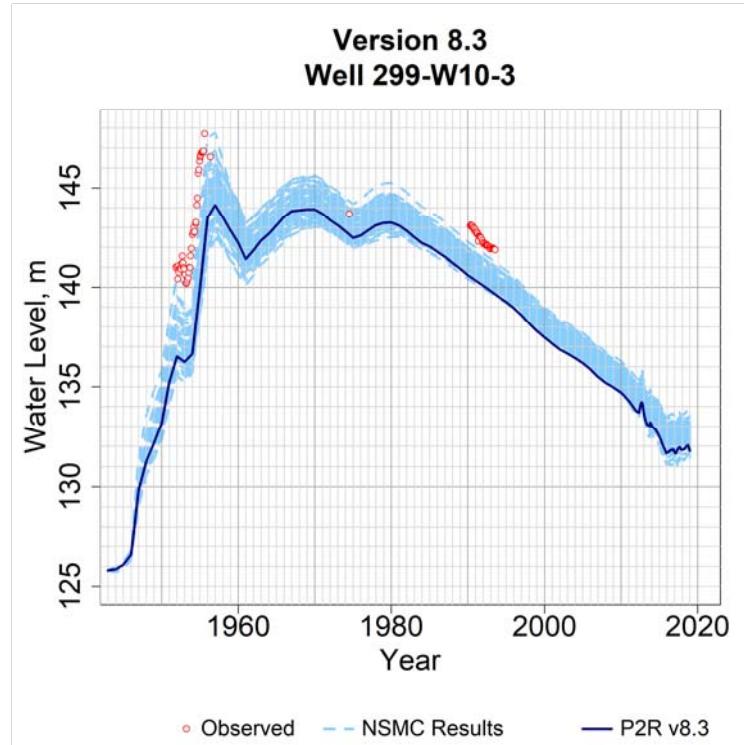


Figure B-267. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-3 for the calibrated model and all model variants from the NSMC.

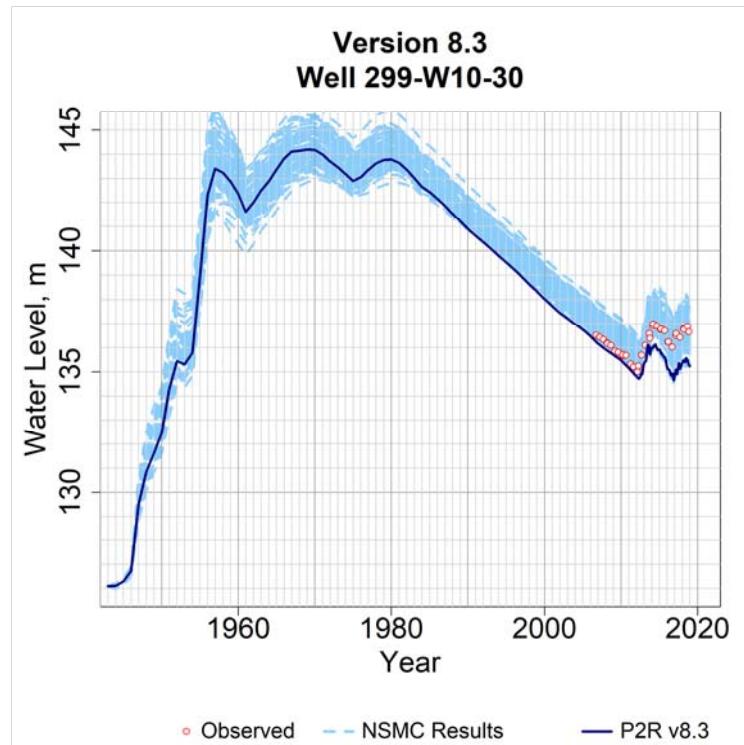


Figure B-268. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-30 for the calibrated model and all model variants from the NSMC.

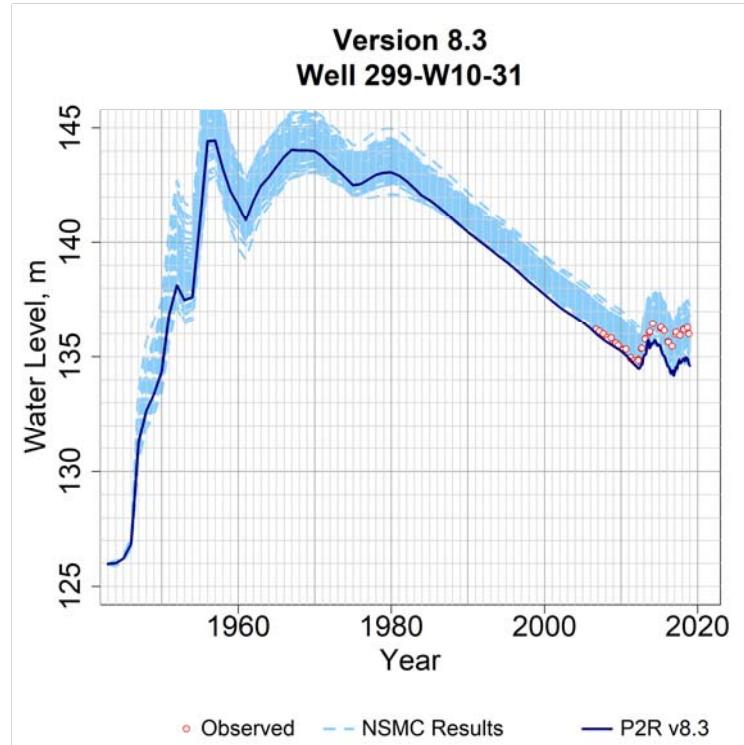


Figure B-269. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-31 for the calibrated model and all model variants from the NSMC.

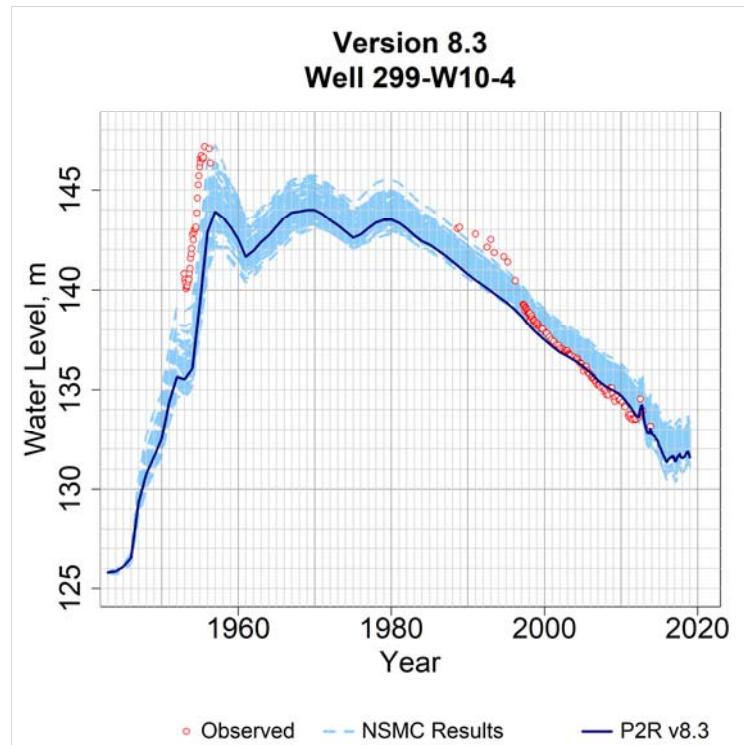


Figure B-270. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-4 for the calibrated model and all model variants from the NSMC.

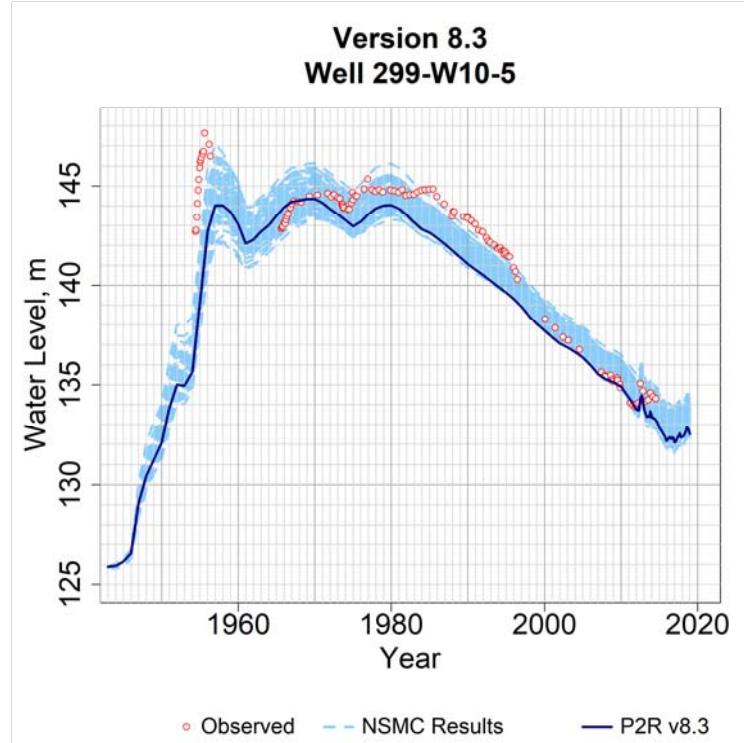


Figure B-271. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-5 for the calibrated model and all model variants from the NSMC.

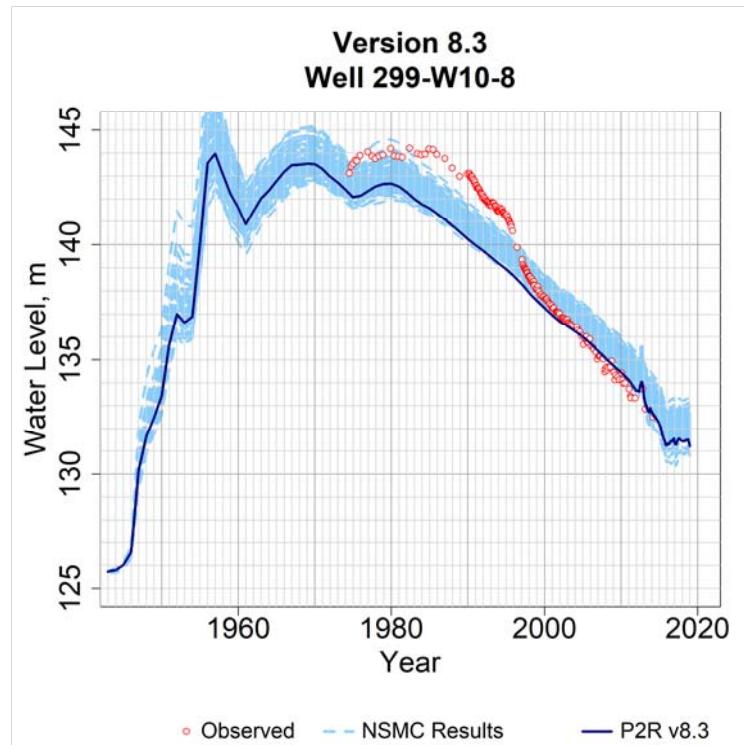


Figure B-272. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-8 for the calibrated model and all model variants from the NSMC.

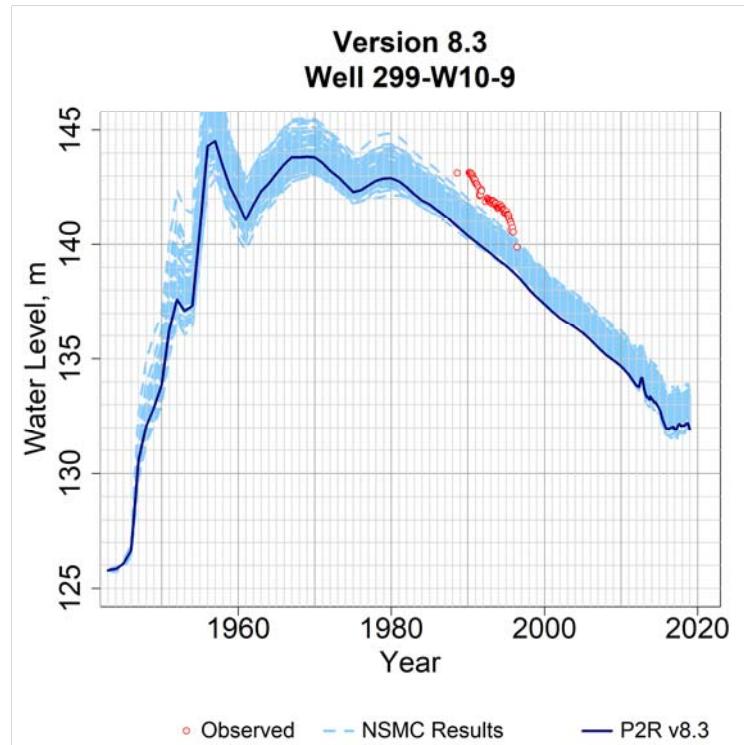


Figure B-273. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W10-9 for the calibrated model and all model variants from the NSMC.

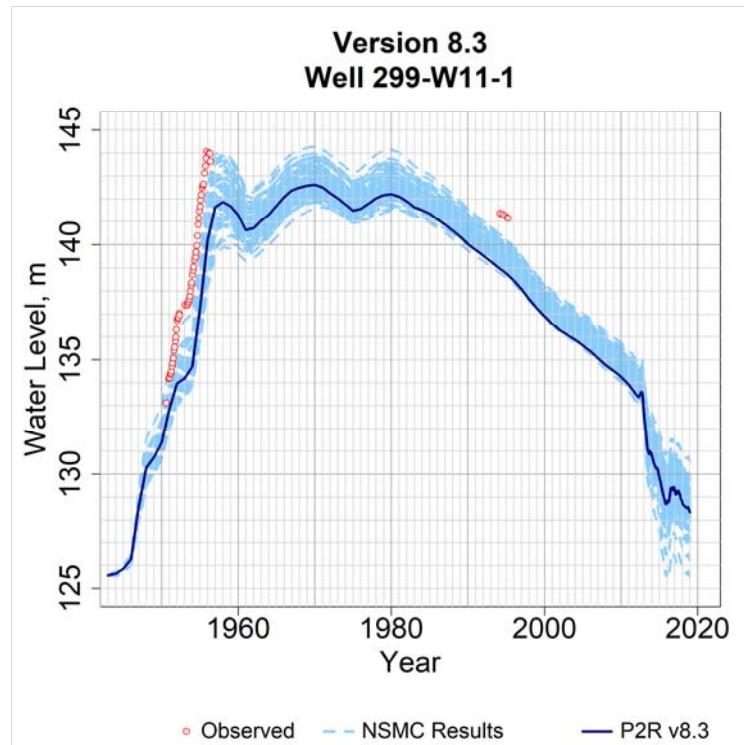


Figure B-274. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-1 for the calibrated model and all model variants from the NSMC.

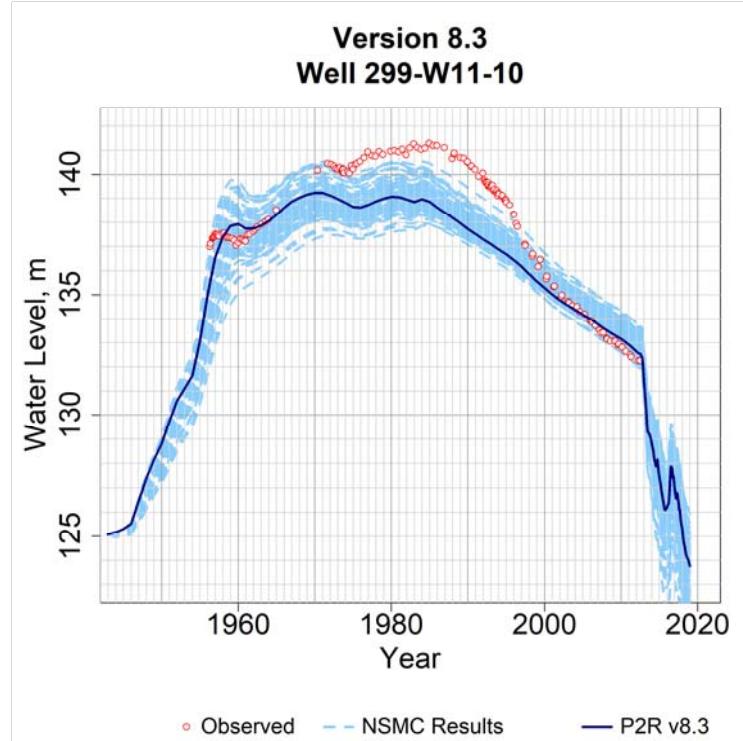


Figure B-275. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-10 for the calibrated model and all model variants from the NSMC.

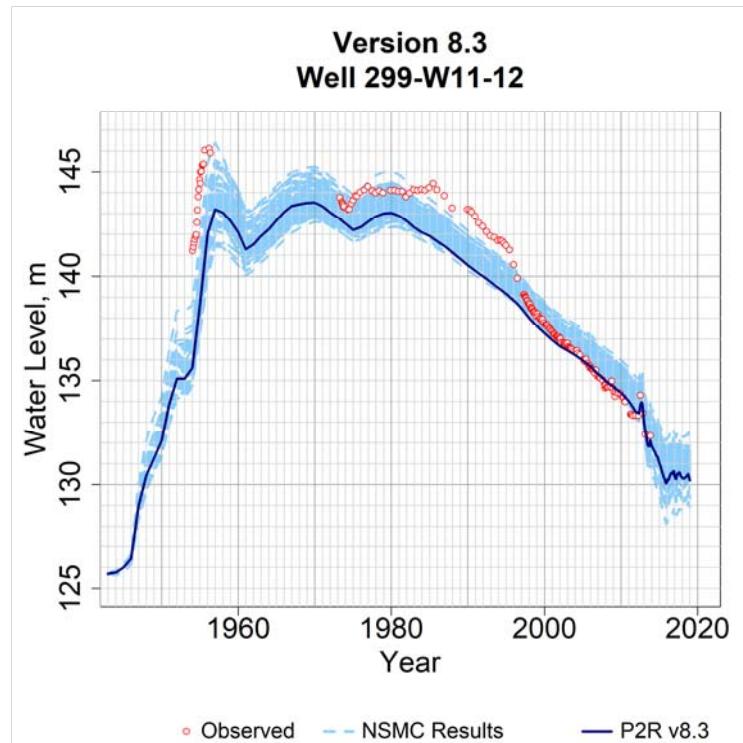


Figure B-276. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-12 for the calibrated model and all model variants from the NSMC.

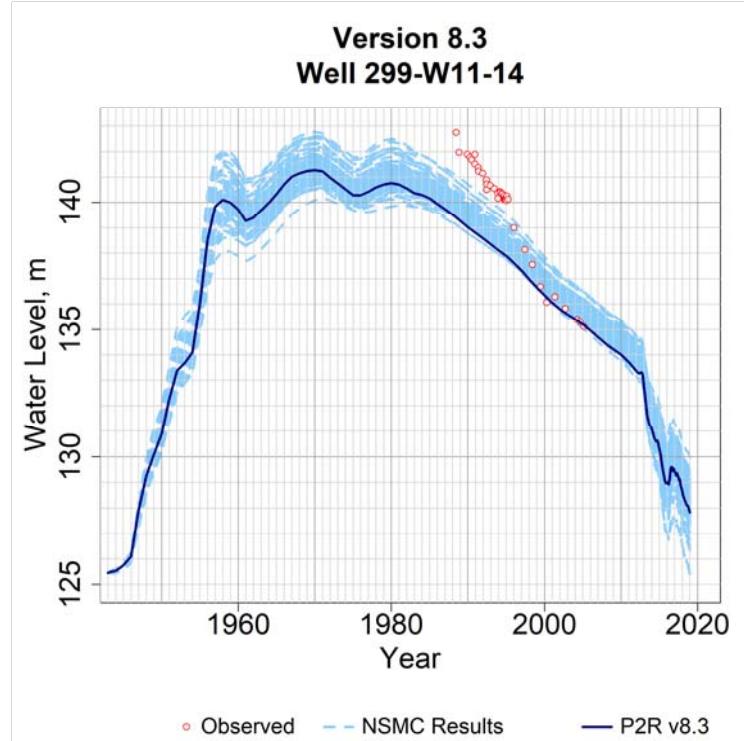


Figure B-277. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-14 for the calibrated model and all model variants from the NSMC.

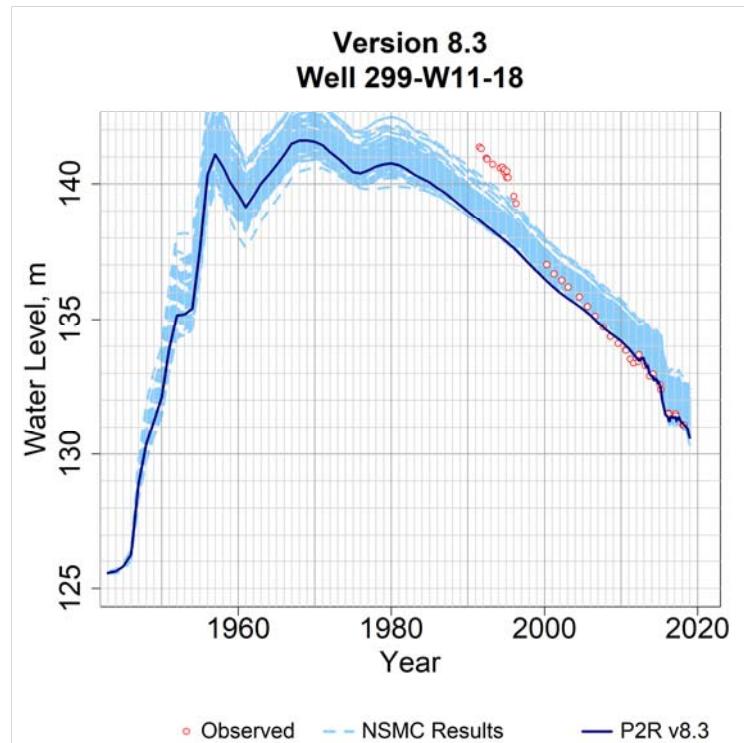


Figure B-278. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-18 for the calibrated model and all model variants from the NSMC.

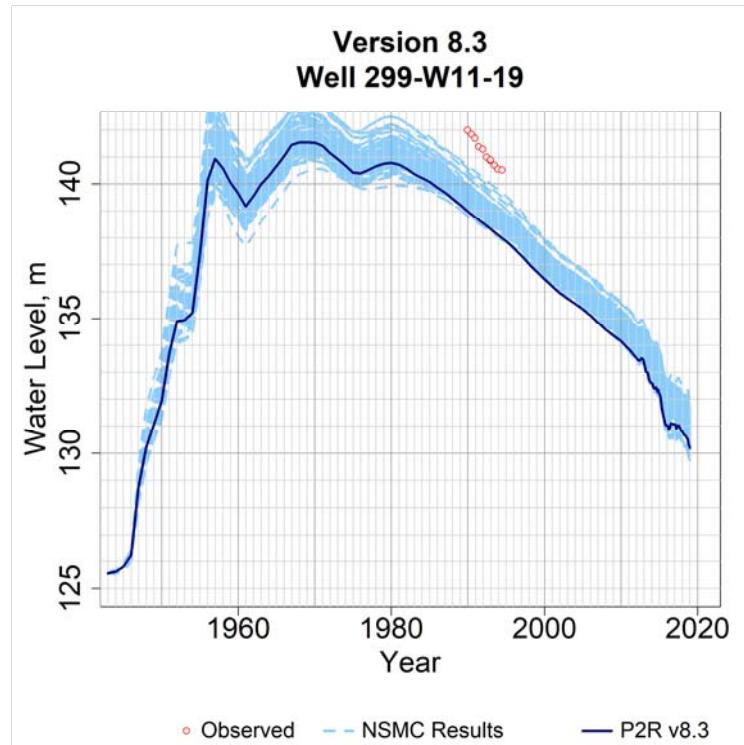


Figure B-279. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-19 for the calibrated model and all model variants from the NSMC.

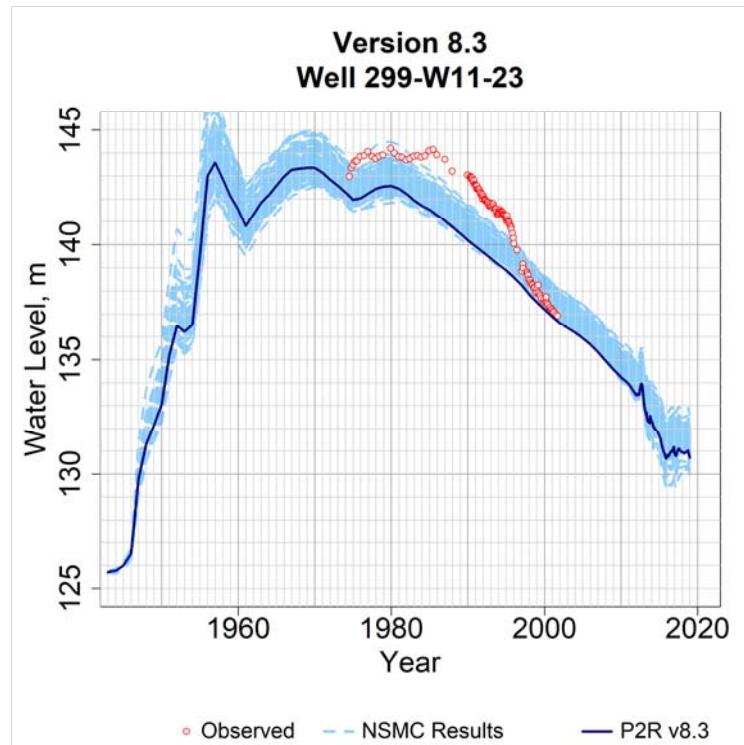


Figure B-280. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-23 for the calibrated model and all model variants from the NSMC.

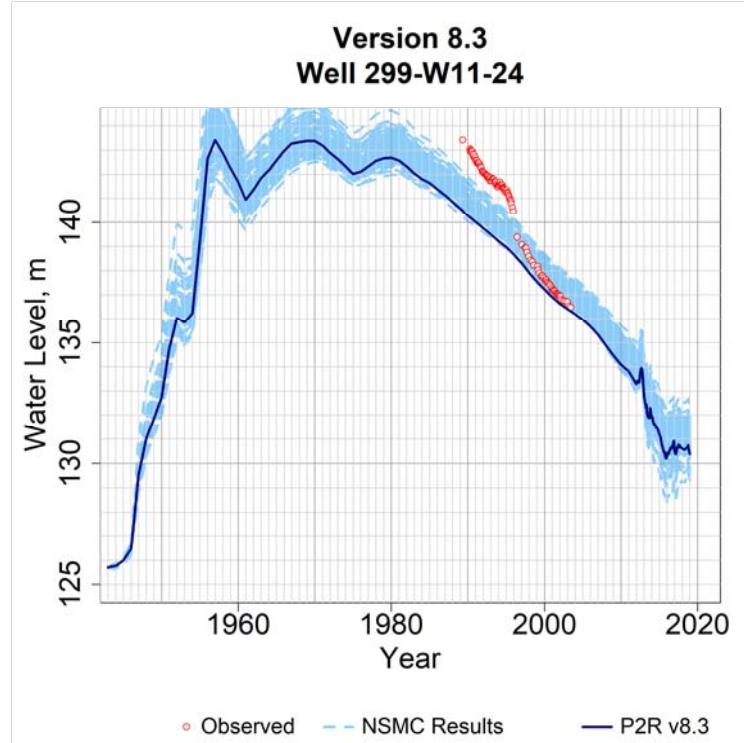


Figure B-281. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-24 for the calibrated model and all model variants from the NSMC.

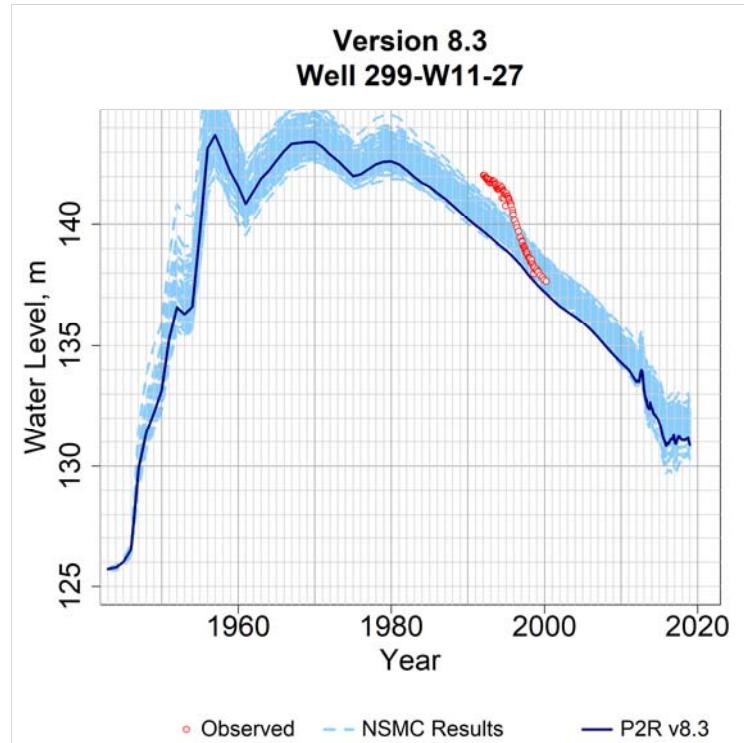


Figure B-282. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-27 for the calibrated model and all model variants from the NSMC.

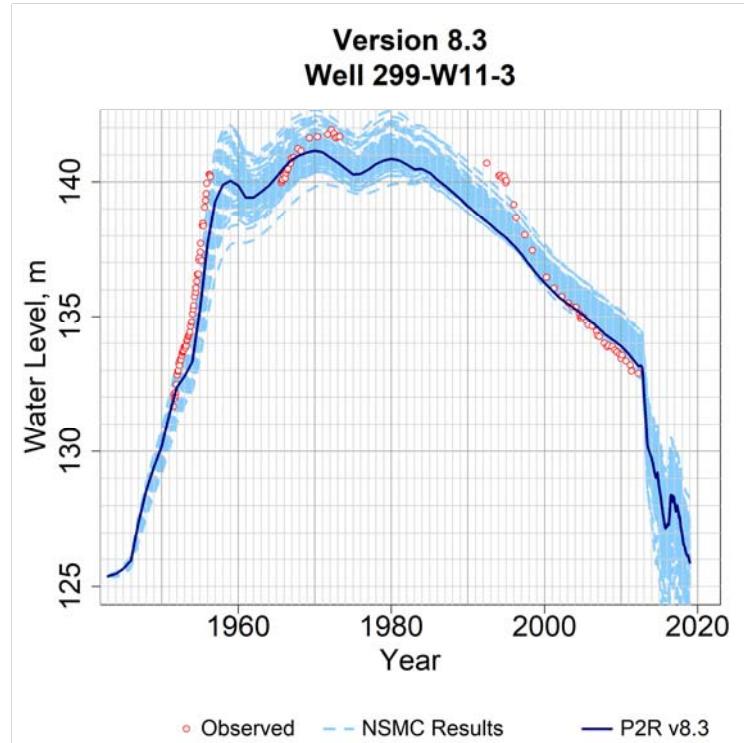


Figure B-283. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-3 for the calibrated model and all model variants from the NSMC.

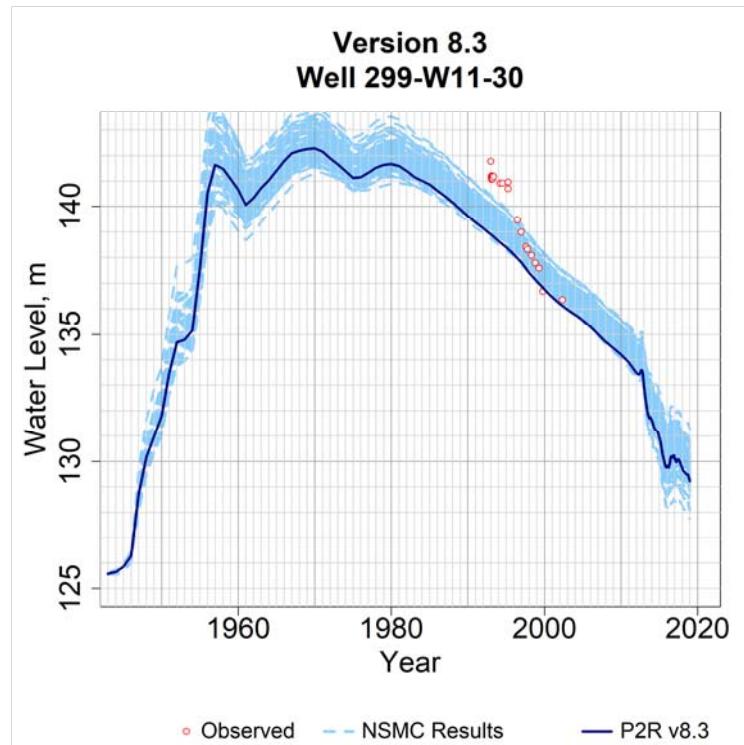


Figure B-284. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-30 for the calibrated model and all model variants from the NSMC.

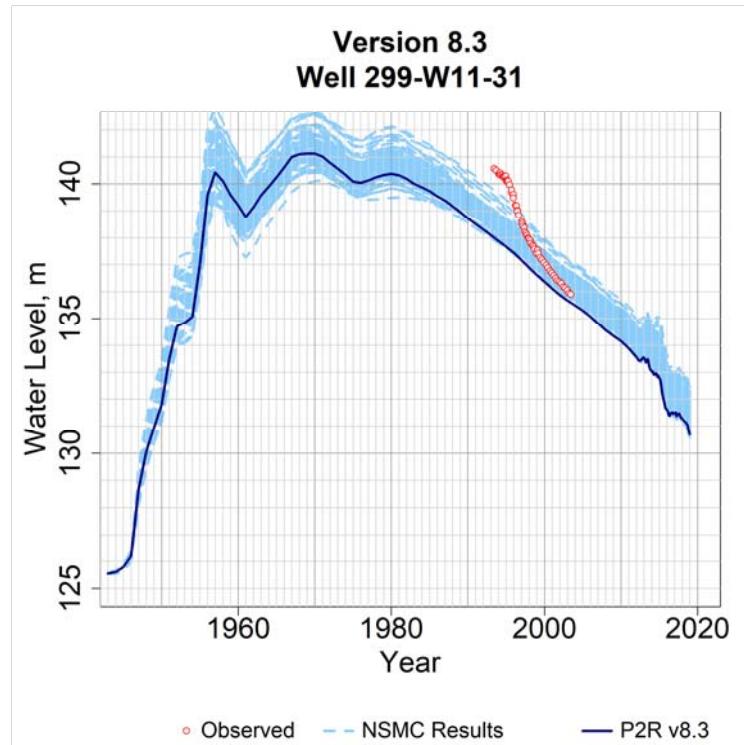


Figure B-285. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-31 for the calibrated model and all model variants from the NSMC.

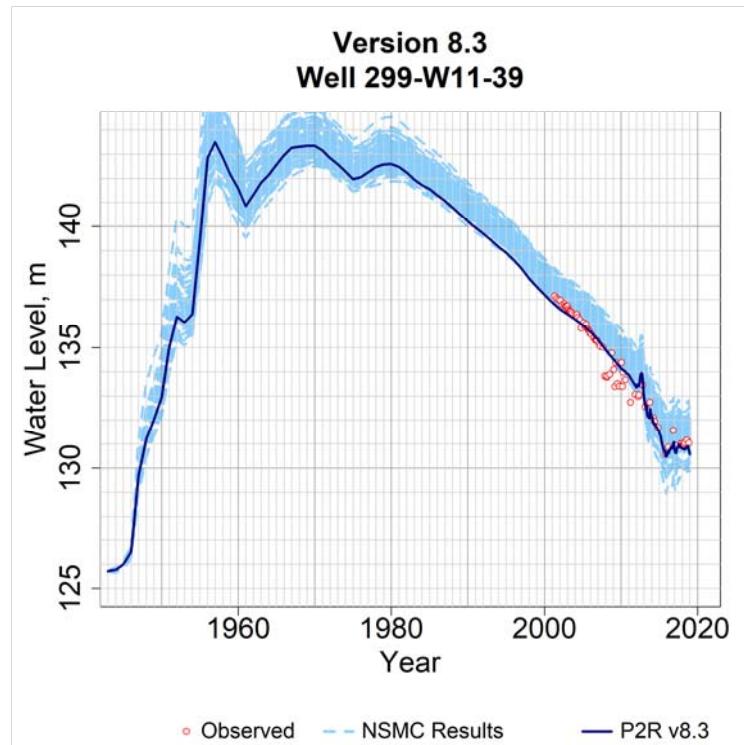


Figure B-286. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-39 for the calibrated model and all model variants from the NSMC.

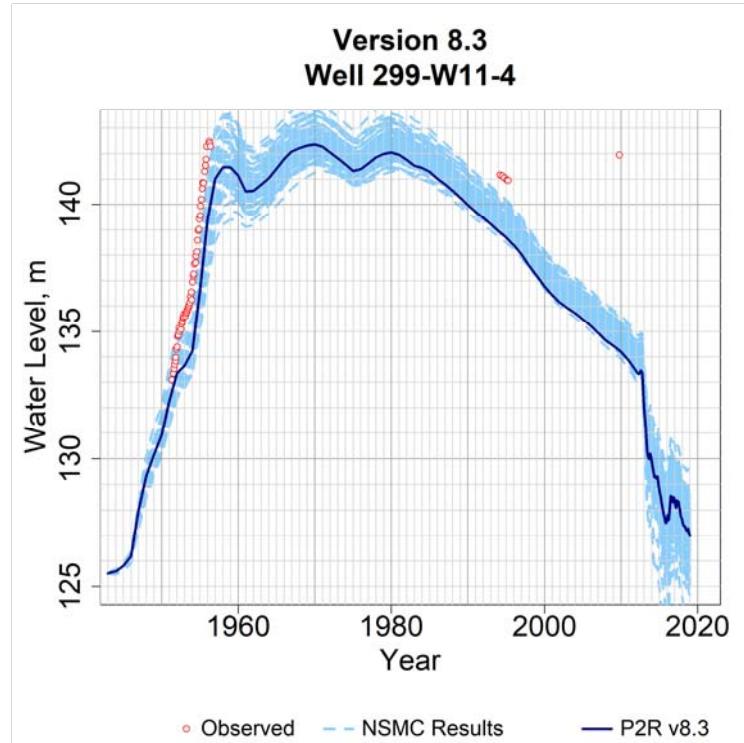


Figure B-287. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-4 for the calibrated model and all model variants from the NSMC.

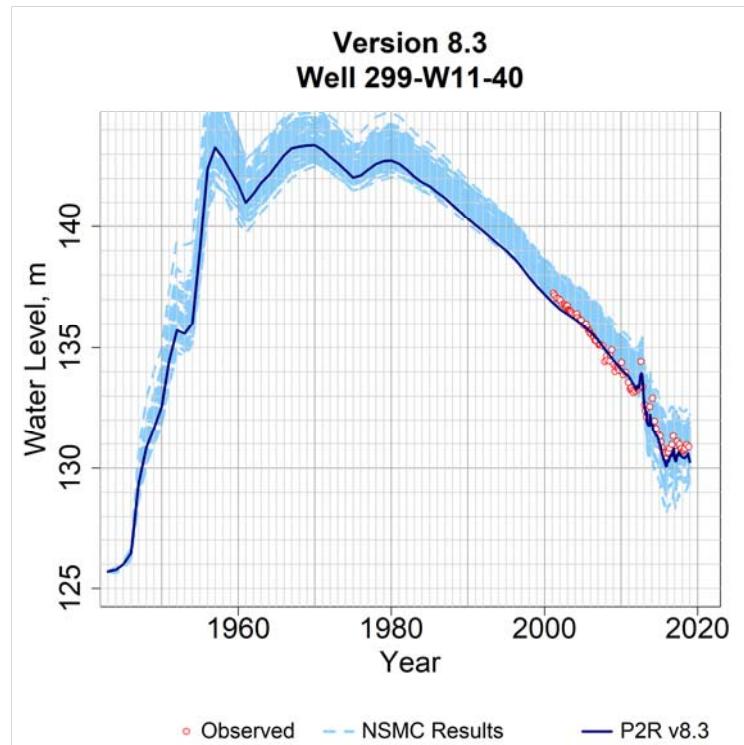


Figure B-288. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-40 for the calibrated model and all model variants from the NSMC.

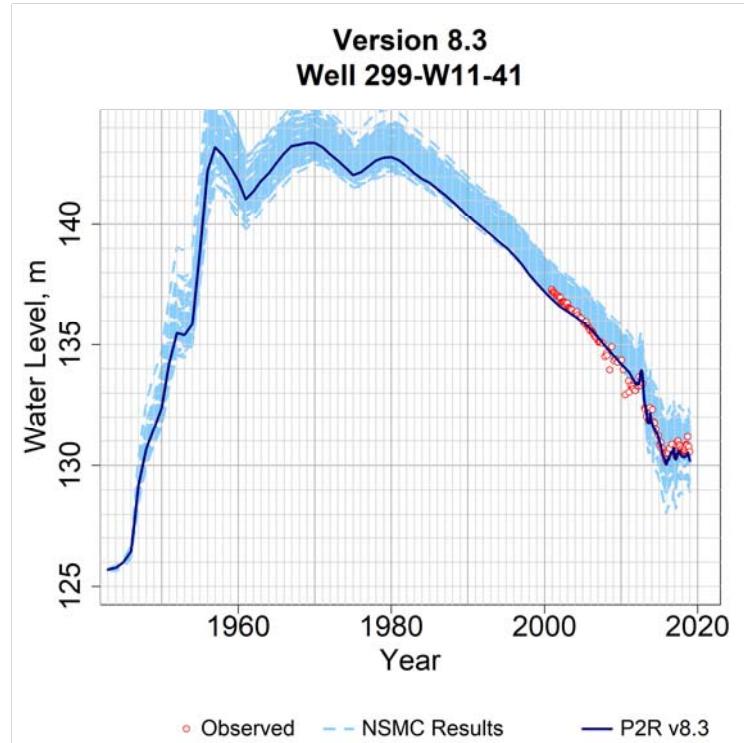


Figure B-289. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-41 for the calibrated model and all model variants from the NSMC.

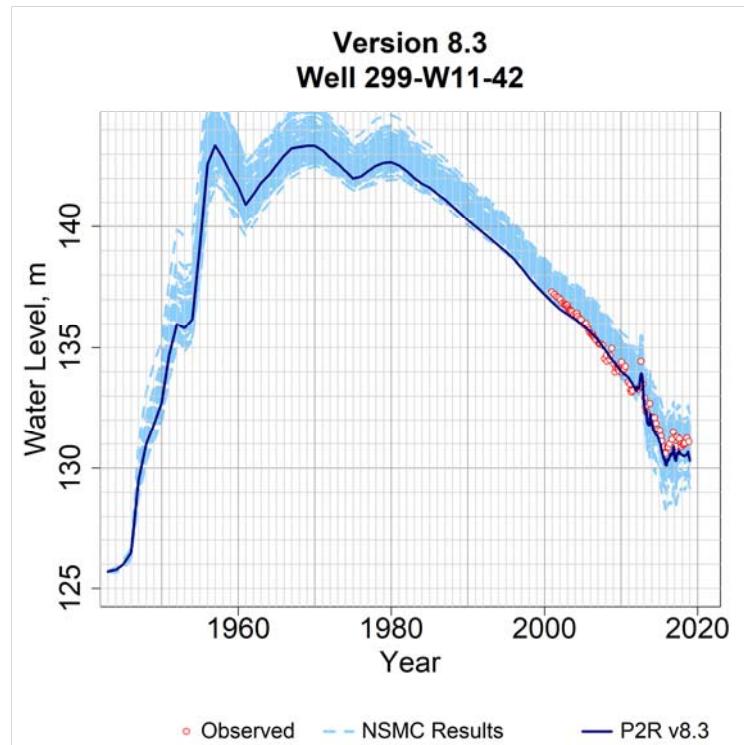


Figure B-290. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-42 for the calibrated model and all model variants from the NSMC.

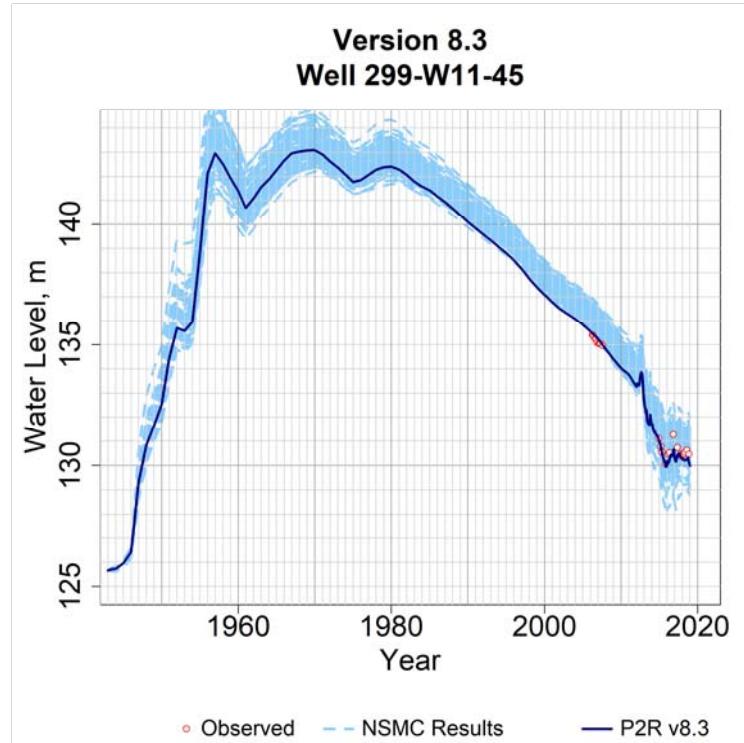


Figure B-291. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-45 for the calibrated model and all model variants from the NSMC.

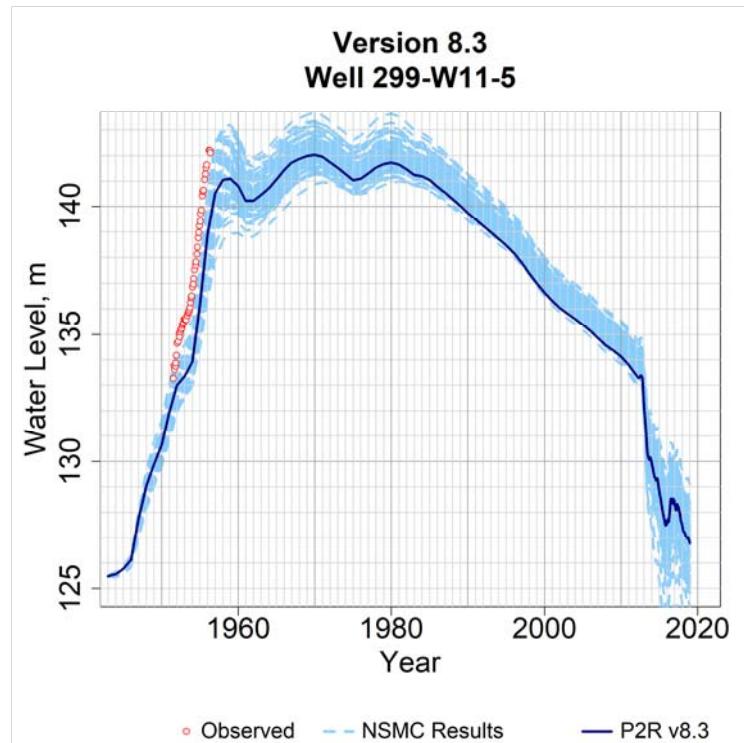


Figure B-292. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-5 for the calibrated model and all model variants from the NSMC.

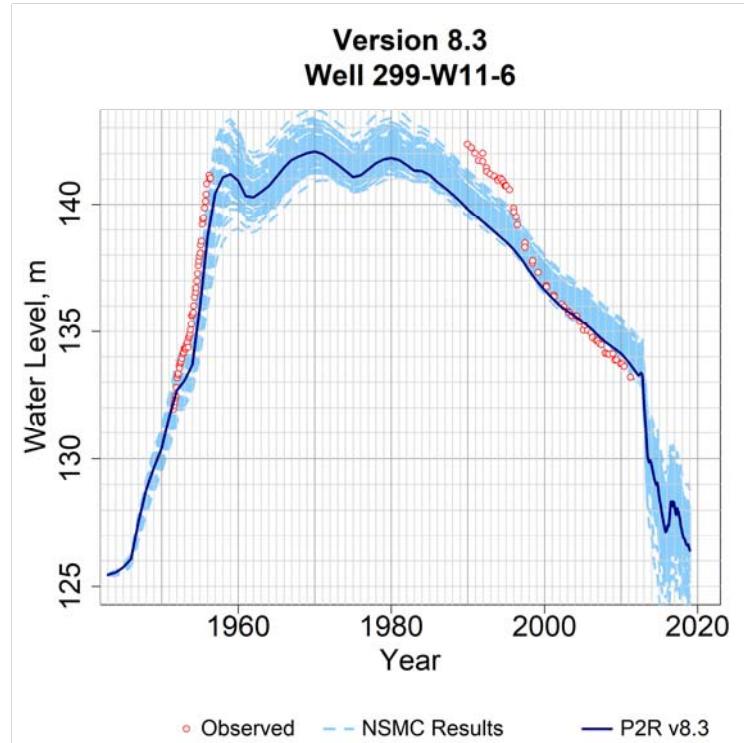


Figure B-293. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-6 for the calibrated model and all model variants from the NSMC.

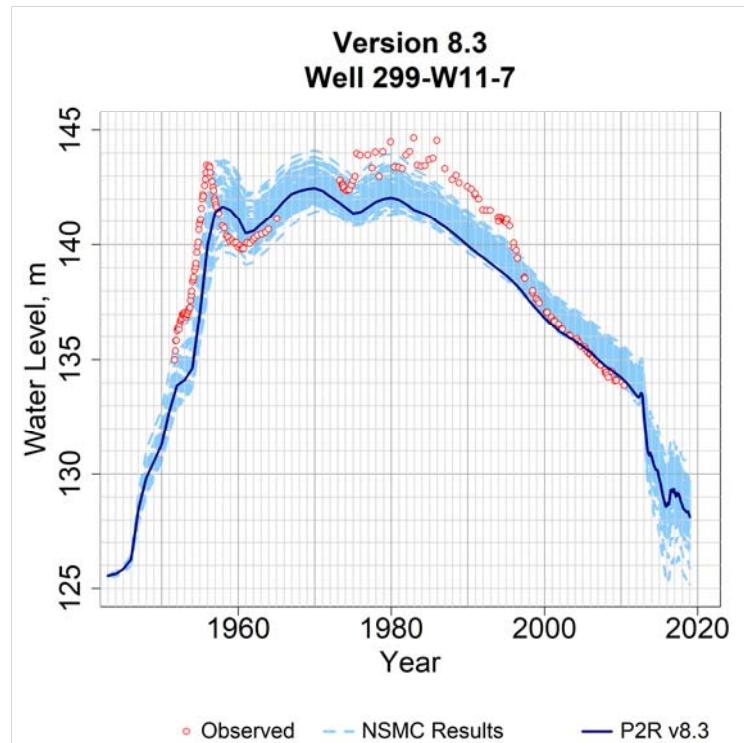


Figure B-294. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-7 for the calibrated model and all model variants from the NSMC.

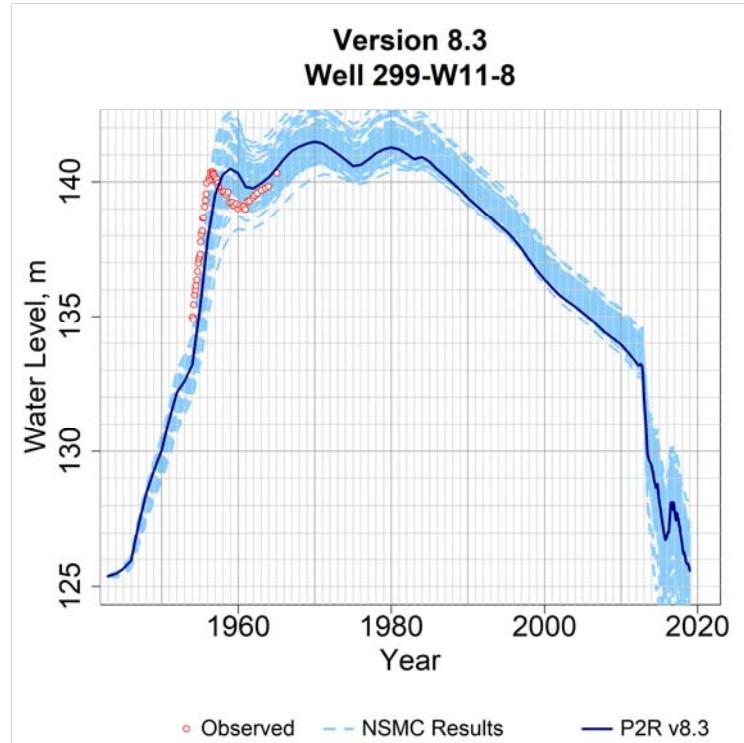


Figure B-295. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-8 for the calibrated model and all model variants from the NSMC.

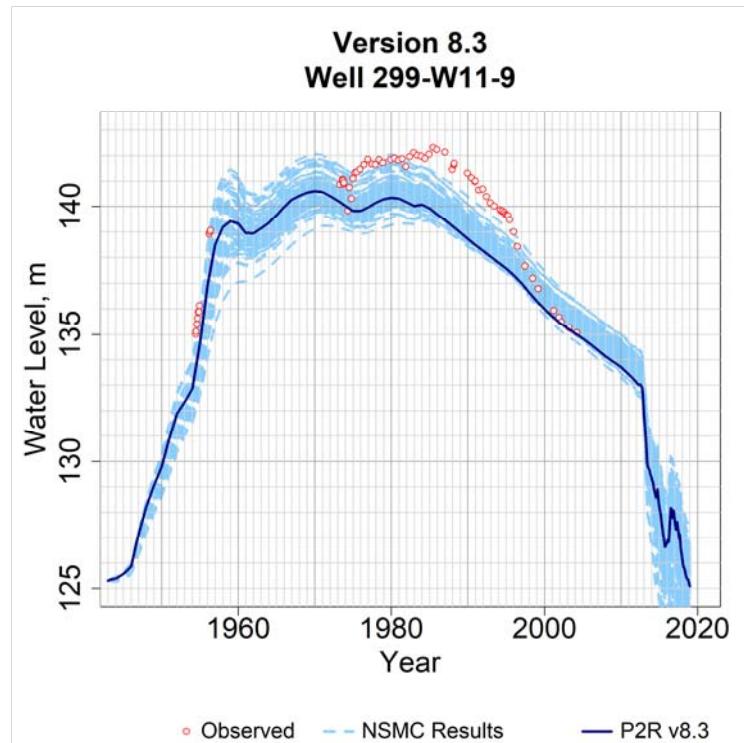


Figure B-296. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W11-9 for the calibrated model and all model variants from the NSMC.

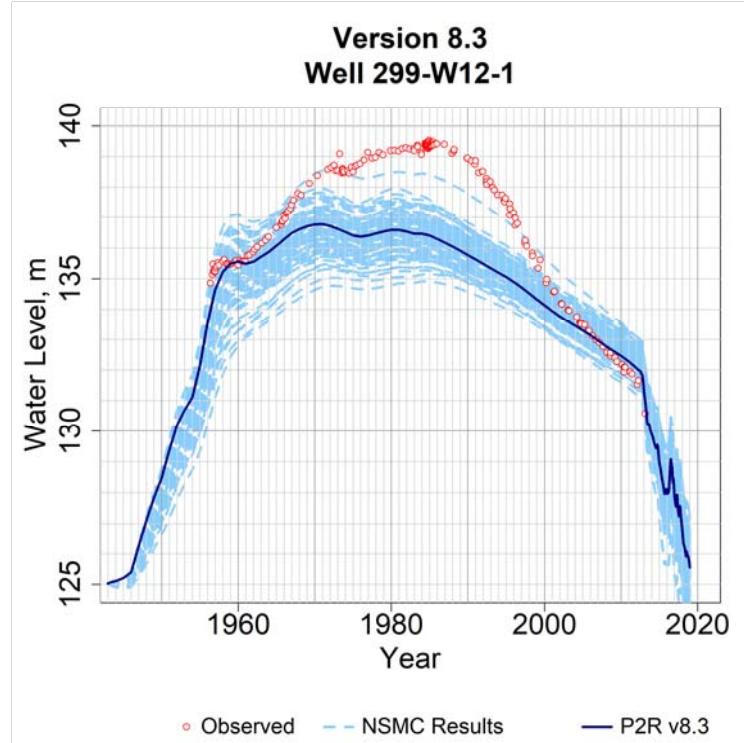


Figure B-297. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W12-1 for the calibrated model and all model variants from the NSMC.

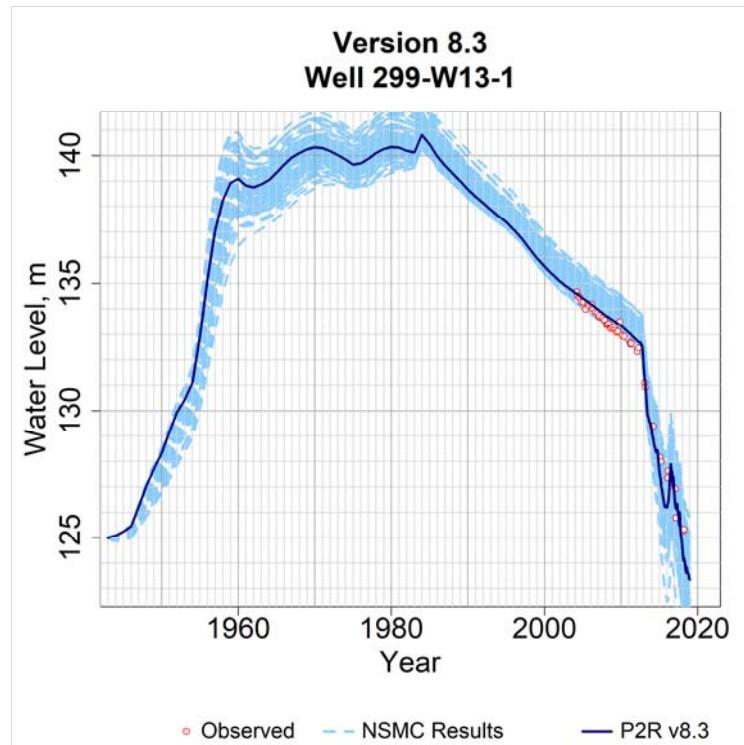


Figure B-298. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W13-1 for the calibrated model and all model variants from the NSMC.

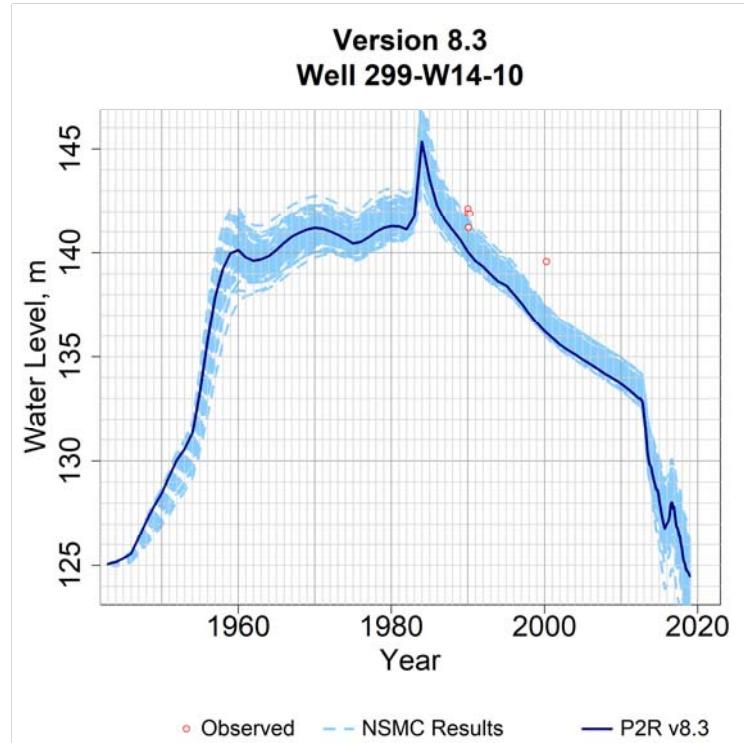


Figure B-299. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-10 for the calibrated model and all model variants from the NSMC.

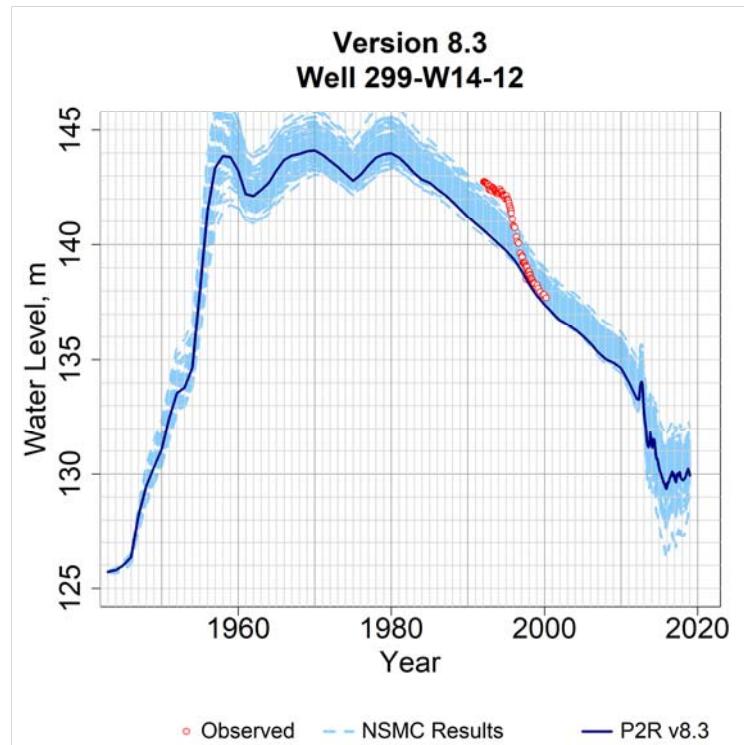


Figure B-300. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-12 for the calibrated model and all model variants from the NSMC.

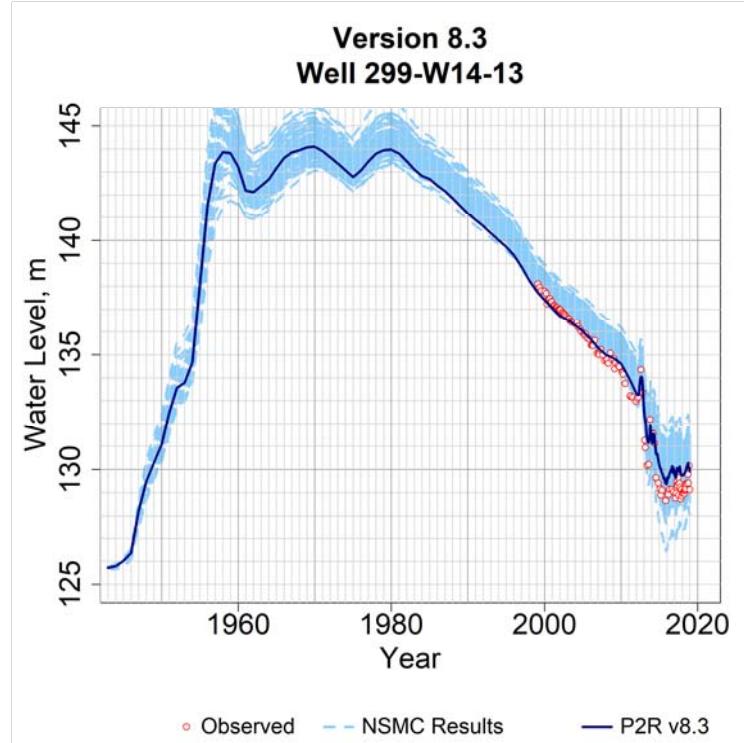


Figure B-301. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-13 for the calibrated model and all model variants from the NSMC.

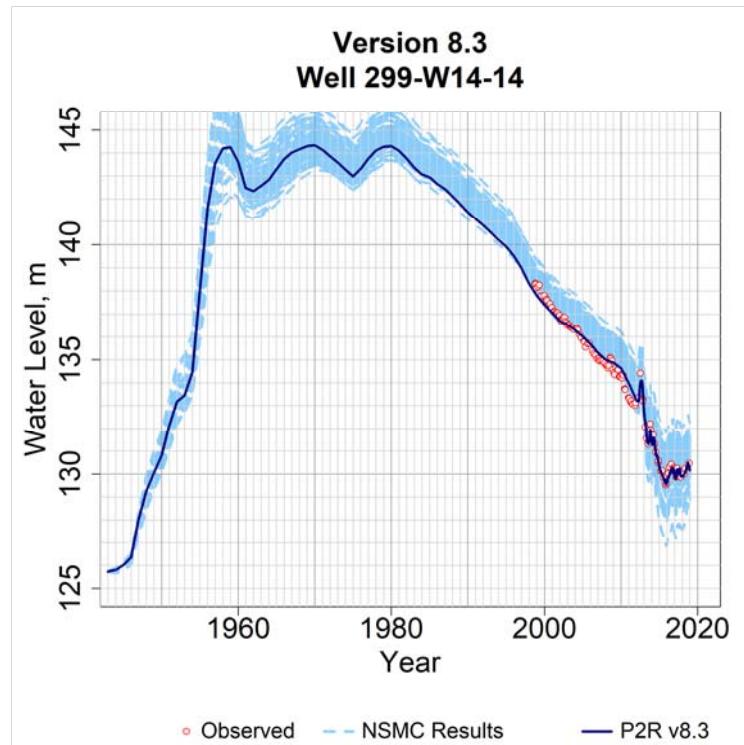


Figure B-302. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-14 for the calibrated model and all model variants from the NSMC.

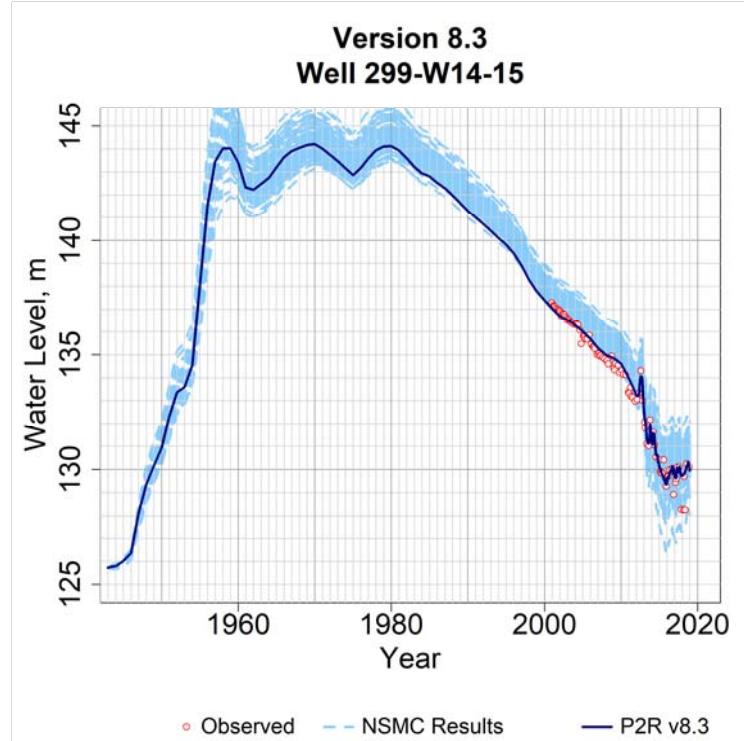


Figure B-303. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-15 for the calibrated model and all model variants from the NSMC.

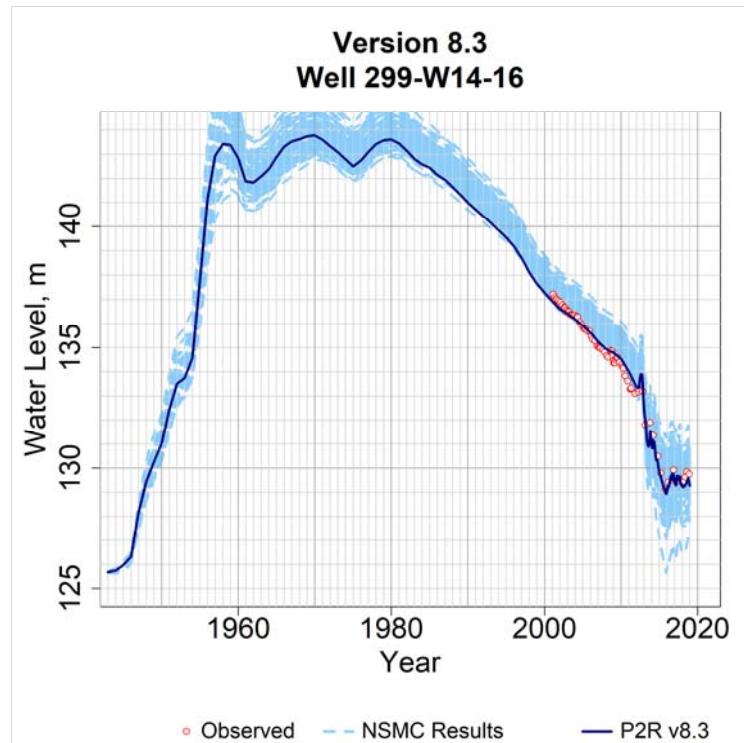


Figure B-304. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-16 for the calibrated model and all model variants from the NSMC.

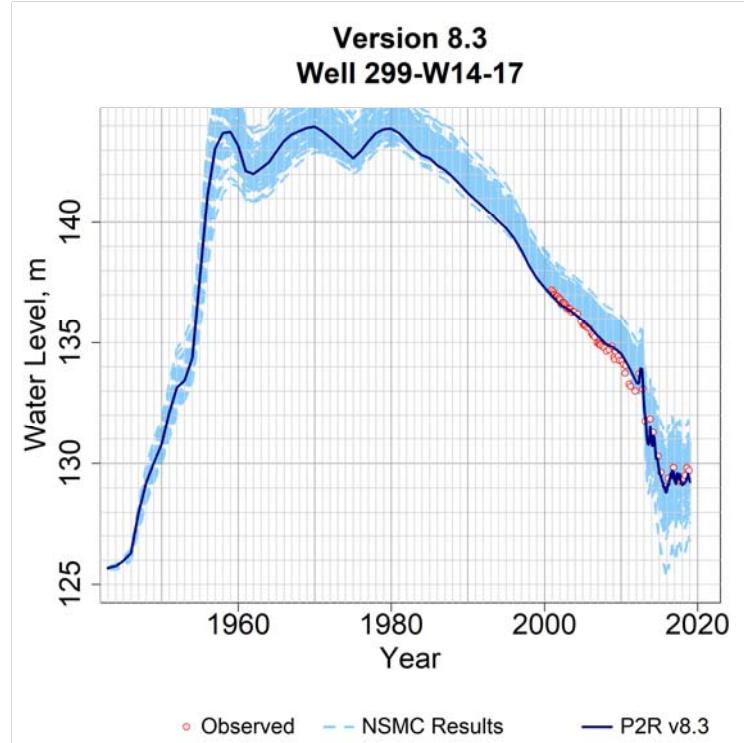


Figure B-305. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-17 for the calibrated model and all model variants from the NSMC.

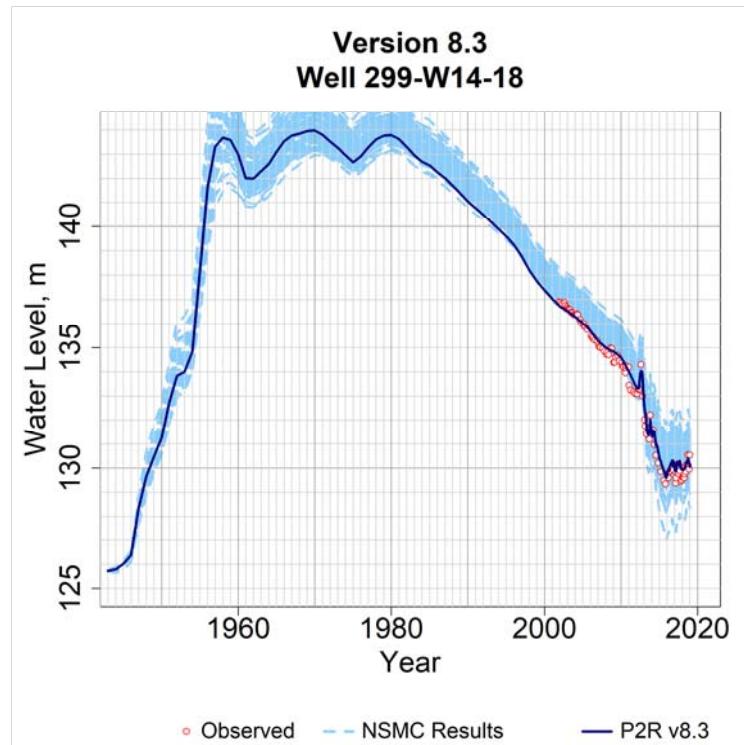


Figure B-306. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-18 for the calibrated model and all model variants from the NSMC.

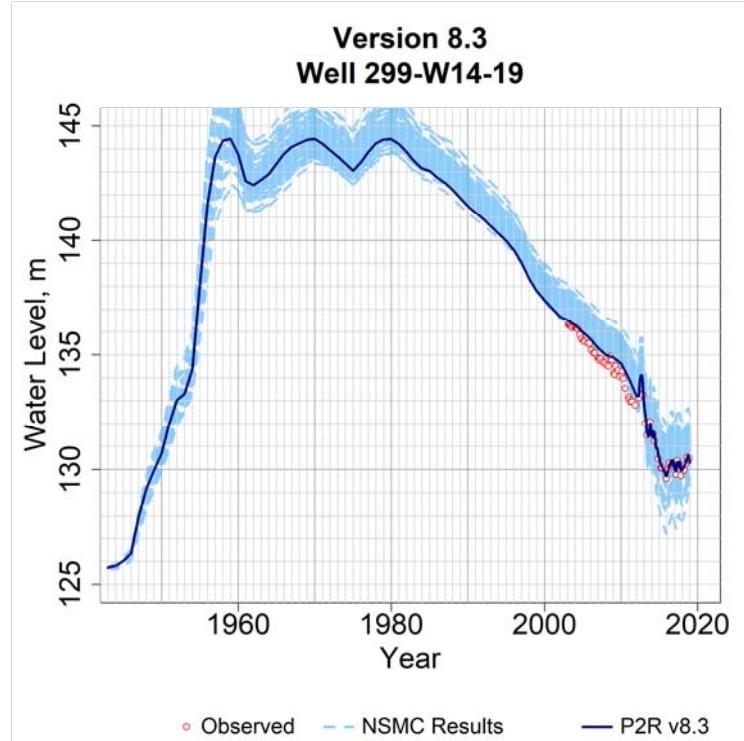


Figure B-307. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-19 for the calibrated model and all model variants from the NSMC.

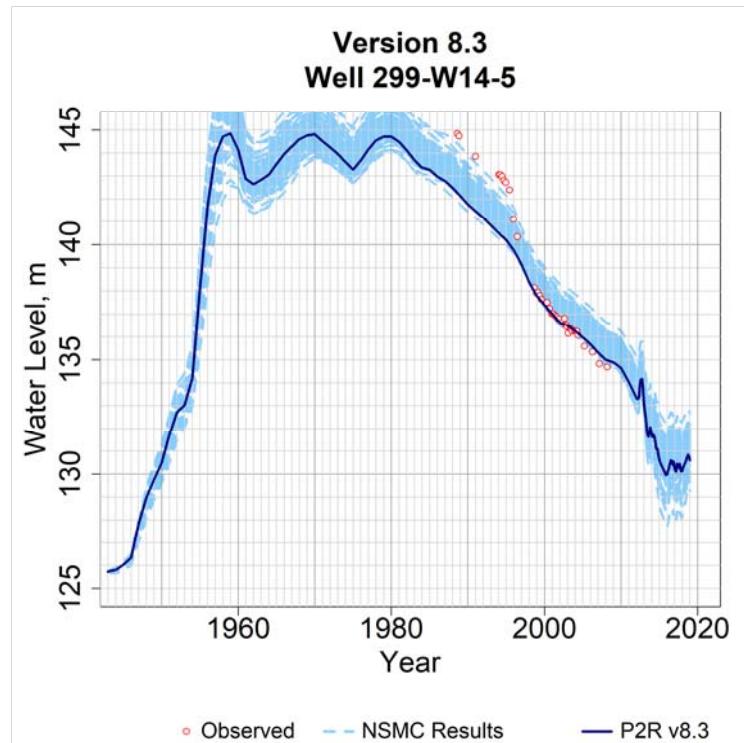


Figure B-308. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-5 for the calibrated model and all model variants from the NSMC.

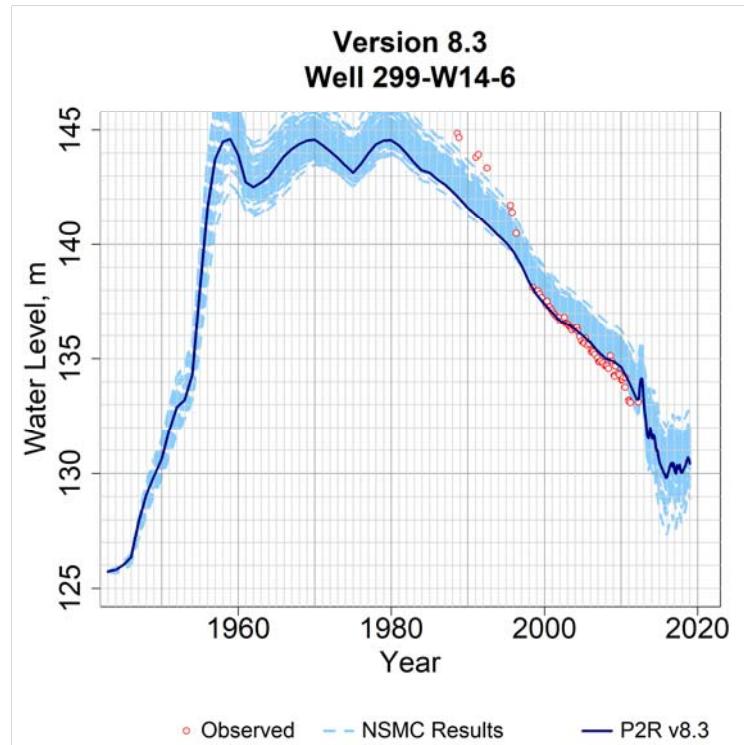


Figure B-309. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-6 for the calibrated model and all model variants from the NSMC.

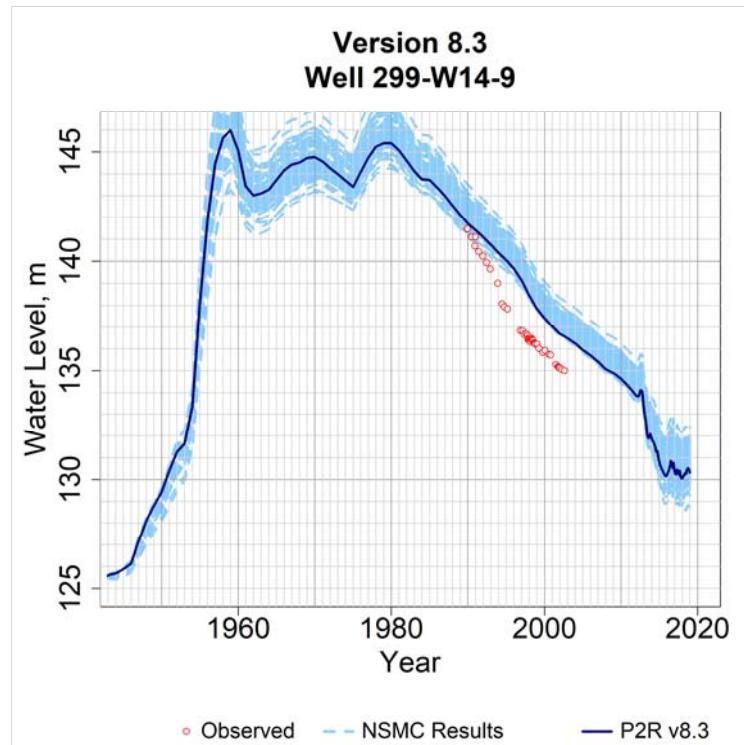


Figure B-310. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W14-9 for the calibrated model and all model variants from the NSMC.

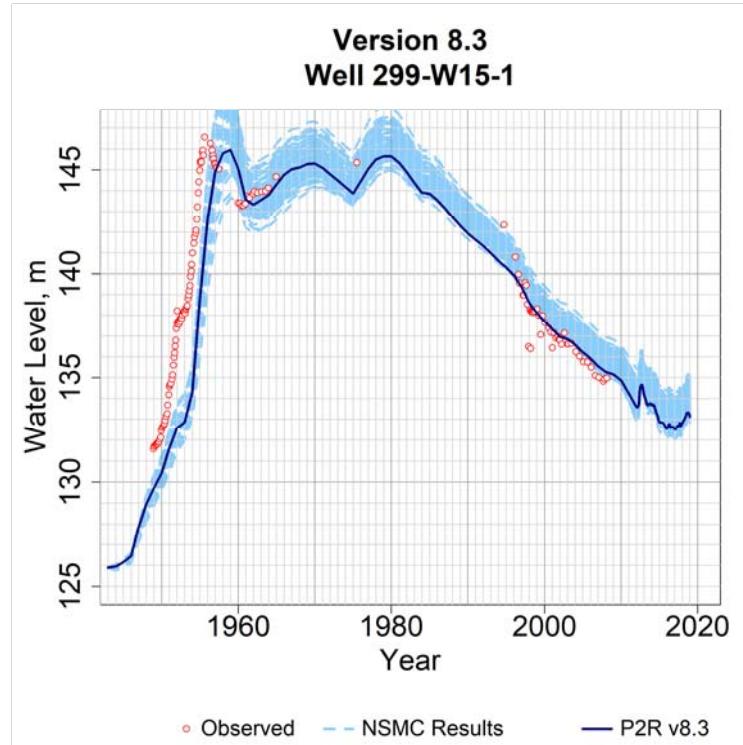


Figure B-311. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-1 for the calibrated model and all model variants from the NSMC.

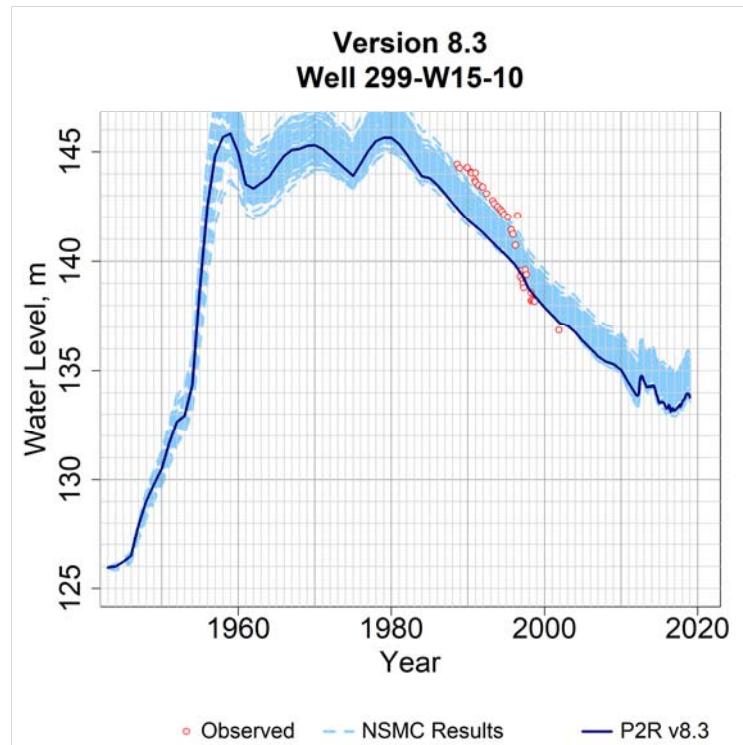


Figure B-312. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-10 for the calibrated model and all model variants from the NSMC.

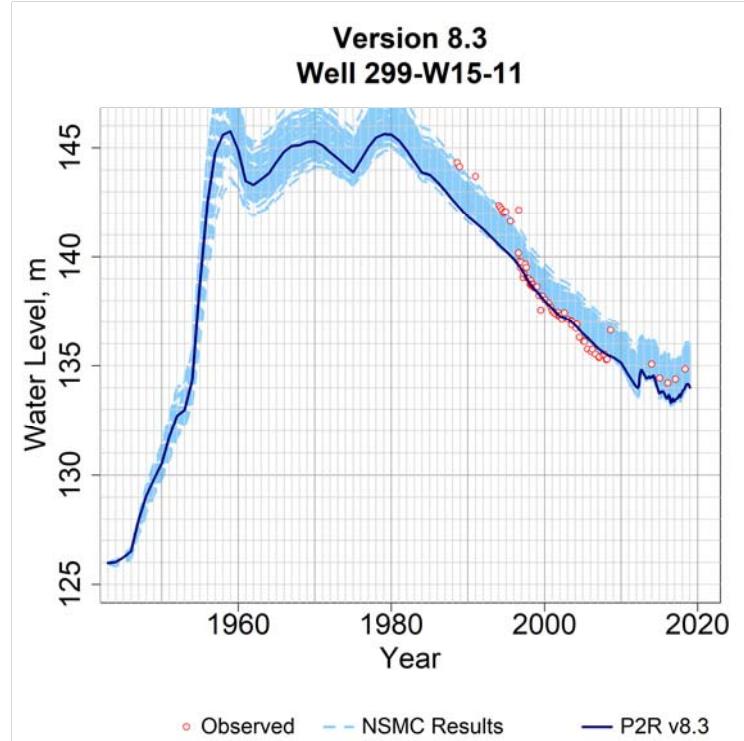


Figure B-313. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-11 for the calibrated model and all model variants from the NSMC.

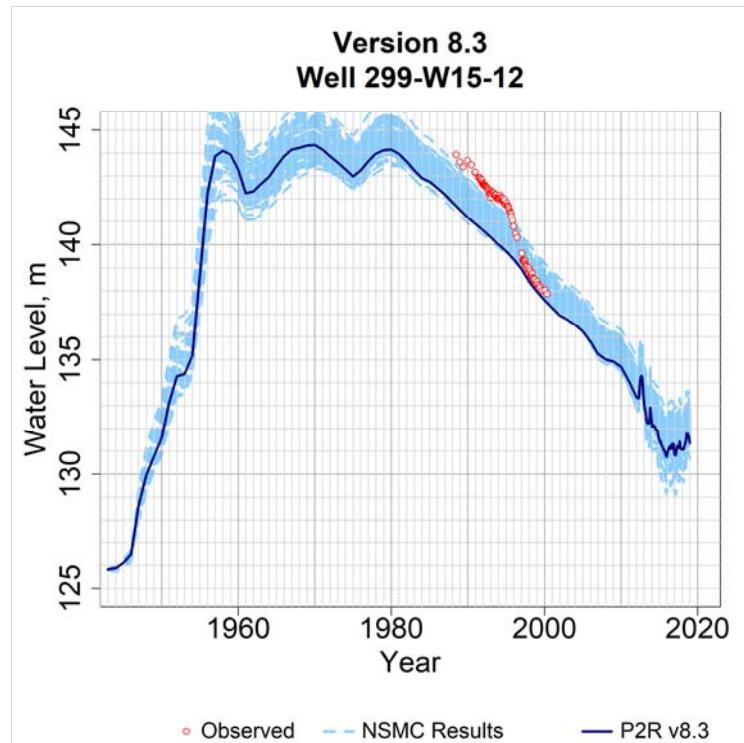


Figure B-314. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-12 for the calibrated model and all model variants from the NSMC.

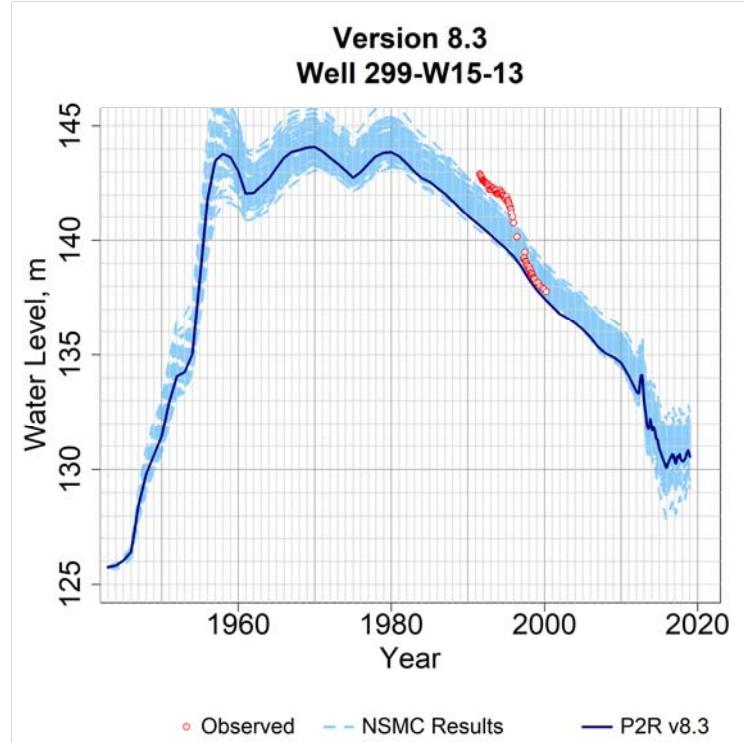


Figure B-315. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-13 for the calibrated model and all model variants from the NSMC.

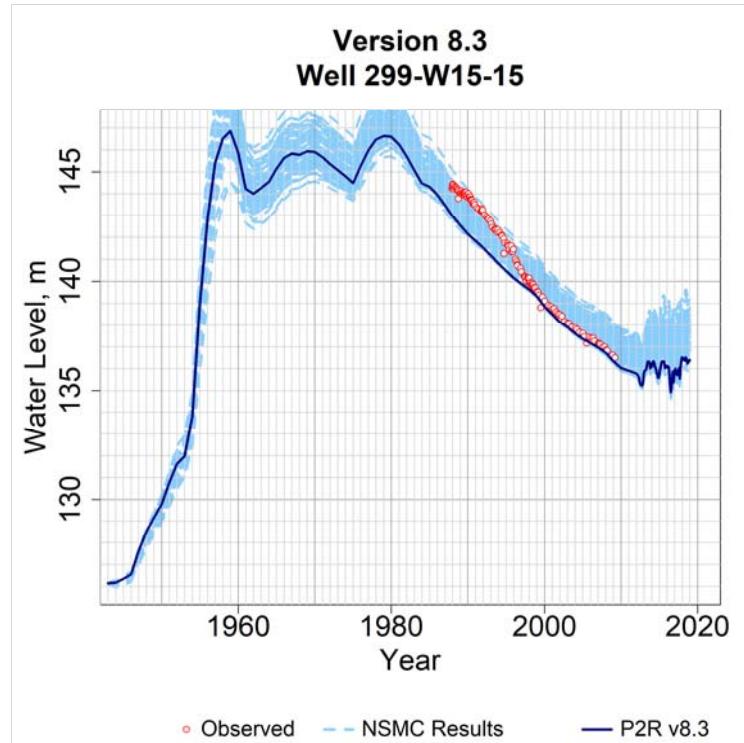


Figure B-316. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-15 for the calibrated model and all model variants from the NSMC.

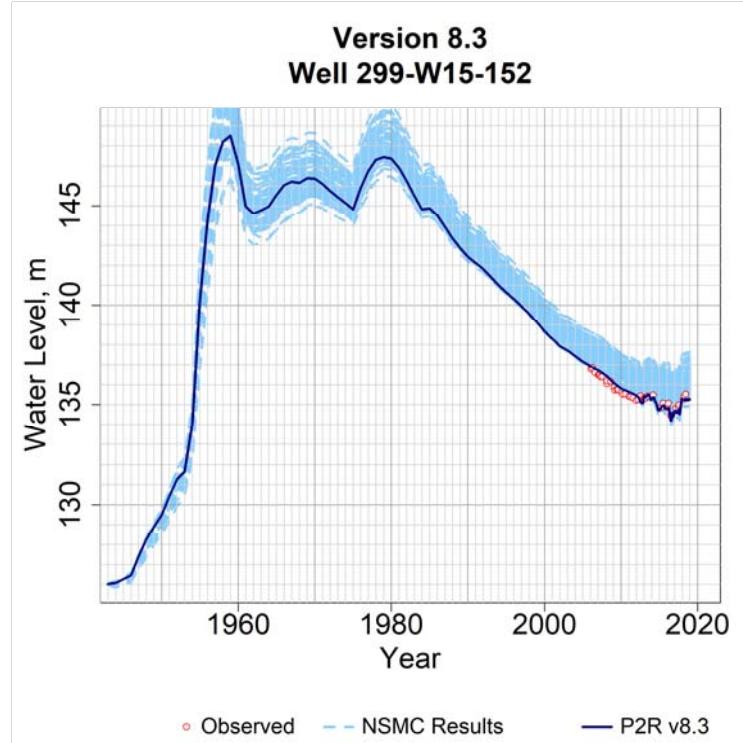


Figure B-317. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-152 for the calibrated model and all model variants from the NSMC.

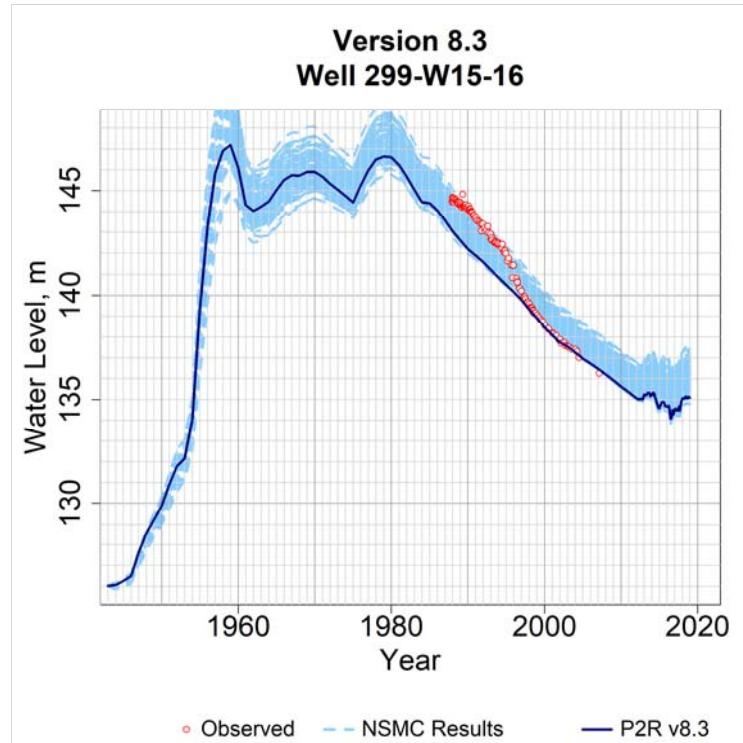


Figure B-318. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-16 for the calibrated model and all model variants from the NSMC.

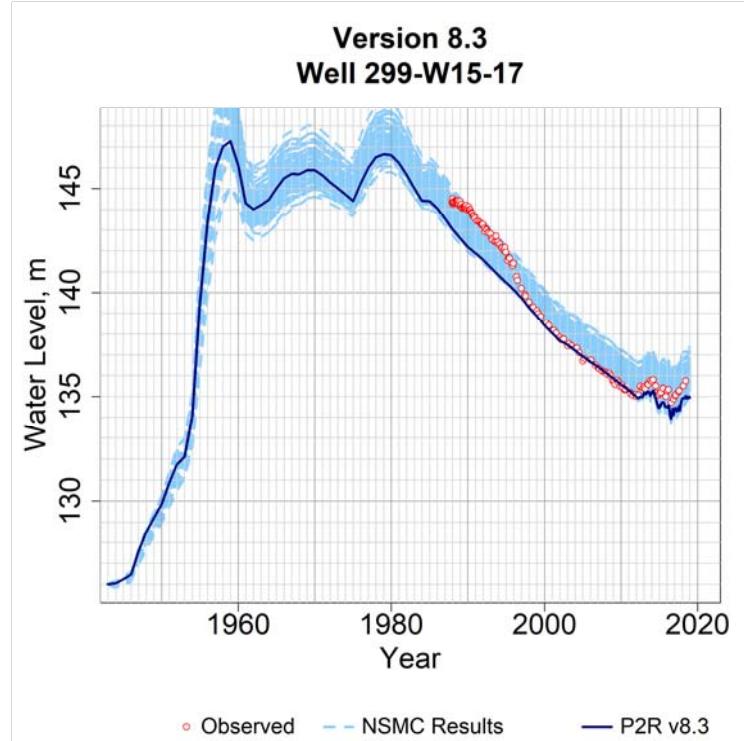


Figure B-319. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-17 for the calibrated model and all model variants from the NSMC.

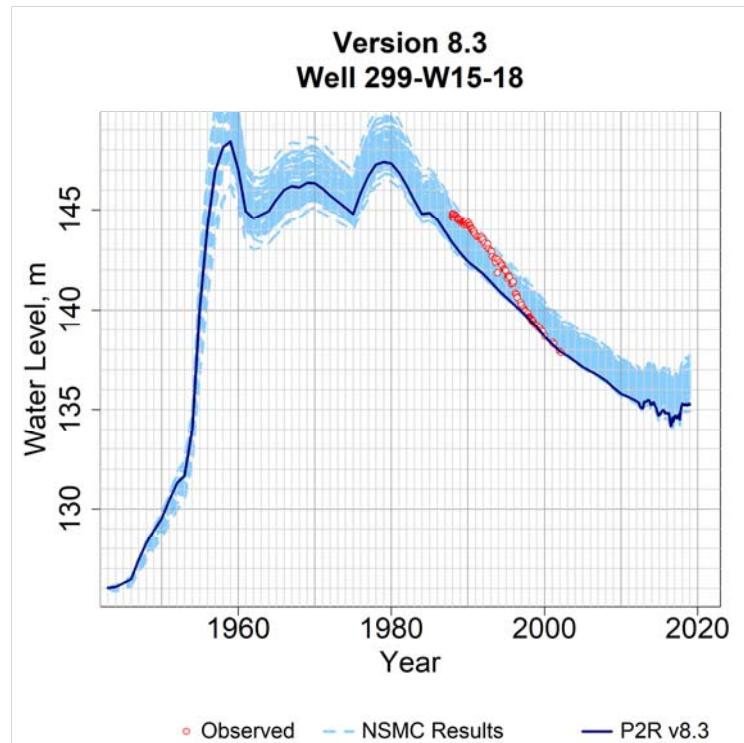


Figure B-320. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-18 for the calibrated model and all model variants from the NSMC.

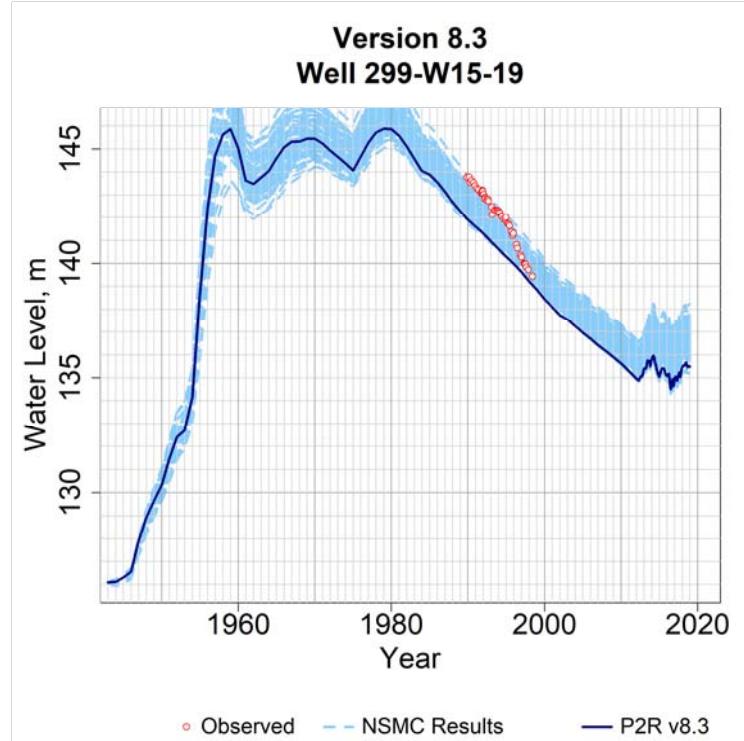


Figure B-321. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-19 for the calibrated model and all model variants from the NSMC.

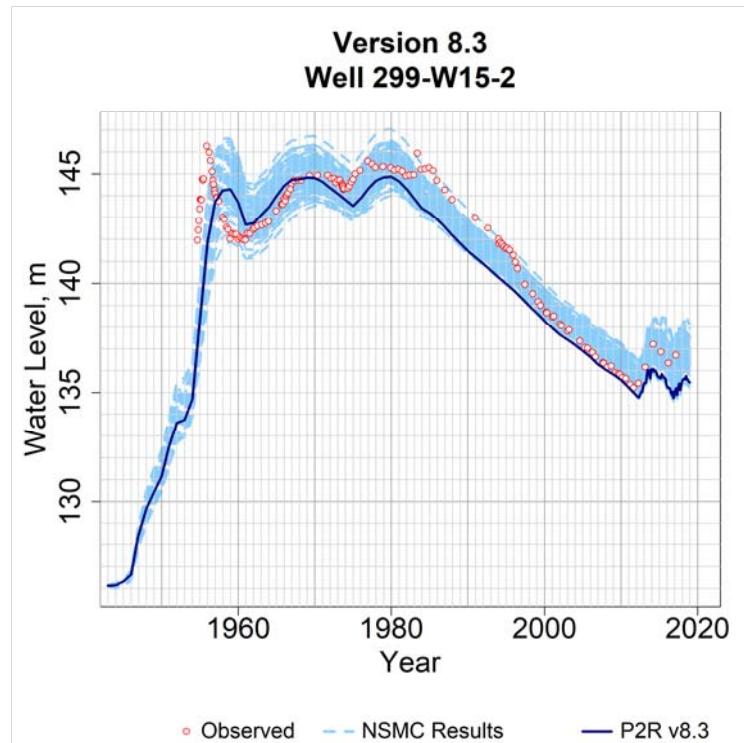


Figure B-322. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-2 for the calibrated model and all model variants from the NSMC.

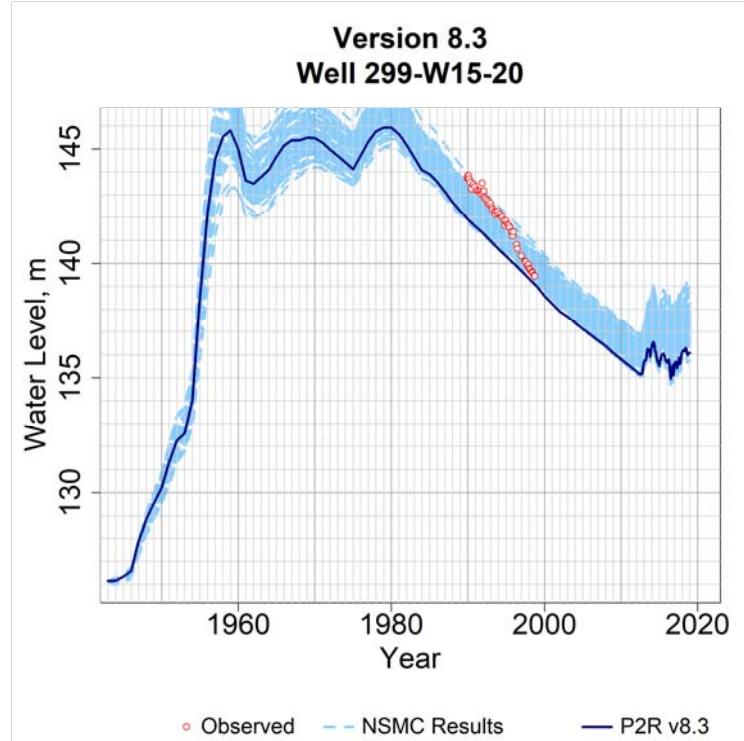


Figure B-323. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-20 for the calibrated model and all model variants from the NSMC.

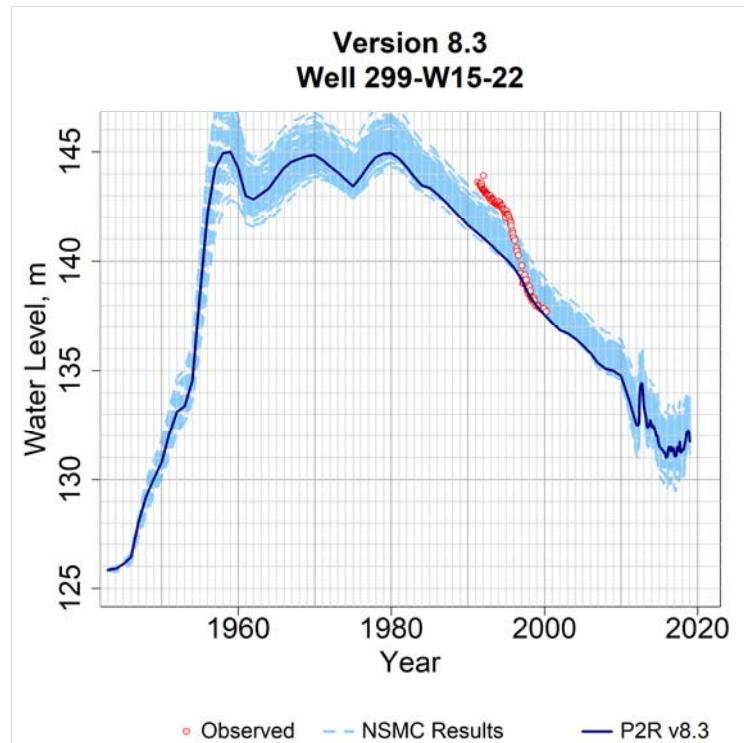


Figure B-324. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-22 for the calibrated model and all model variants from the NSMC.

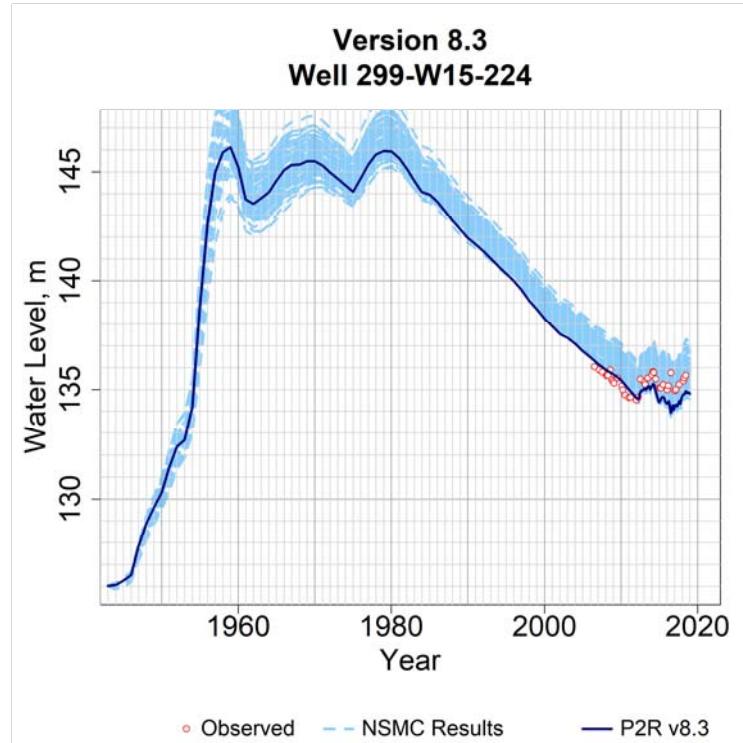


Figure B-325. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-224 for the calibrated model and all model variants from the NSMC.

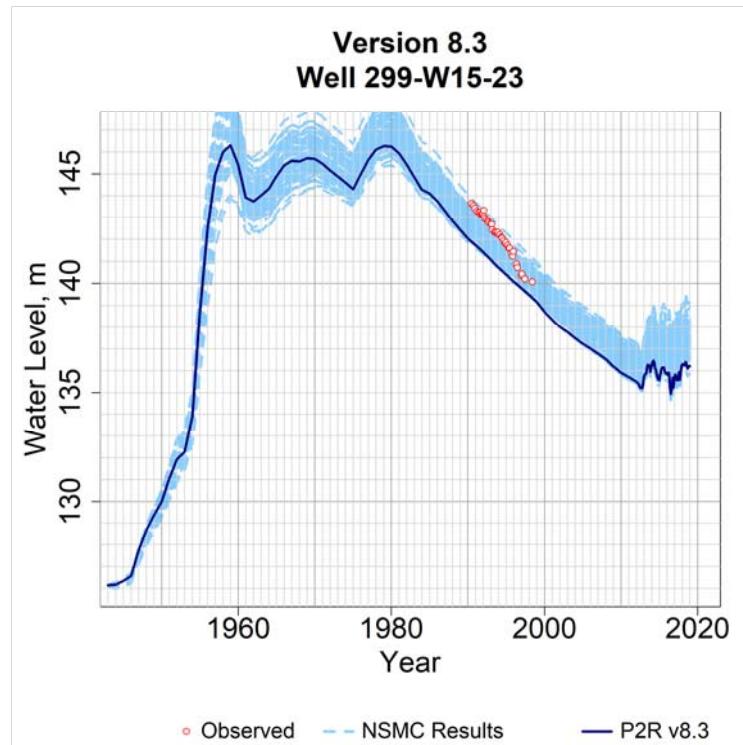


Figure B-326. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-23 for the calibrated model and all model variants from the NSMC.

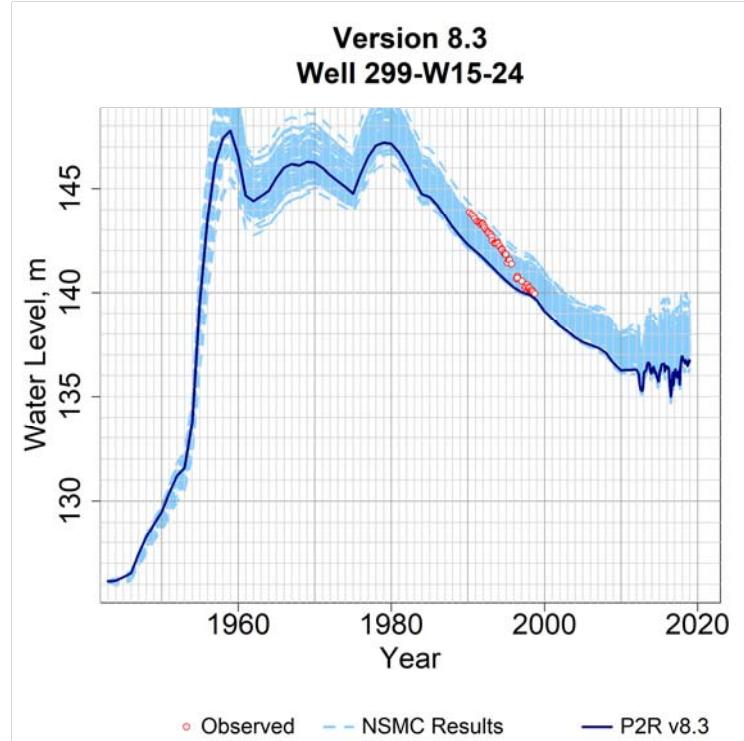


Figure B-327. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-24 for the calibrated model and all model variants from the NSMC.

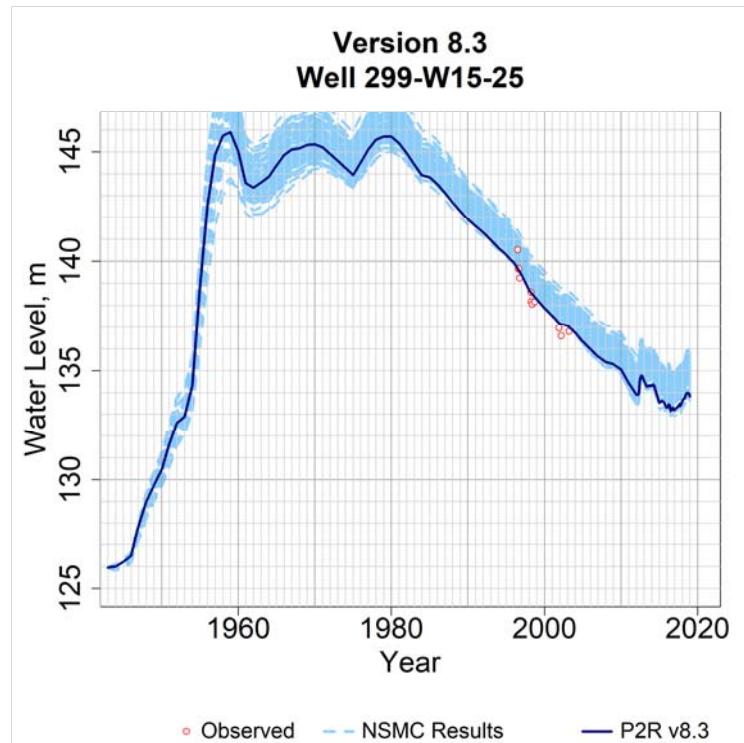


Figure B-328. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-25 for the calibrated model and all model variants from the NSMC.

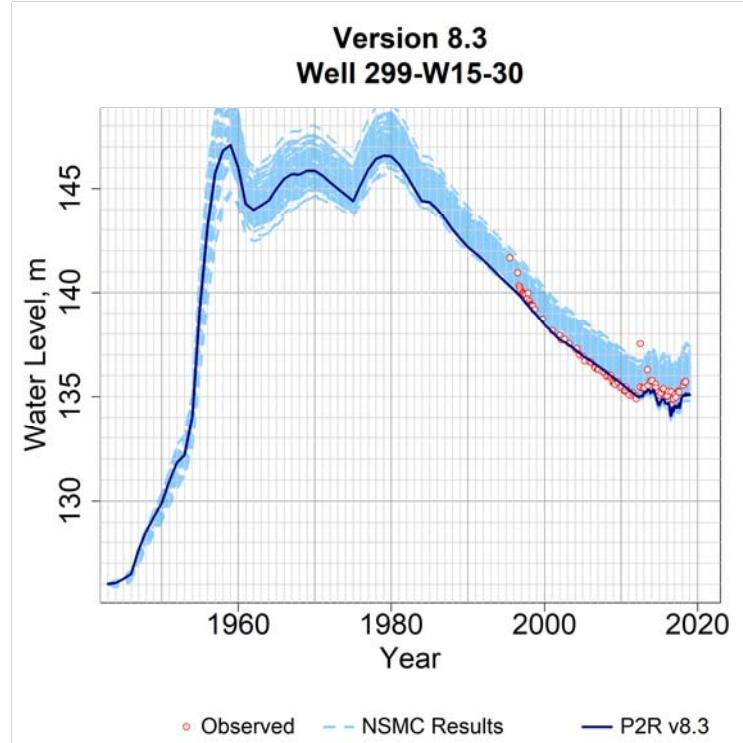


Figure B-329. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-30 for the calibrated model and all model variants from the NSMC.

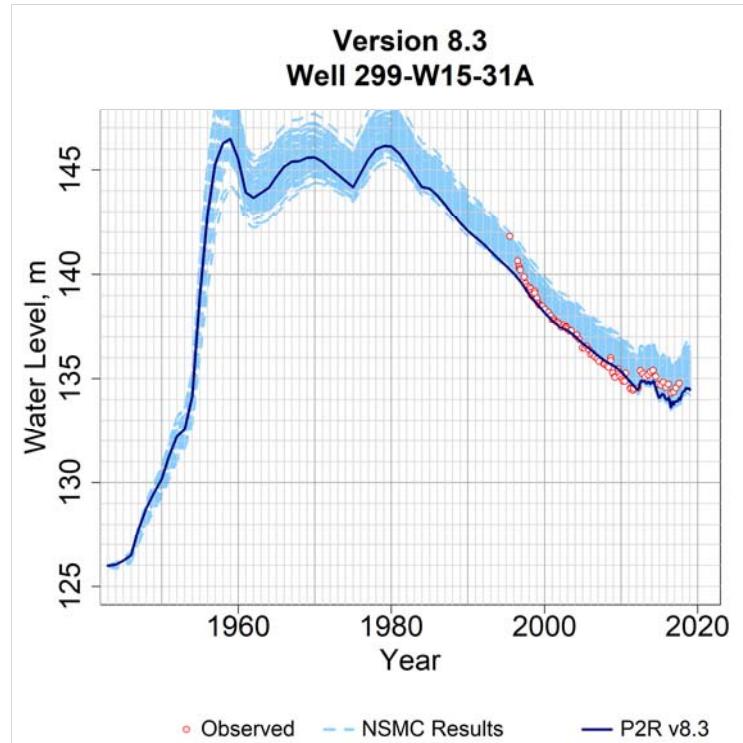


Figure B-330. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-31A for the calibrated model and all model variants from the NSMC.

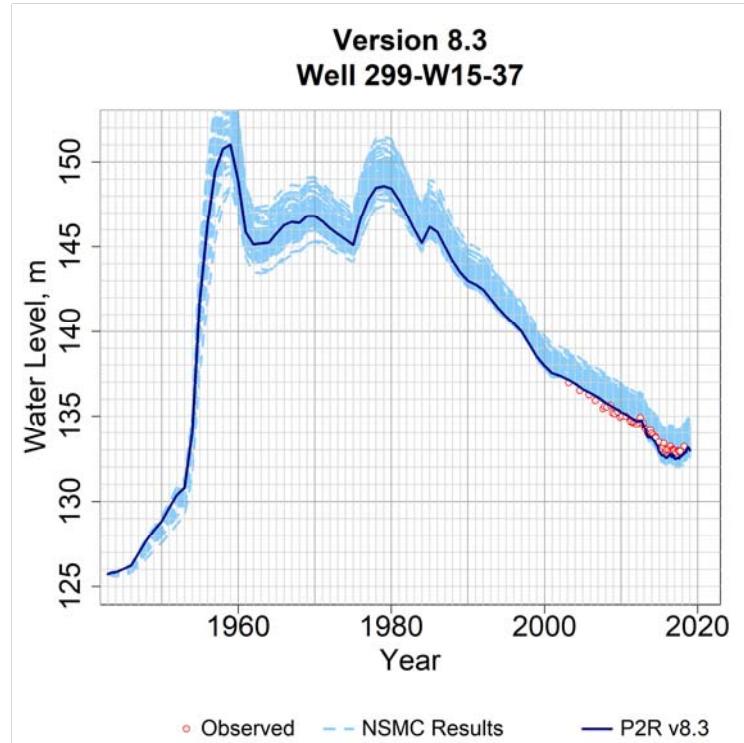


Figure B-331. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-37 for the calibrated model and all model variants from the NSMC.

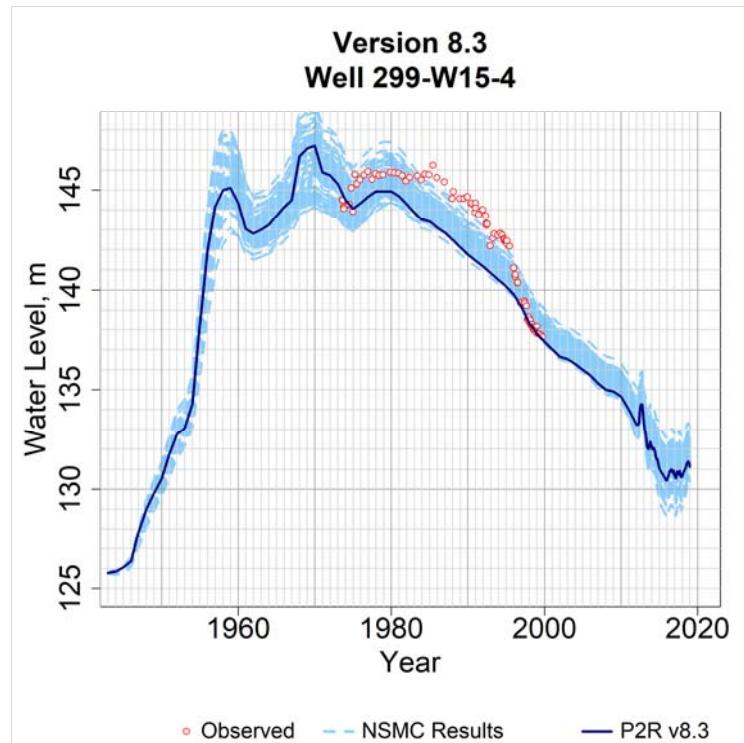


Figure B-332. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-4 for the calibrated model and all model variants from the NSMC.

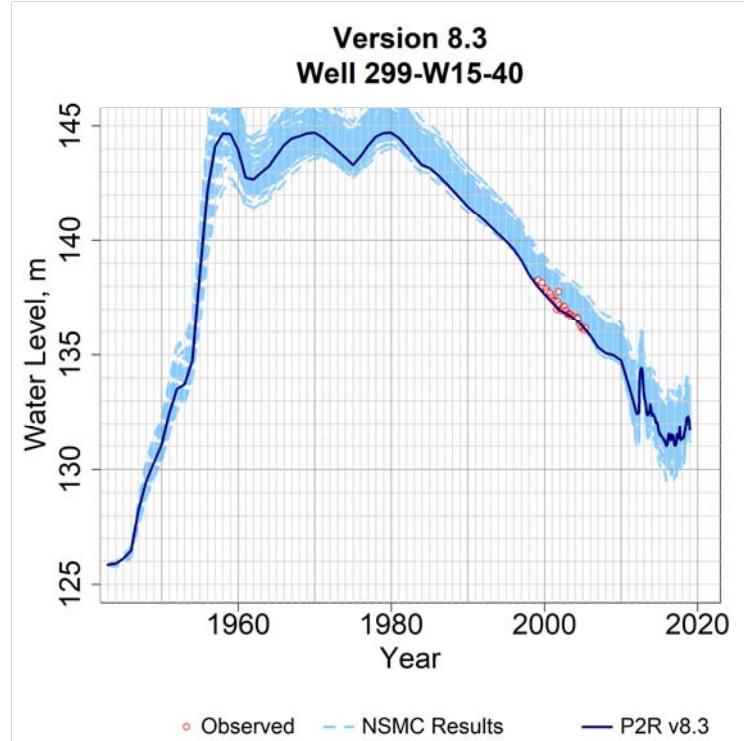


Figure B-333. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-40 for the calibrated model and all model variants from the NSMC.

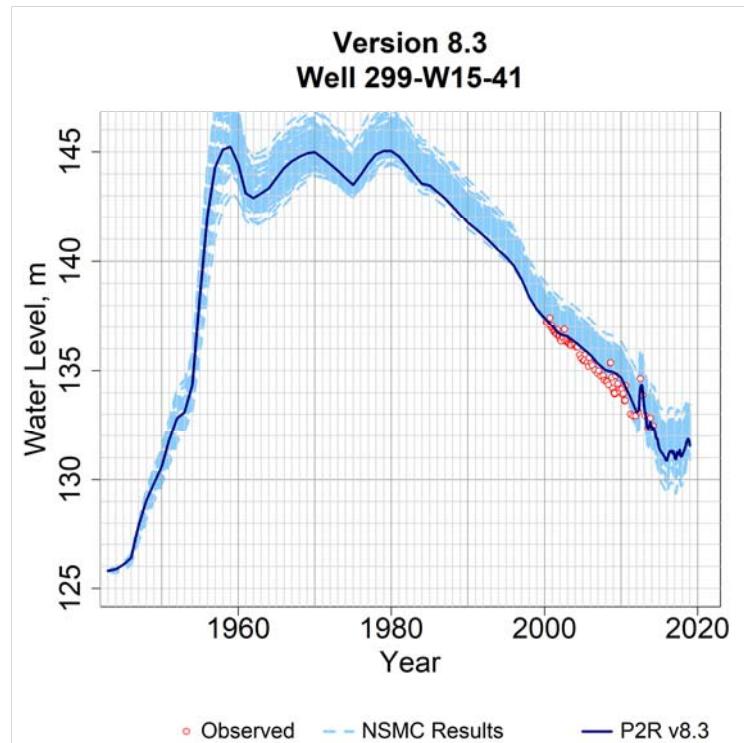


Figure B-334. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-41 for the calibrated model and all model variants from the NSMC.

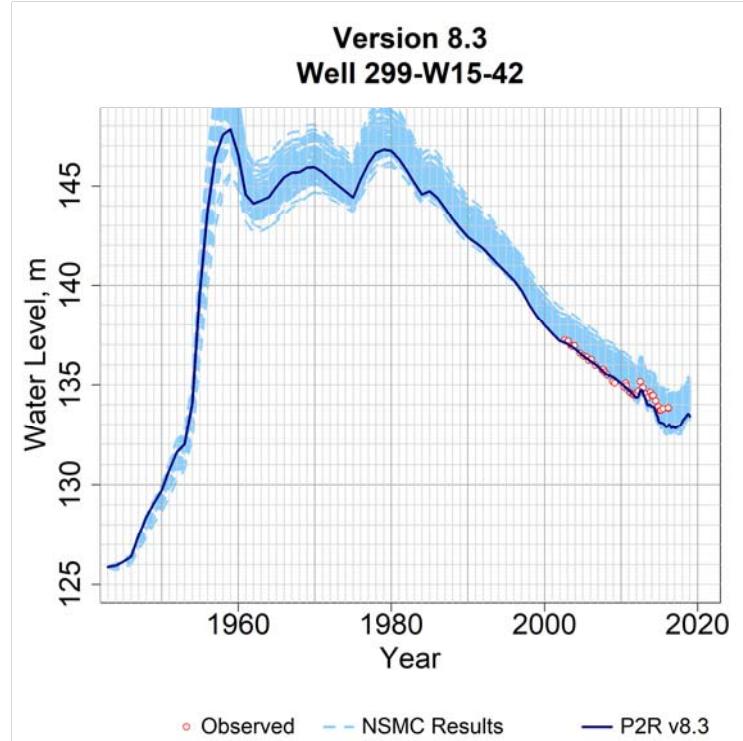


Figure B-335. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-42 for the calibrated model and all model variants from the NSMC.

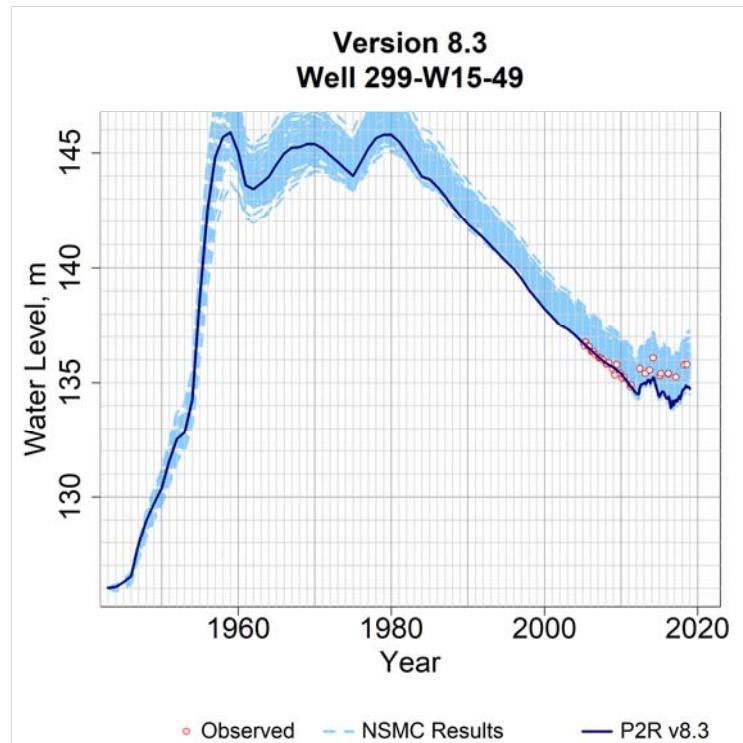


Figure B-336. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-49 for the calibrated model and all model variants from the NSMC.

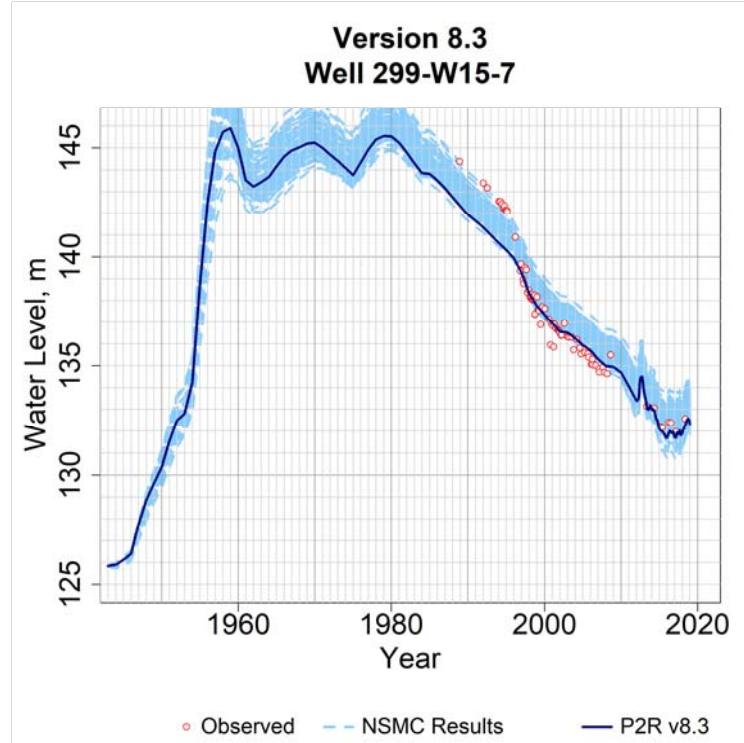


Figure B-337. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-7 for the calibrated model and all model variants from the NSMC.

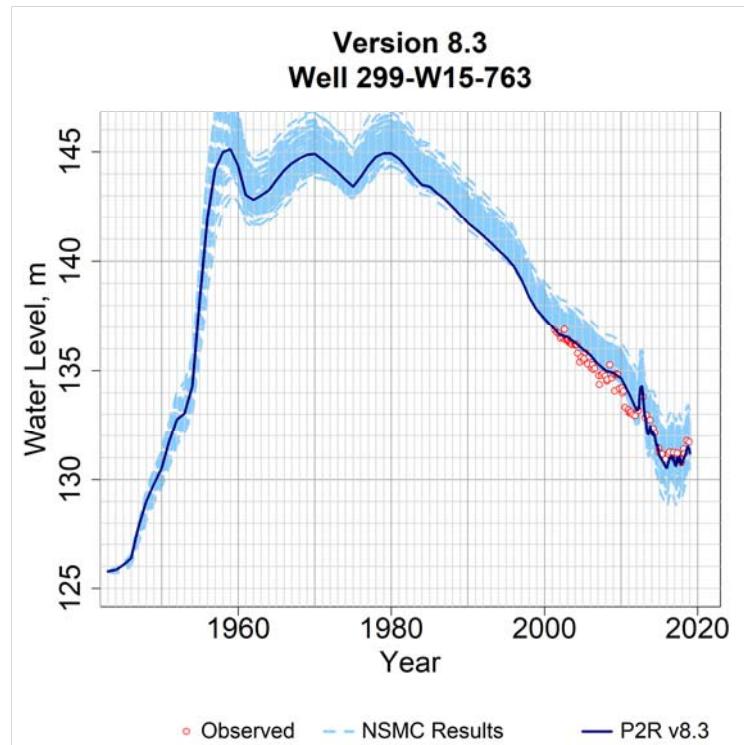


Figure B-338. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-763 for the calibrated model and all model variants from the NSMC.

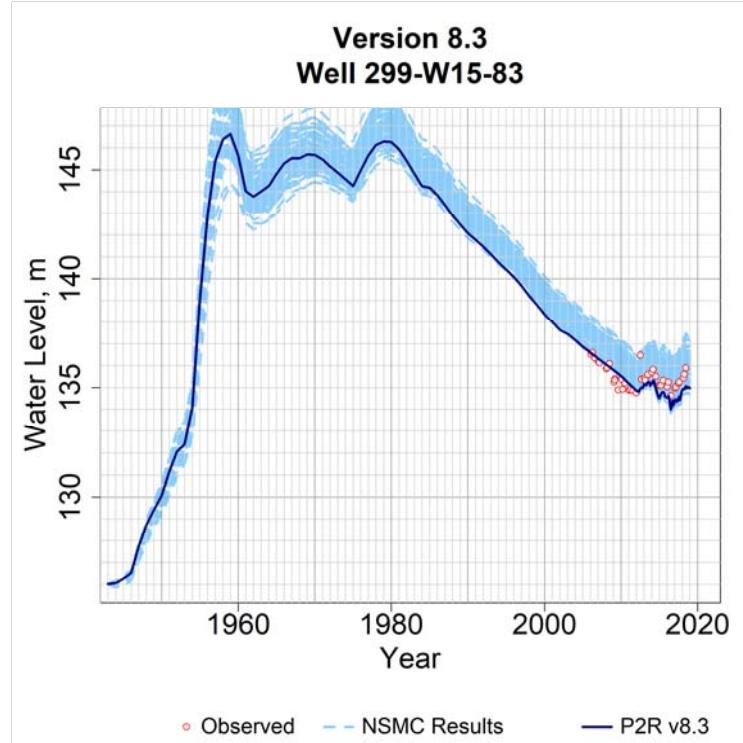


Figure B-339. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-83 for the calibrated model and all model variants from the NSMC.

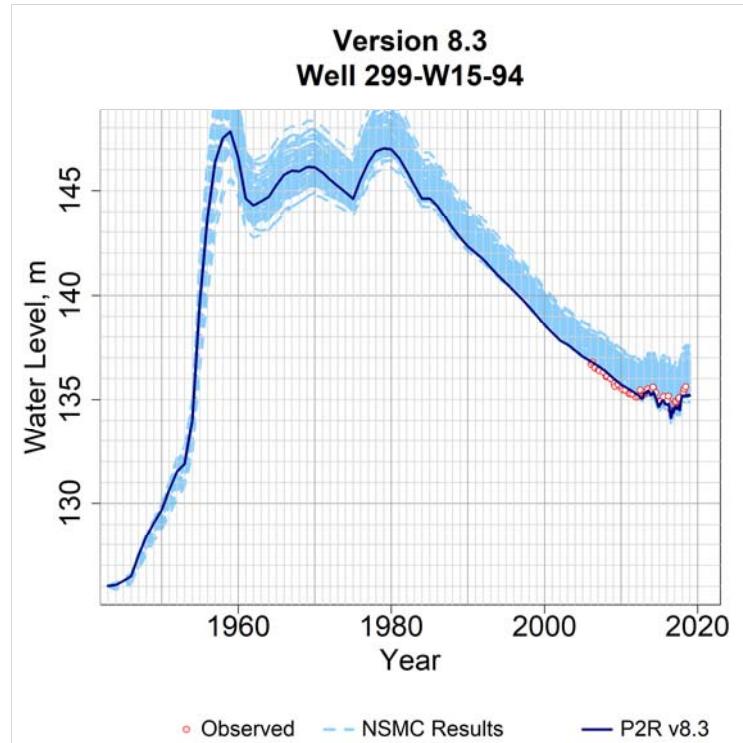


Figure B-340. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W15-94 for the calibrated model and all model variants from the NSMC.

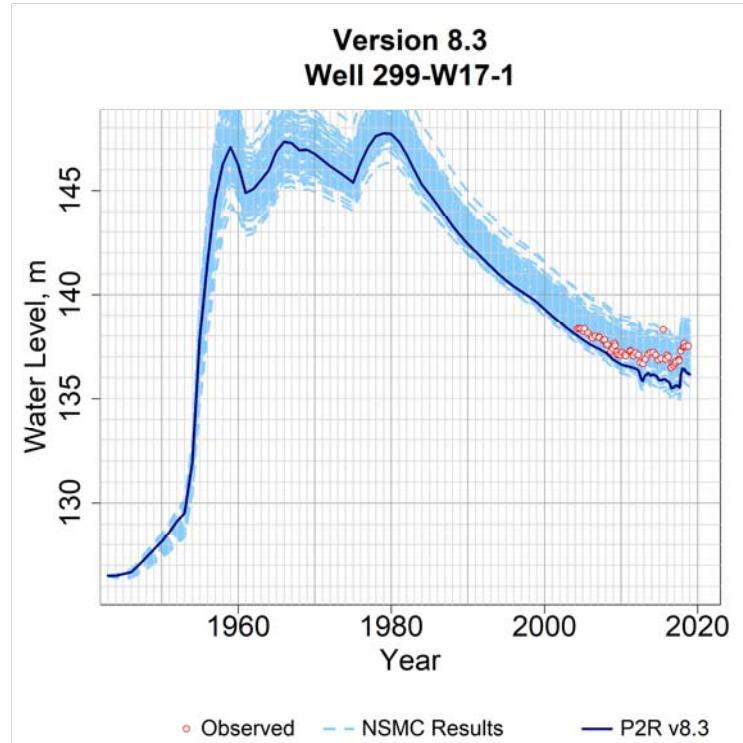


Figure B-341. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W17-1 for the calibrated model and all model variants from the NSMC.

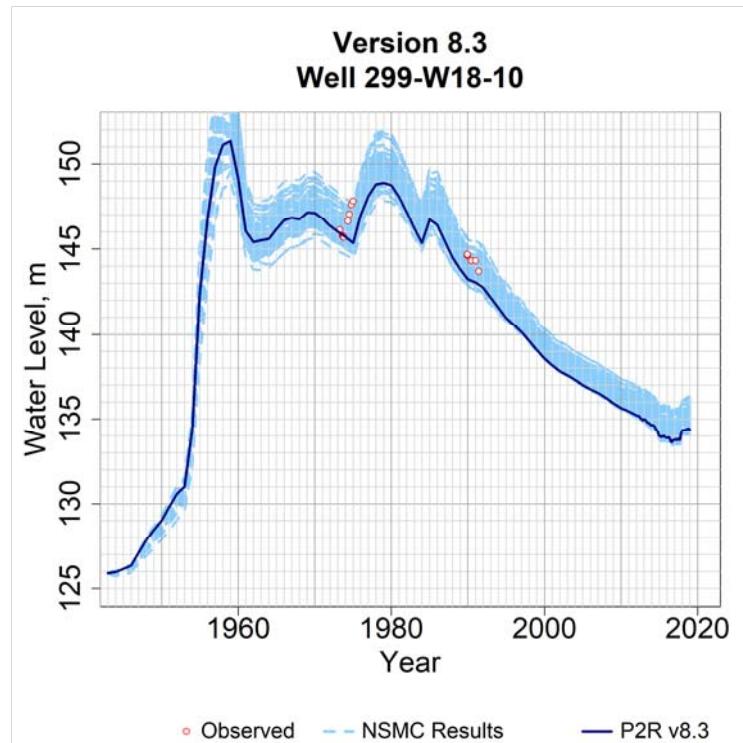


Figure B-342. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-10 for the calibrated model and all model variants from the NSMC.

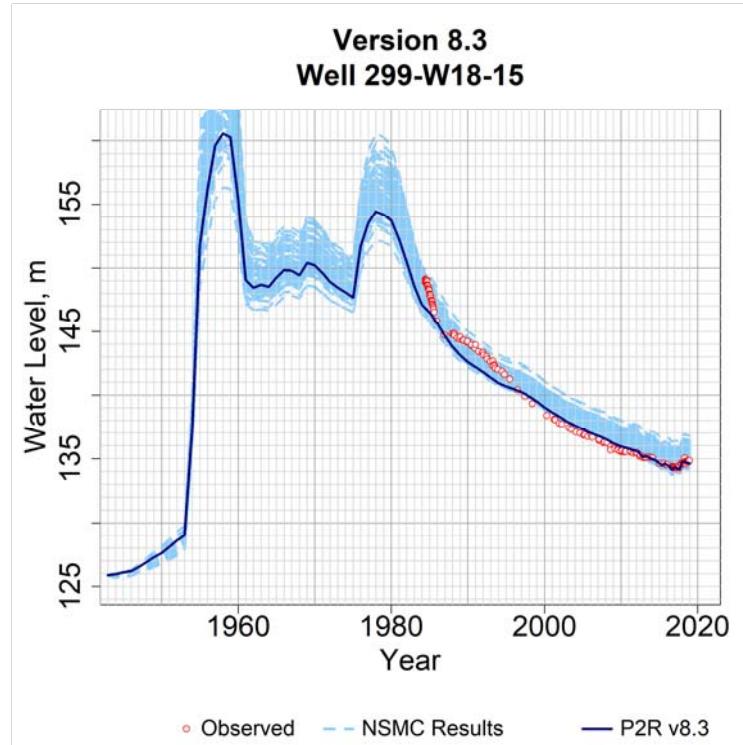


Figure B-343. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-15 for the calibrated model and all model variants from the NSMC.

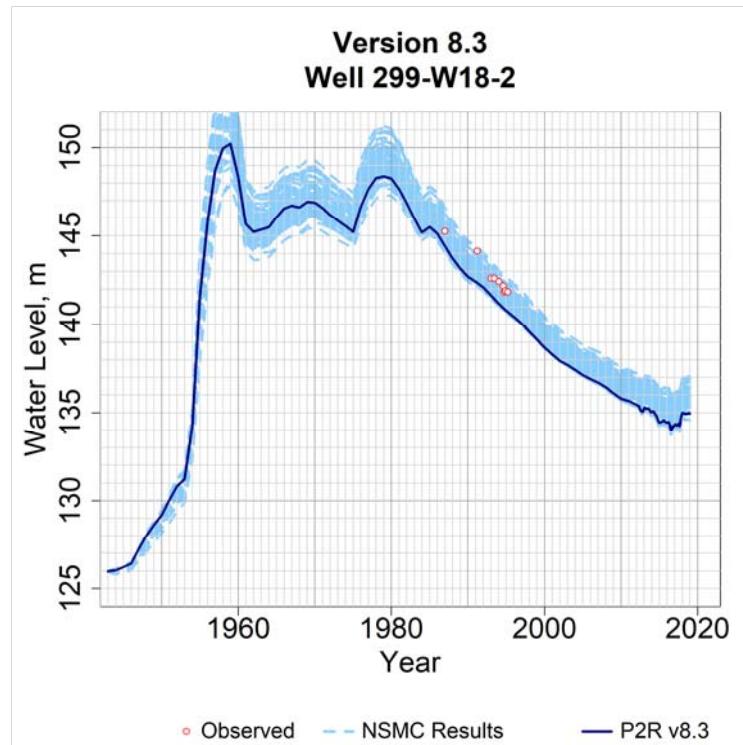


Figure B-344. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-2 for the calibrated model and all model variants from the NSMC.

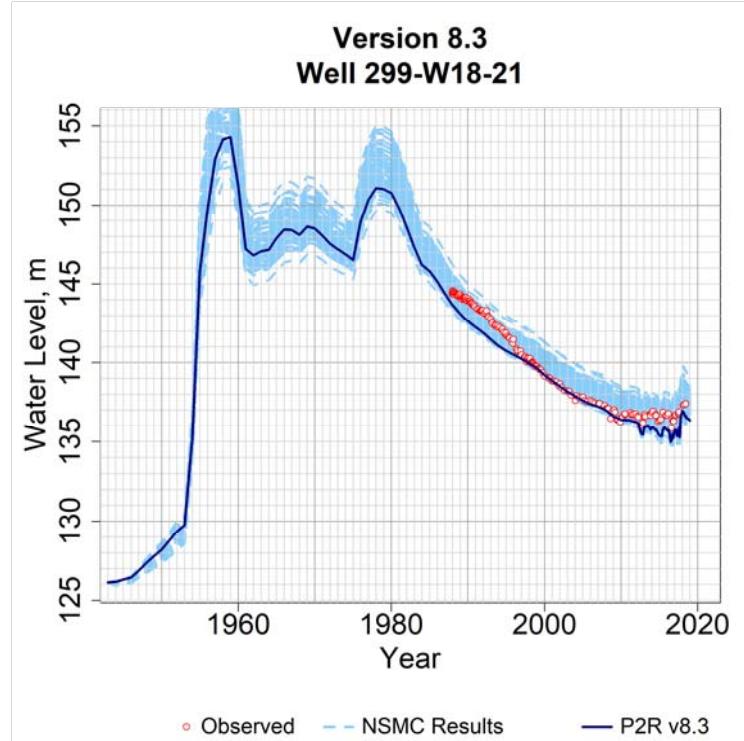


Figure B-345. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-21 for the calibrated model and all model variants from the NSMC.

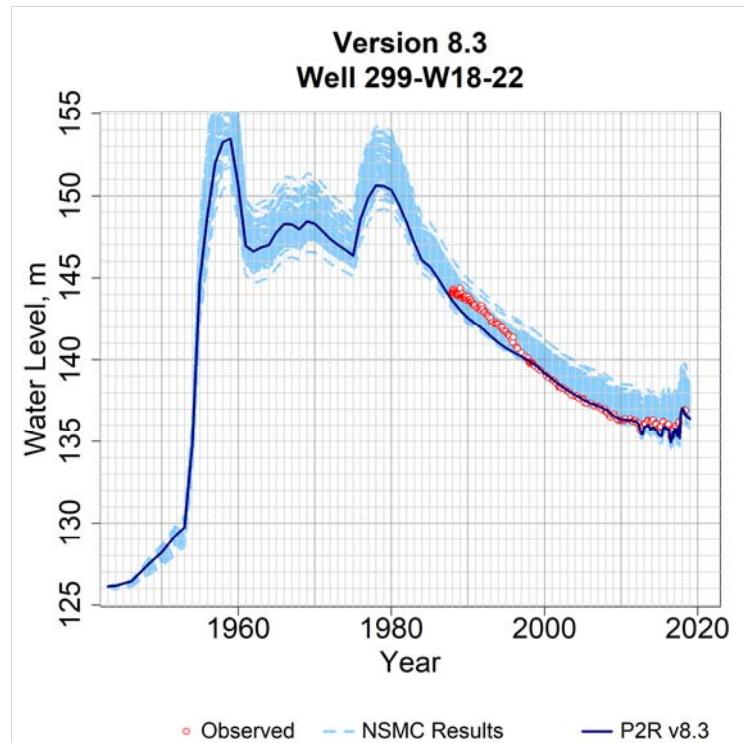


Figure B-346. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-22 for the calibrated model and all model variants from the NSMC.

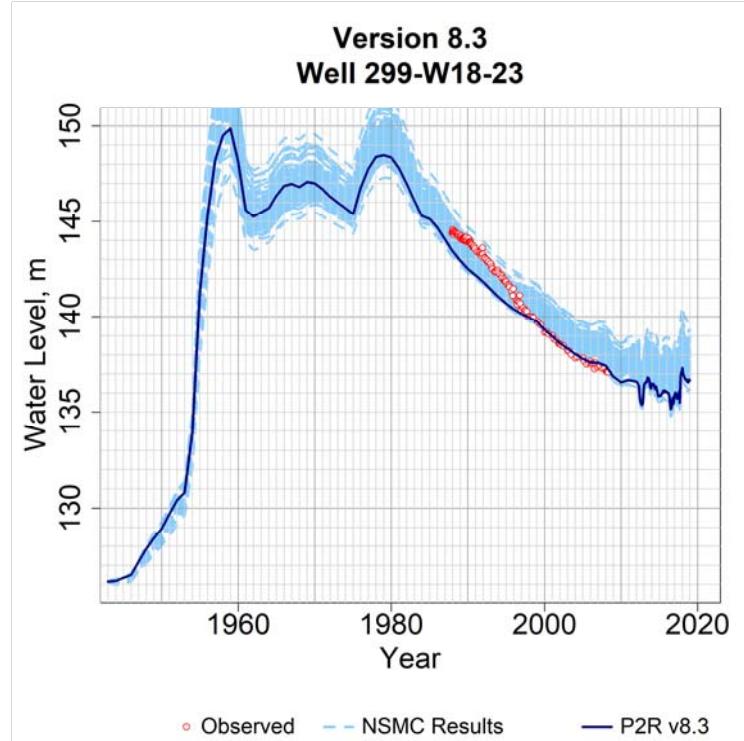


Figure B-347. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-23 for the calibrated model and all model variants from the NSMC.

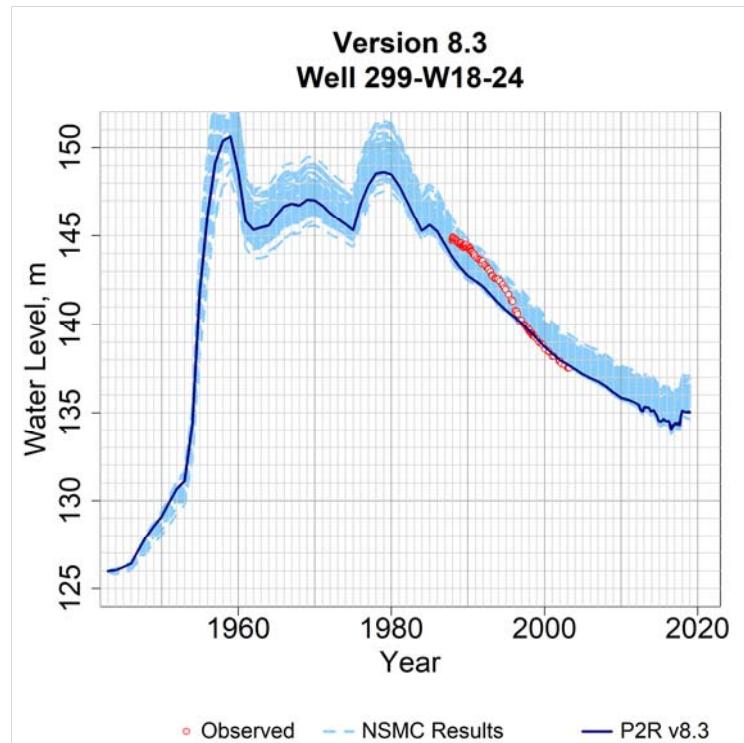


Figure B-348. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-24 for the calibrated model and all model variants from the NSMC.

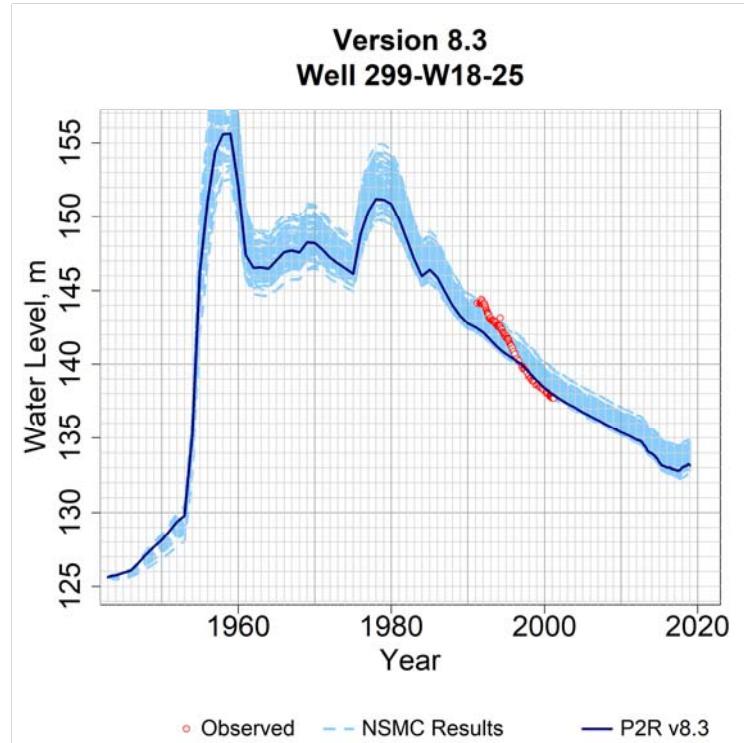


Figure B-349. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-25 for the calibrated model and all model variants from the NSMC.

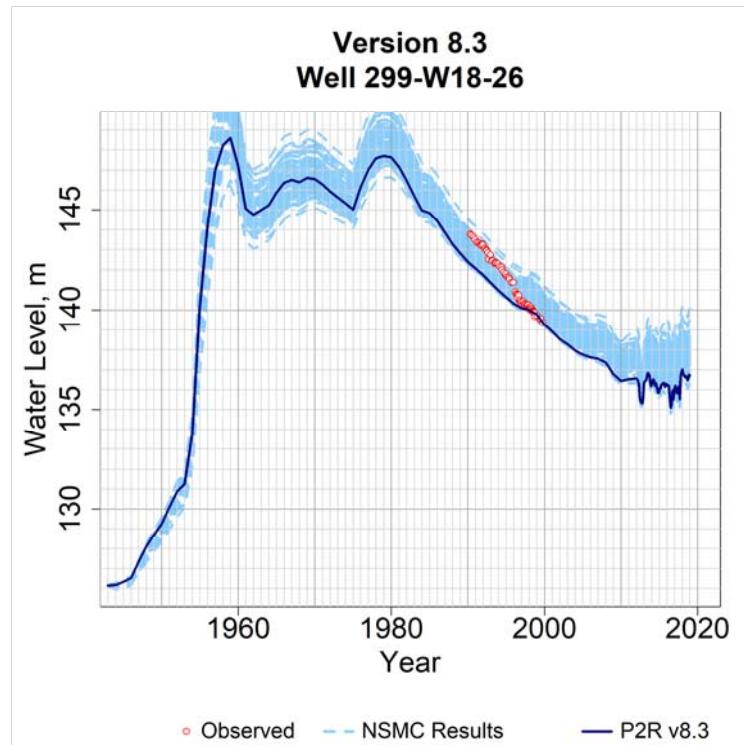


Figure B-350. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-26 for the calibrated model and all model variants from the NSMC.

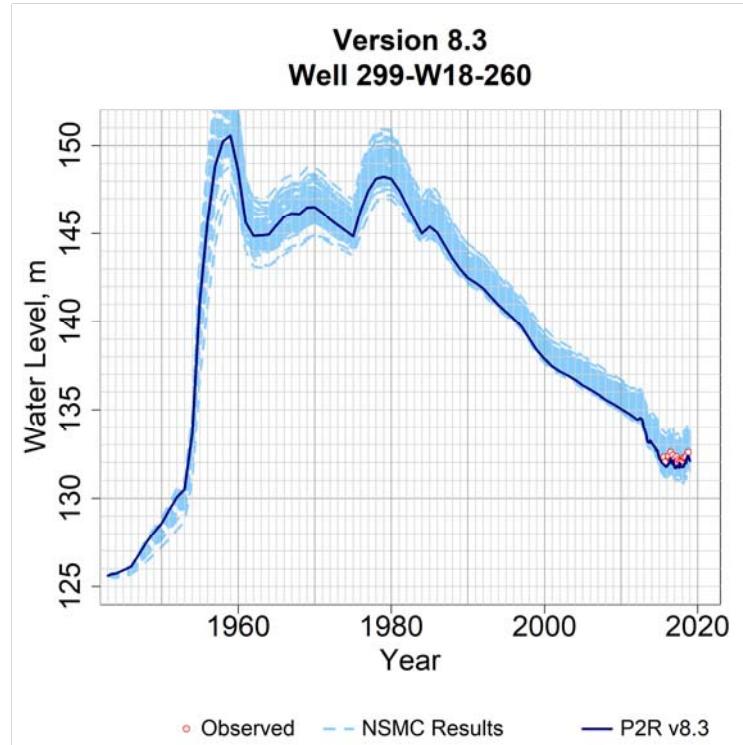


Figure B-351. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-260 for the calibrated model and all model variants from the NSMC.

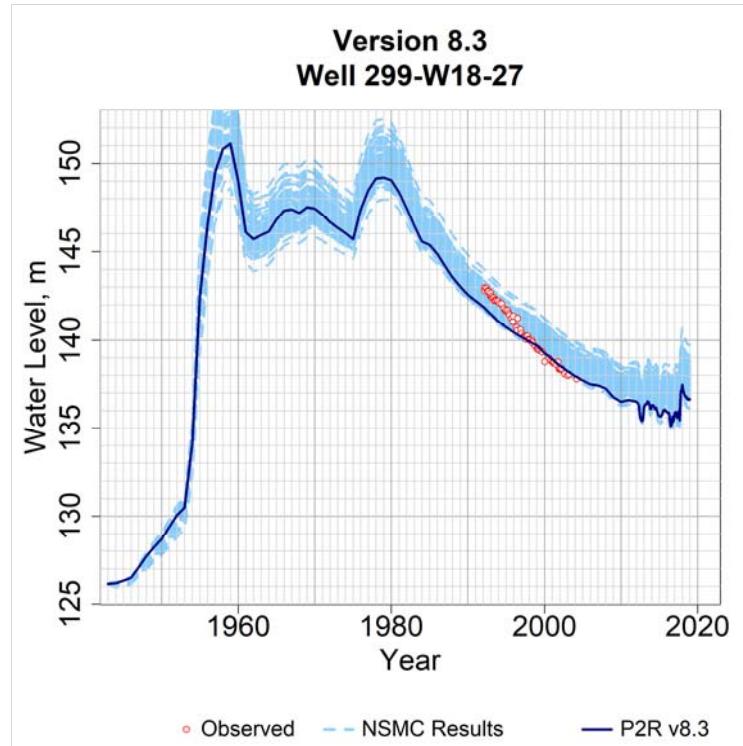


Figure B-352. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-27 for the calibrated model and all model variants from the NSMC.

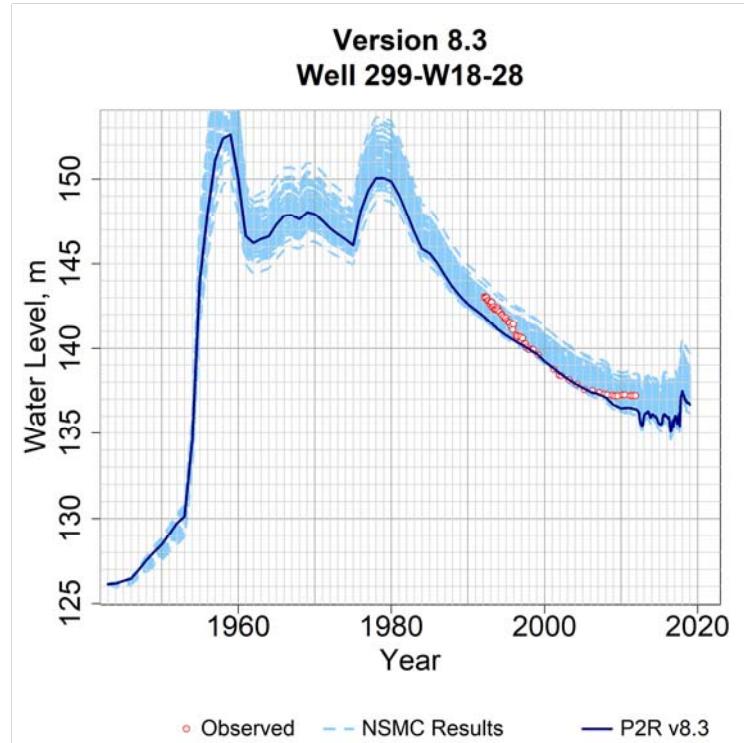


Figure B-353. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-28 for the calibrated model and all model variants from the NSMC.

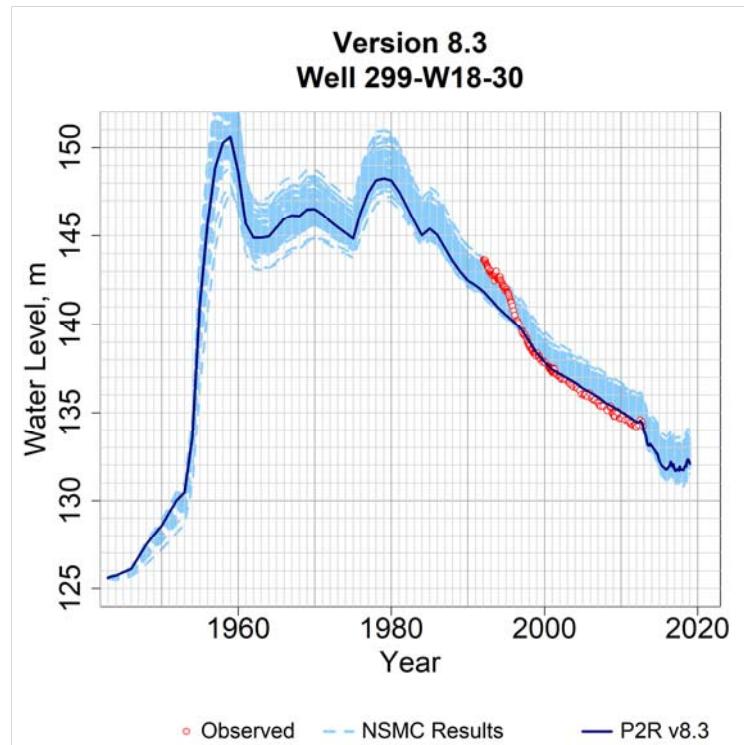


Figure B-354. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-30 for the calibrated model and all model variants from the NSMC.

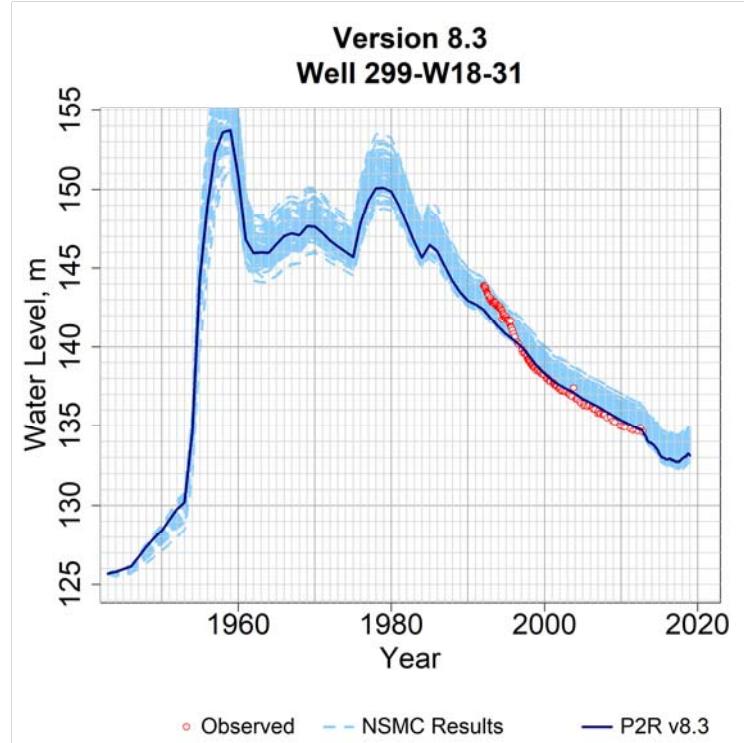


Figure B-355. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-31 for the calibrated model and all model variants from the NSMC.

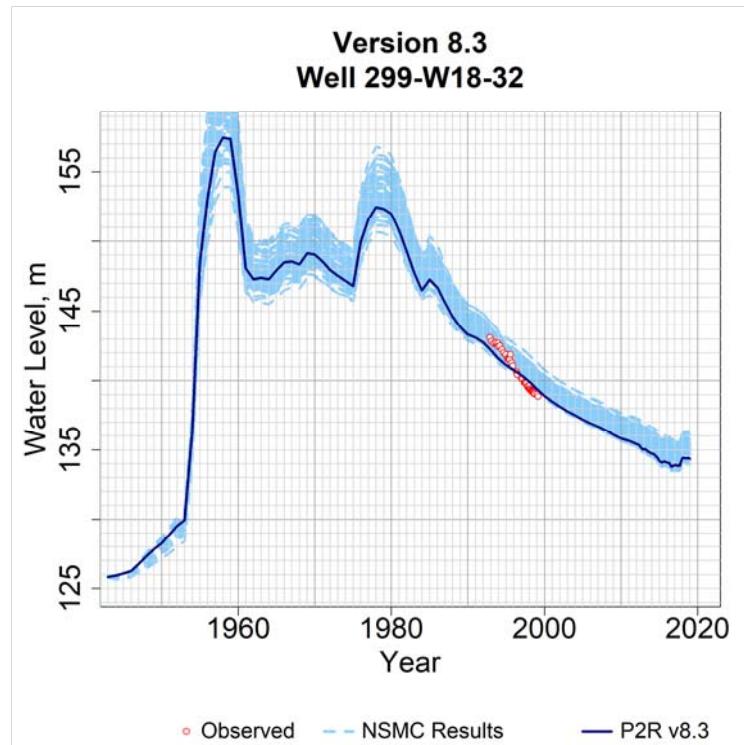


Figure B-356. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-32 for the calibrated model and all model variants from the NSMC.

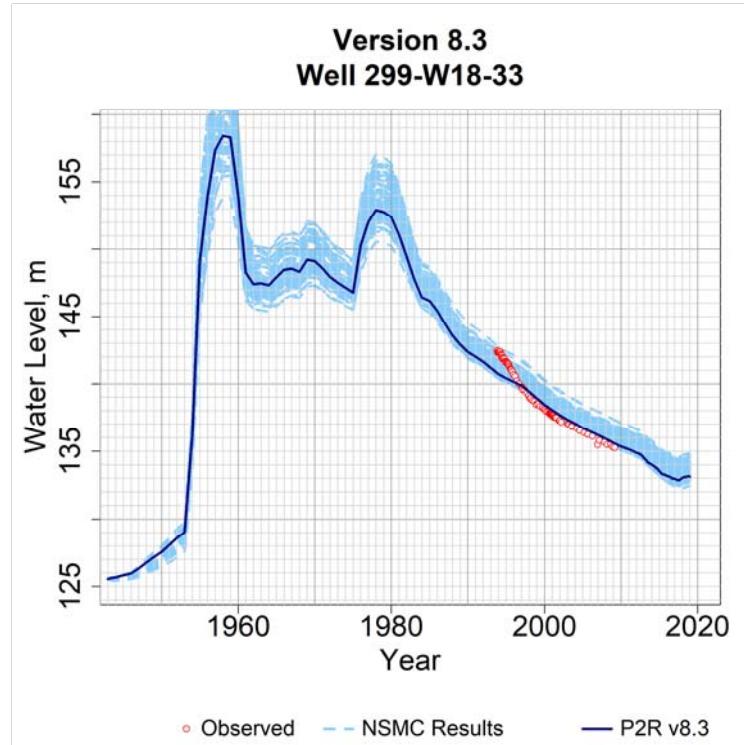


Figure B-357. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-33 for the calibrated model and all model variants from the NSMC.

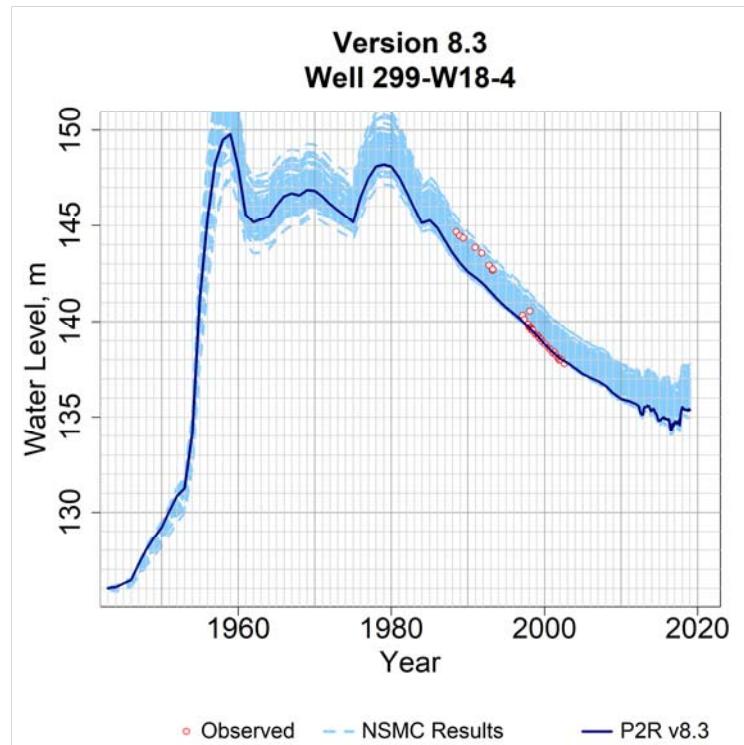


Figure B-358. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-4 for the calibrated model and all model variants from the NSMC.

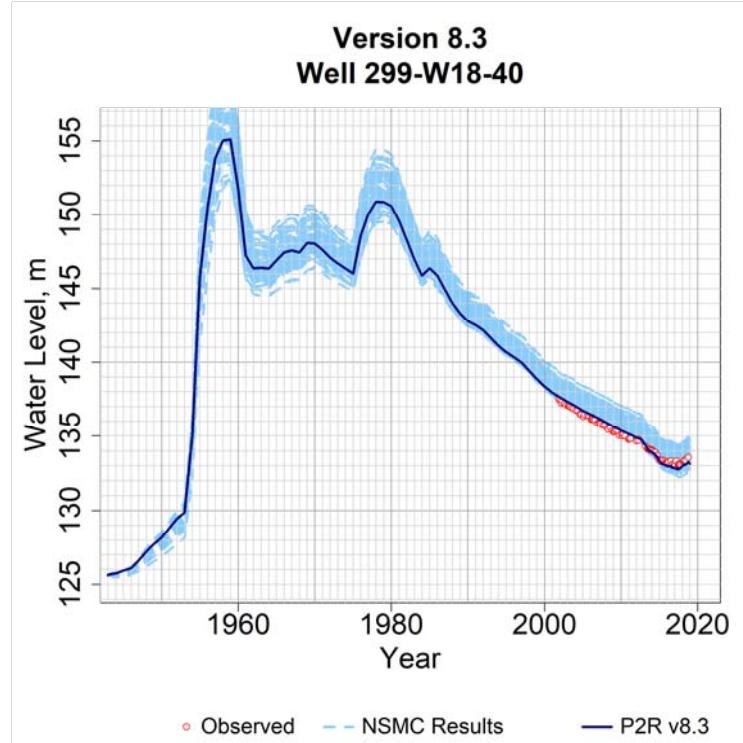


Figure B-359. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-40 for the calibrated model and all model variants from the NSMC.

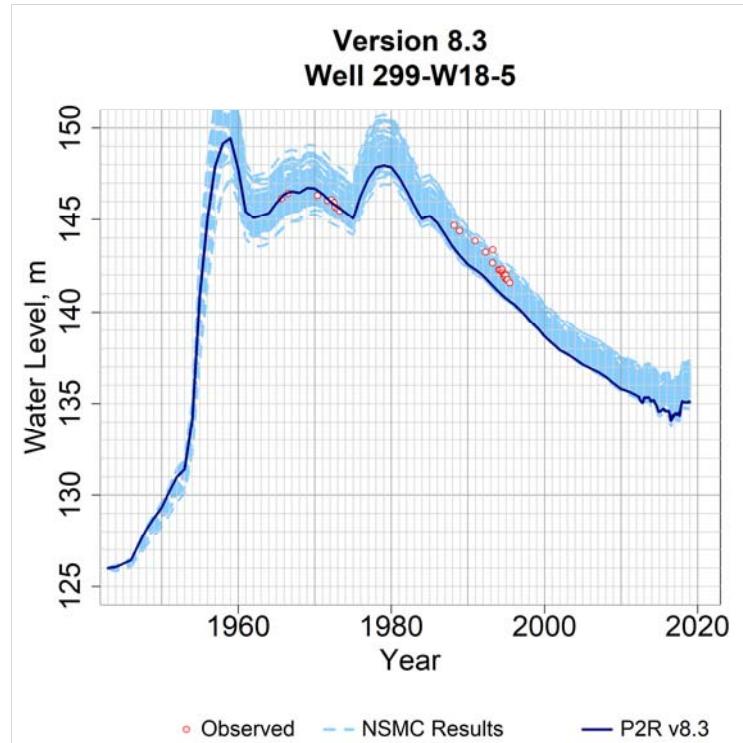


Figure B-360. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-5 for the calibrated model and all model variants from the NSMC.

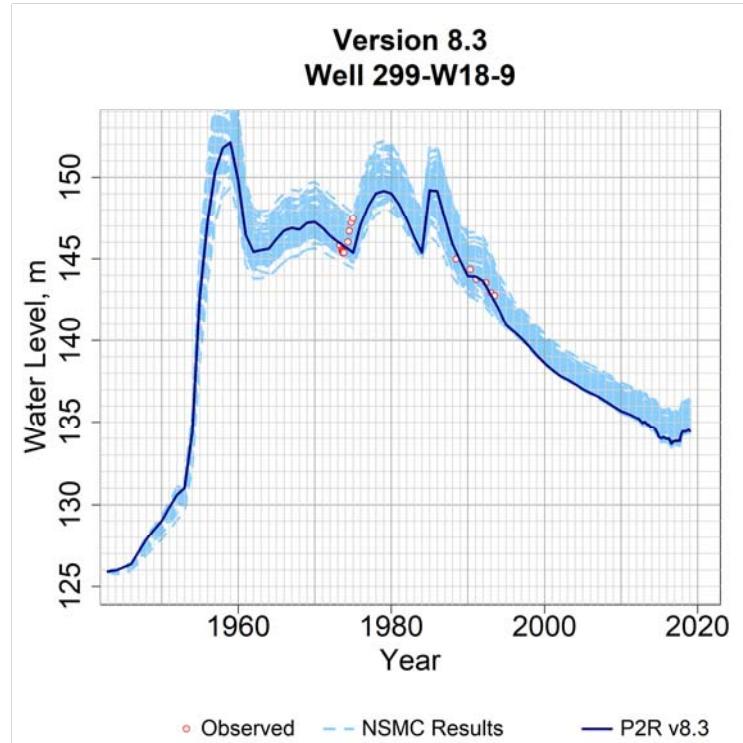


Figure B-361. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W18-9 for the calibrated model and all model variants from the NSMC.

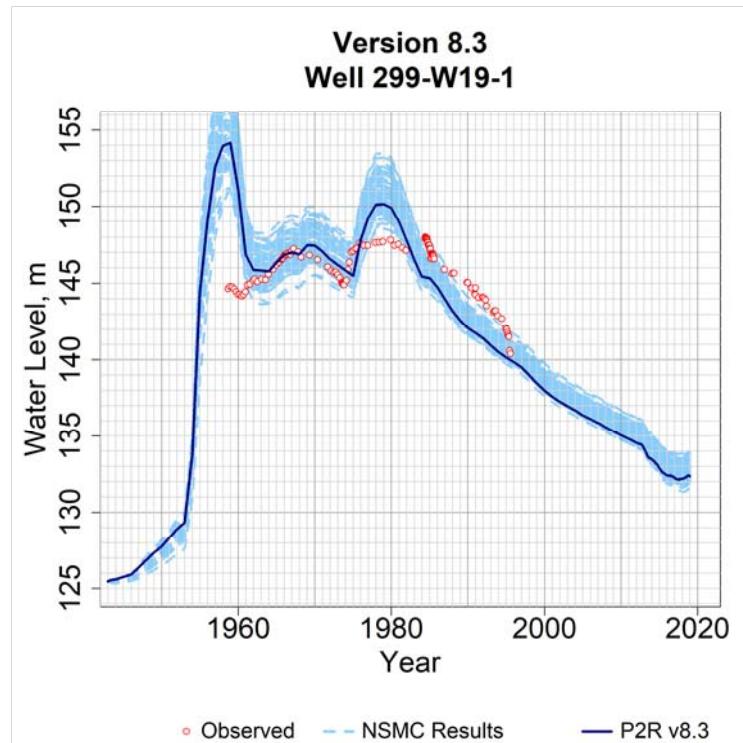


Figure B-362. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-1 for the calibrated model and all model variants from the NSMC.

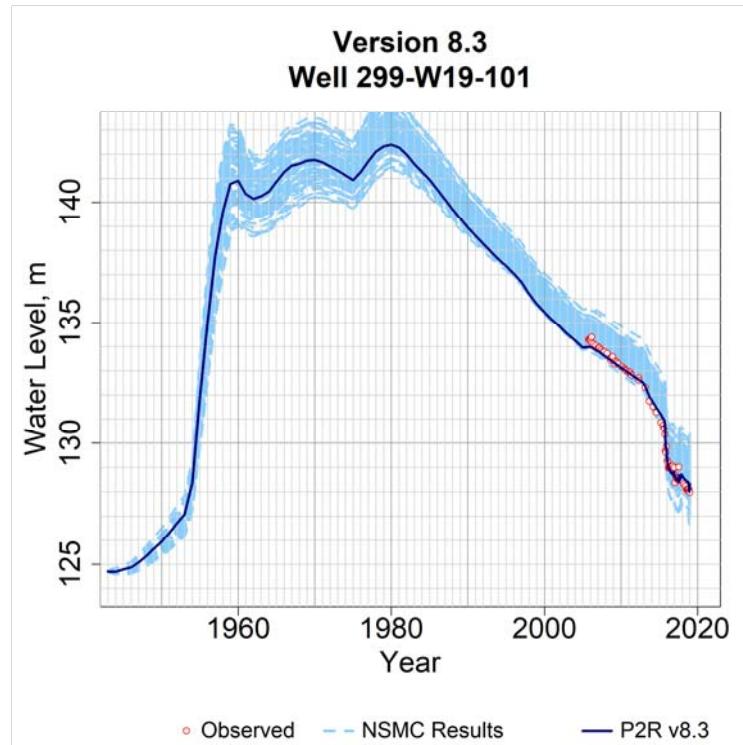


Figure B-363. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-101 for the calibrated model and all model variants from the NSMC.

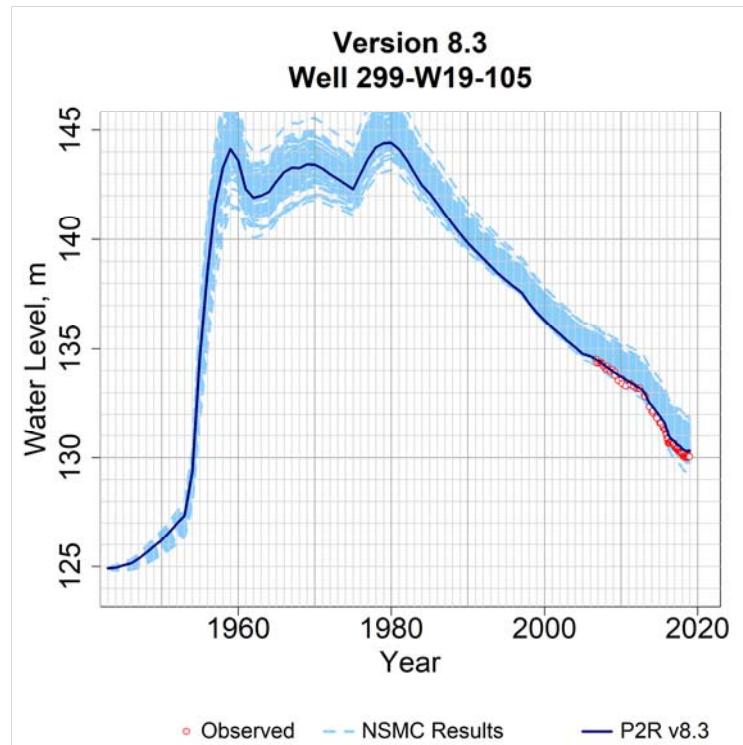


Figure B-364. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-105 for the calibrated model and all model variants from the NSMC.

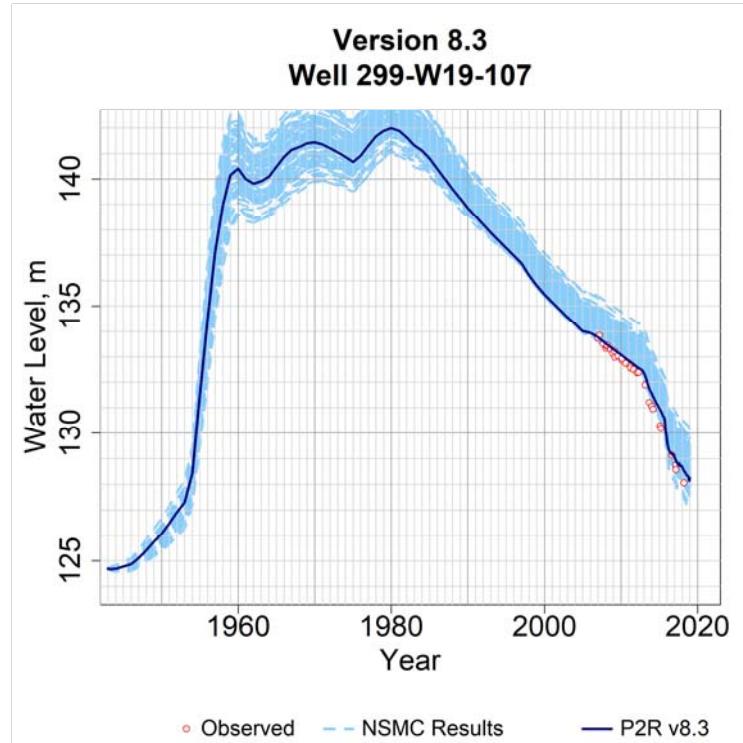


Figure B-365. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-107 for the calibrated model and all model variants from the NSMC.

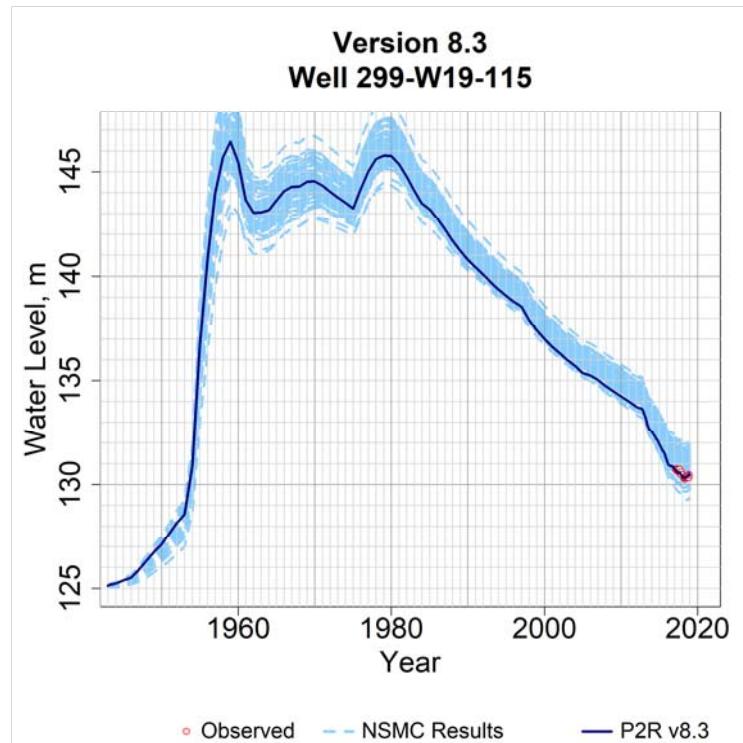


Figure B-366. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-115 for the calibrated model and all model variants from the NSMC.

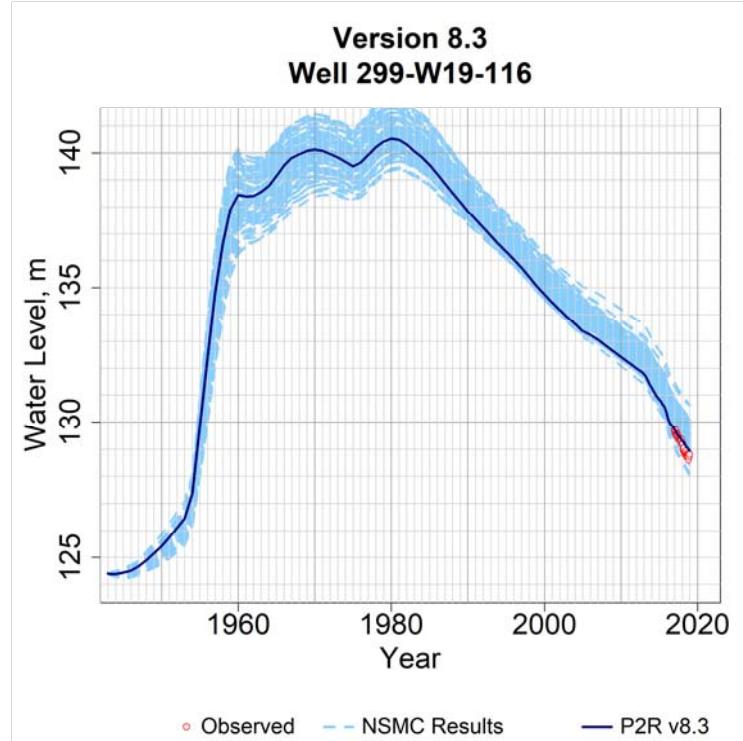


Figure B-367. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-116 for the calibrated model and all model variants from the NSMC.

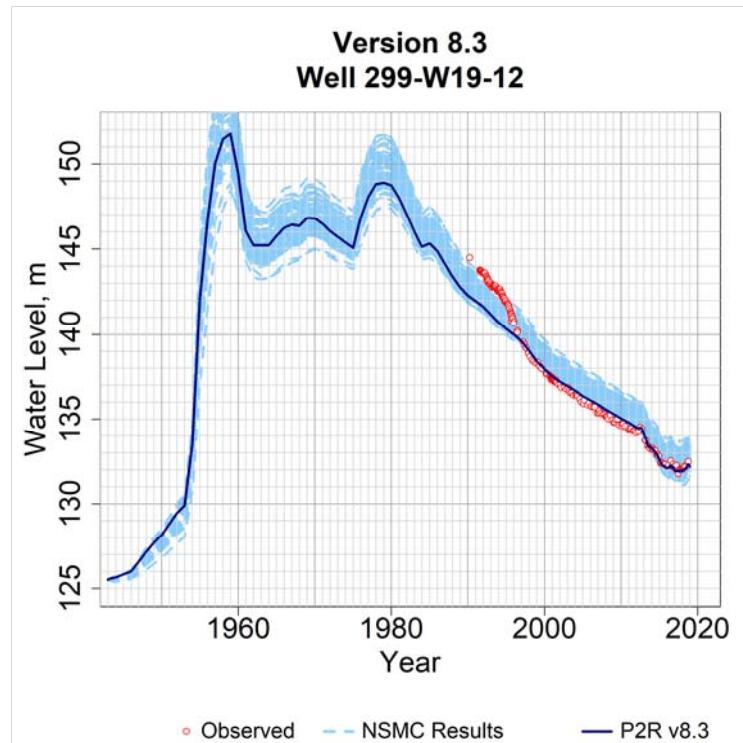


Figure B-368. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-12 for the calibrated model and all model variants from the NSMC.

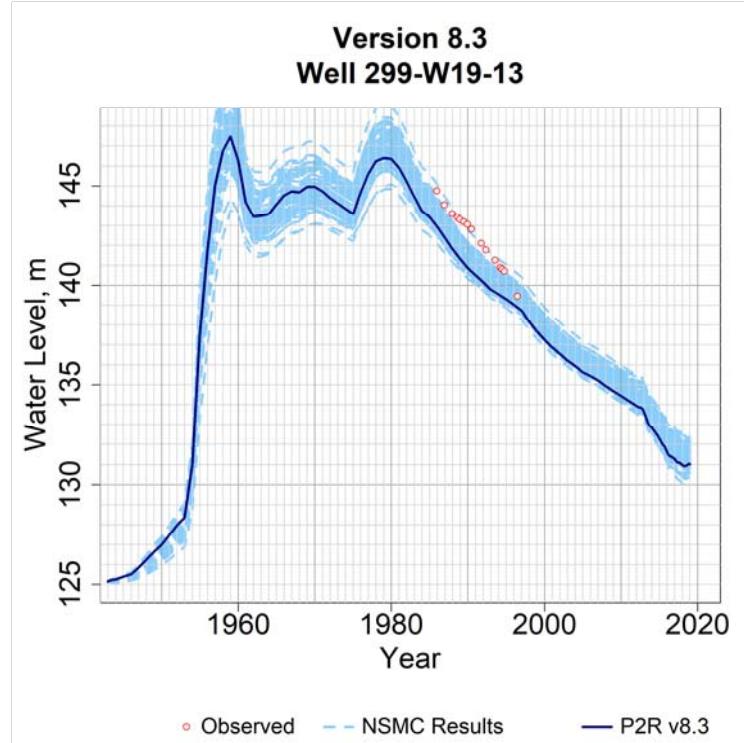


Figure B-369. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-13 for the calibrated model and all model variants from the NSMC.

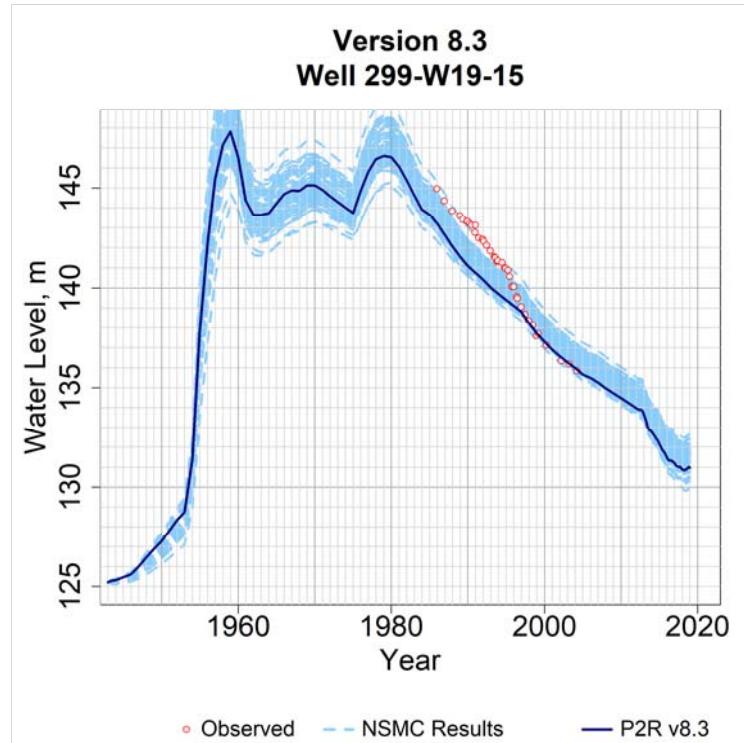


Figure B-370. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-15 for the calibrated model and all model variants from the NSMC.

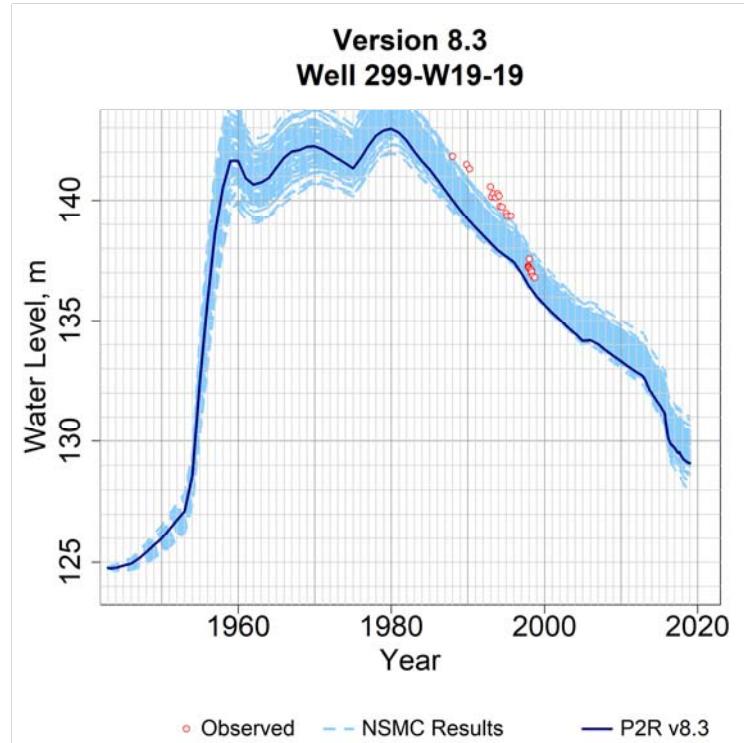


Figure B-371. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-19 for the calibrated model and all model variants from the NSMC.

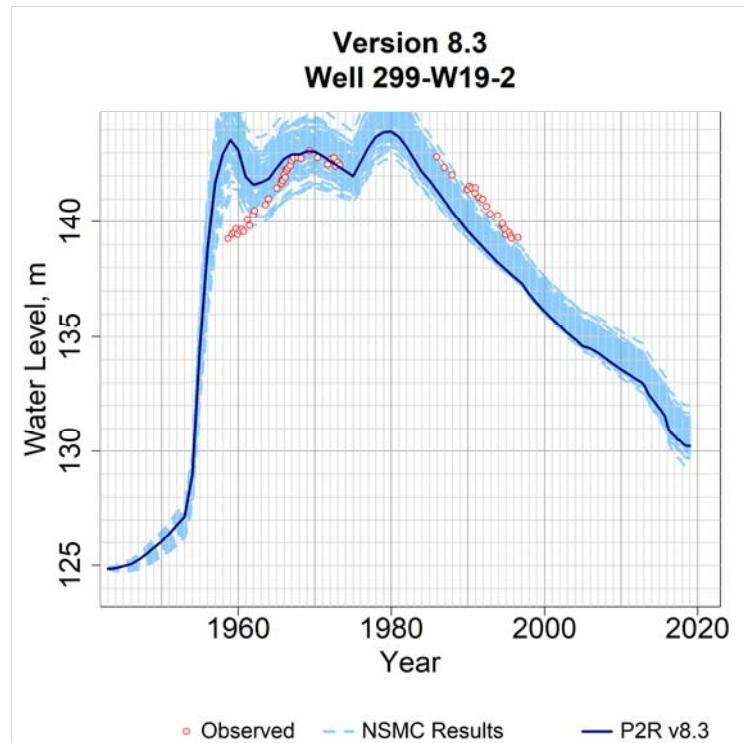


Figure B-372. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-2 for the calibrated model and all model variants from the NSMC.

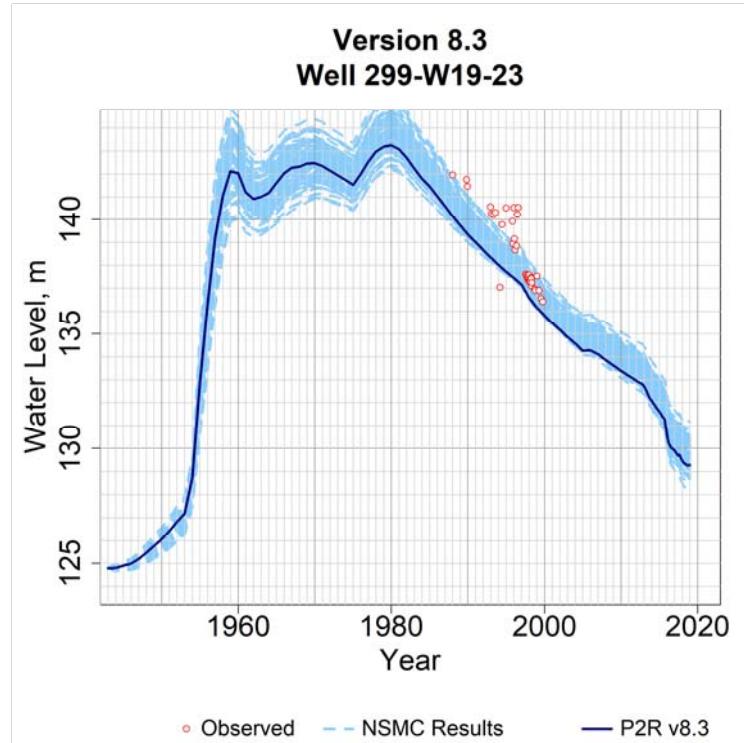


Figure B-373. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-23 for the calibrated model and all model variants from the NSMC.

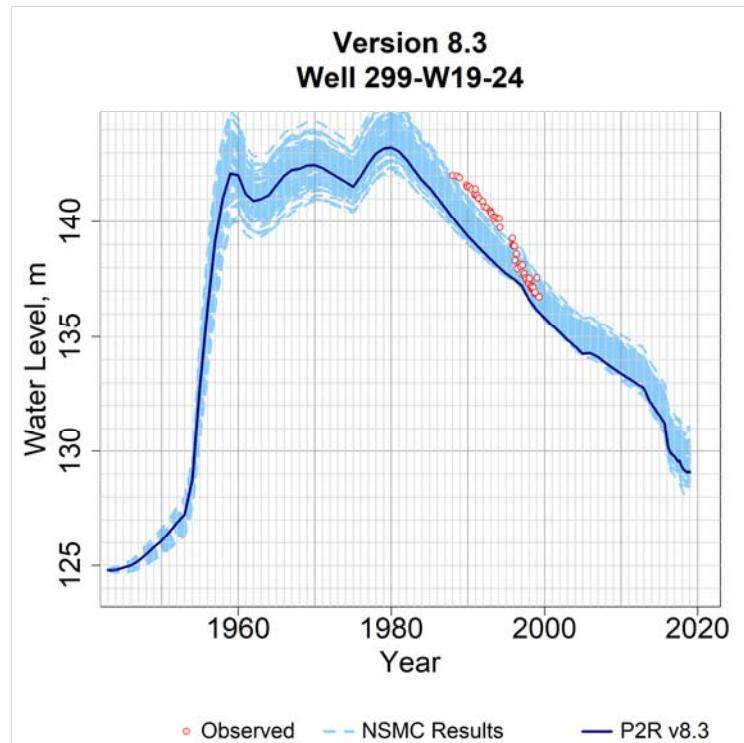


Figure B-374. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-24 for the calibrated model and all model variants from the NSMC.

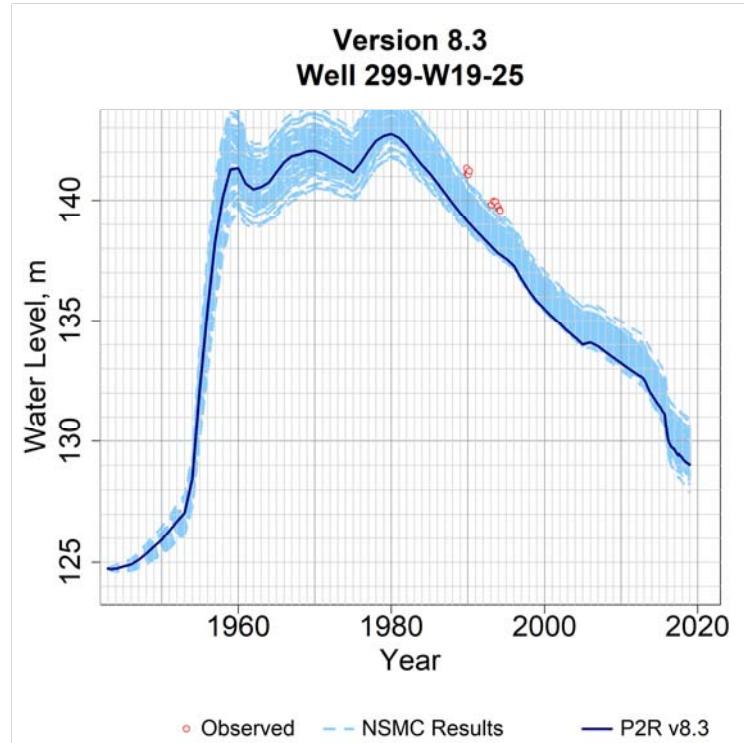


Figure B-375. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-25 for the calibrated model and all model variants from the NSMC.

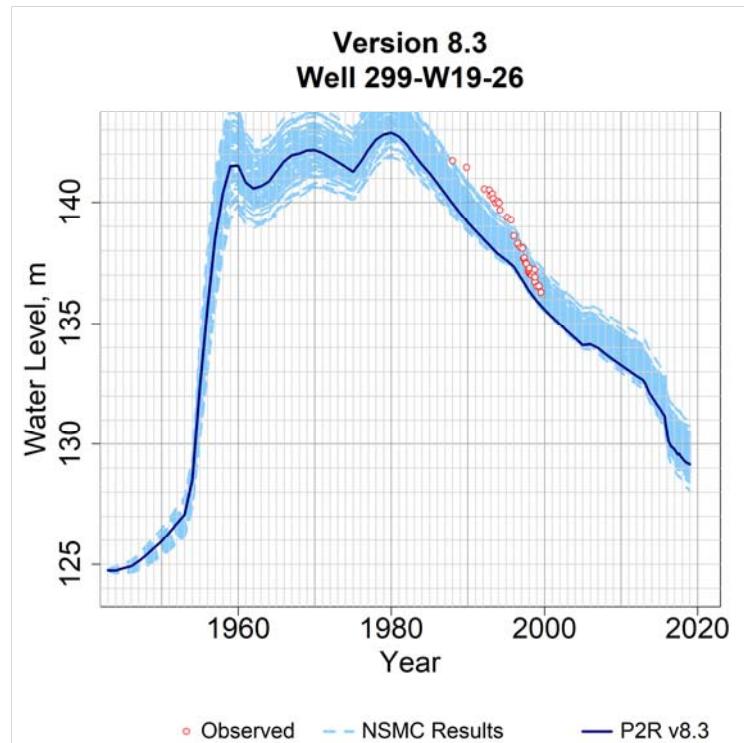


Figure B-376. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-26 for the calibrated model and all model variants from the NSMC.

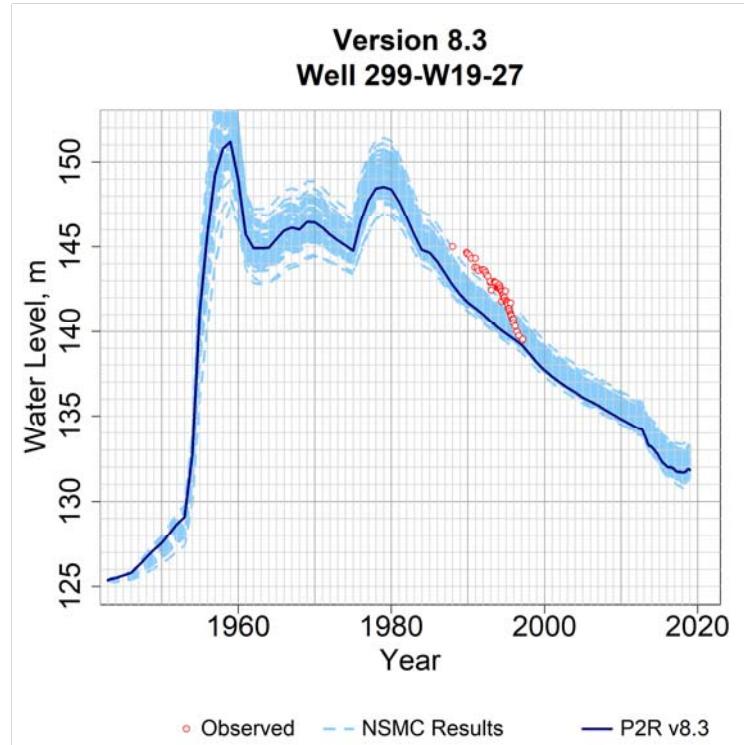


Figure B-377. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-27 for the calibrated model and all model variants from the NSMC.

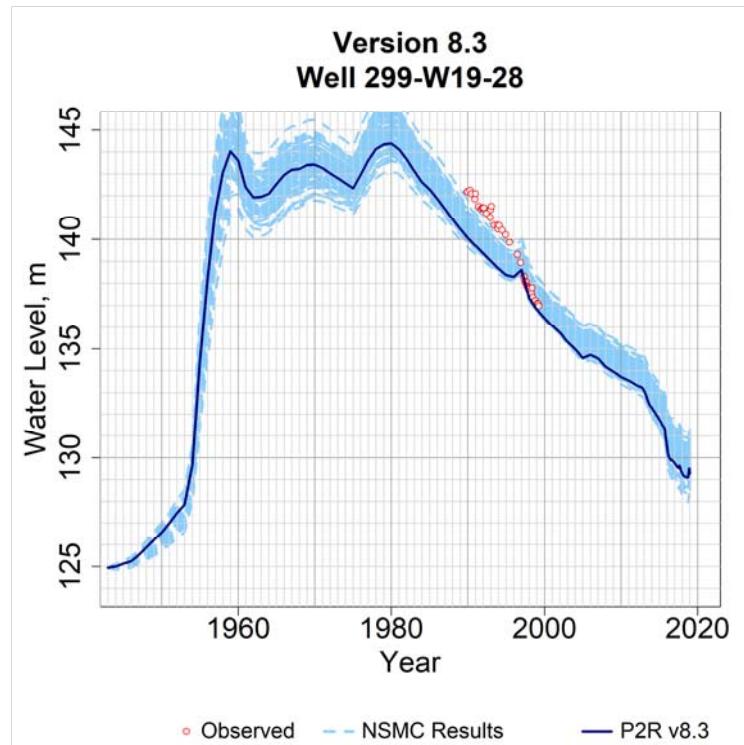


Figure B-378. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-28 for the calibrated model and all model variants from the NSMC.

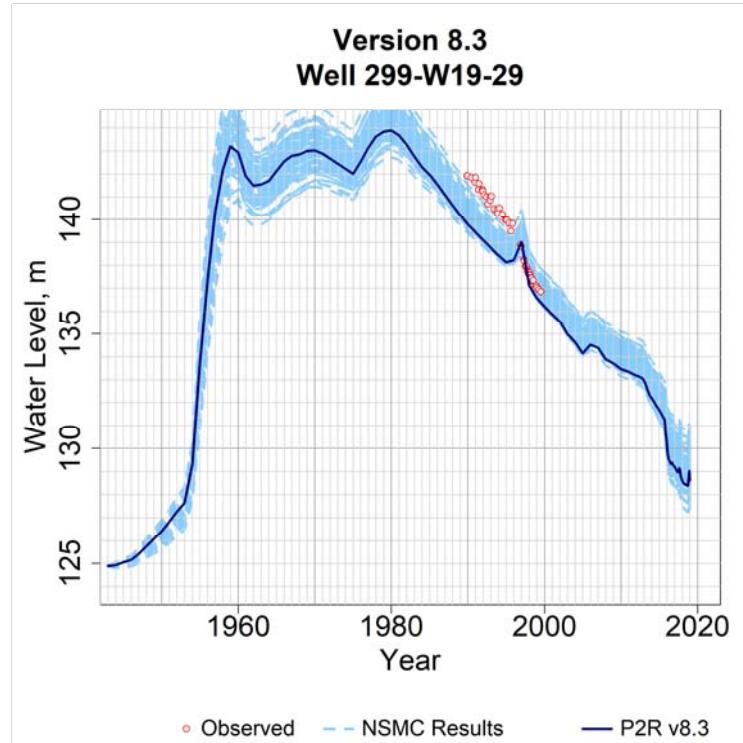


Figure B-379. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-29 for the calibrated model and all model variants from the NSMC.

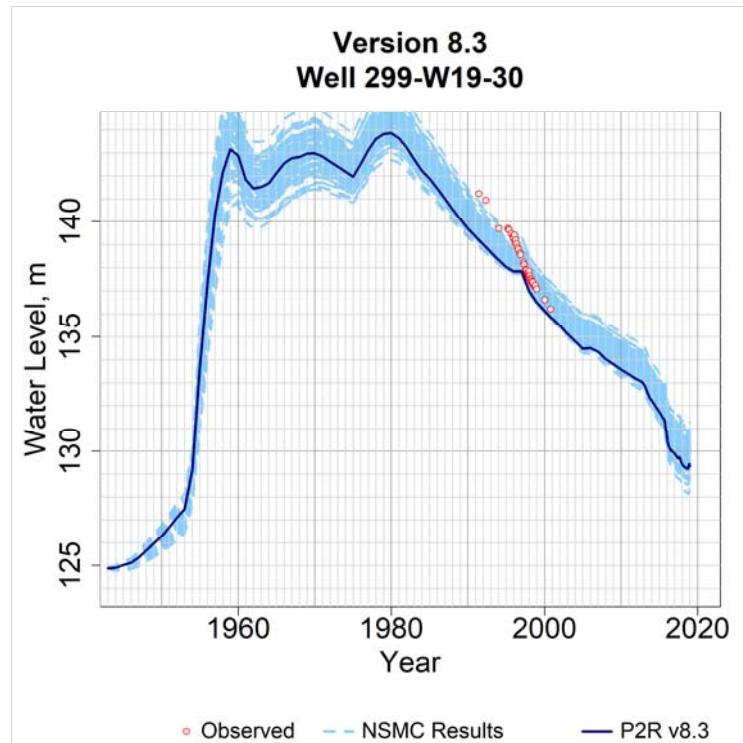


Figure B-380. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-30 for the calibrated model and all model variants from the NSMC.

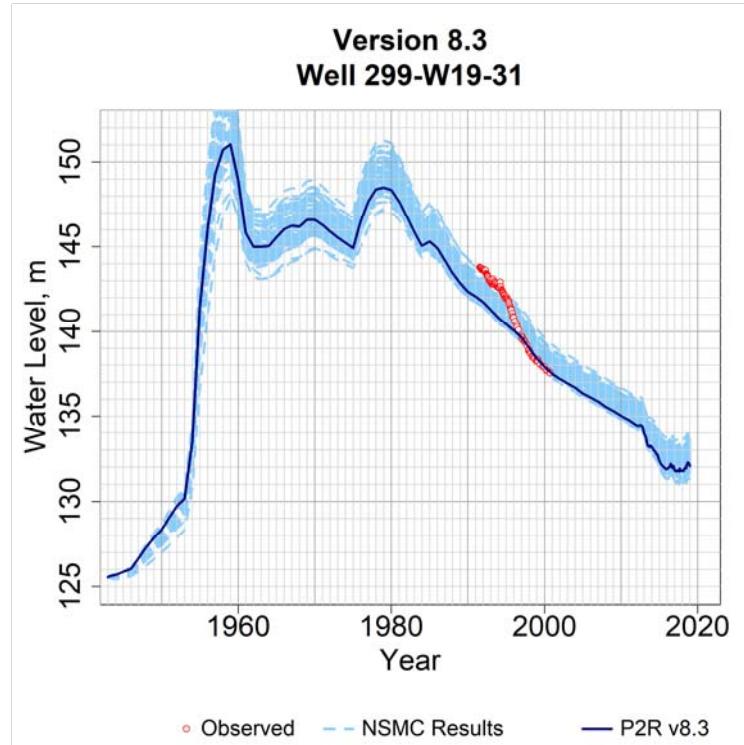


Figure B-381. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-31 for the calibrated model and all model variants from the NSMC.

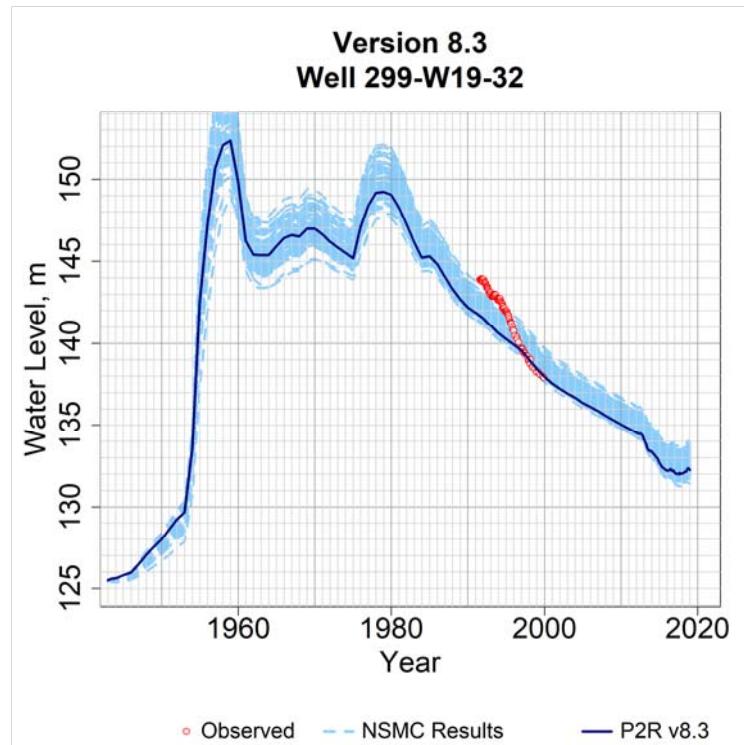


Figure B-382. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-32 for the calibrated model and all model variants from the NSMC.

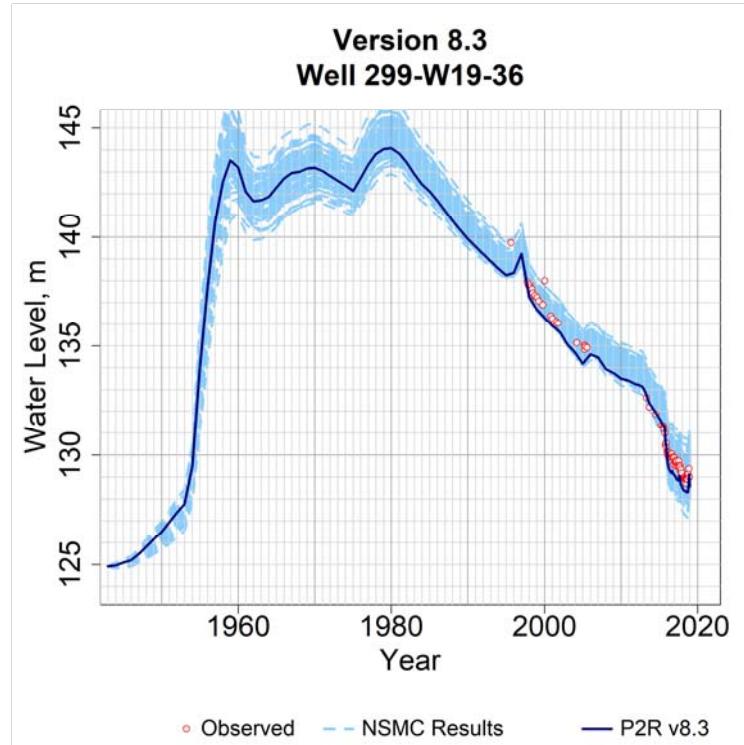


Figure B-383. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-36 for the calibrated model and all model variants from the NSMC.

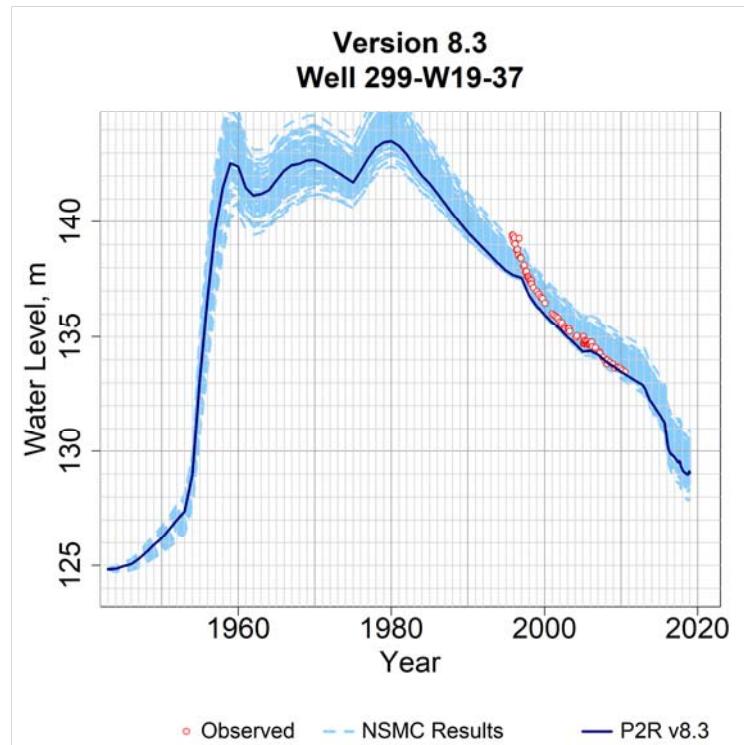


Figure B-384. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-37 for the calibrated model and all model variants from the NSMC.

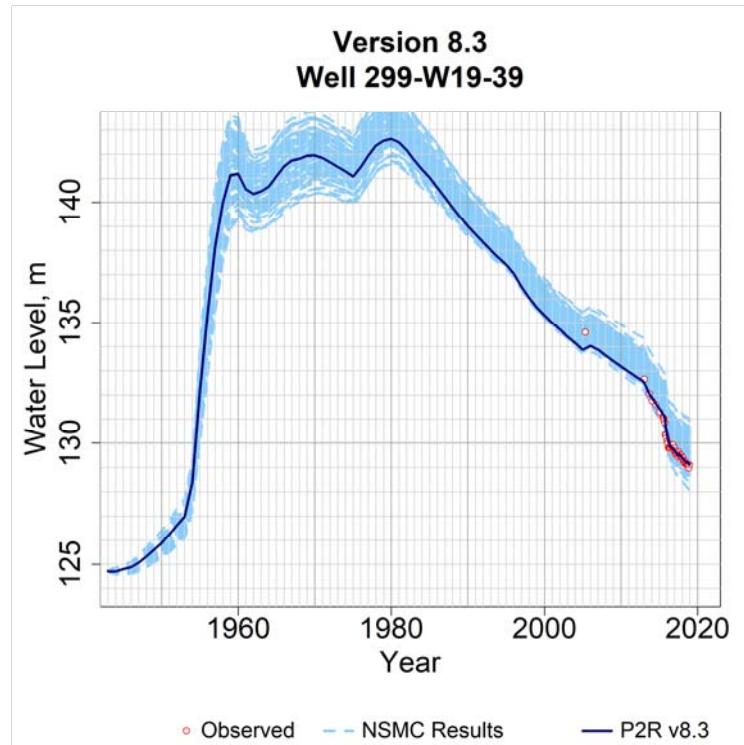


Figure B-385. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-39 for the calibrated model and all model variants from the NSMC.

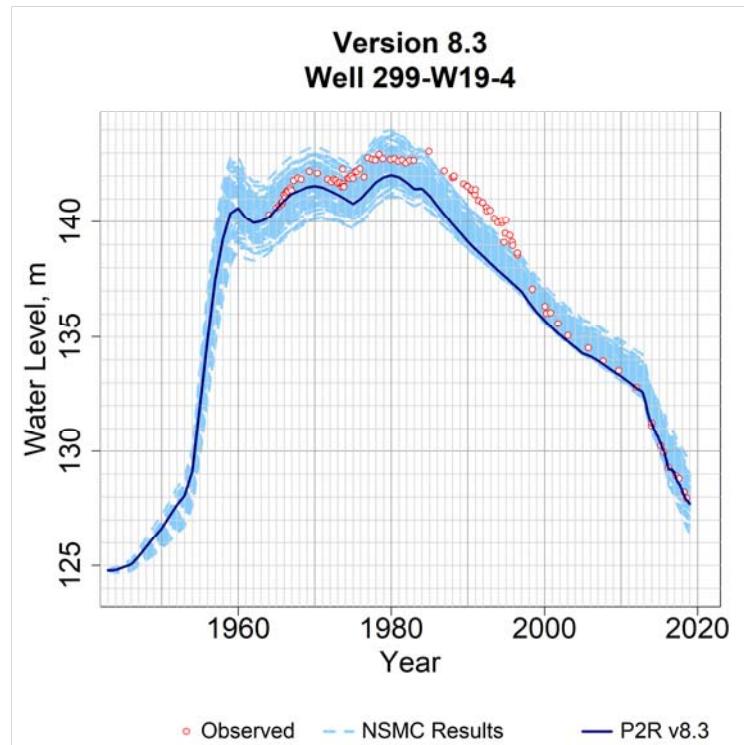


Figure B-386. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-4 for the calibrated model and all model variants from the NSMC.

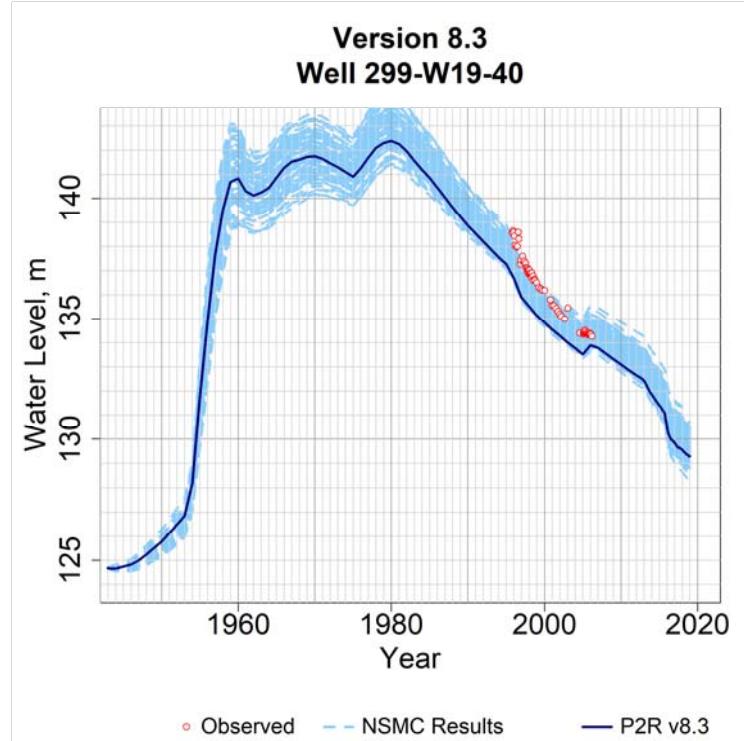


Figure B-387. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-40 for the calibrated model and all model variants from the NSMC.

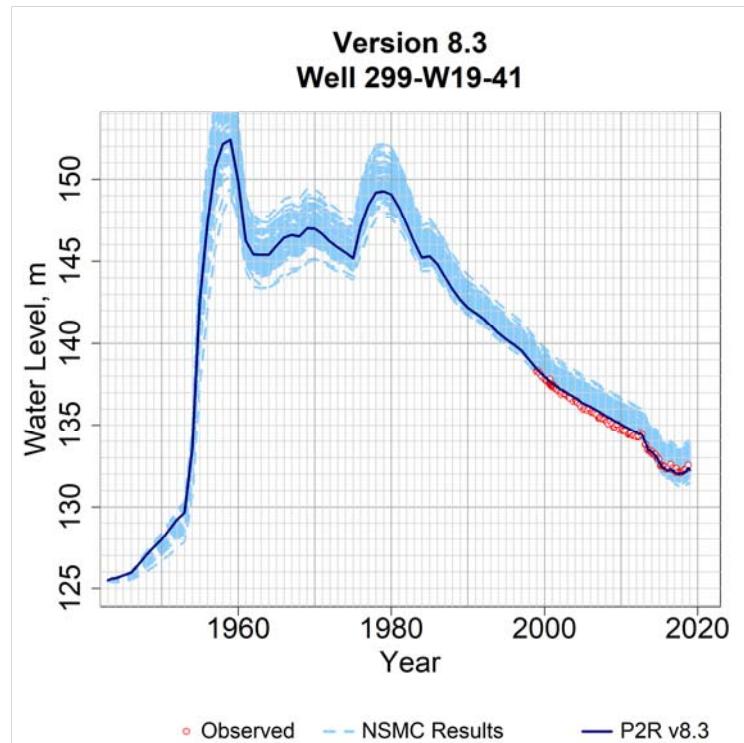


Figure B-388. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-41 for the calibrated model and all model variants from the NSMC.

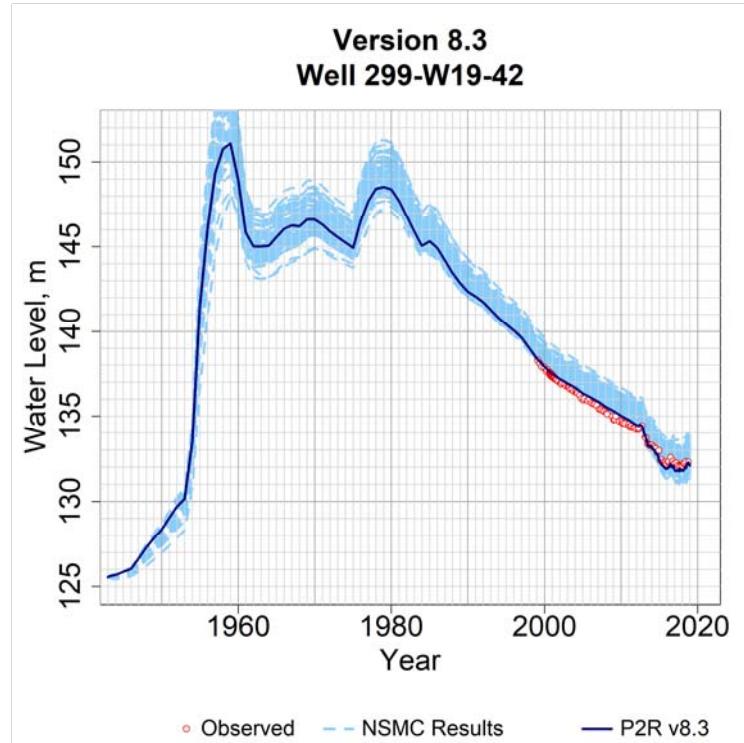


Figure B-389. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-42 for the calibrated model and all model variants from the NSMC.

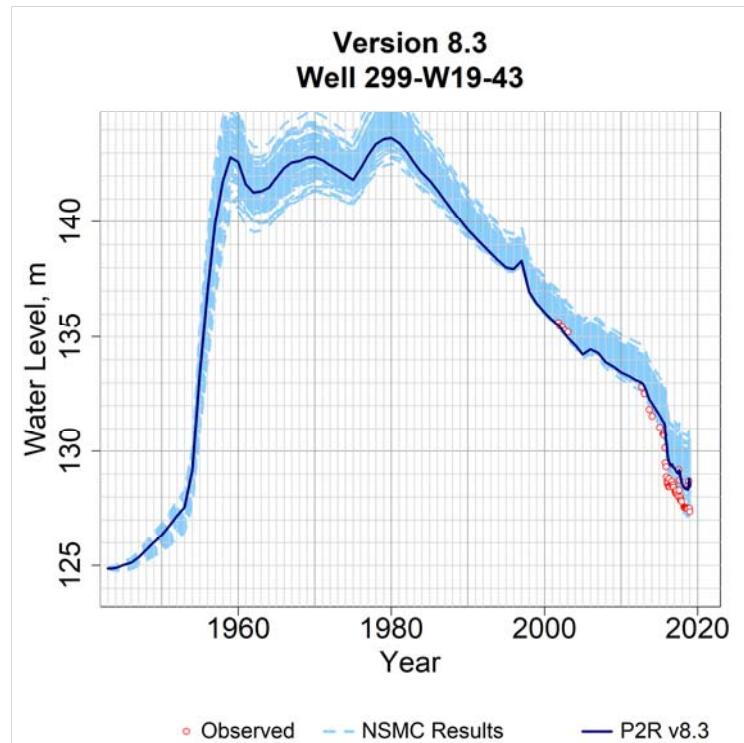


Figure B-390. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-43 for the calibrated model and all model variants from the NSMC.

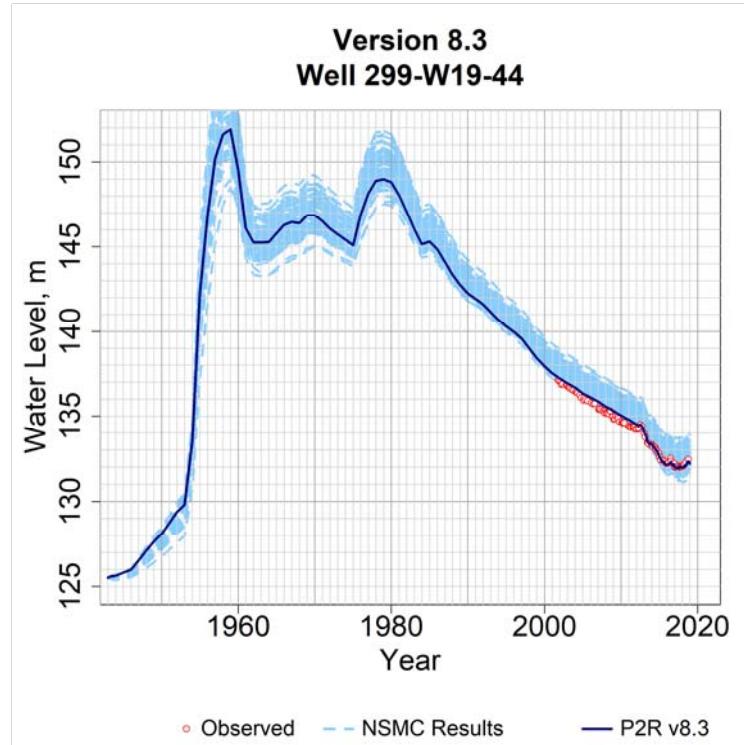


Figure B-391. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-44 for the calibrated model and all model variants from the NSMC.

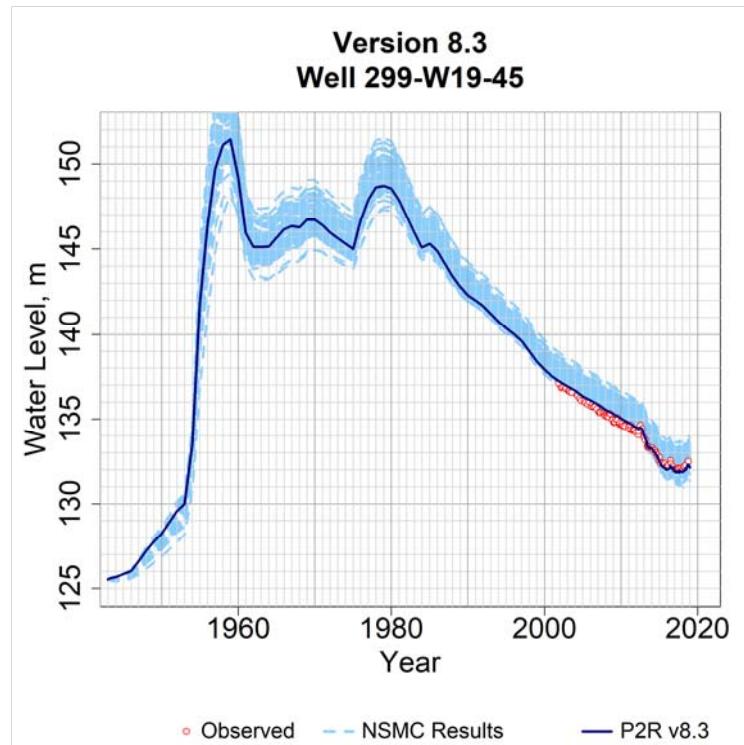


Figure B-392. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-45 for the calibrated model and all model variants from the NSMC.

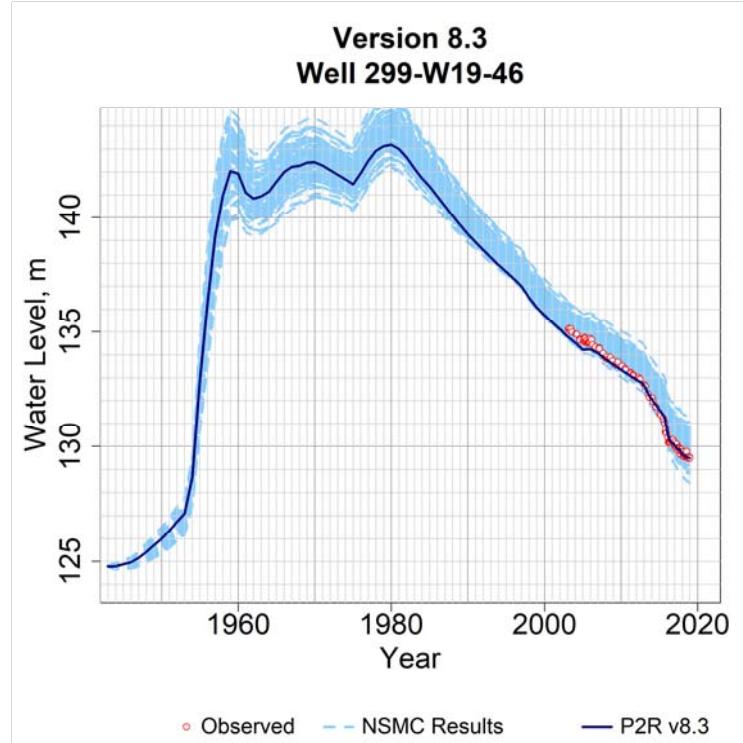


Figure B-393. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-46 for the calibrated model and all model variants from the NSMC.

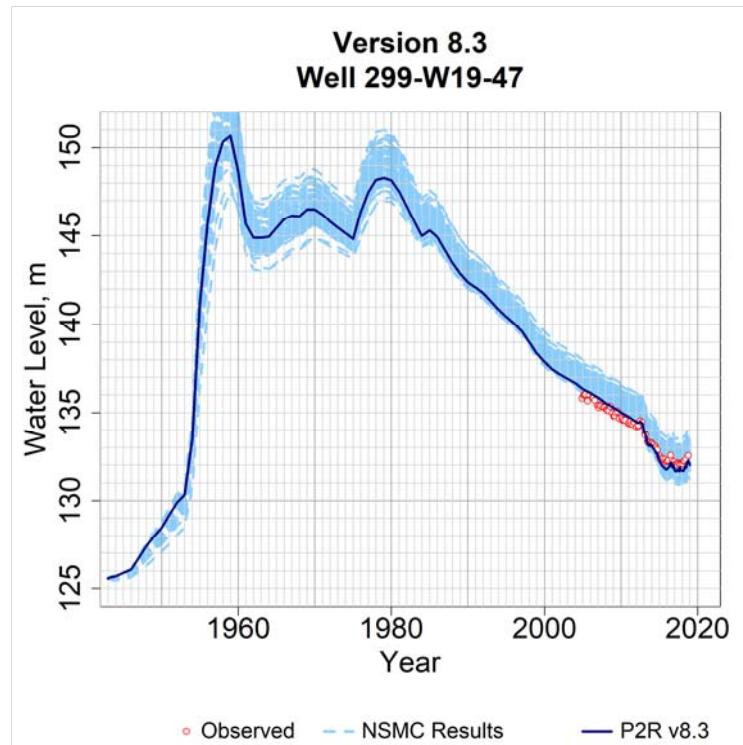


Figure B-394. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-47 for the calibrated model and all model variants from the NSMC.

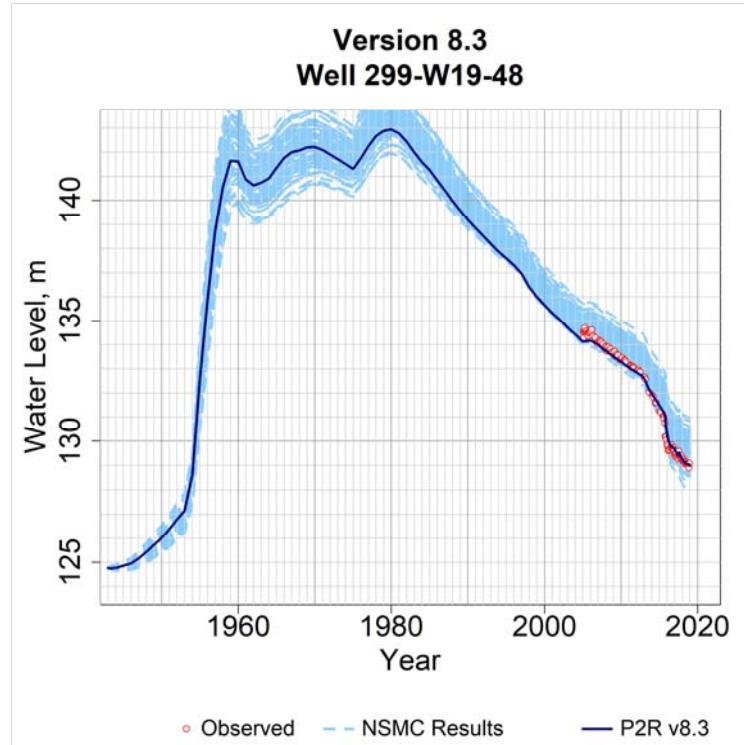


Figure B-395. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-48 for the calibrated model and all model variants from the NSMC.

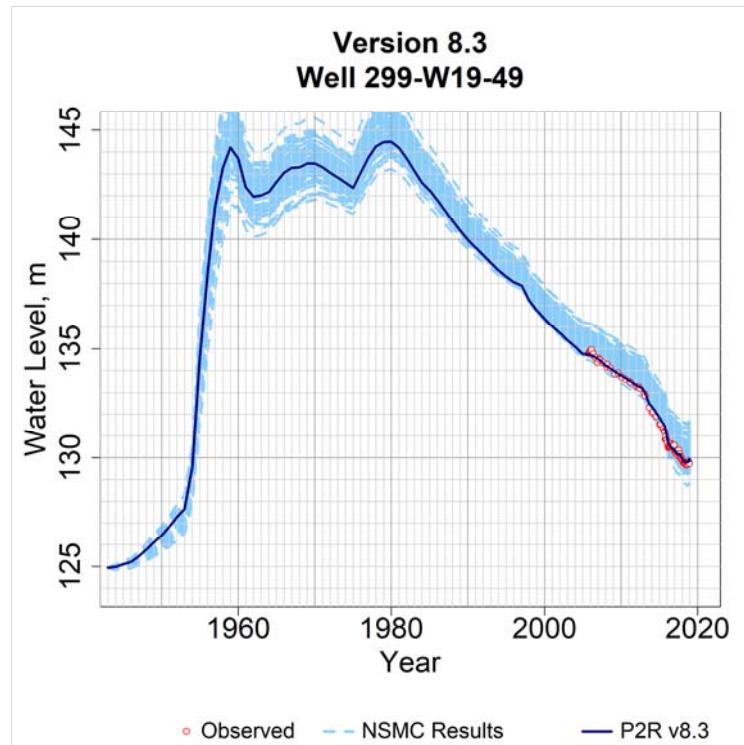


Figure B-396. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-49 for the calibrated model and all model variants from the NSMC.

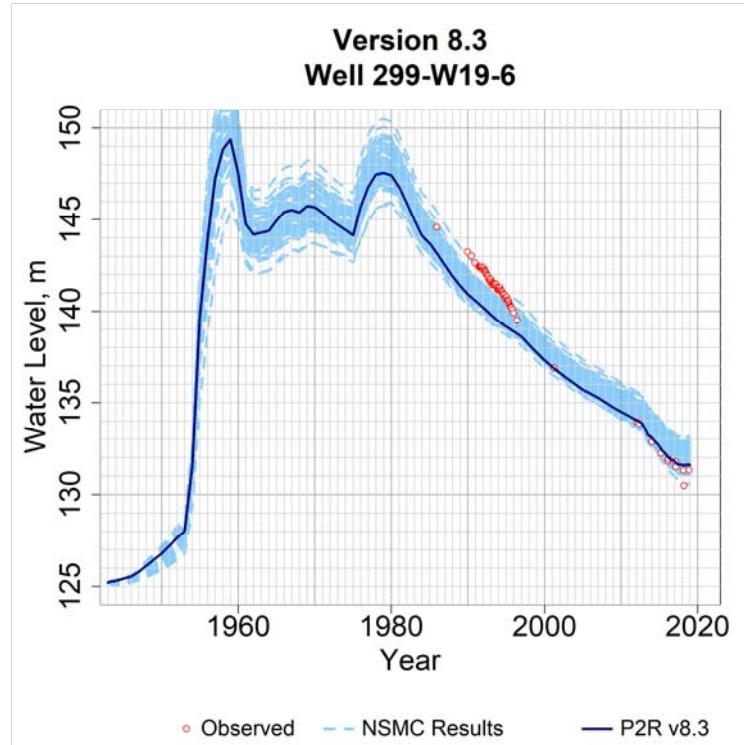


Figure B-397. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W19-6 for the calibrated model and all model variants from the NSMC.

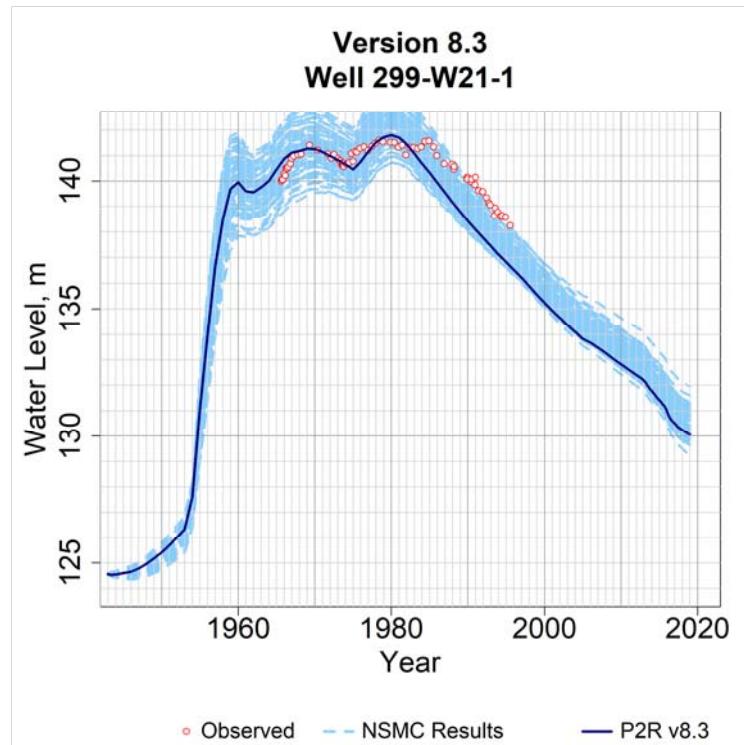


Figure B-398. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W21-1 for the calibrated model and all model variants from the NSMC.

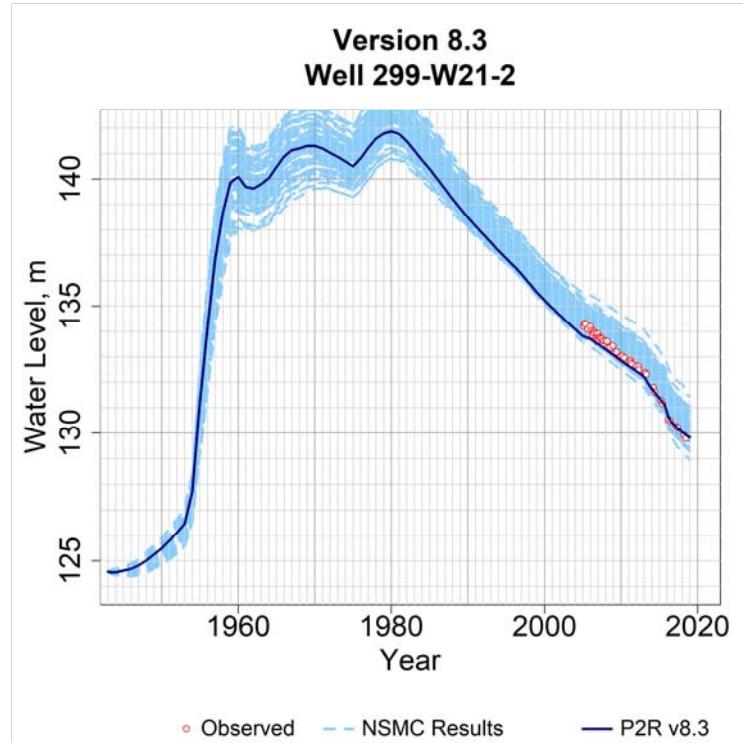


Figure B-399. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W21-2 for the calibrated model and all model variants from the NSMC.

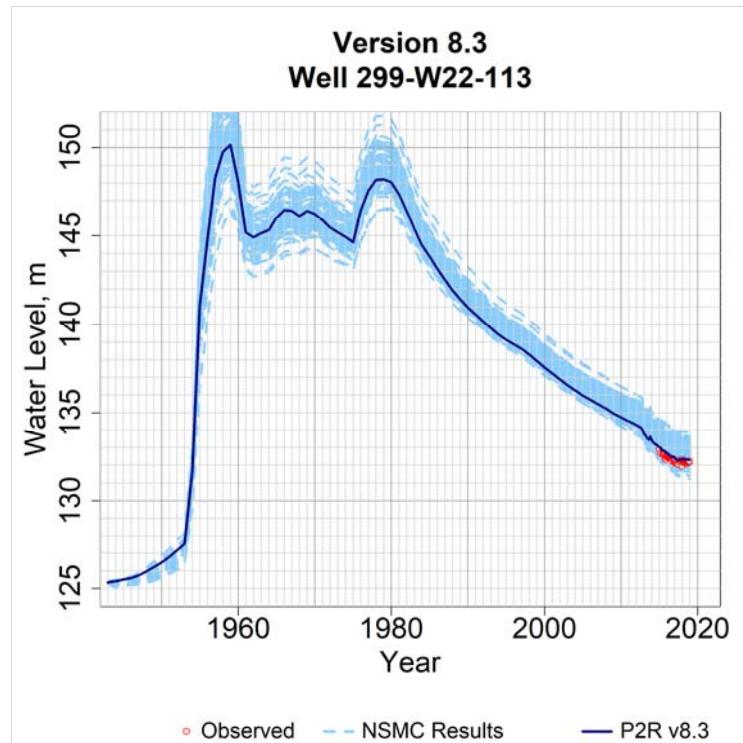


Figure B-400. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-113 for the calibrated model and all model variants from the NSMC.

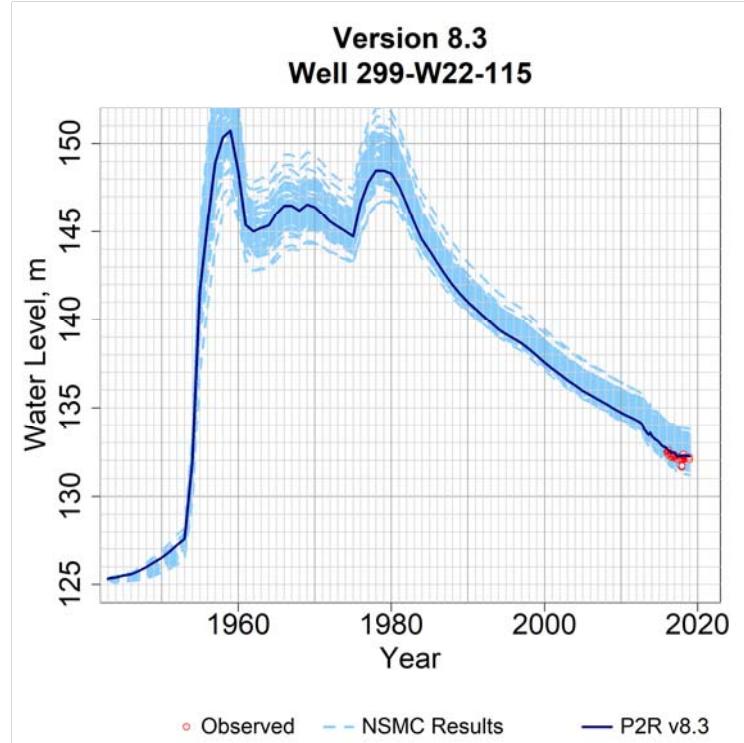


Figure B-401. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-115 for the calibrated model and all model variants from the NSMC.

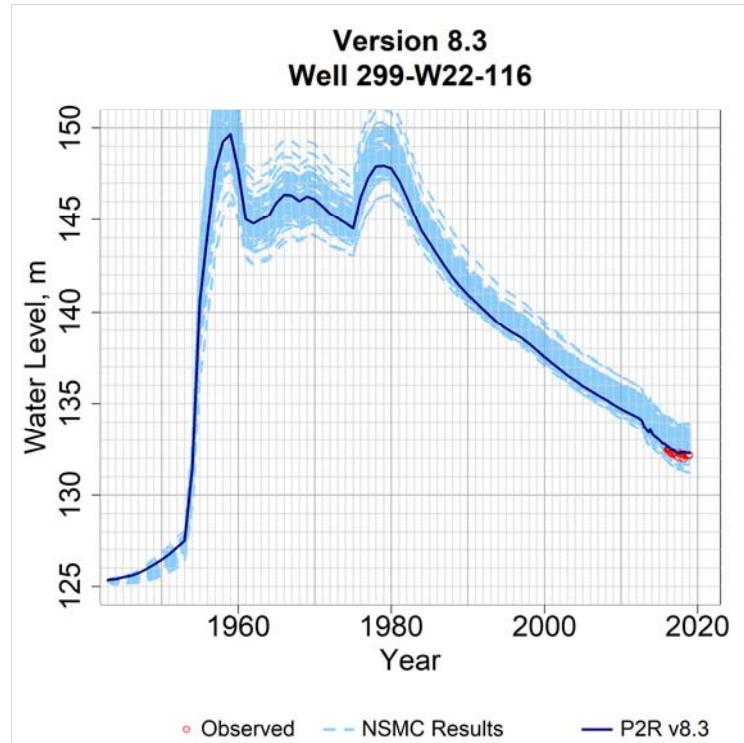


Figure B-402. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-116 for the calibrated model and all model variants from the NSMC.

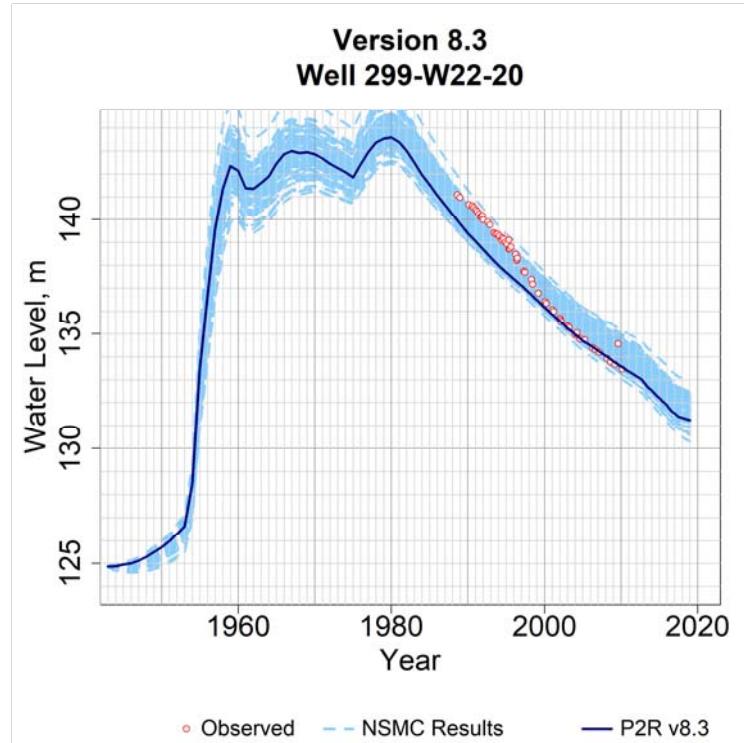


Figure B-403. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-20 for the calibrated model and all model variants from the NSMC.

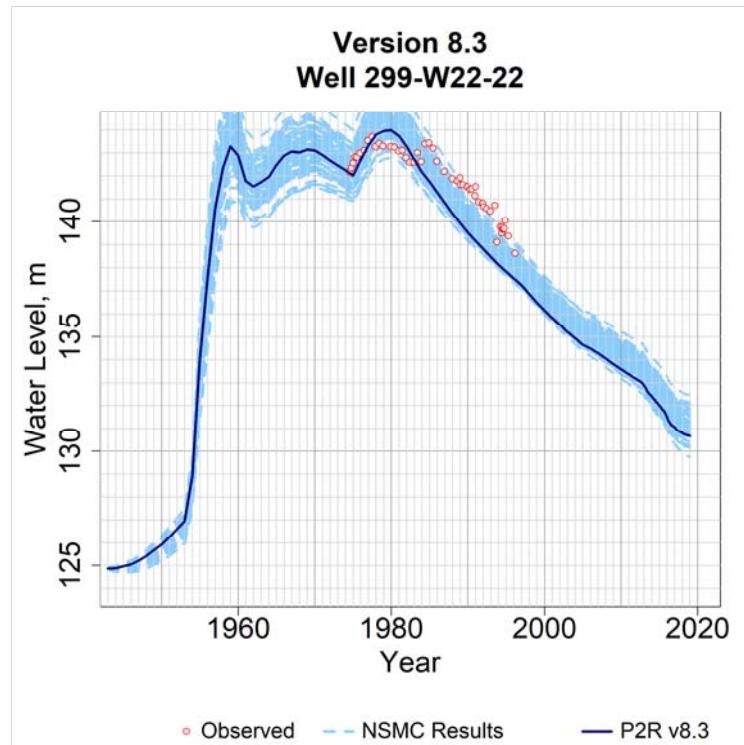


Figure B-404. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-22 for the calibrated model and all model variants from the NSMC.

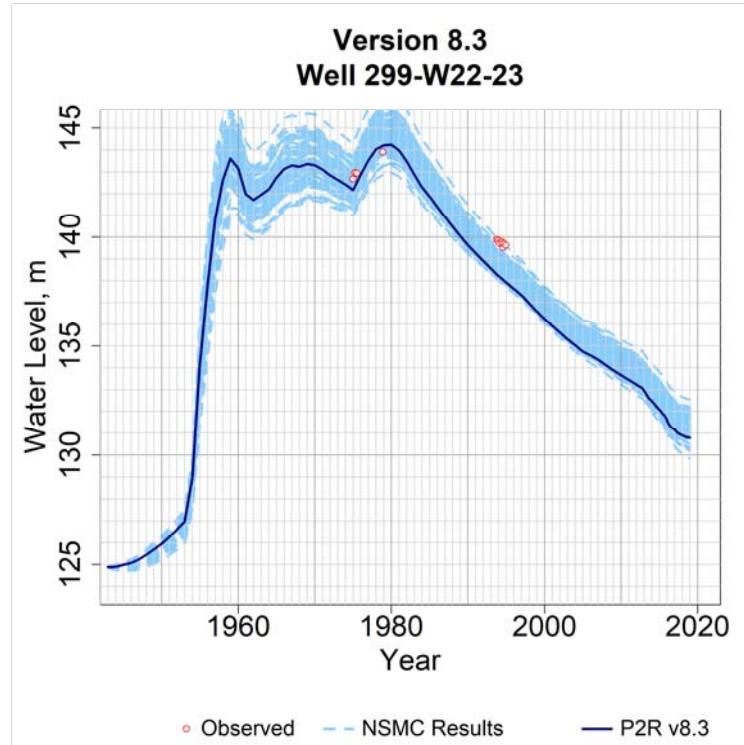


Figure B-405. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-23 for the calibrated model and all model variants from the NSMC.

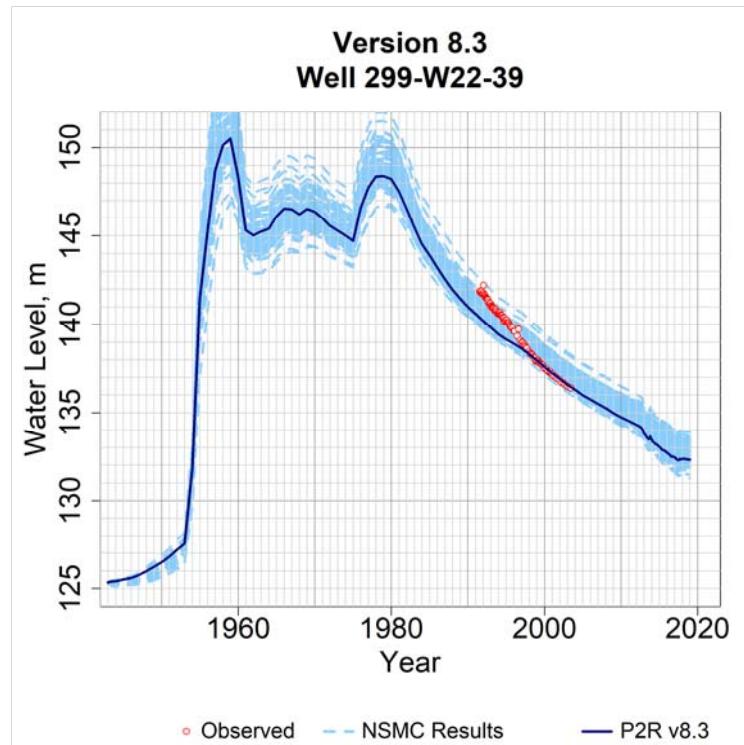


Figure B-406. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-39 for the calibrated model and all model variants from the NSMC.

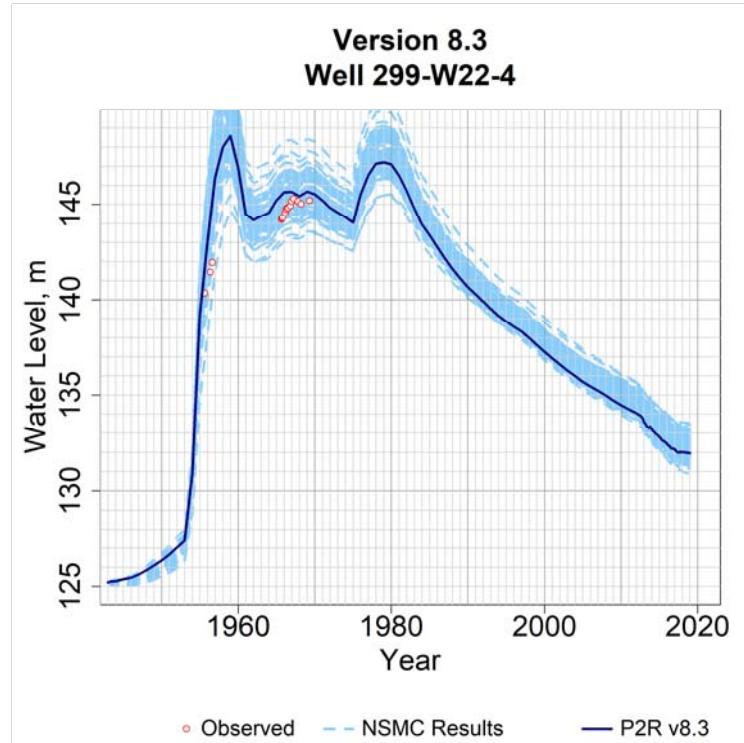


Figure B-407. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-4 for the calibrated model and all model variants from the NSMC.

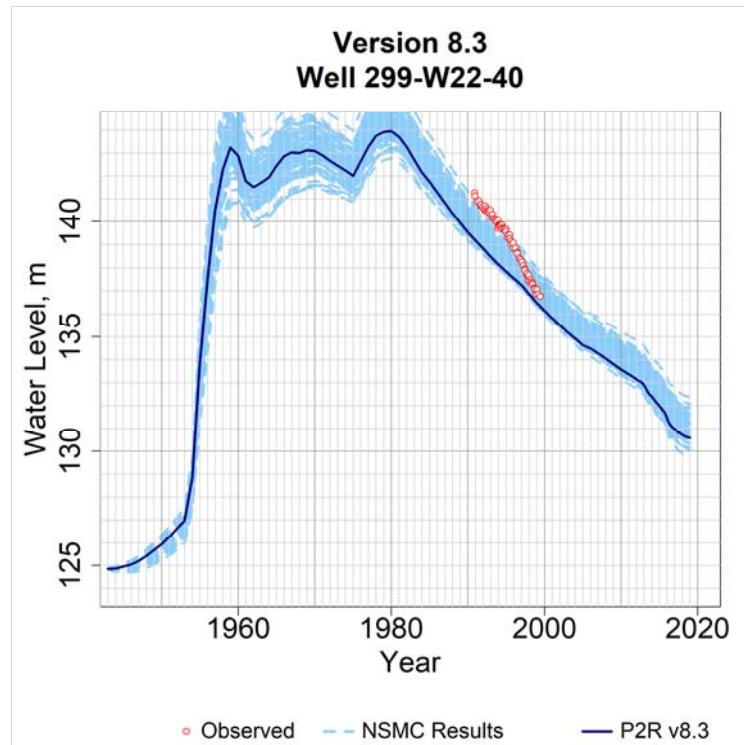


Figure B-408. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-40 for the calibrated model and all model variants from the NSMC.

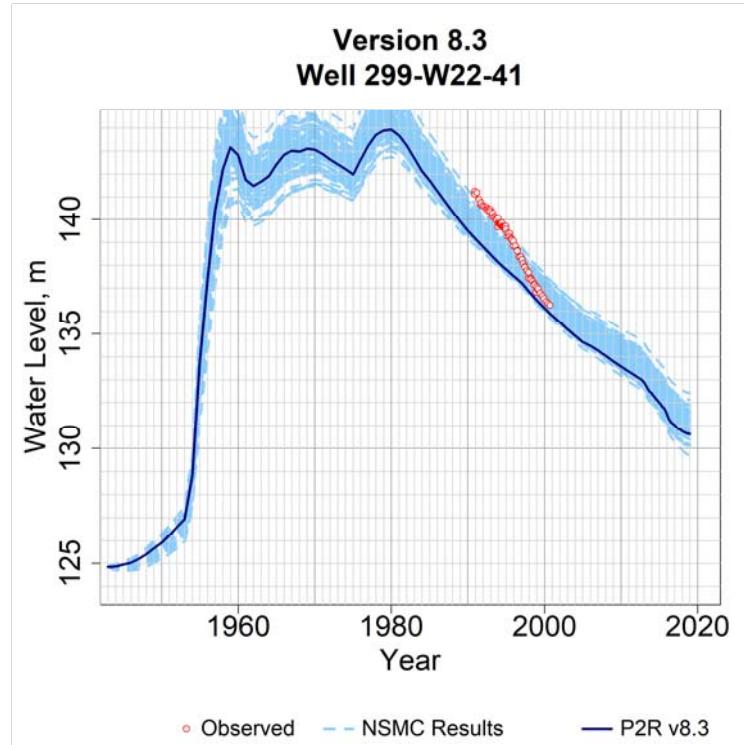


Figure B-409. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-41 for the calibrated model and all model variants from the NSMC.

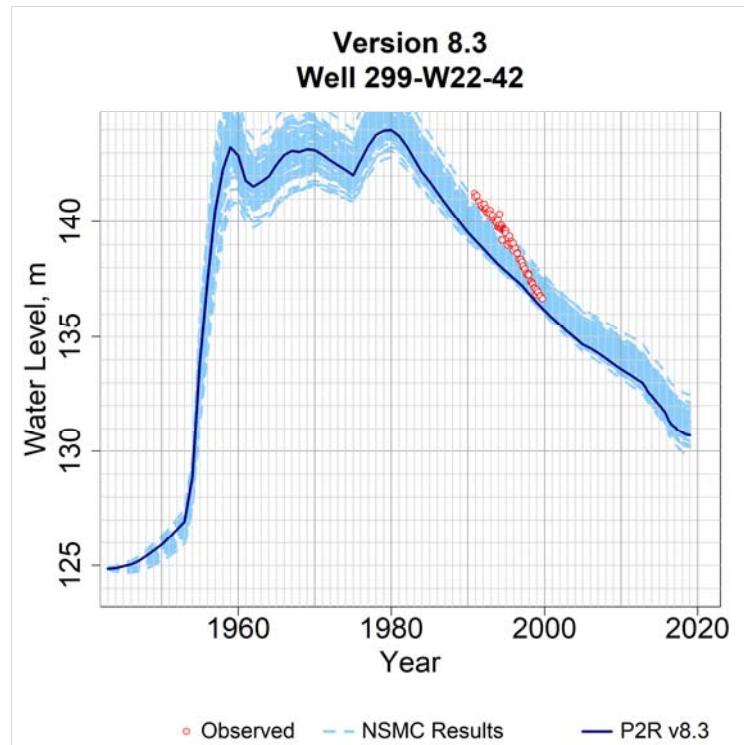


Figure B-410. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-42 for the calibrated model and all model variants from the NSMC.

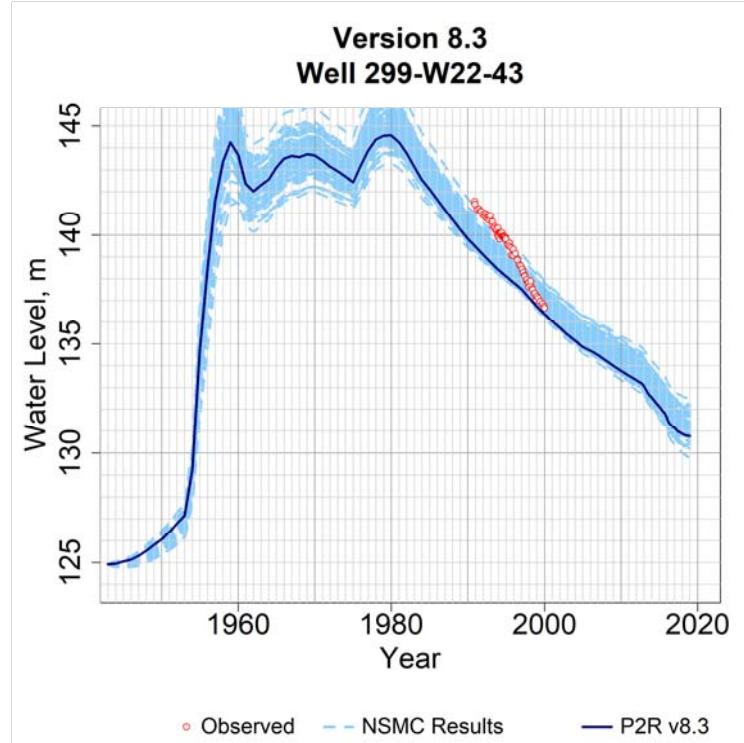


Figure B-411. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-43 for the calibrated model and all model variants from the NSMC.

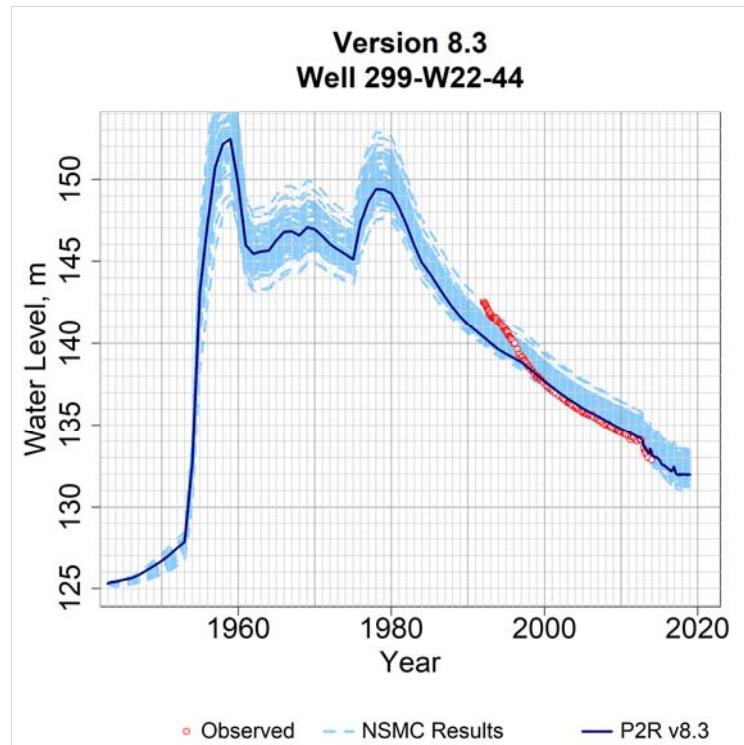


Figure B-412. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-44 for the calibrated model and all model variants from the NSMC.

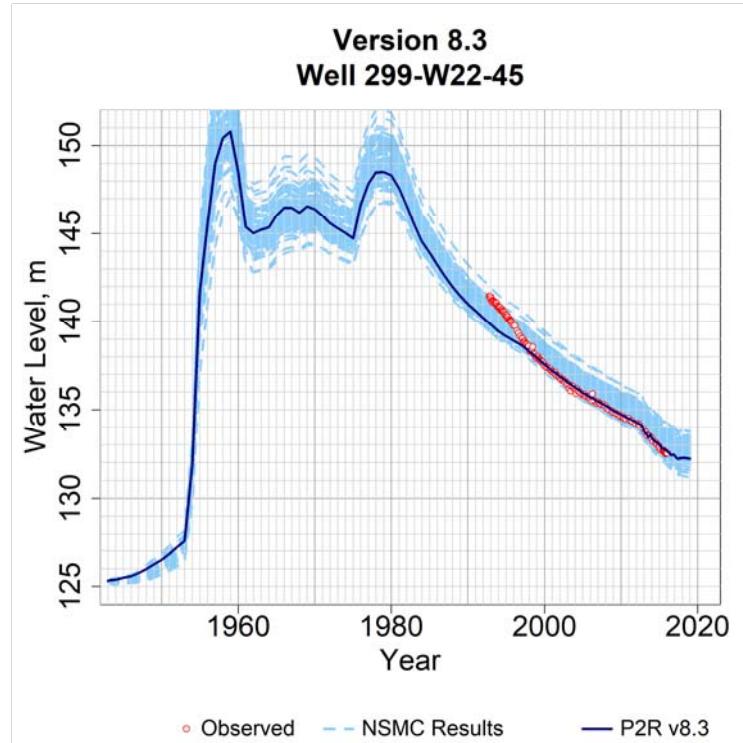


Figure B-413. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-45 for the calibrated model and all model variants from the NSMC.

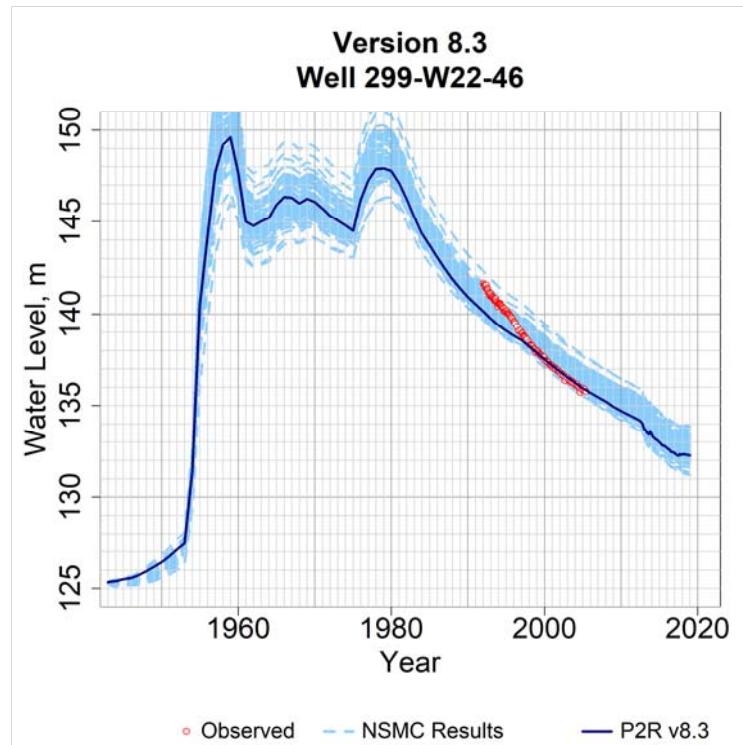


Figure B-414. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-46 for the calibrated model and all model variants from the NSMC.

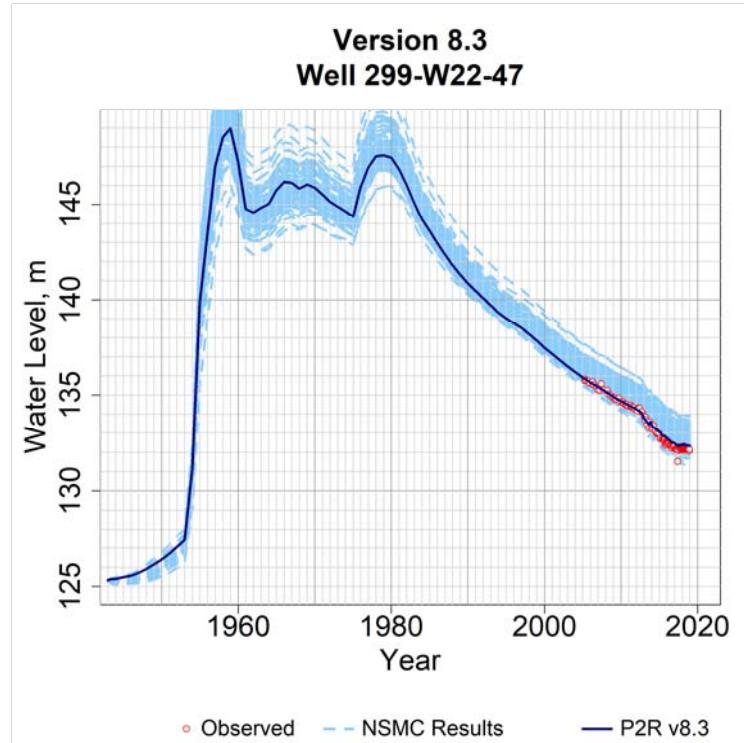


Figure B-415. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-47 for the calibrated model and all model variants from the NSMC.

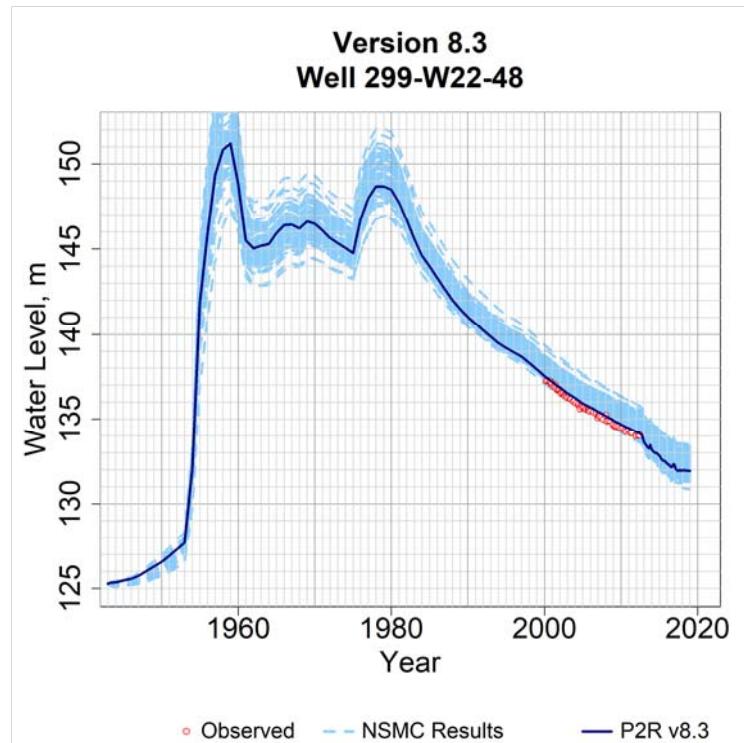


Figure B-416. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-48 for the calibrated model and all model variants from the NSMC.

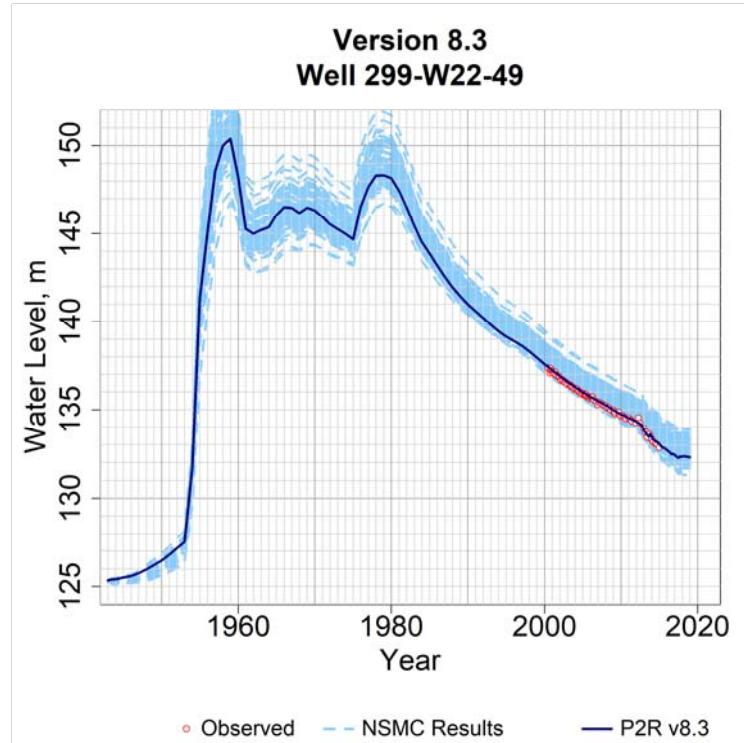


Figure B-417. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-49 for the calibrated model and all model variants from the NSMC.

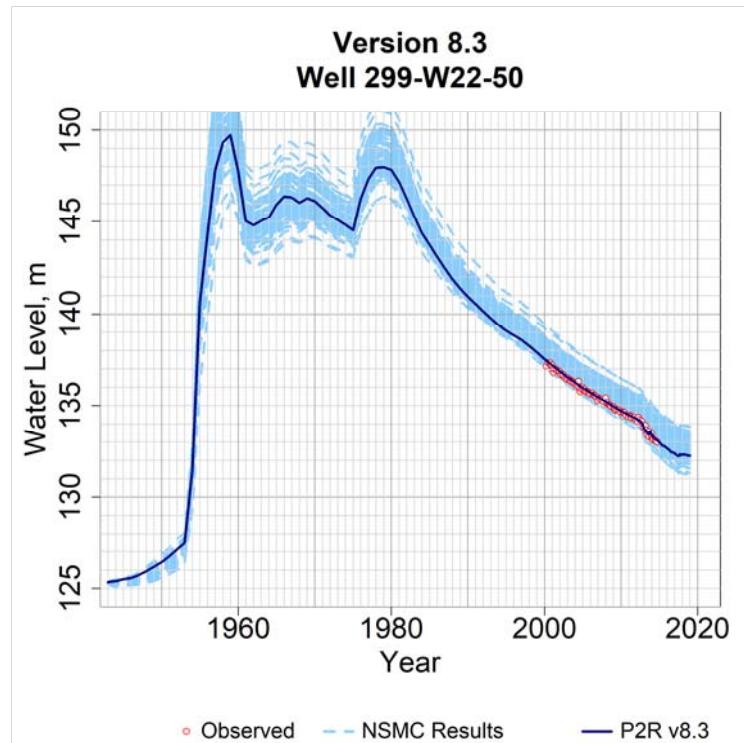


Figure B-418. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-50 for the calibrated model and all model variants from the NSMC.

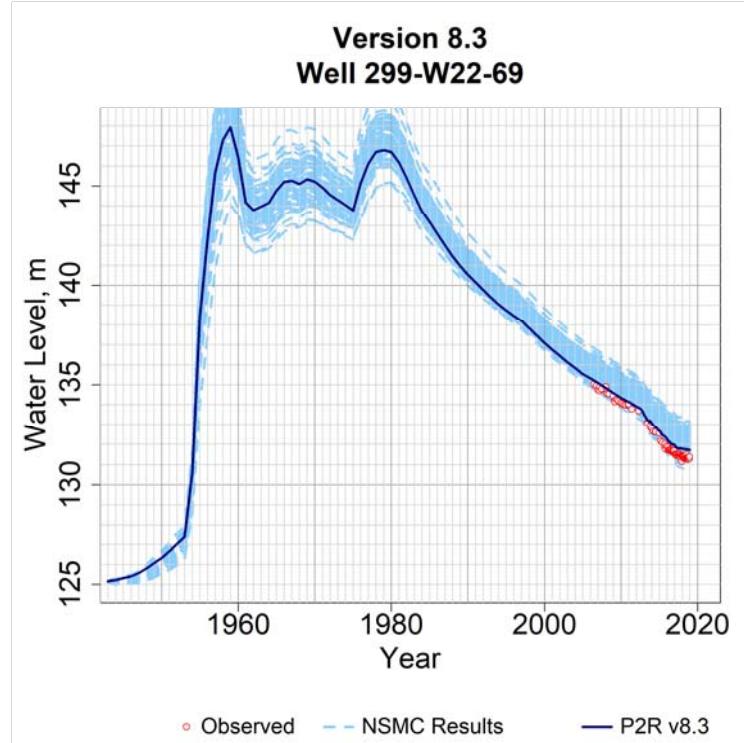


Figure B-419. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-69 for the calibrated model and all model variants from the NSMC.

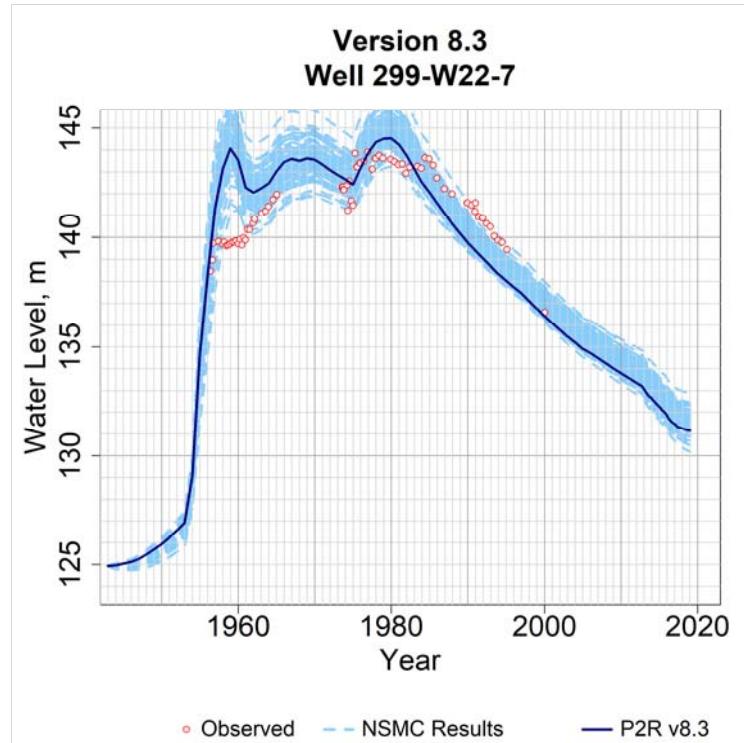


Figure B-420. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-7 for the calibrated model and all model variants from the NSMC.

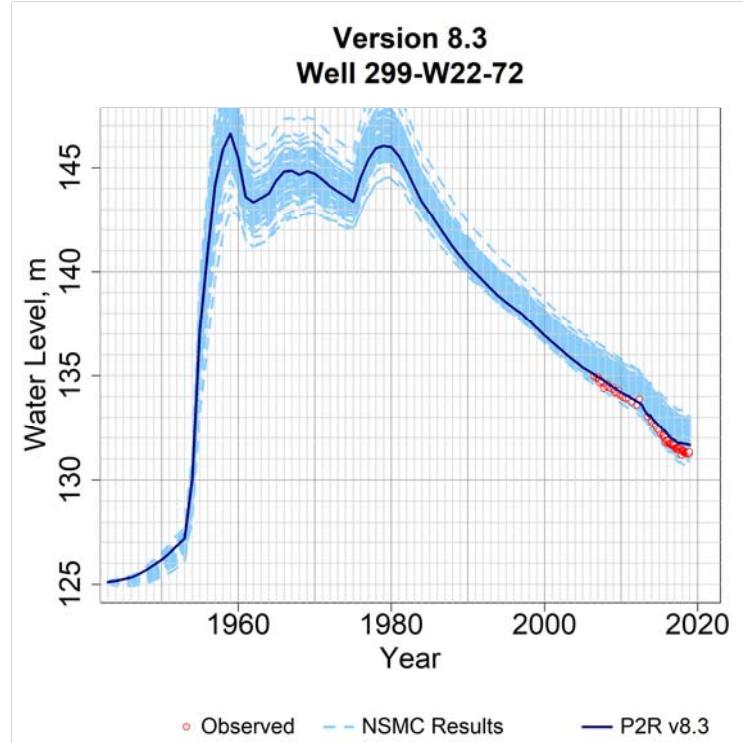


Figure B-421. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-72 for the calibrated model and all model variants from the NSMC.

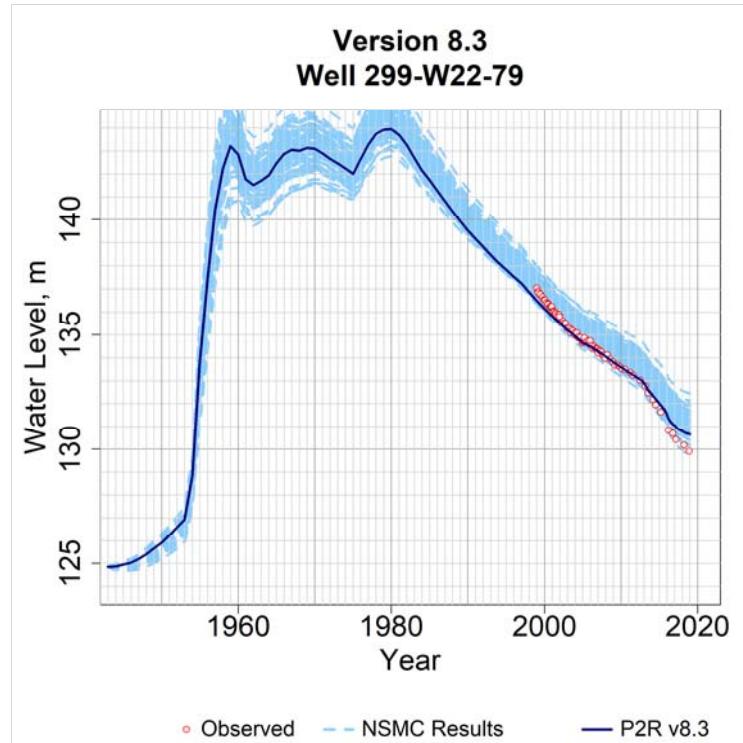


Figure B-422. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-79 for the calibrated model and all model variants from the NSMC.

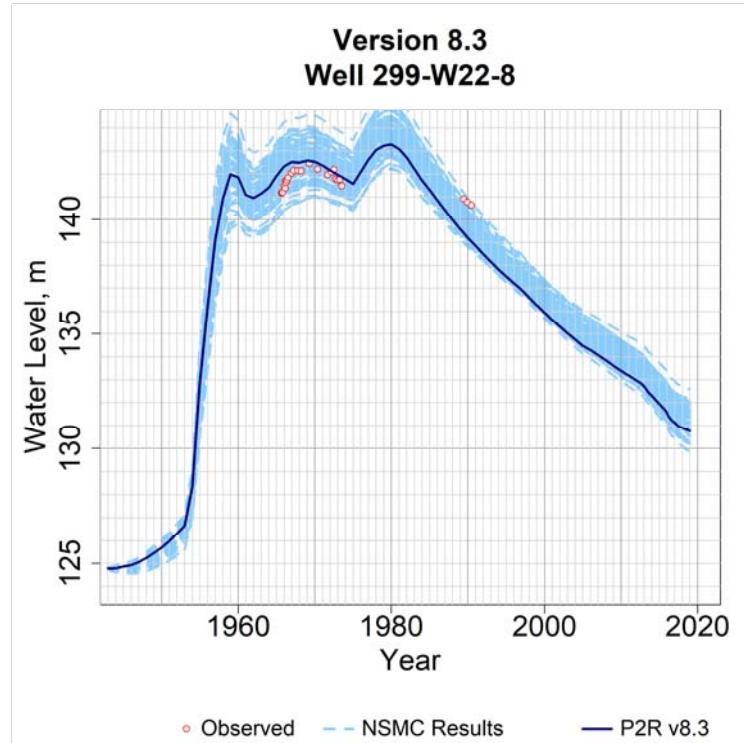


Figure B-423. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-8 for the calibrated model and all model variants from the NSMC.

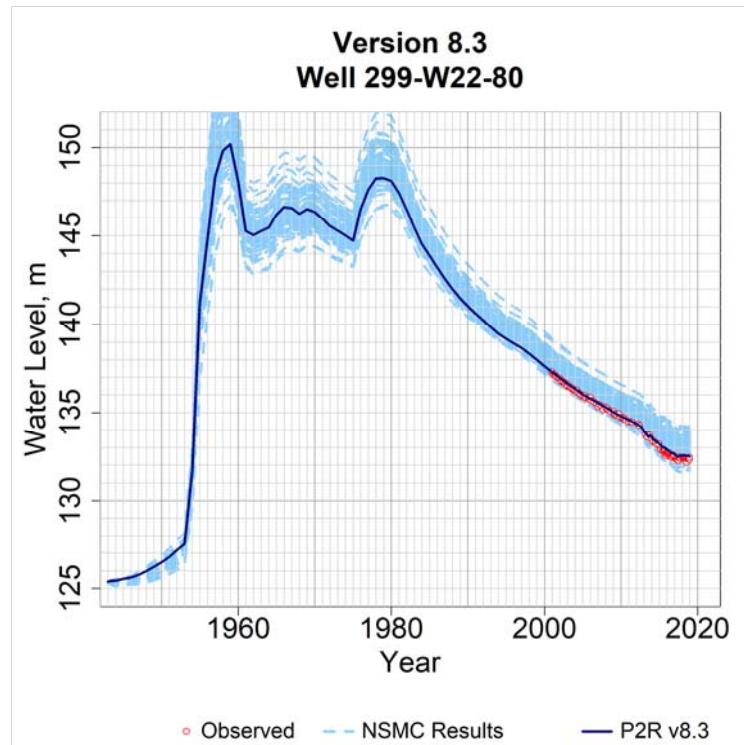


Figure B-424. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-80 for the calibrated model and all model variants from the NSMC.

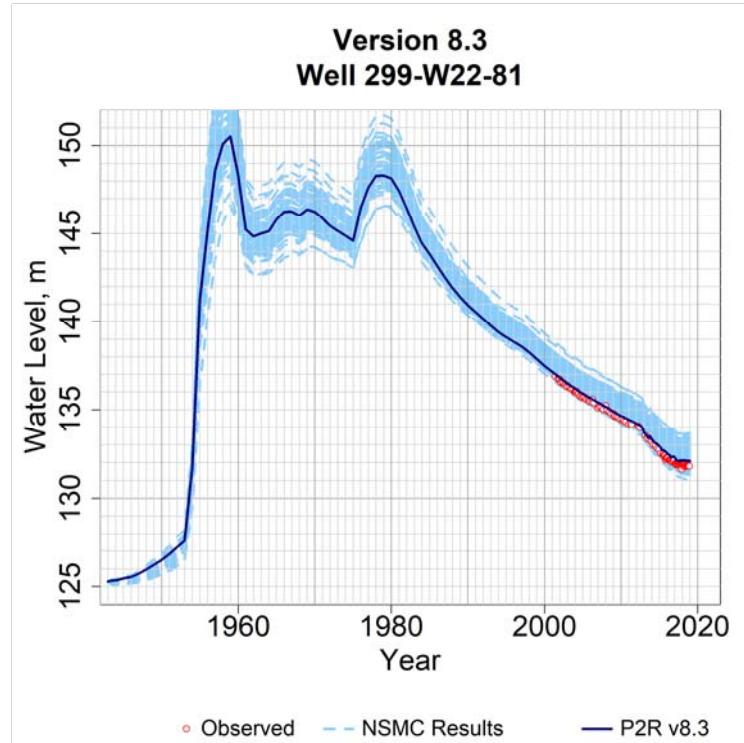


Figure B-425. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-81 for the calibrated model and all model variants from the NSMC.

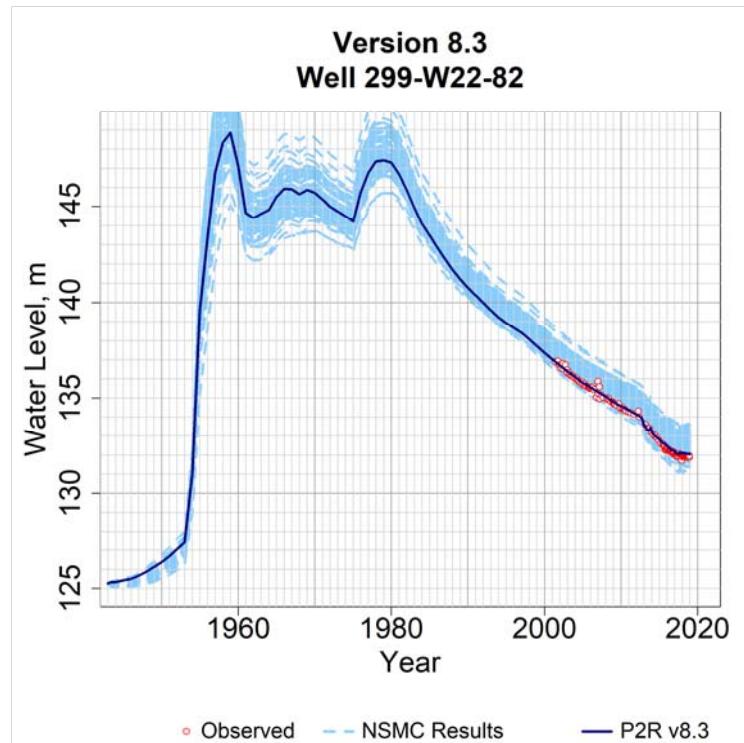


Figure B-426. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-82 for the calibrated model and all model variants from the NSMC.

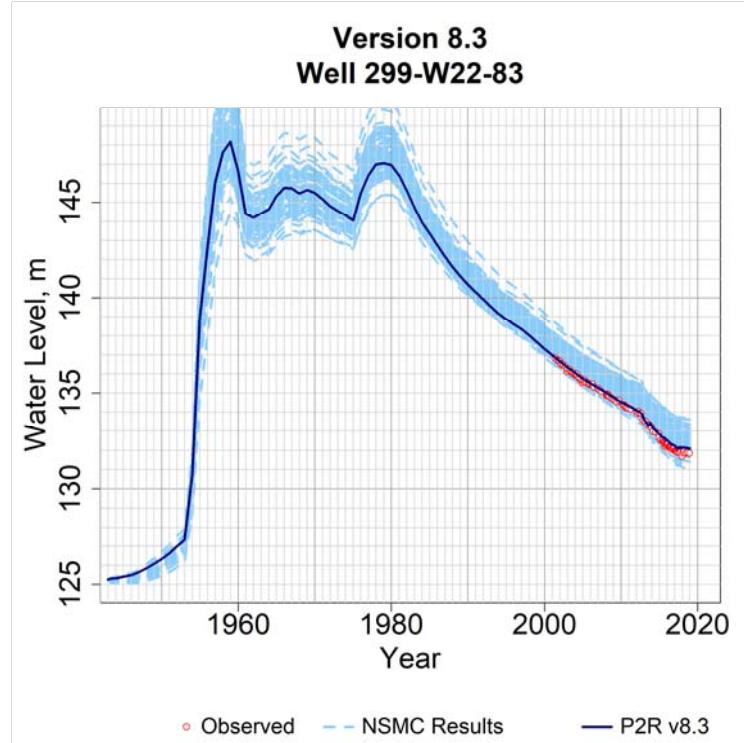


Figure B-427. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-83 for the calibrated model and all model variants from the NSMC.

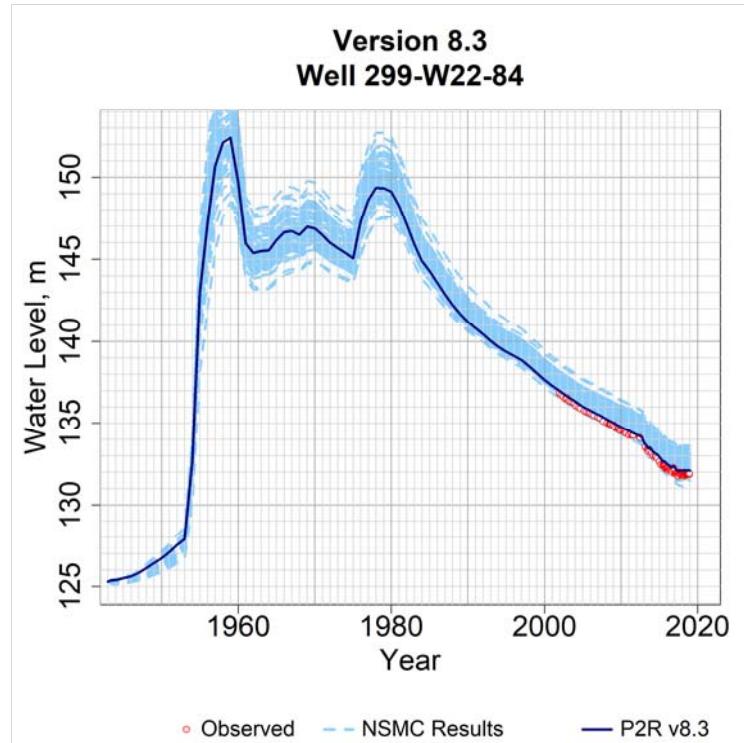


Figure B-428. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-84 for the calibrated model and all model variants from the NSMC.

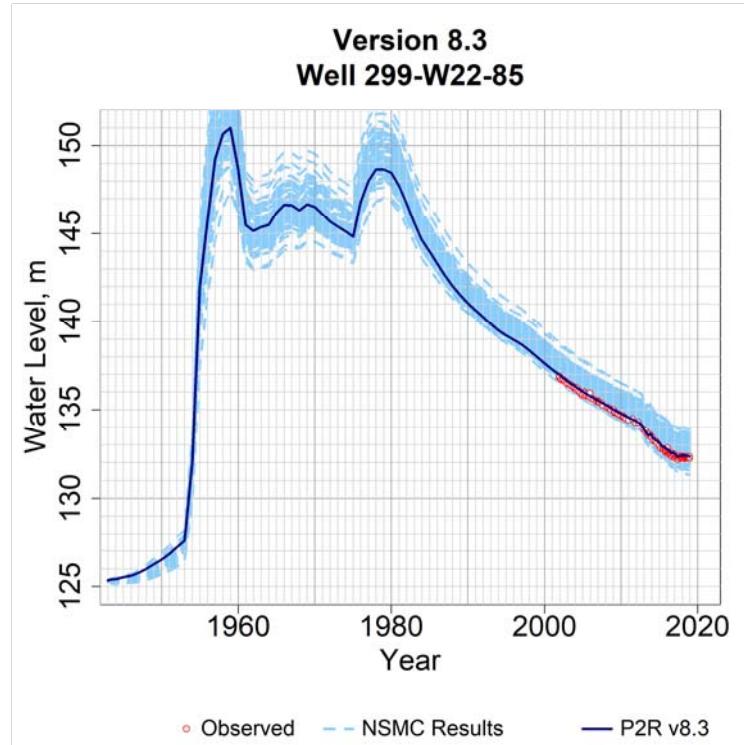


Figure B-429. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-85 for the calibrated model and all model variants from the NSMC.

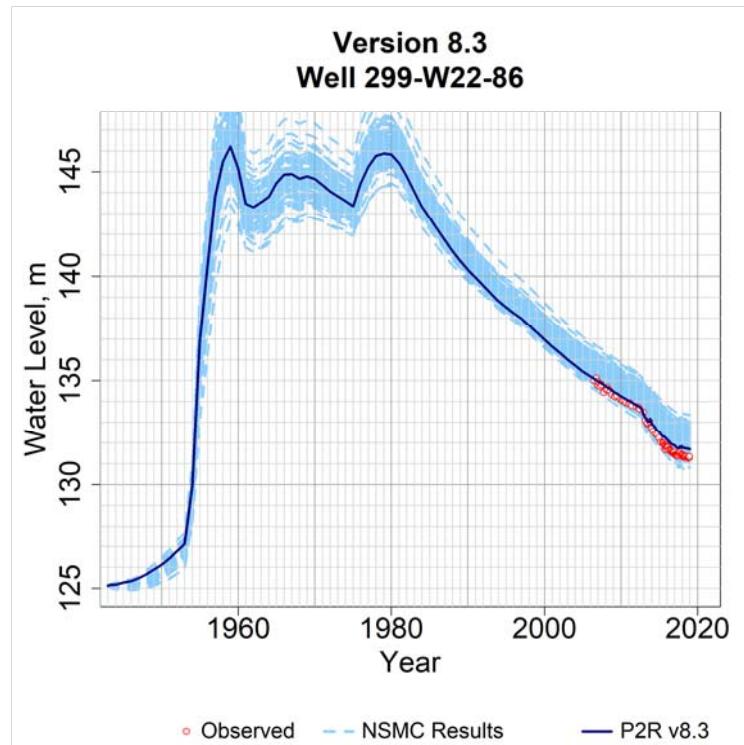


Figure B-430. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-86 for the calibrated model and all model variants from the NSMC.

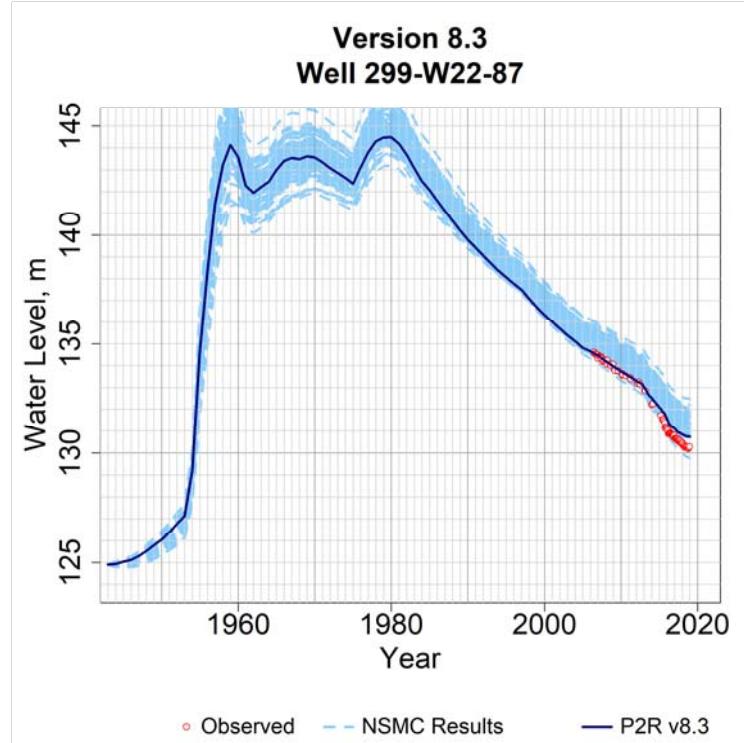


Figure B-431. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-87 for the calibrated model and all model variants from the NSMC.

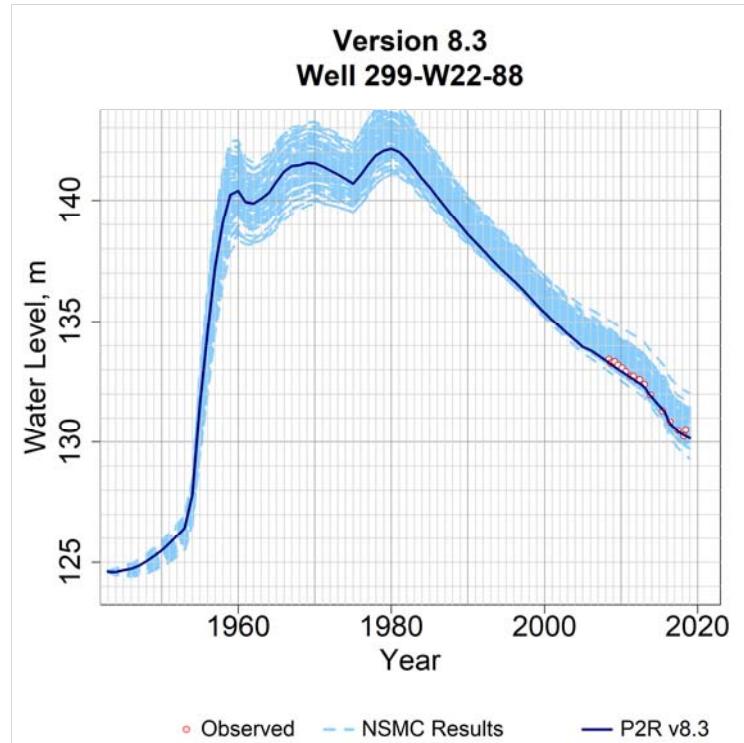


Figure B-432. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-88 for the calibrated model and all model variants from the NSMC.

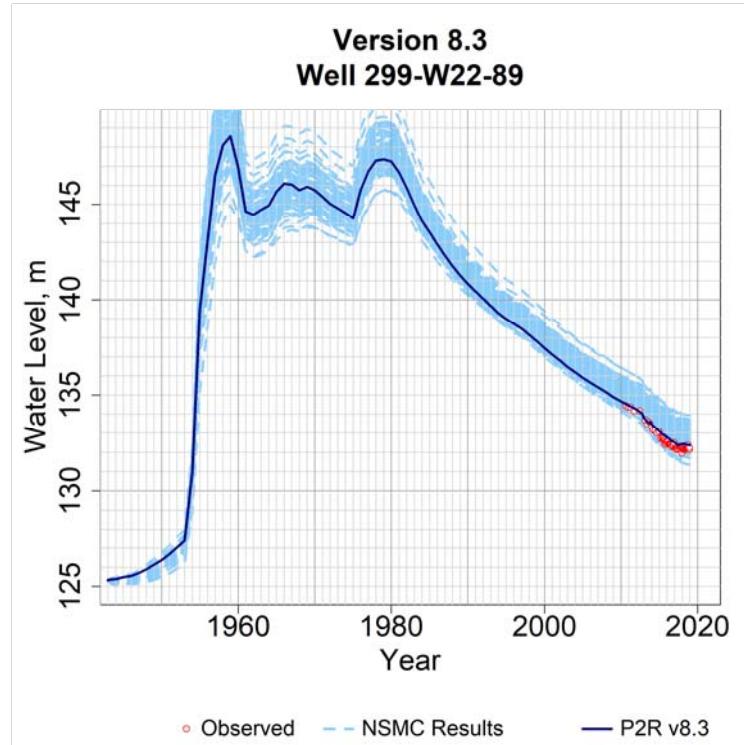


Figure B-433. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-89 for the calibrated model and all model variants from the NSMC.

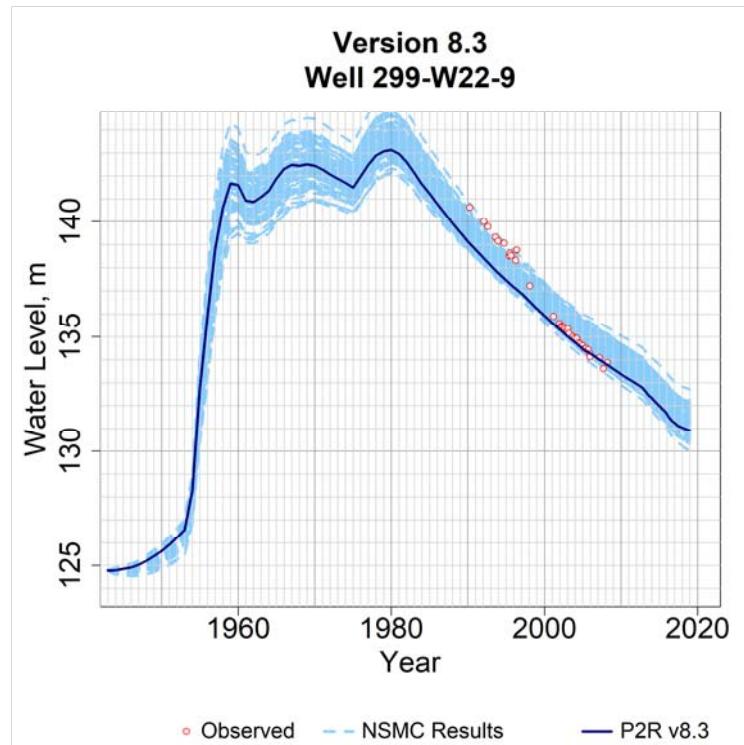


Figure B-434. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-9 for the calibrated model and all model variants from the NSMC.

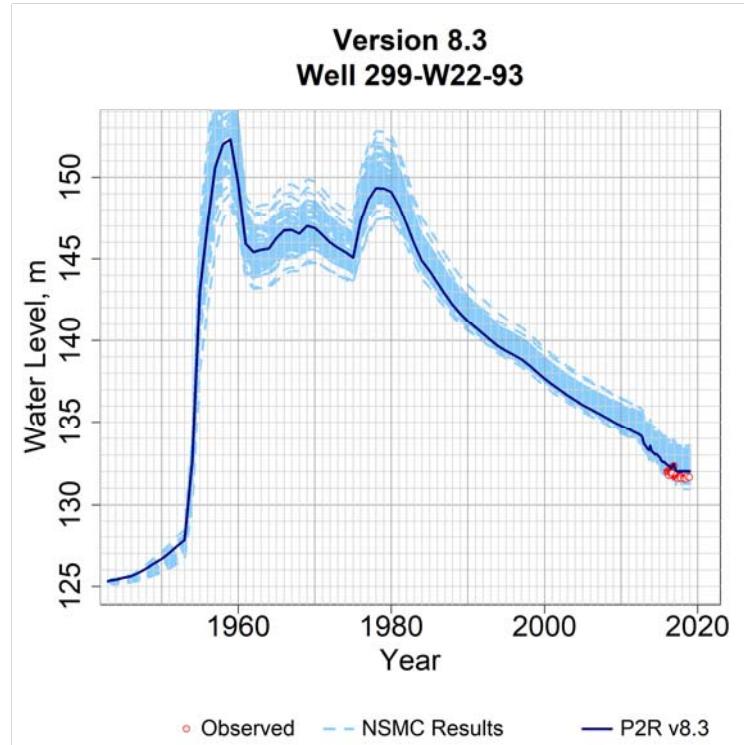


Figure B-435. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-93 for the calibrated model and all model variants from the NSMC.

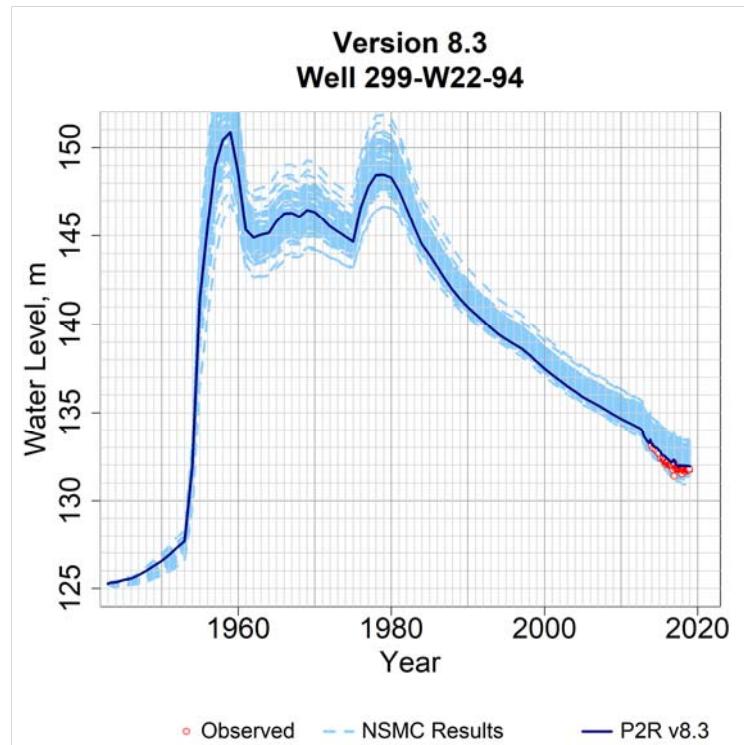


Figure B-436. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-94 for the calibrated model and all model variants from the NSMC.

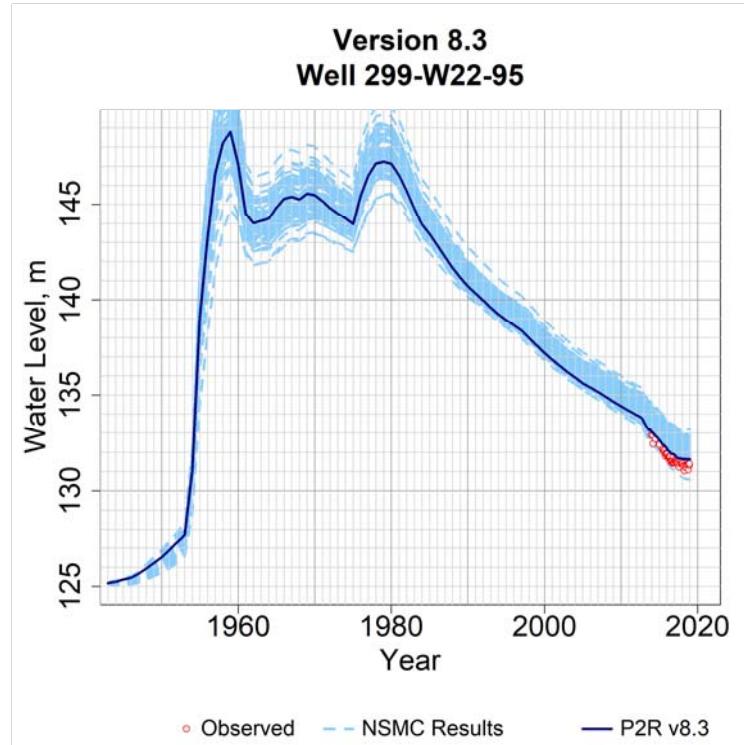


Figure B-437. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-95 for the calibrated model and all model variants from the NSMC.

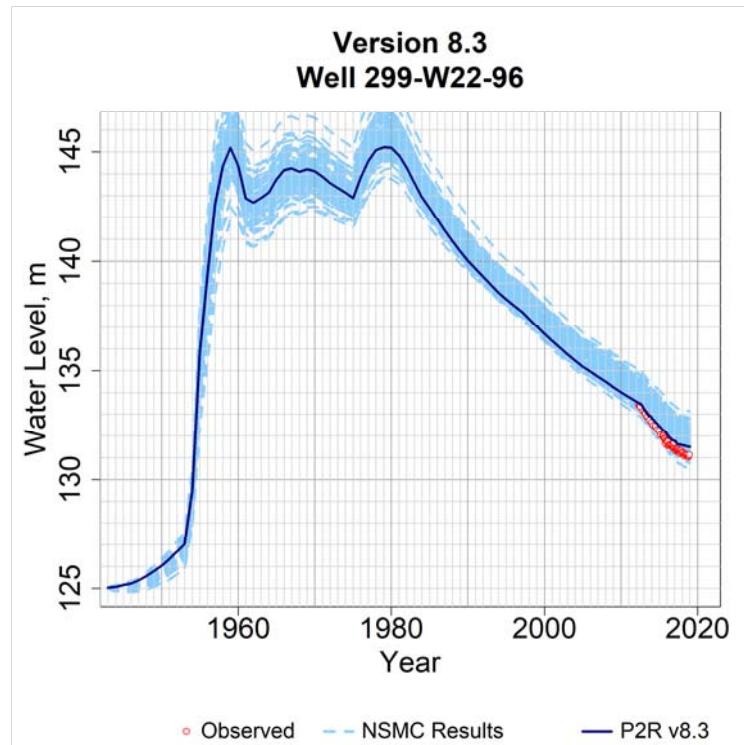


Figure B-438. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W22-96 for the calibrated model and all model variants from the NSMC.

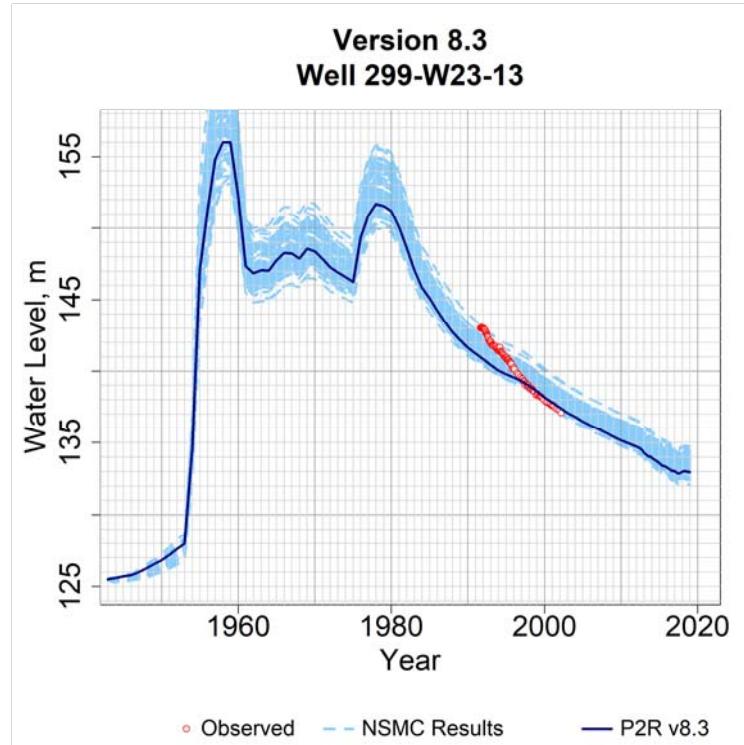


Figure B-439. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-13 for the calibrated model and all model variants from the NSMC.

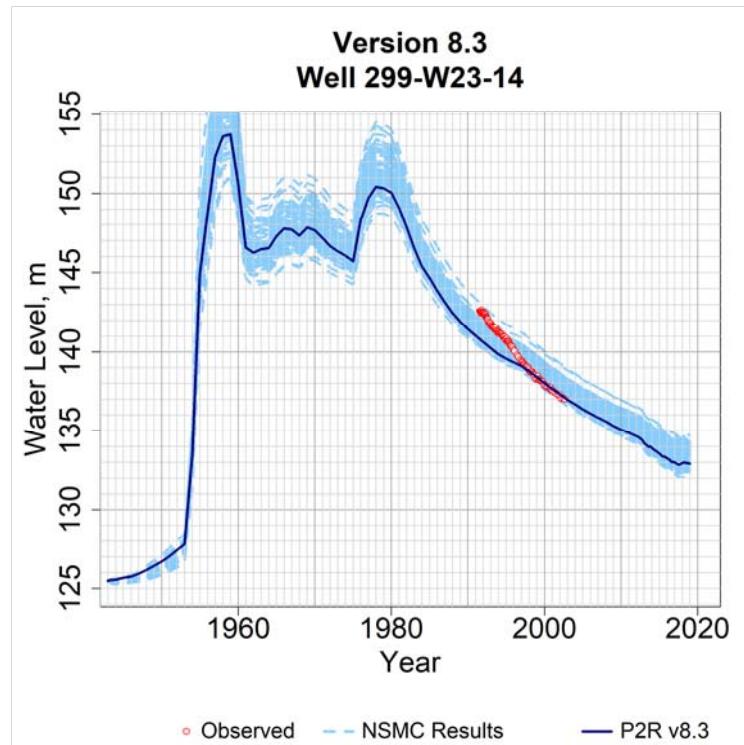


Figure B-440. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-14 for the calibrated model and all model variants from the NSMC.

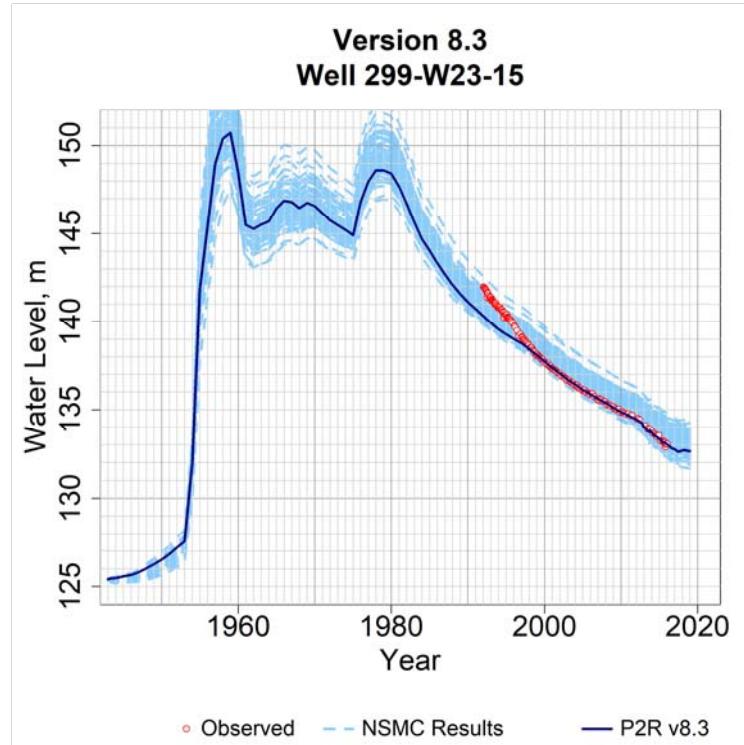


Figure B-441. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-15 for the calibrated model and all model variants from the NSMC.

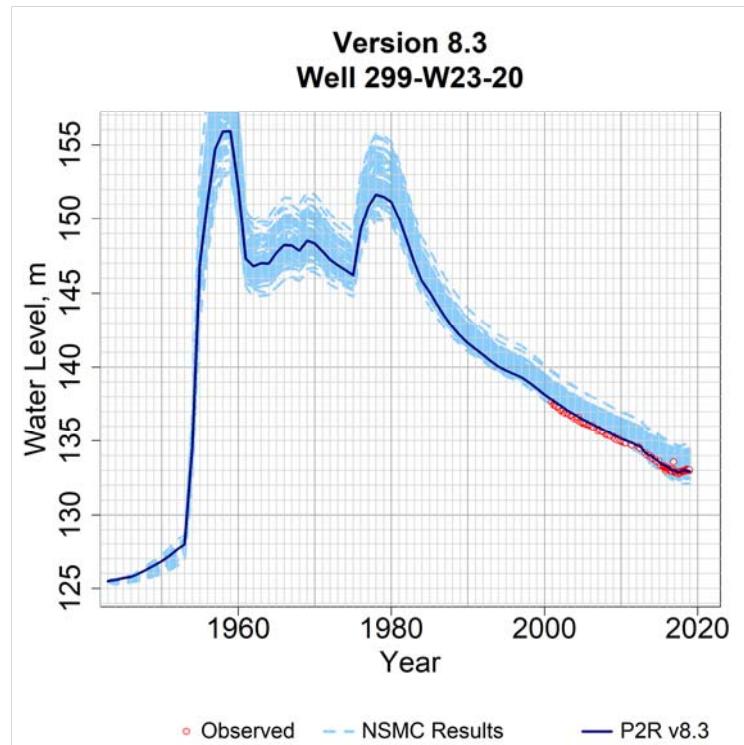


Figure B-442. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-20 for the calibrated model and all model variants from the NSMC.

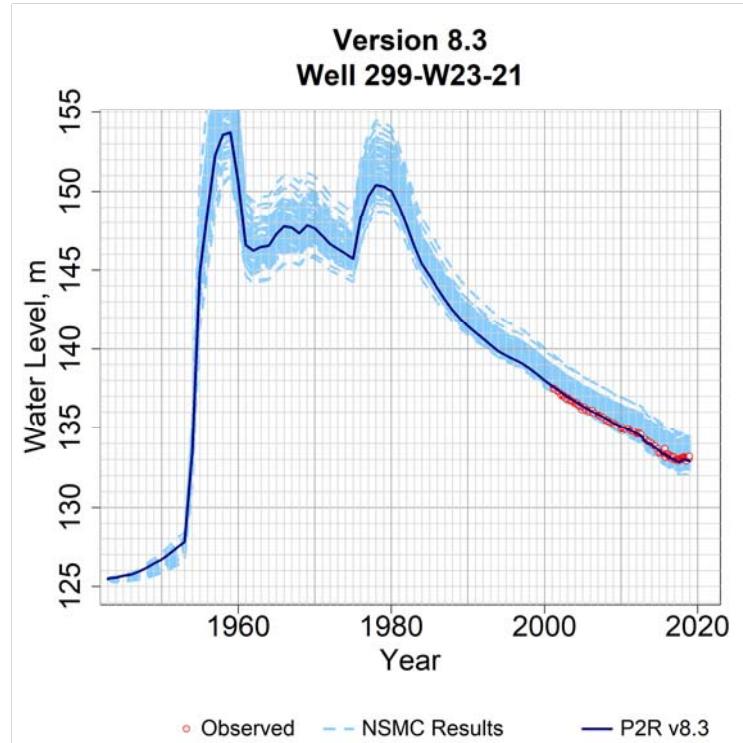


Figure B-443. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-21 for the calibrated model and all model variants from the NSMC.

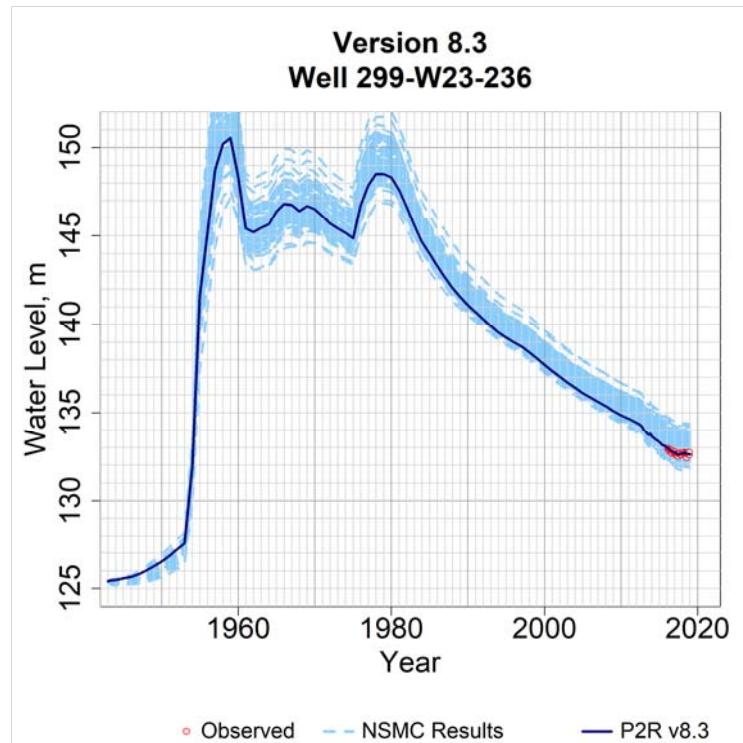


Figure B-444. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-236 for the calibrated model and all model variants from the NSMC.

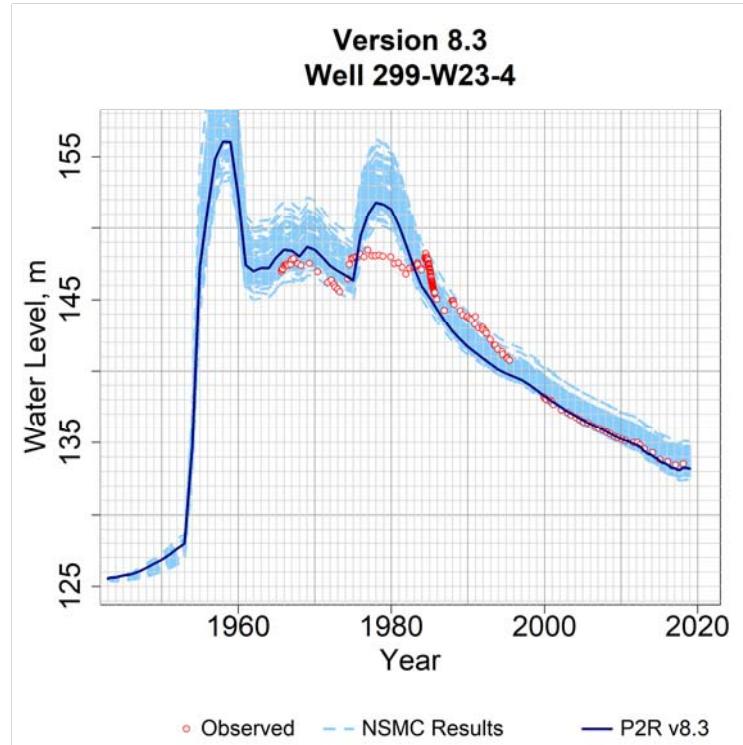


Figure B-445. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-4 for the calibrated model and all model variants from the NSMC.

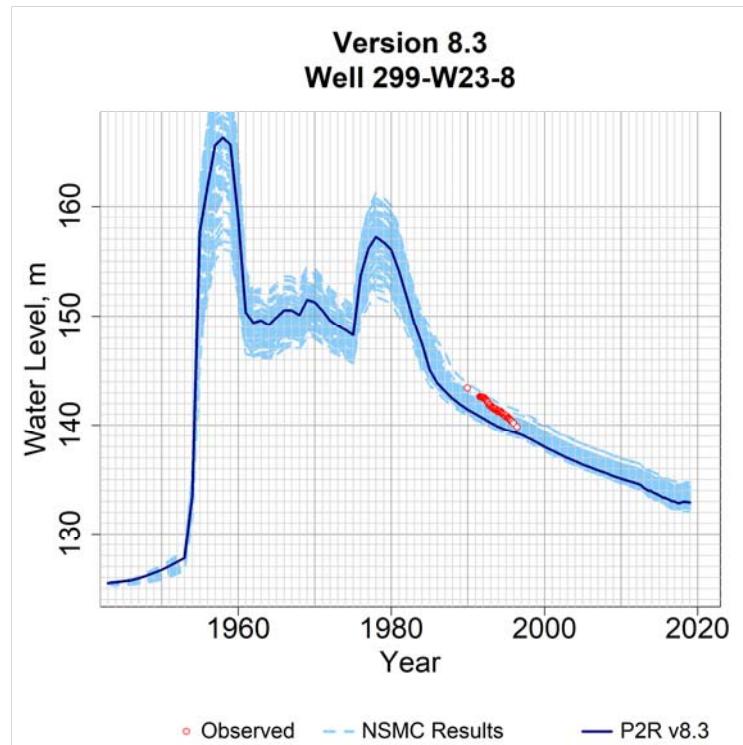


Figure B-446. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W23-8 for the calibrated model and all model variants from the NSMC.

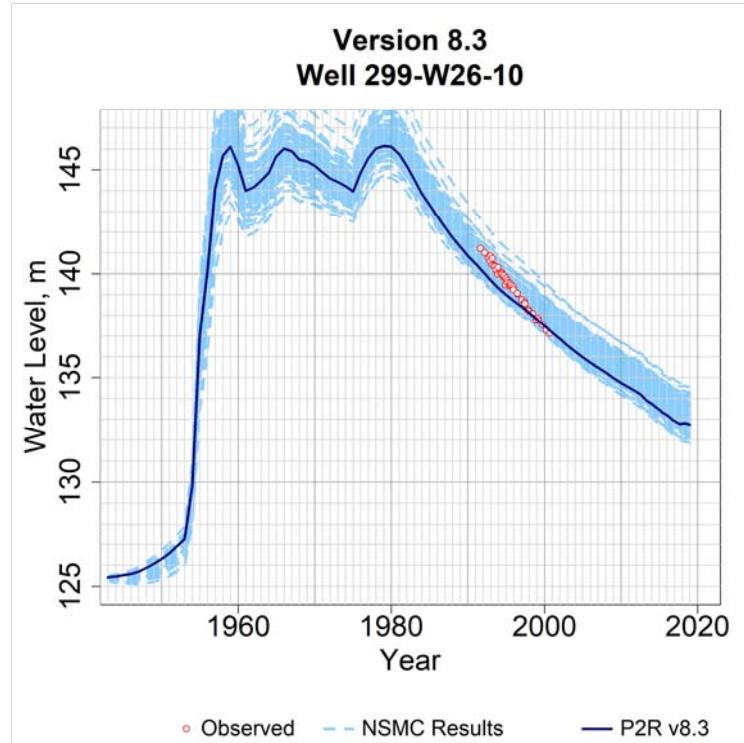


Figure B-447. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W26-10 for the calibrated model and all model variants from the NSMC.

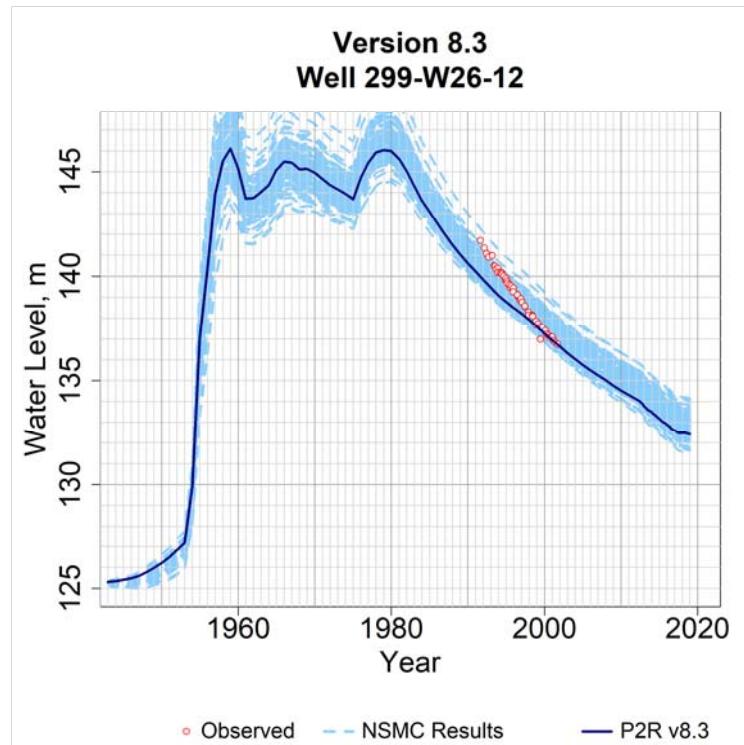


Figure B-448. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W26-12 for the calibrated model and all model variants from the NSMC.

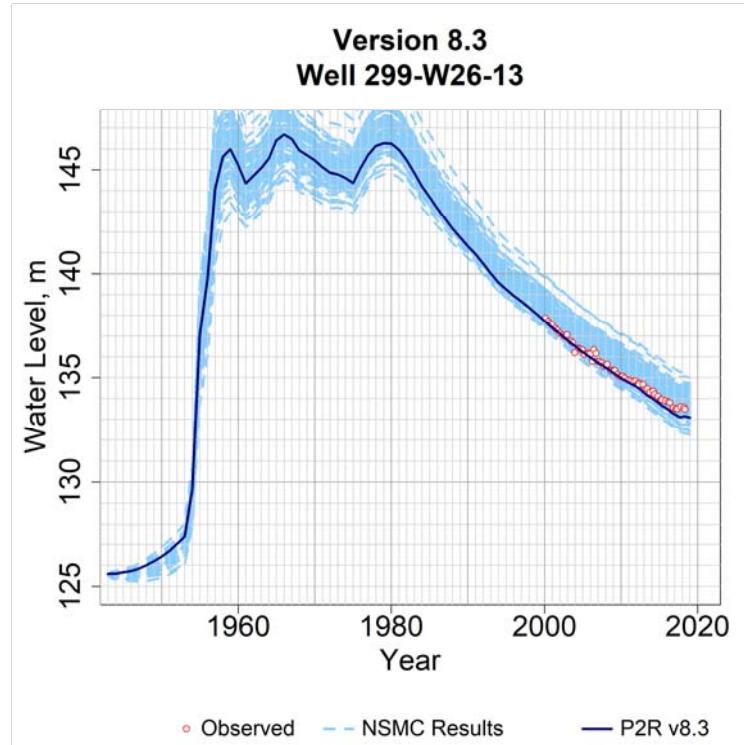


Figure B-449. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W26-13 for the calibrated model and all model variants from the NSMC.

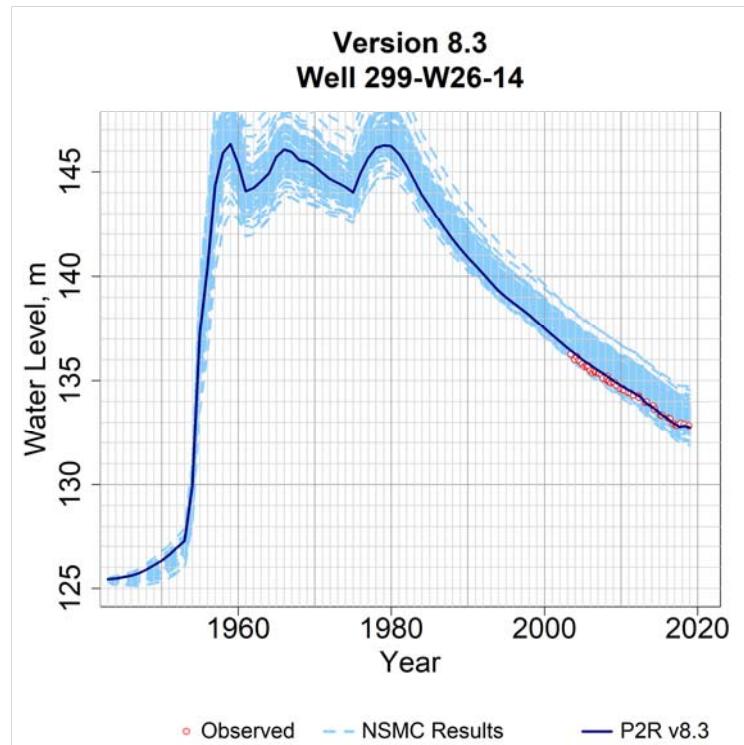


Figure B-450. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W26-14 for the calibrated model and all model variants from the NSMC.

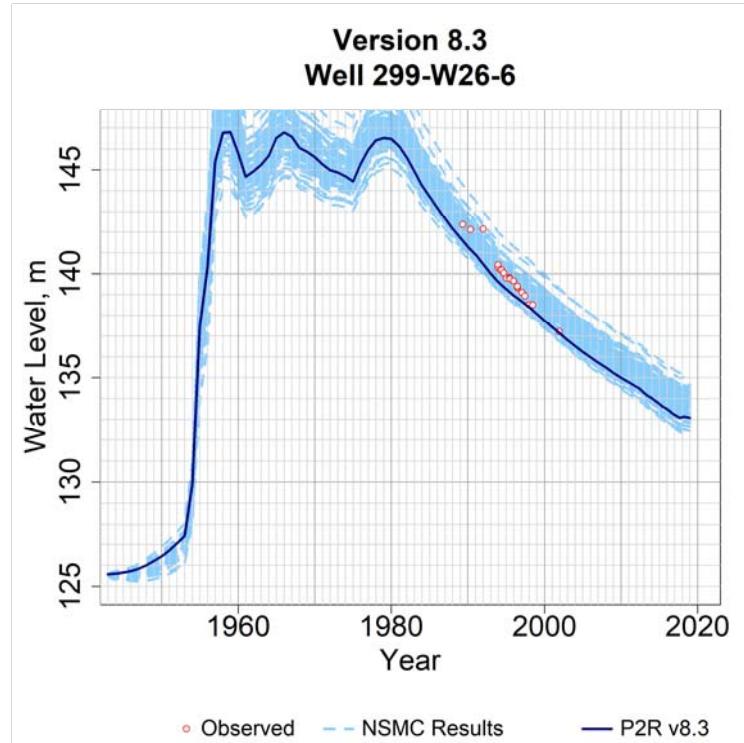


Figure B-451. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W26-6 for the calibrated model and all model variants from the NSMC.

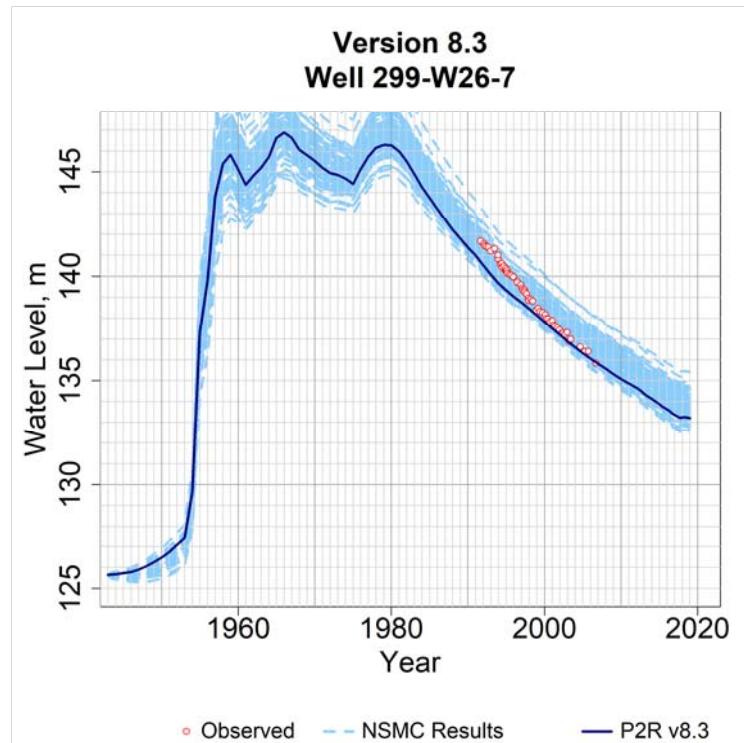


Figure B-452. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W26-7 for the calibrated model and all model variants from the NSMC.

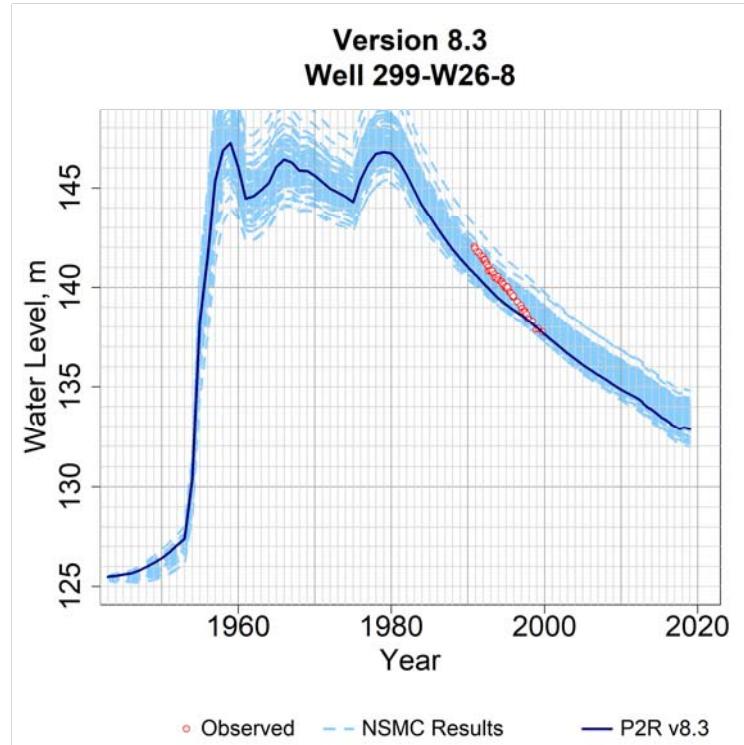


Figure B-453. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W26-8 for the calibrated model and all model variants from the NSMC.

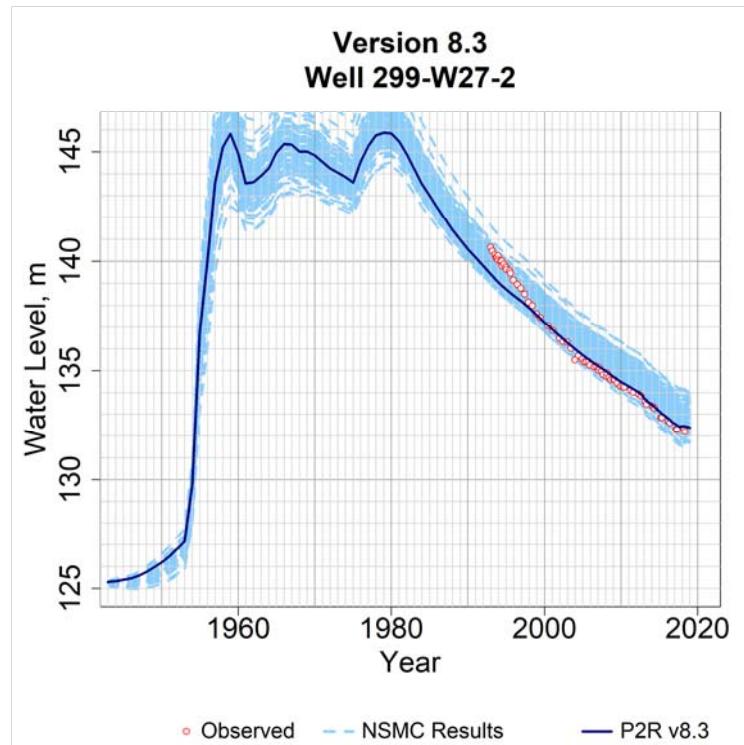


Figure B-454. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W27-2 for the calibrated model and all model variants from the NSMC.

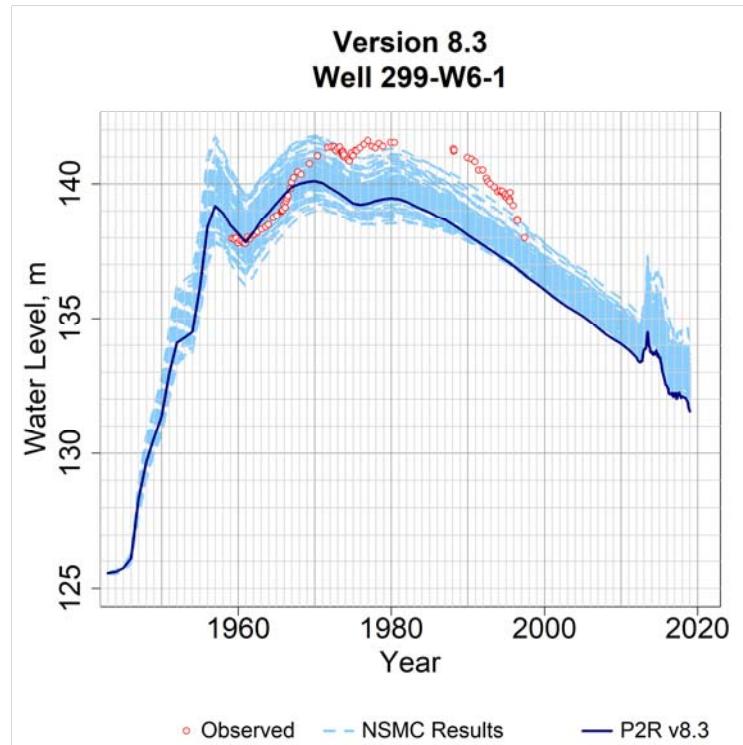


Figure B-455. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-1 for the calibrated model and all model variants from the NSMC.

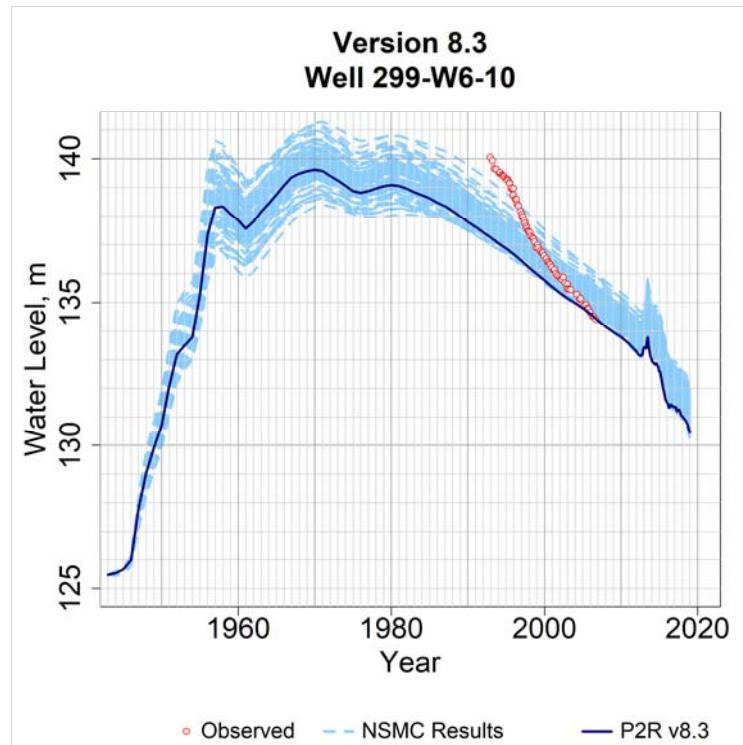


Figure B-456. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-10 for the calibrated model and all model variants from the NSMC.

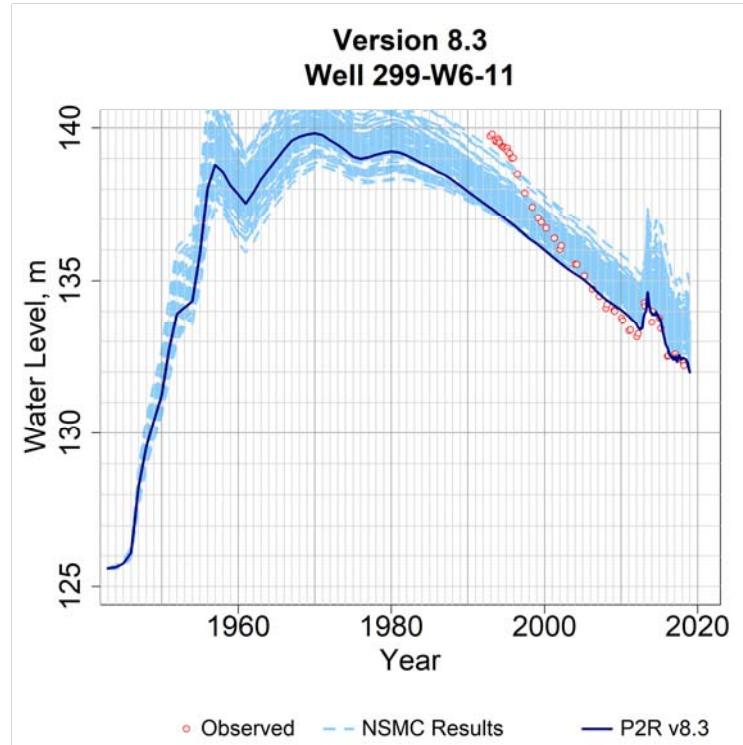


Figure B-457. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-11 for the calibrated model and all model variants from the NSMC.

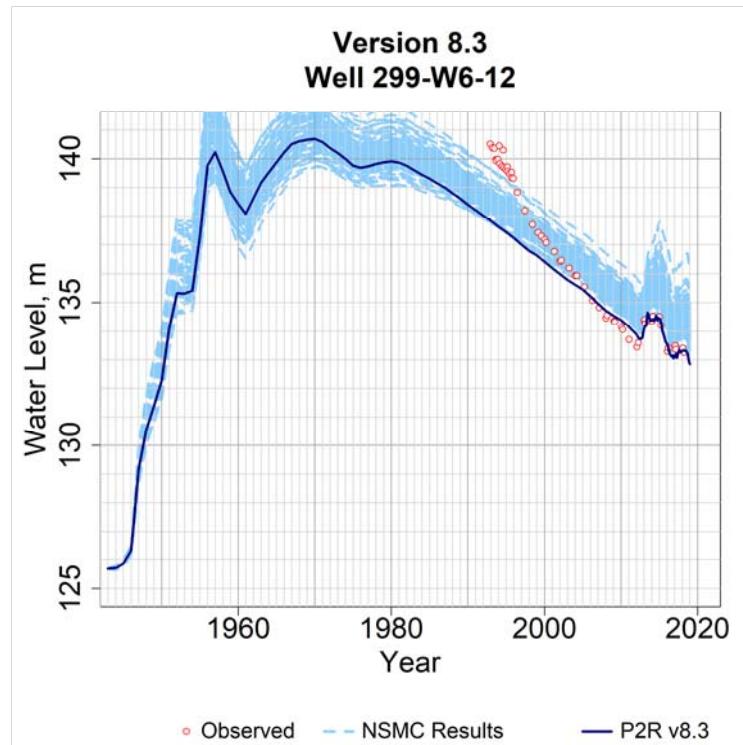


Figure B-458. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-12 for the calibrated model and all model variants from the NSMC.

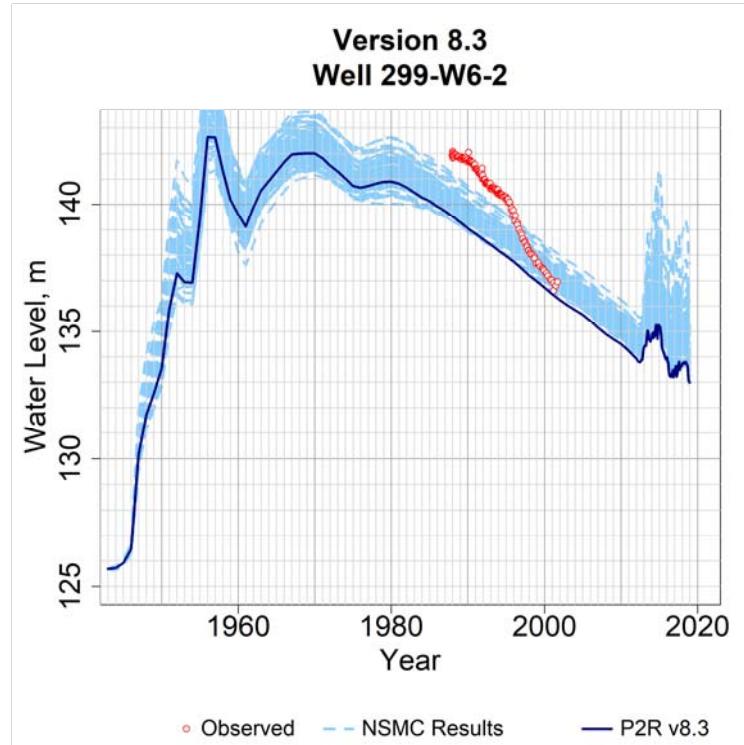


Figure B-459. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-2 for the calibrated model and all model variants from the NSMC.

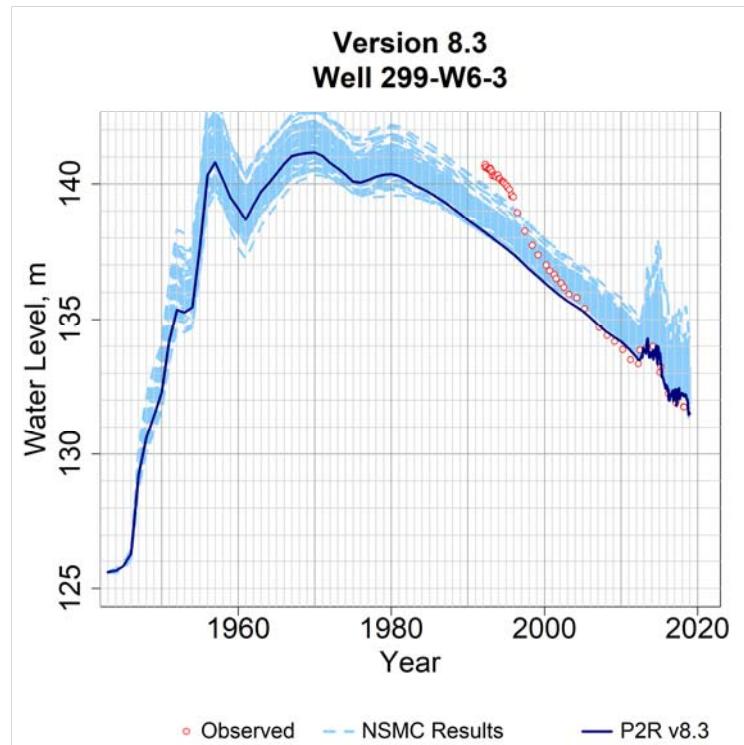


Figure B-460. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-3 for the calibrated model and all model variants from the NSMC.

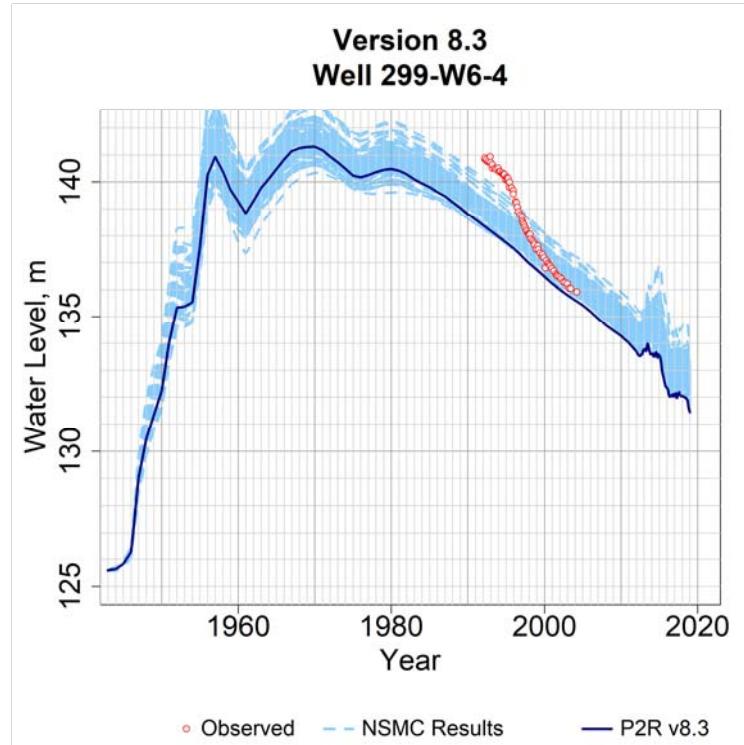


Figure B-461. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-4 for the calibrated model and all model variants from the NSMC.

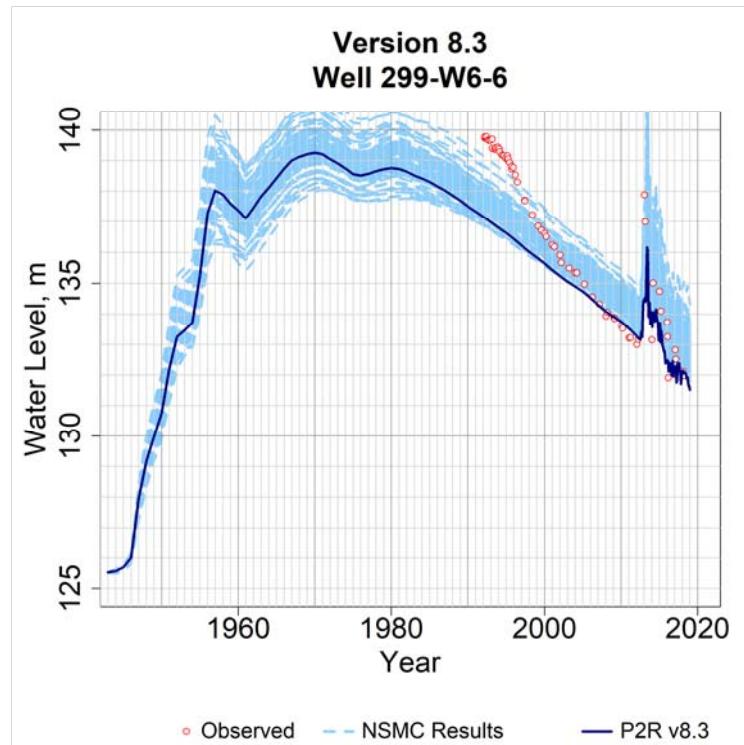


Figure B-462. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-6 for the calibrated model and all model variants from the NSMC.

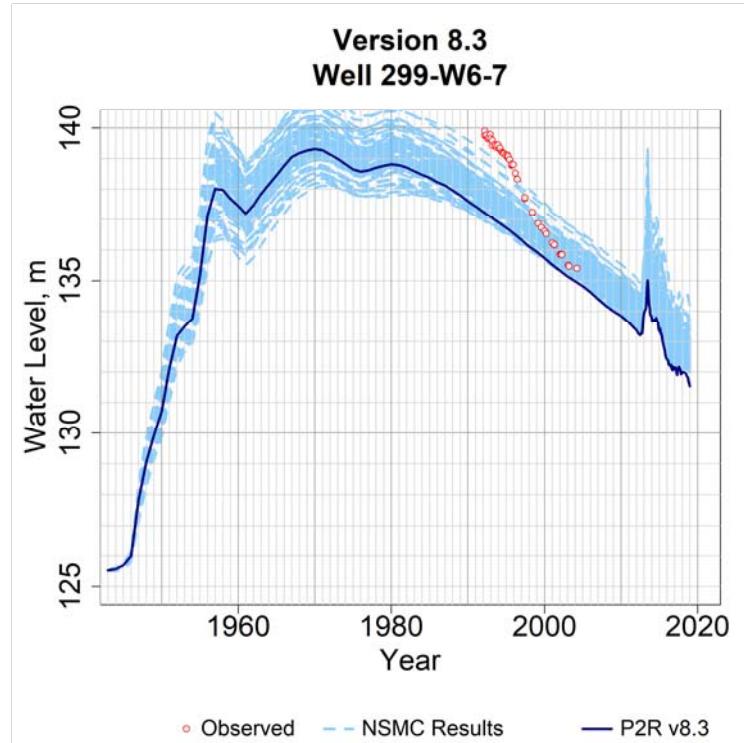


Figure B-463. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-7 for the calibrated model and all model variants from the NSMC.

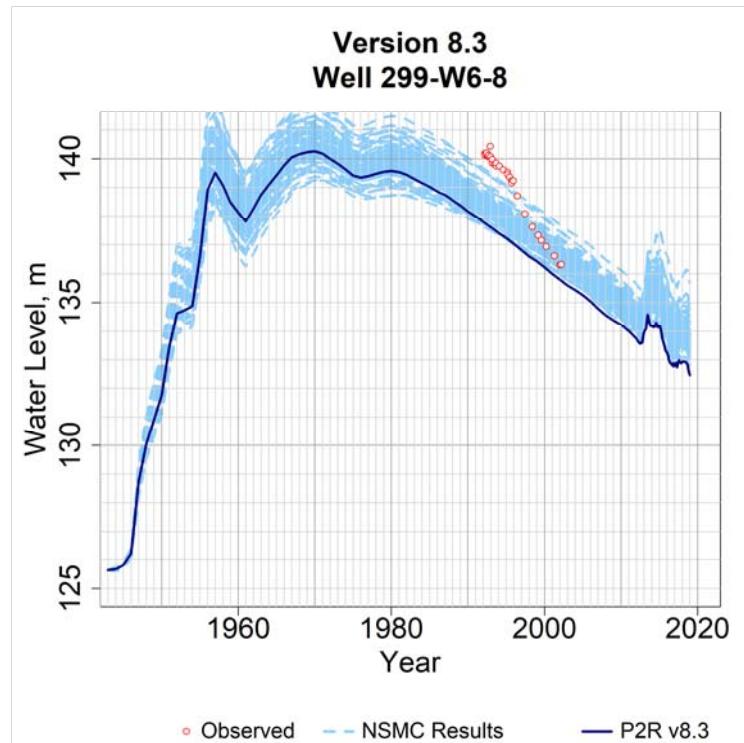


Figure B-464. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-8 for the calibrated model and all model variants from the NSMC.

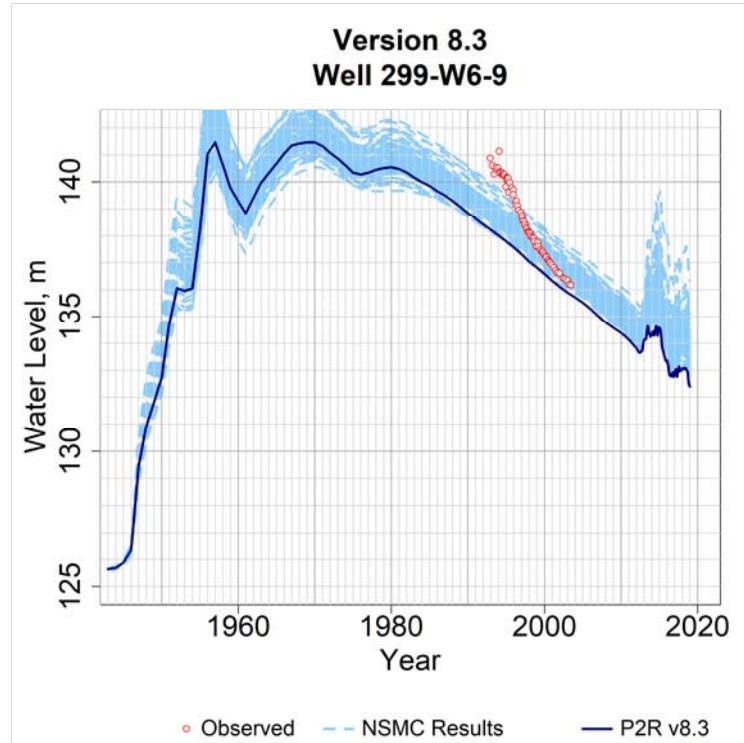


Figure B-465. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W6-9 for the calibrated model and all model variants from the NSMC.

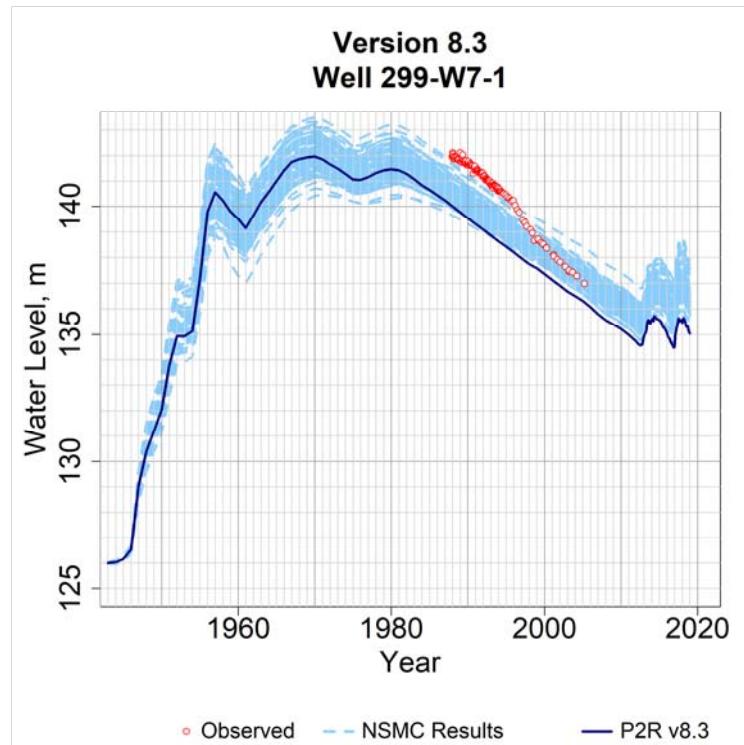


Figure B-466. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-1 for the calibrated model and all model variants from the NSMC.

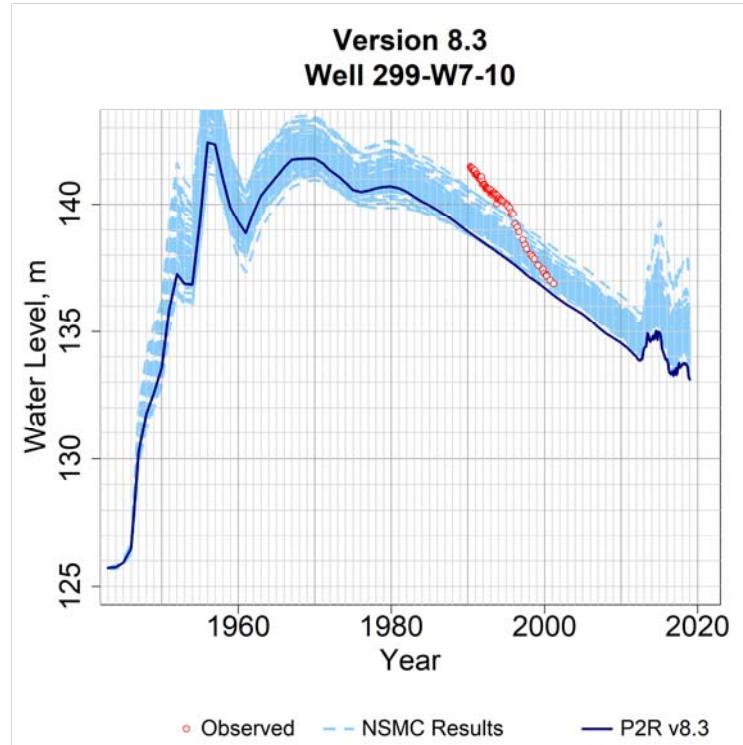


Figure B-467. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-10 for the calibrated model and all model variants from the NSMC.

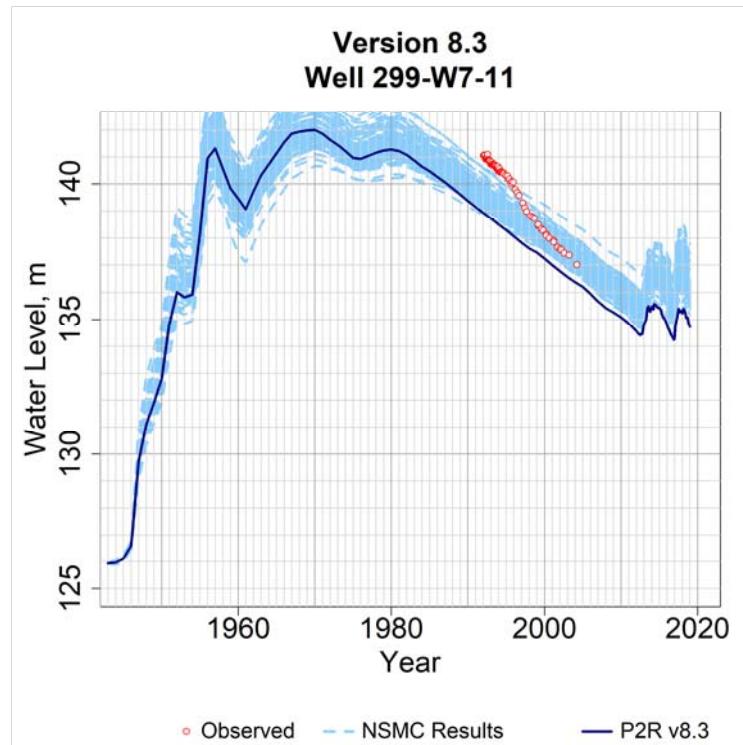


Figure B-468. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-11 for the calibrated model and all model variants from the NSMC.

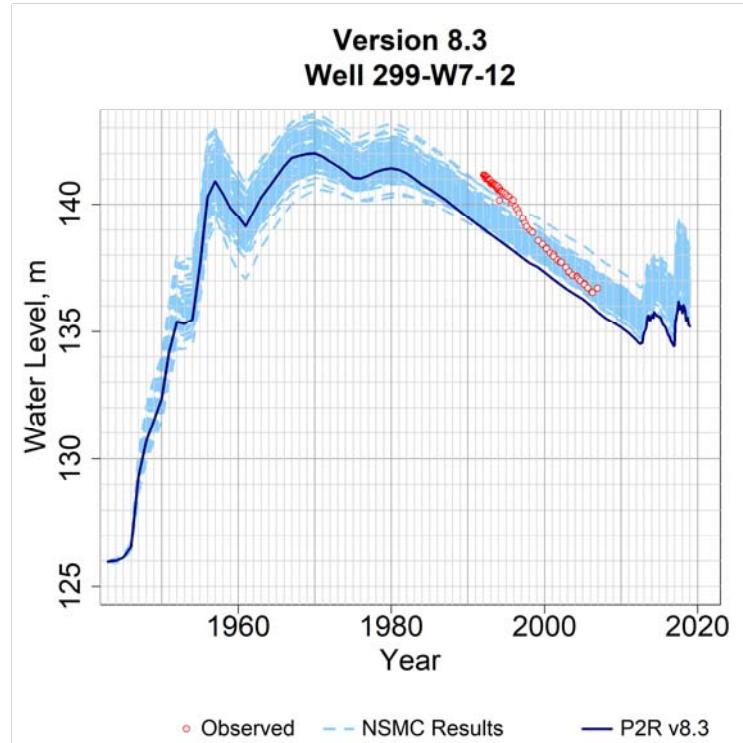


Figure B-469. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-12 for the calibrated model and all model variants from the NSMC.

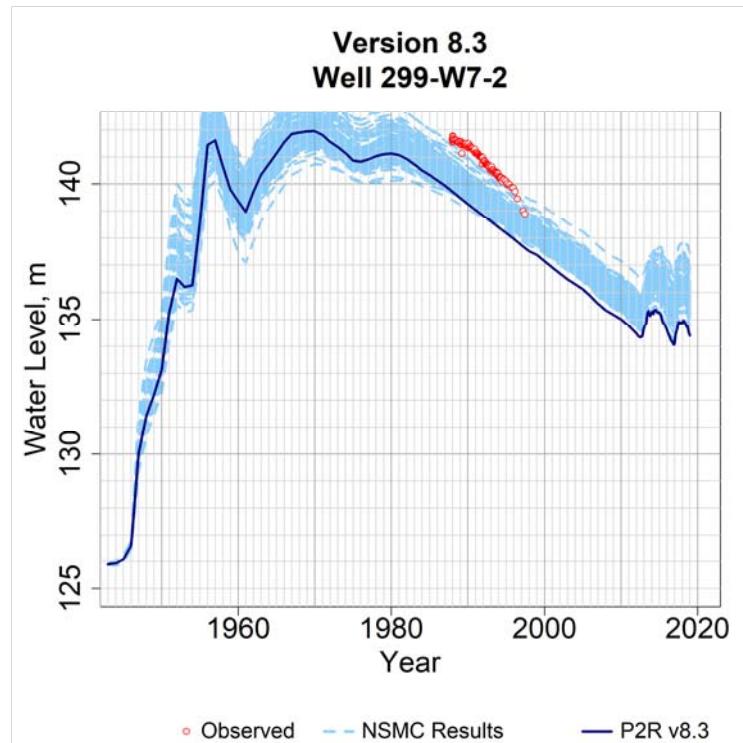


Figure B-470. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-2 for the calibrated model and all model variants from the NSMC.

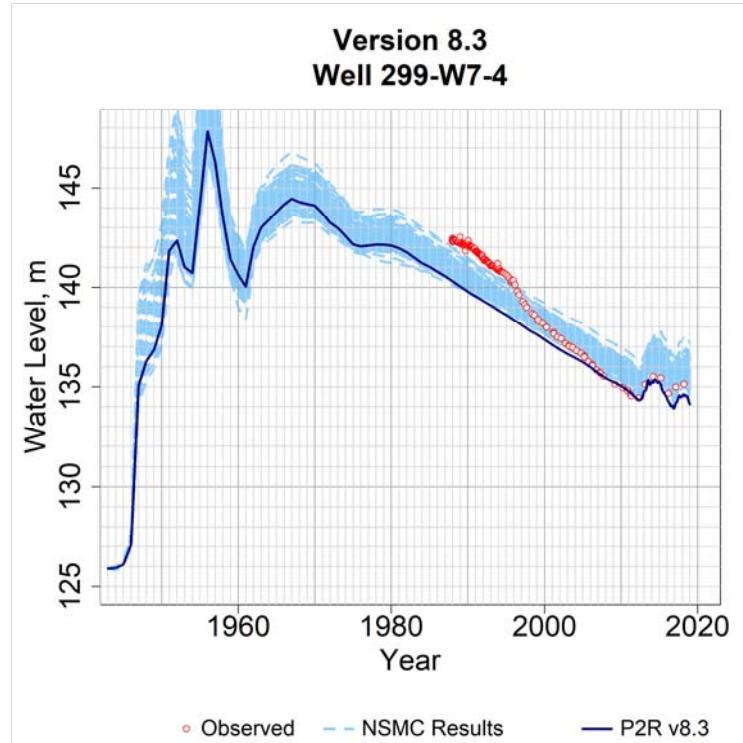


Figure B-471. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-4 for the calibrated model and all model variants from the NSMC.

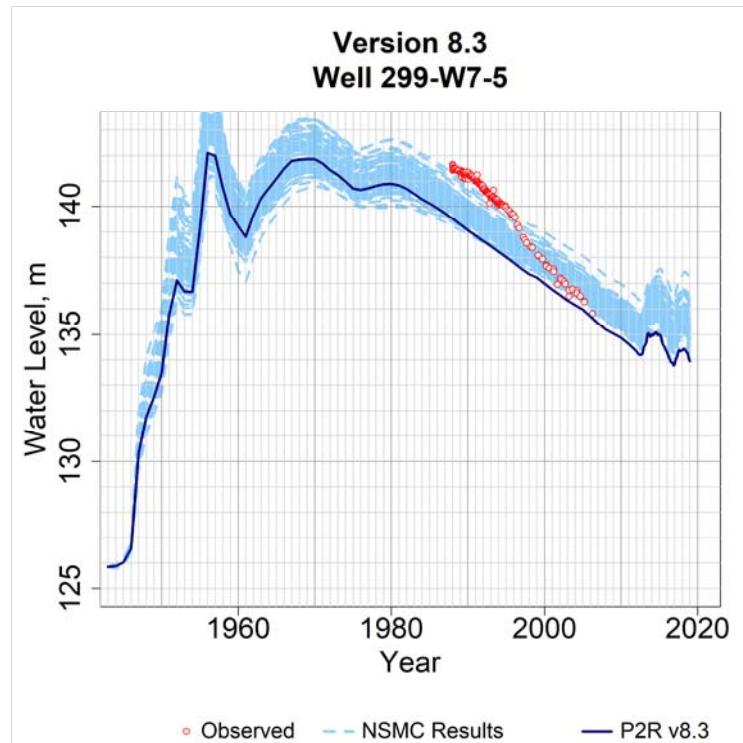


Figure B-472. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-5 for the calibrated model and all model variants from the NSMC.

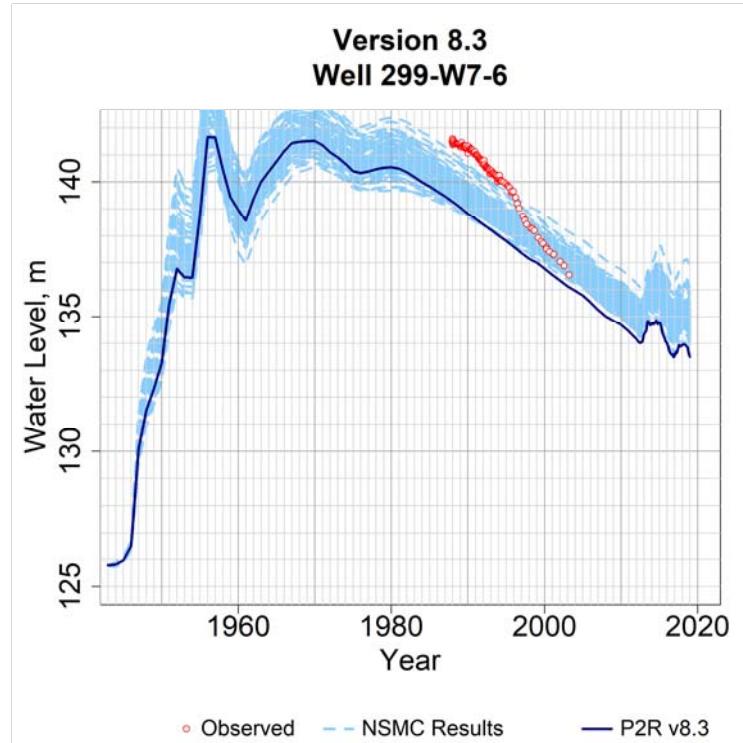


Figure B-473. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-6 for the calibrated model and all model variants from the NSMC.

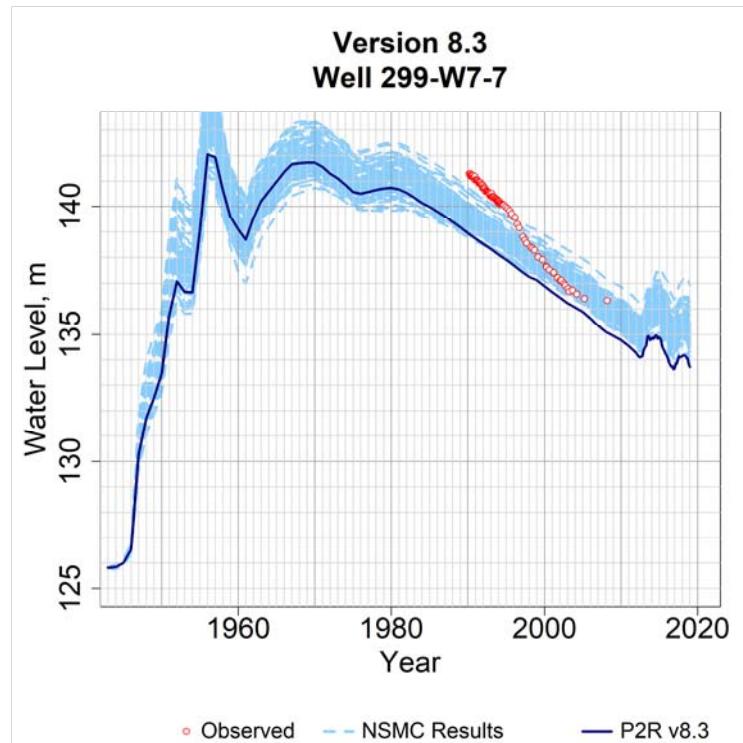


Figure B-474. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-7 for the calibrated model and all model variants from the NSMC.

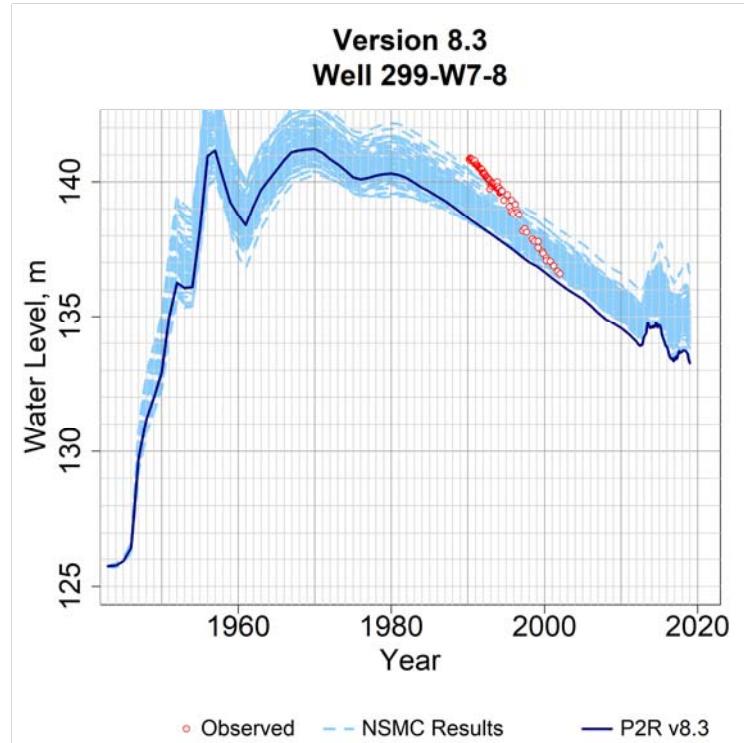


Figure B-475. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-8 for the calibrated model and all model variants from the NSMC.

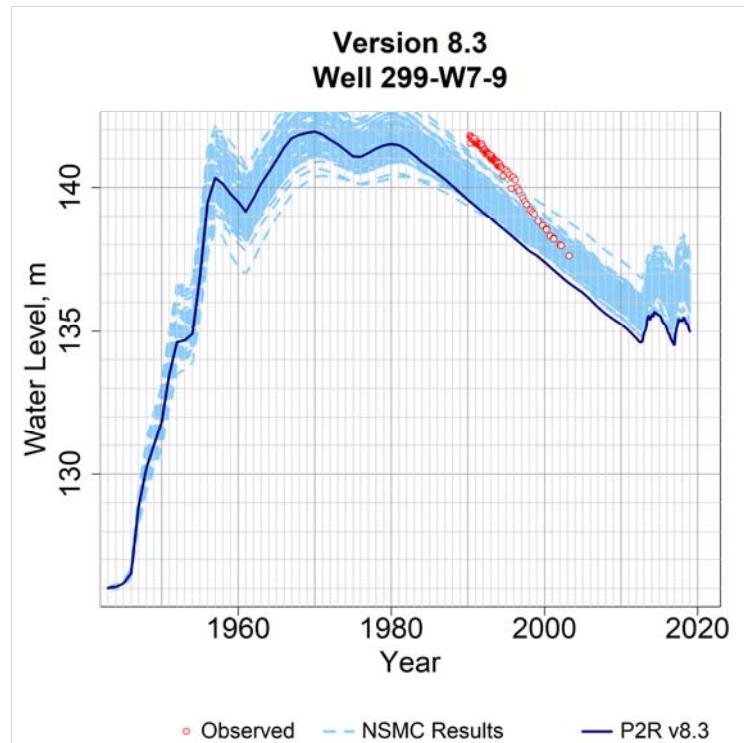


Figure B-476. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W7-9 for the calibrated model and all model variants from the NSMC.

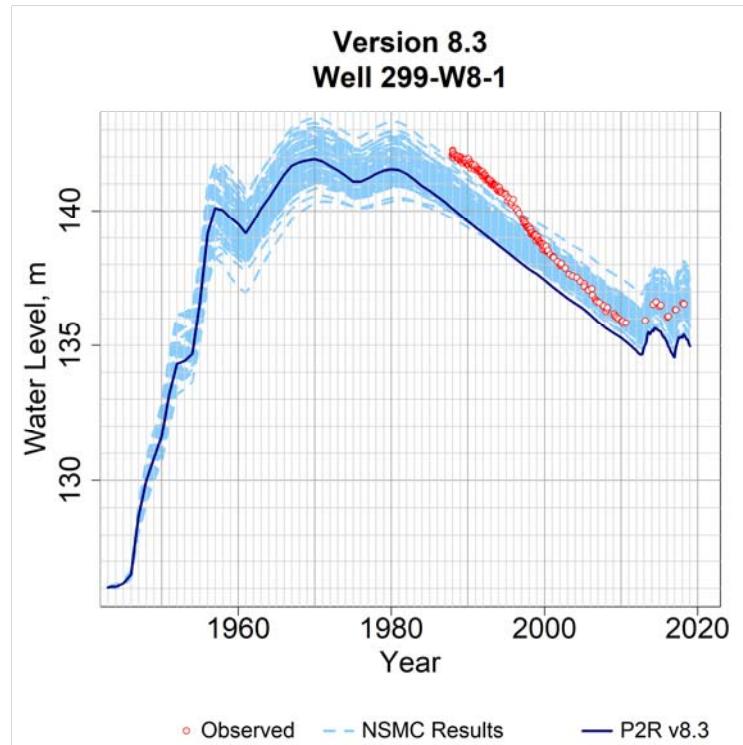


Figure B-477. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W8-1 for the calibrated model and all model variants from the NSMC.

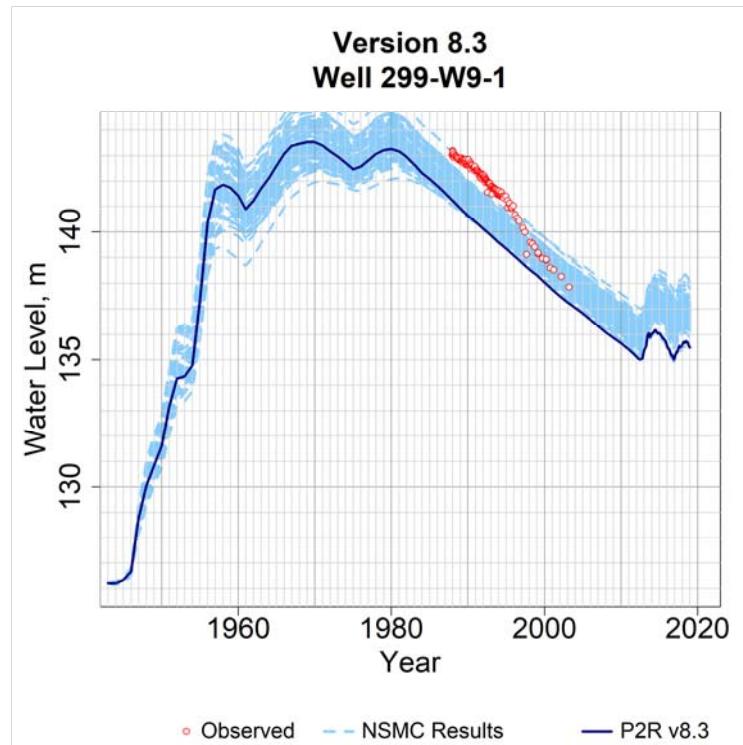


Figure B-478. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W9-1 for the calibrated model and all model variants from the NSMC.

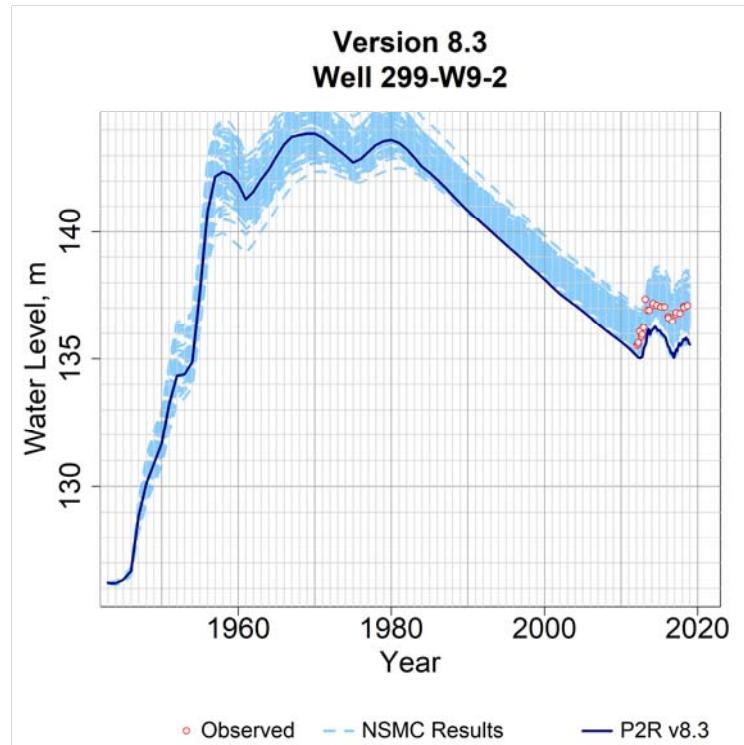


Figure B-479. Comparison of Observed and Simulated Water Level in the P2R Model at Well 299-W9-2 for the calibrated model and all model variants from the NSMC.

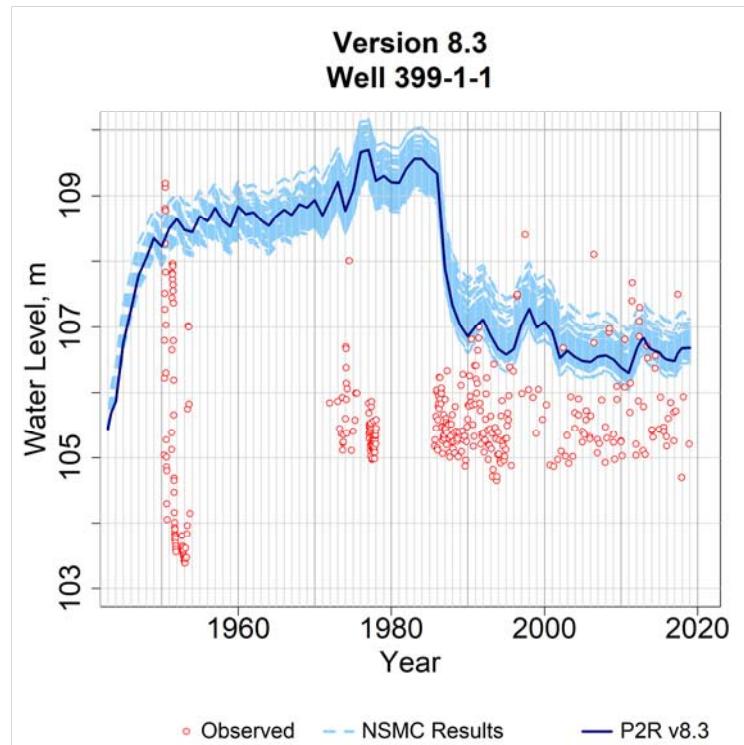


Figure B-480. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-1 for the calibrated model and all model variants from the NSMC.

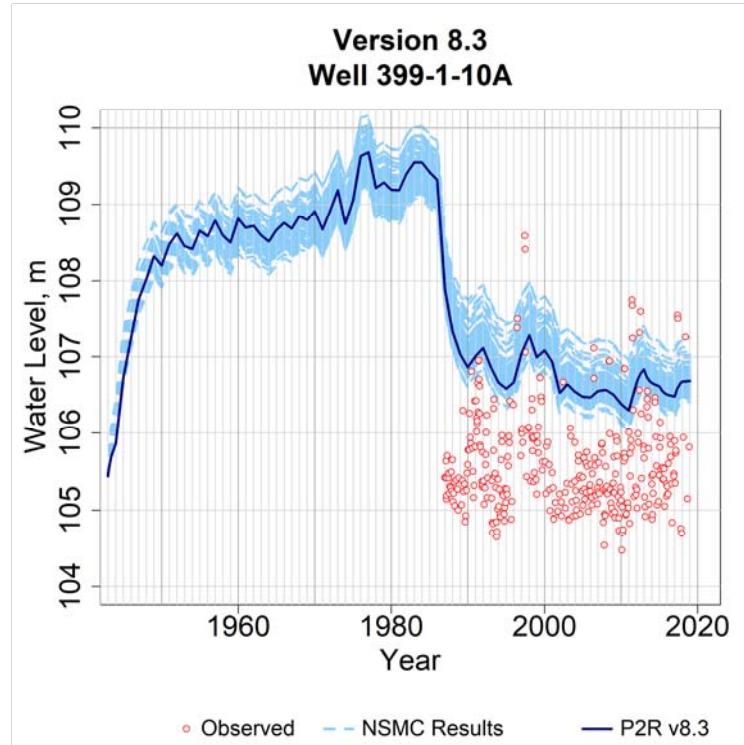


Figure B-481. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-10A for the calibrated model and all model variants from the NSMC.

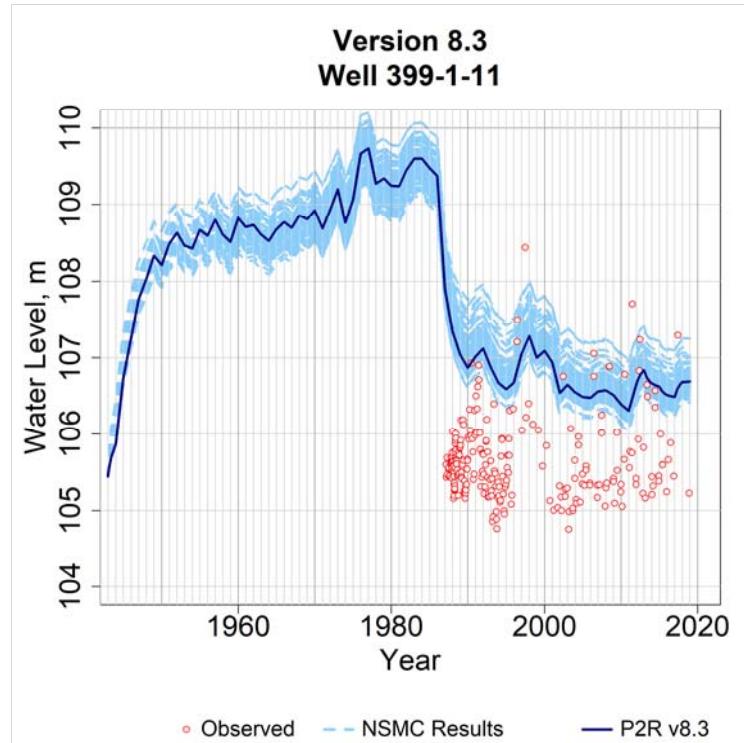


Figure B-482. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-11 for the calibrated model and all model variants from the NSMC.

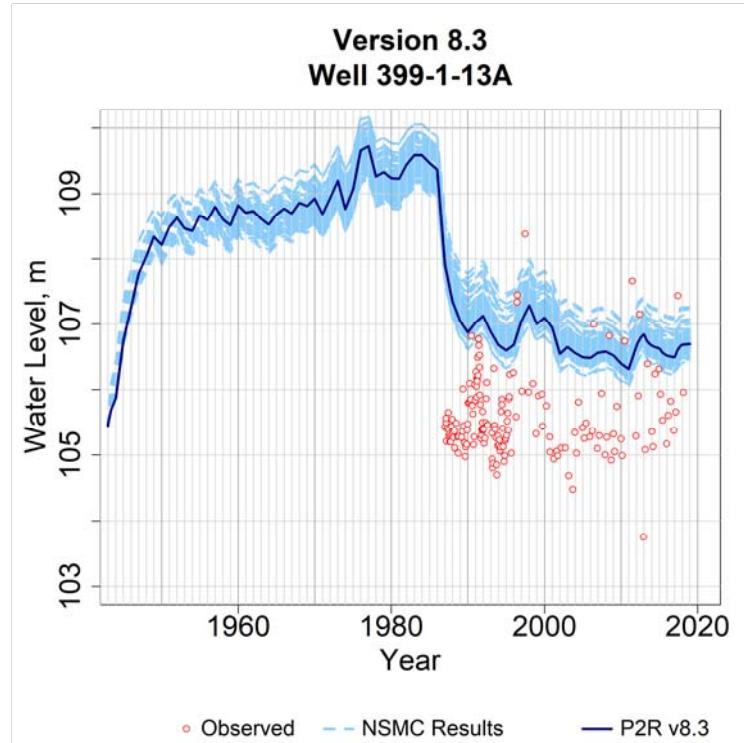


Figure B-483. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-13A for the calibrated model and all model variants from the NSMC.

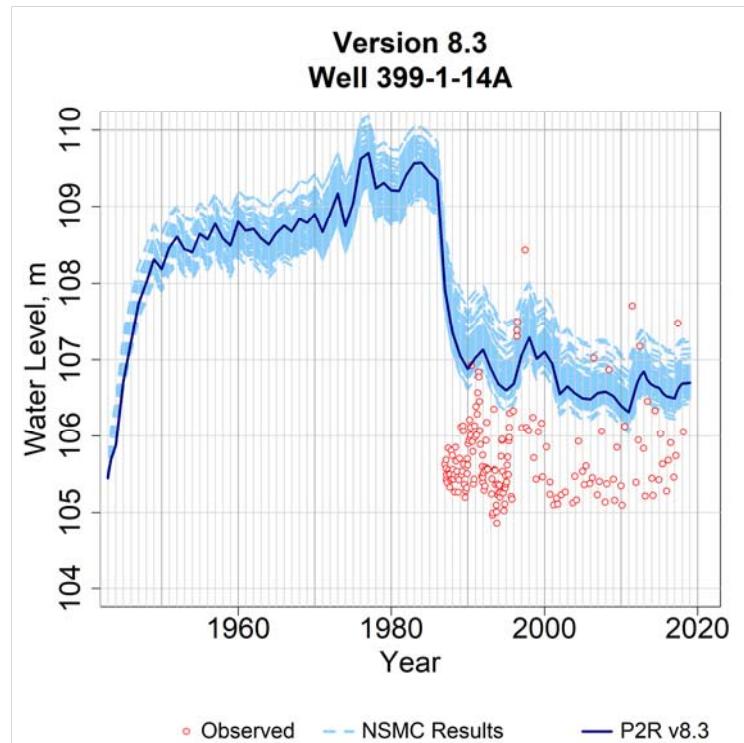


Figure B-484. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-14A for the calibrated model and all model variants from the NSMC.

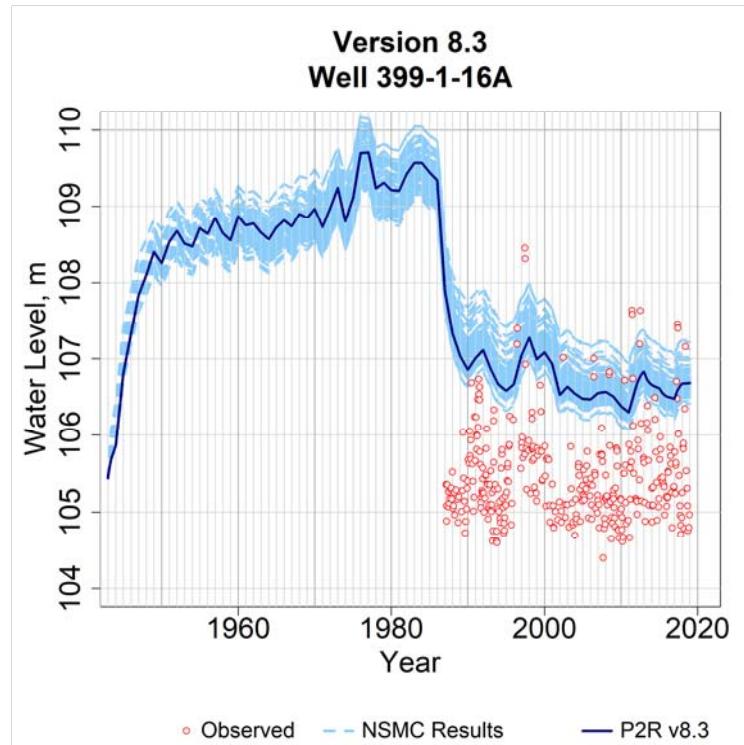


Figure B-485. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-16A for the calibrated model and all model variants from the NSMC.

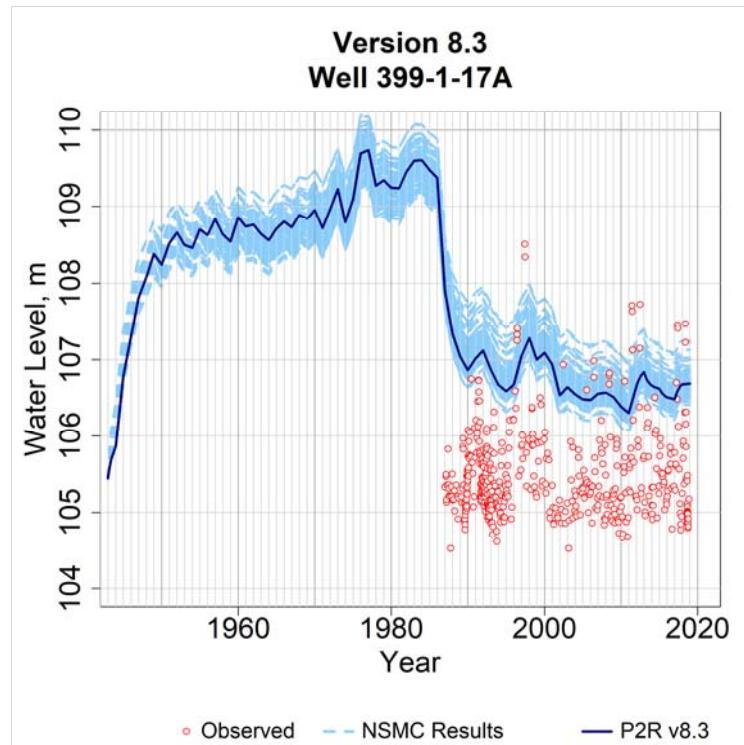


Figure B-486. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-17A for the calibrated model and all model variants from the NSMC.

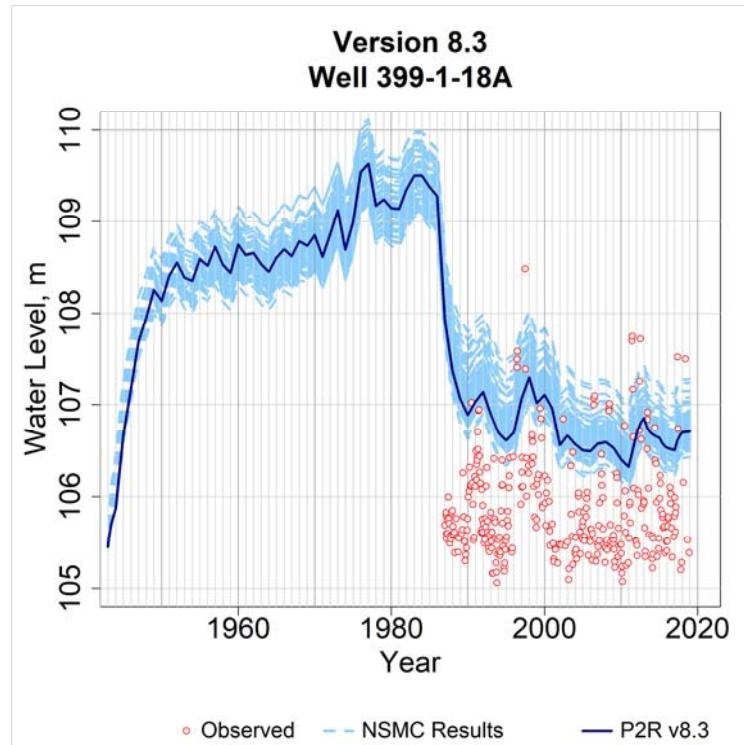


Figure B-487. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-18A for the calibrated model and all model variants from the NSMC.

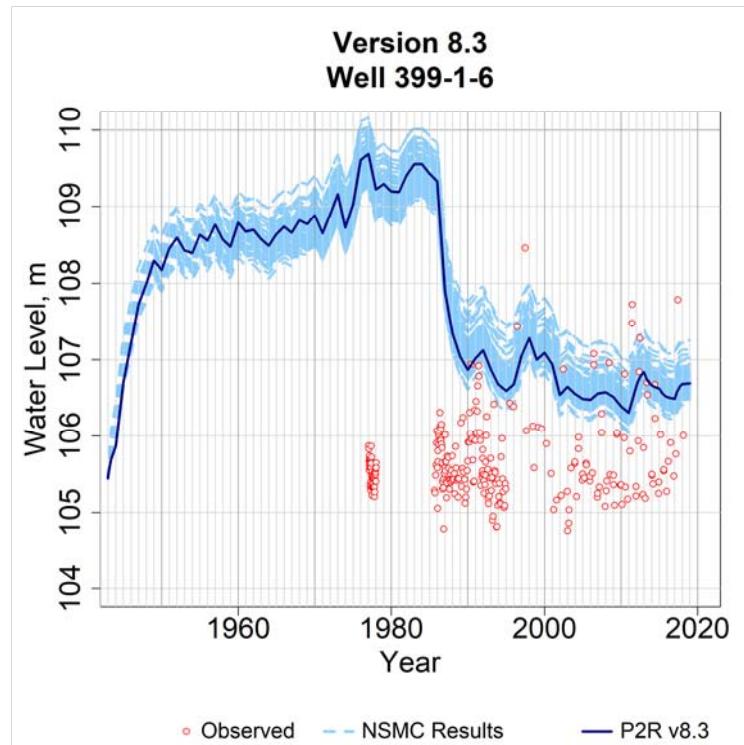


Figure B-488. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-1-6 for the calibrated model and all model variants from the NSMC.

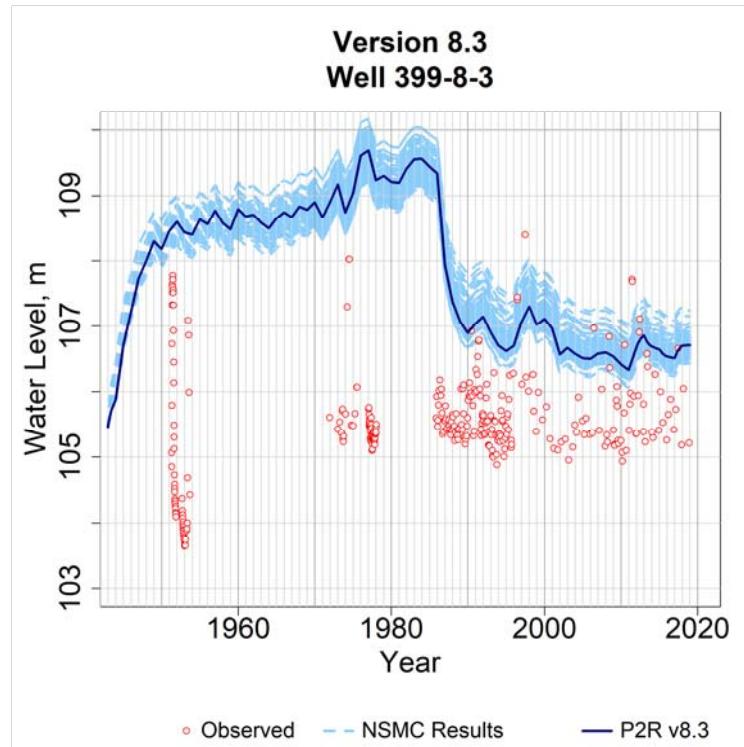


Figure B-489. Comparison of Observed and Simulated Water Level in the P2R Model at Well 399-8-3 for the calibrated model and all model variants from the NSMC.

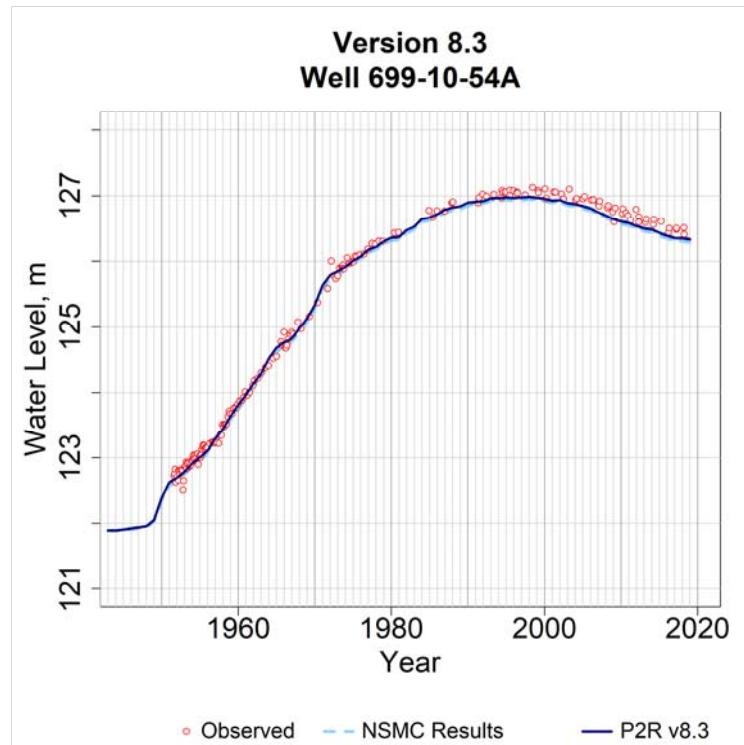


Figure B-490. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-10-54A for the calibrated model and all model variants from the NSMC.

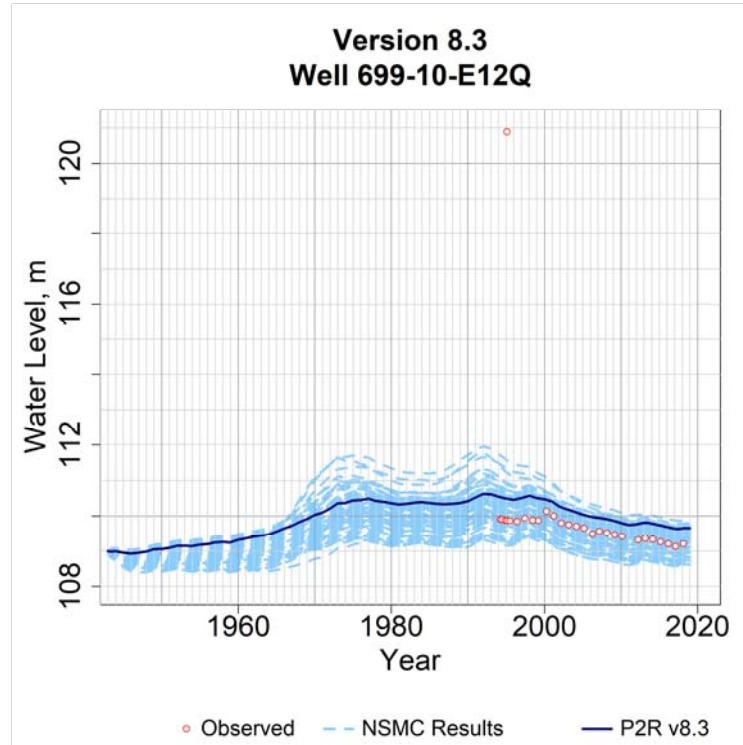


Figure B-491. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-10-E12Q for the calibrated model and all model variants from the NSMC.

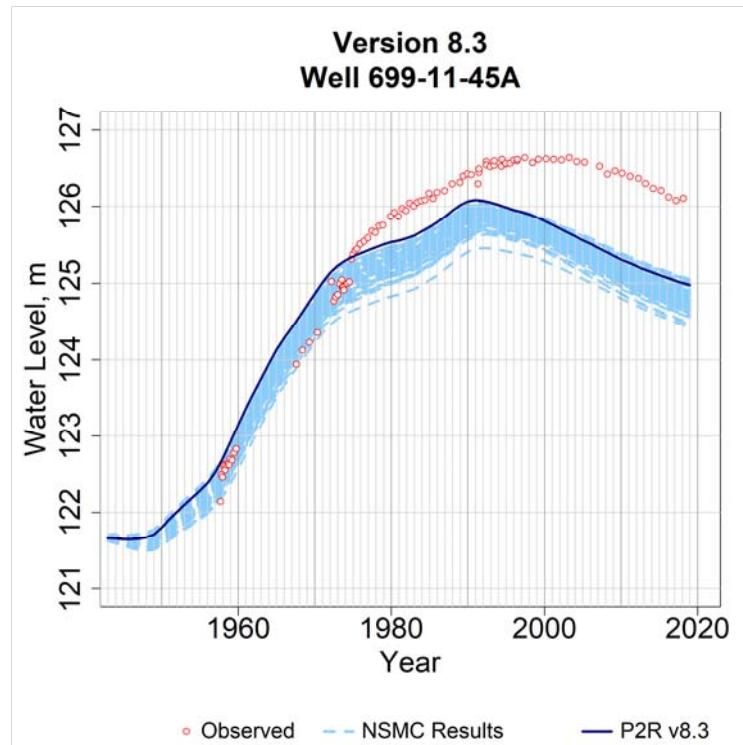


Figure B-492. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-11-45A for the calibrated model and all model variants from the NSMC.

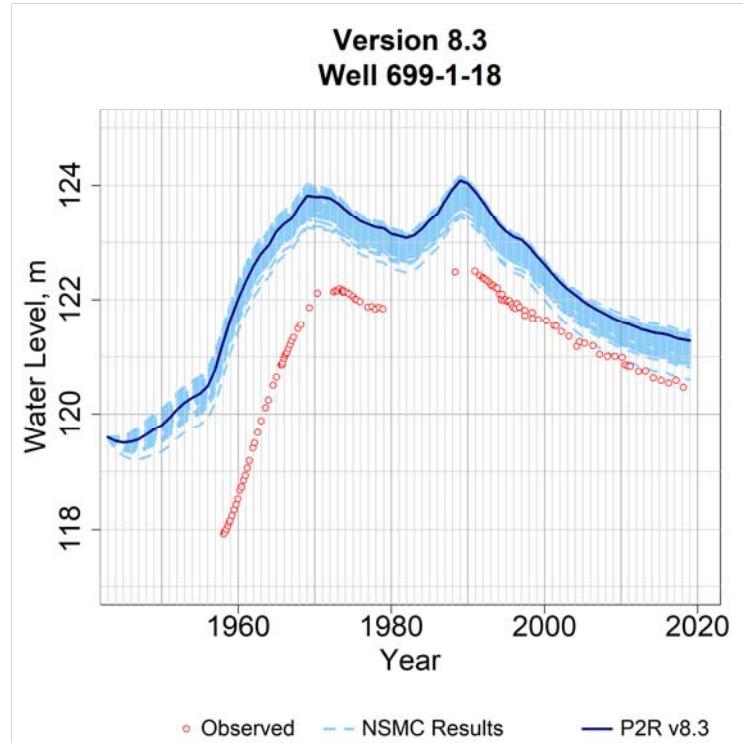


Figure B-493. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-1-18 for the calibrated model and all model variants from the NSMC.

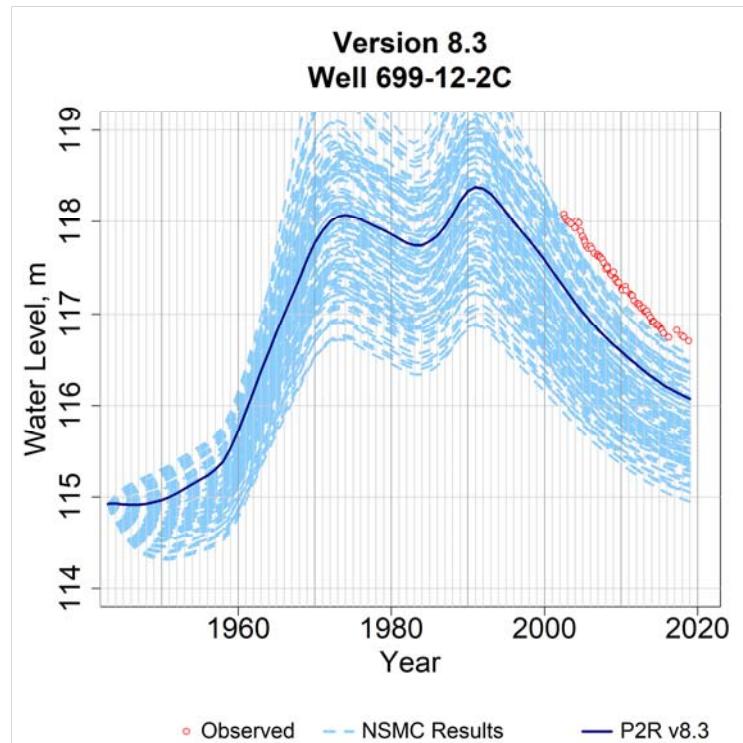


Figure B-494. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-12-2C for the calibrated model and all model variants from the NSMC.

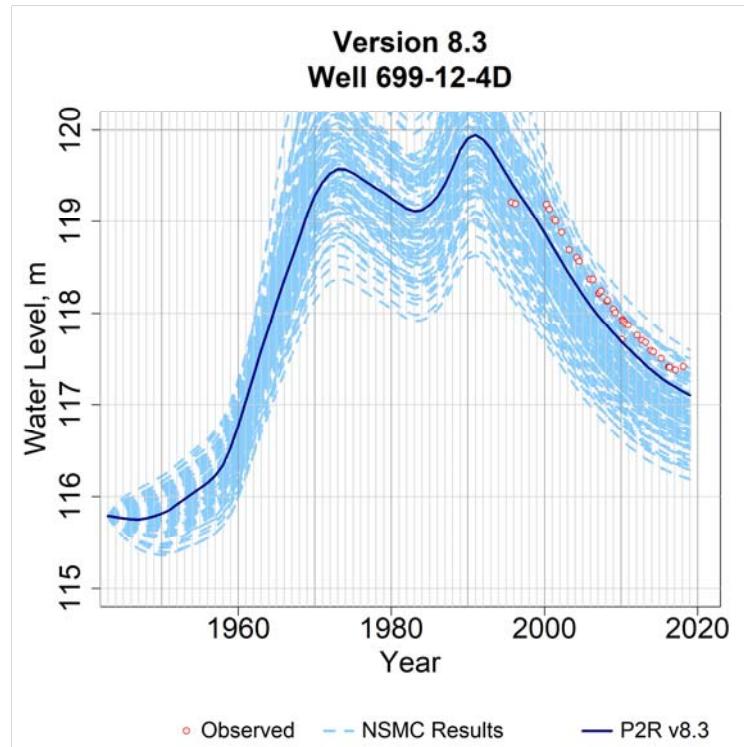


Figure B-495. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-12-4D for the calibrated model and all model variants from the NSMC.

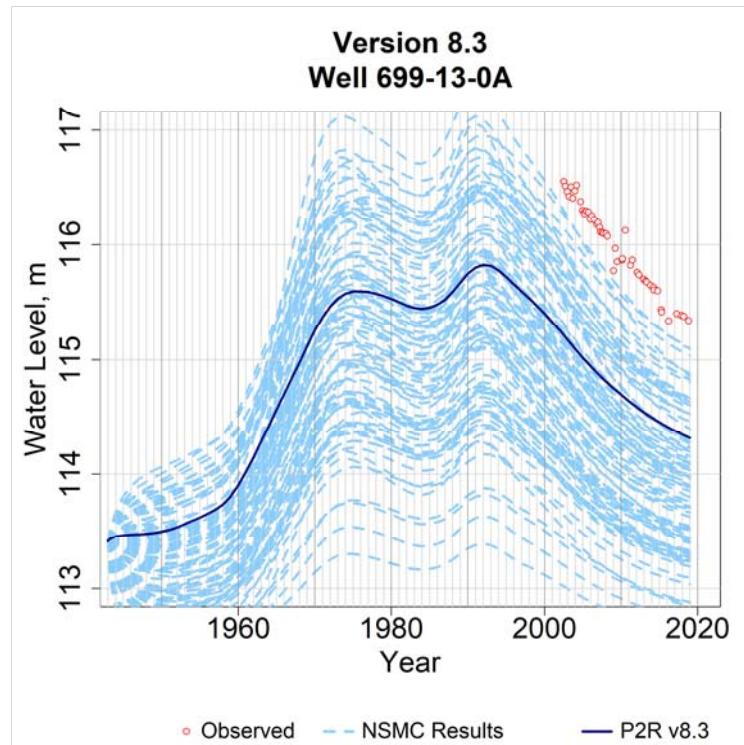


Figure B-496. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-13-0A for the calibrated model and all model variants from the NSMC.

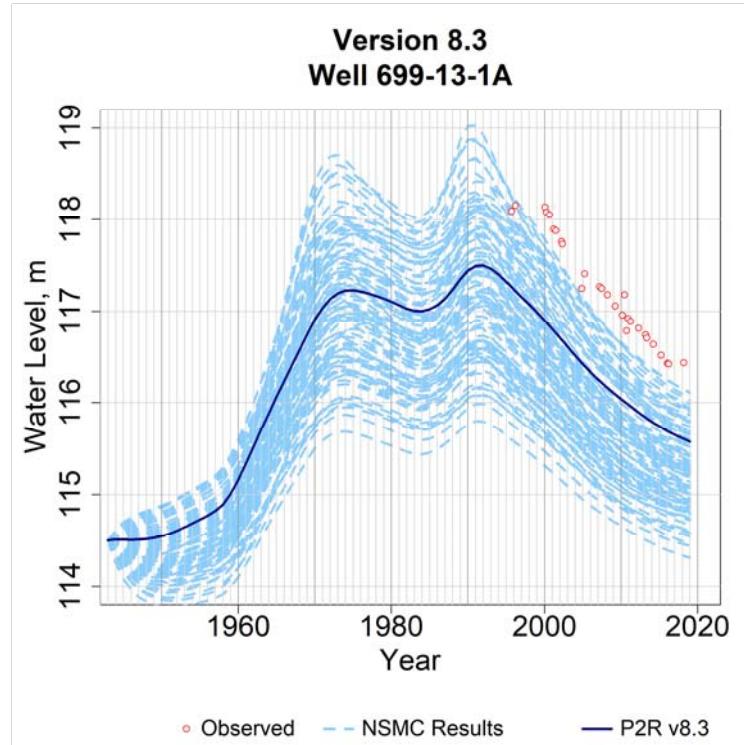


Figure B-497. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-13-1A for the calibrated model and all model variants from the NSMC.

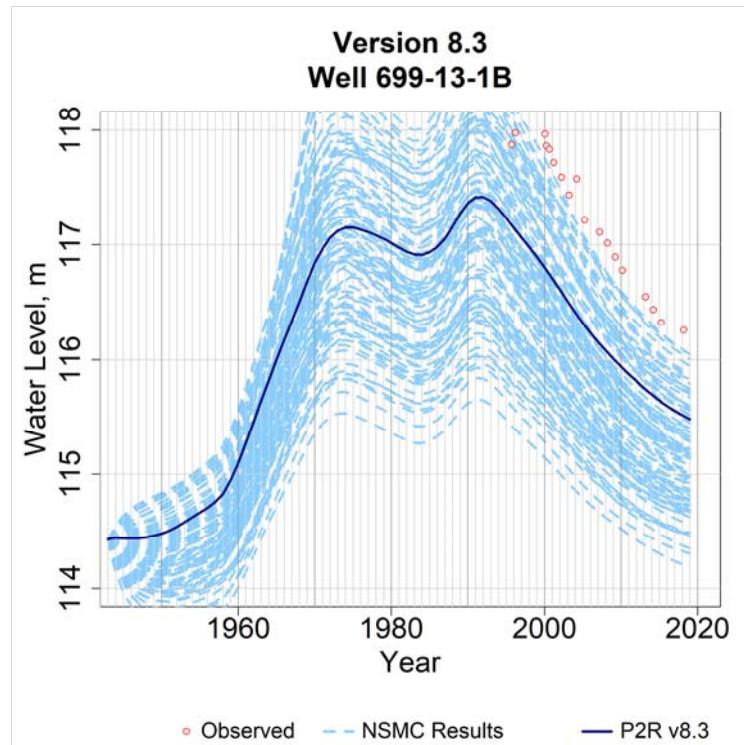


Figure B-498. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-13-1B for the calibrated model and all model variants from the NSMC.

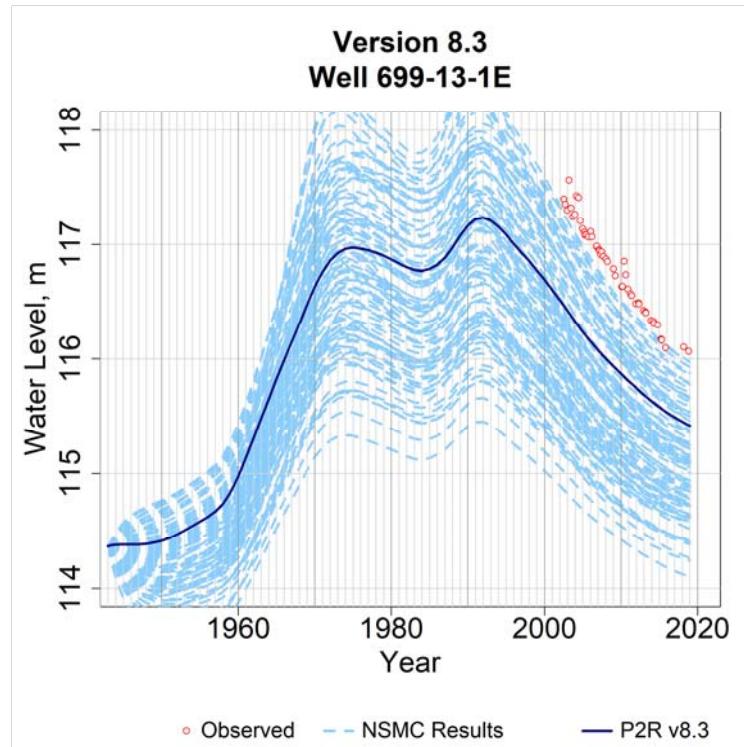


Figure B-499. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-13-1E for the calibrated model and all model variants from the NSMC.

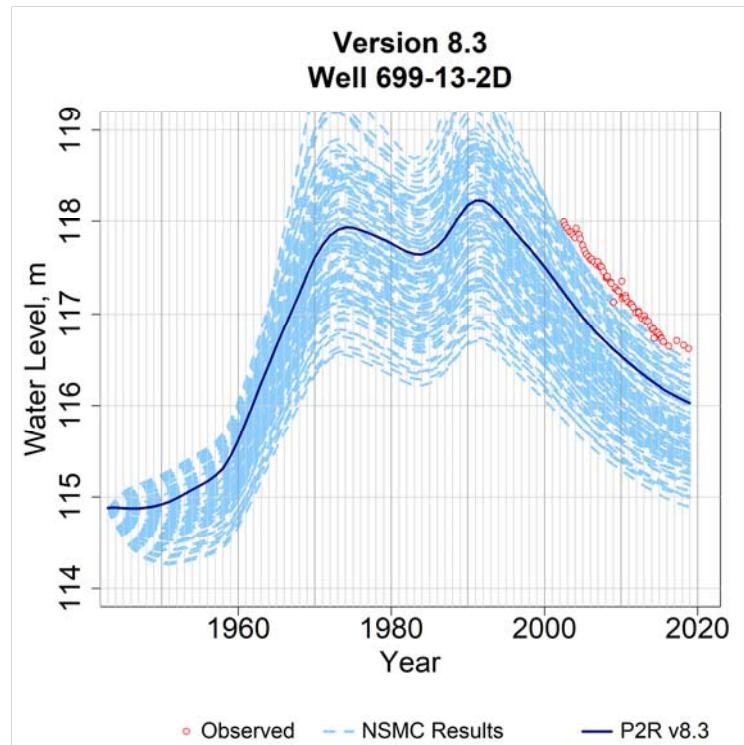


Figure B-500. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-13-2D for the calibrated model and all model variants from the NSMC.

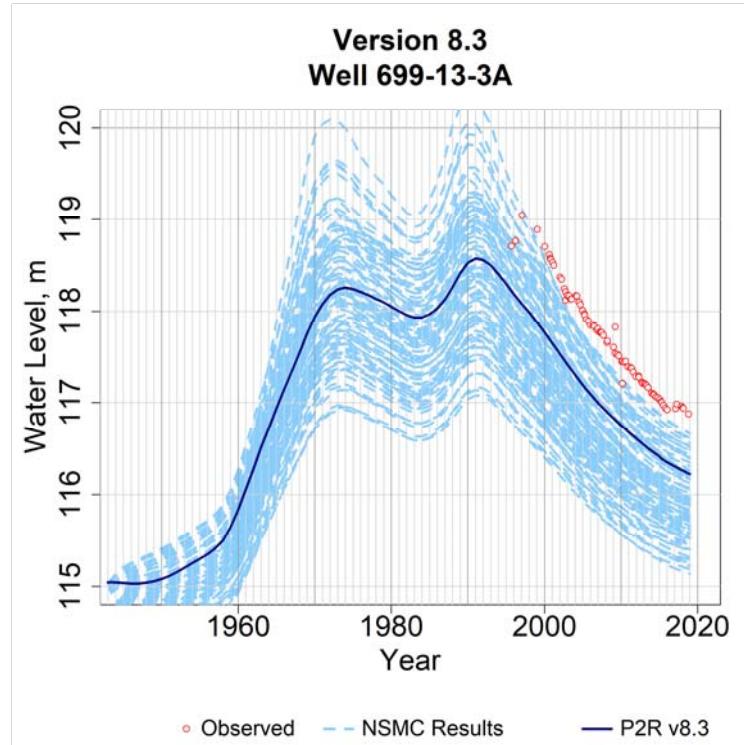


Figure B-501. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-13-3A for the calibrated model and all model variants from the NSMC.

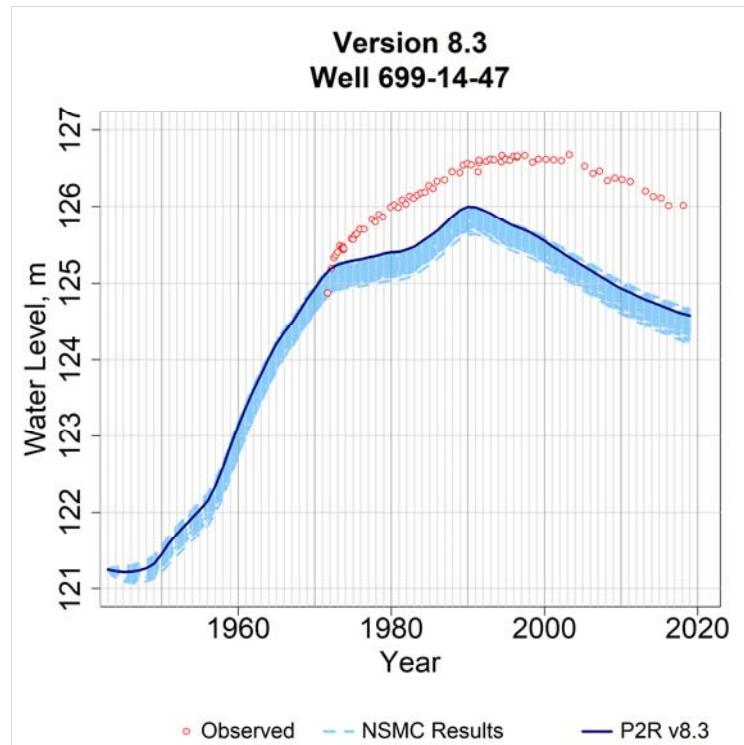


Figure B-502. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-14-47 for the calibrated model and all model variants from the NSMC.

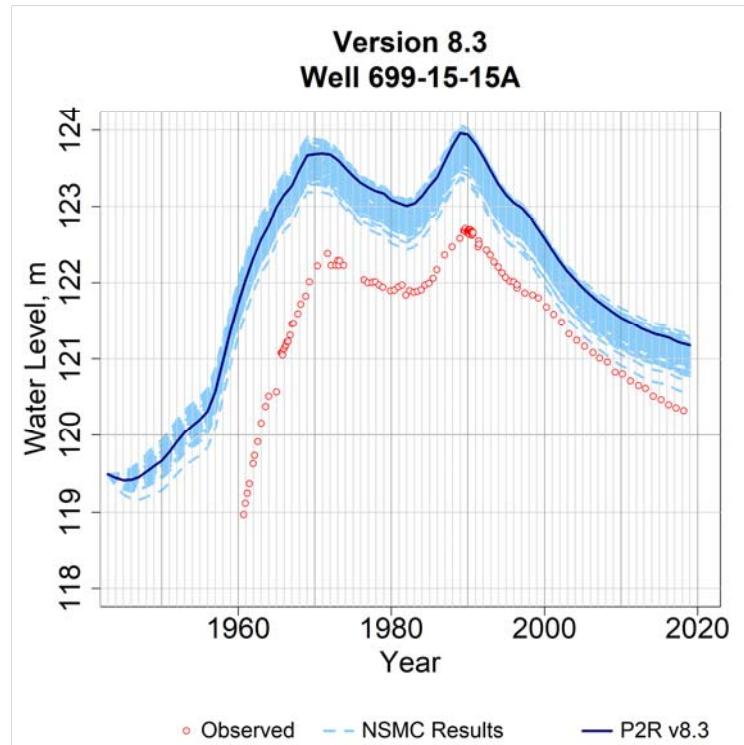


Figure B-503. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-15-15A for the calibrated model and all model variants from the NSMC.

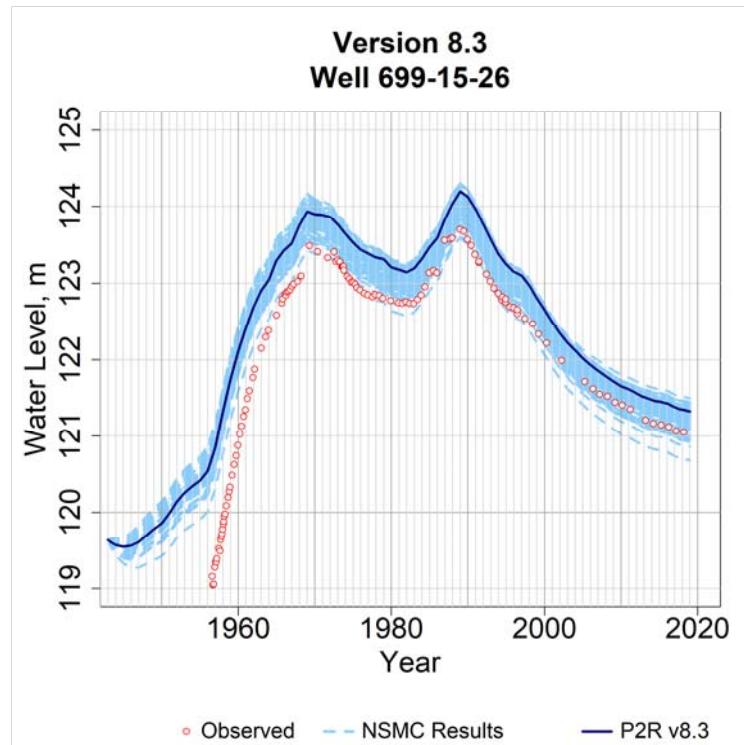


Figure B-504. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-15-26 for the calibrated model and all model variants from the NSMC.

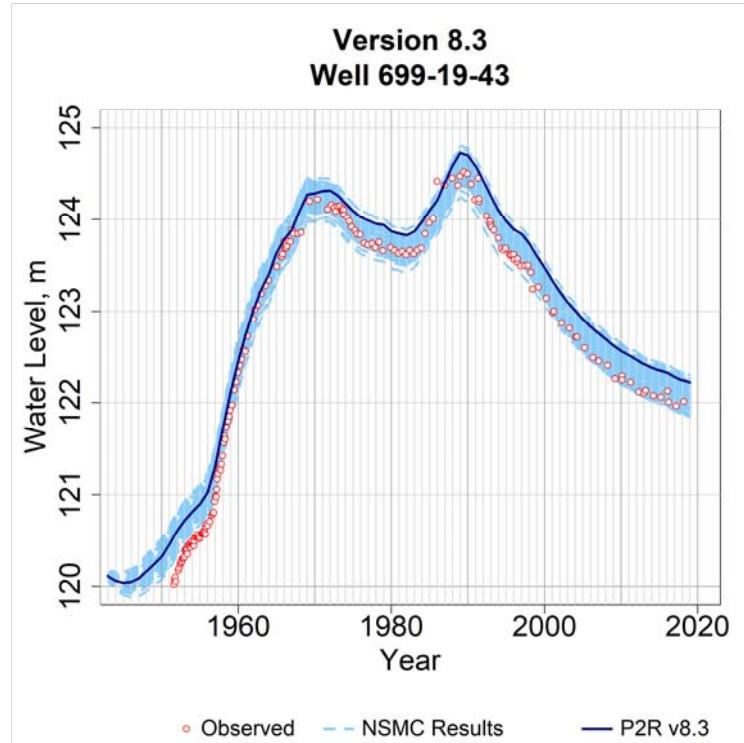


Figure B-505. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-19-43 for the calibrated model and all model variants from the NSMC.

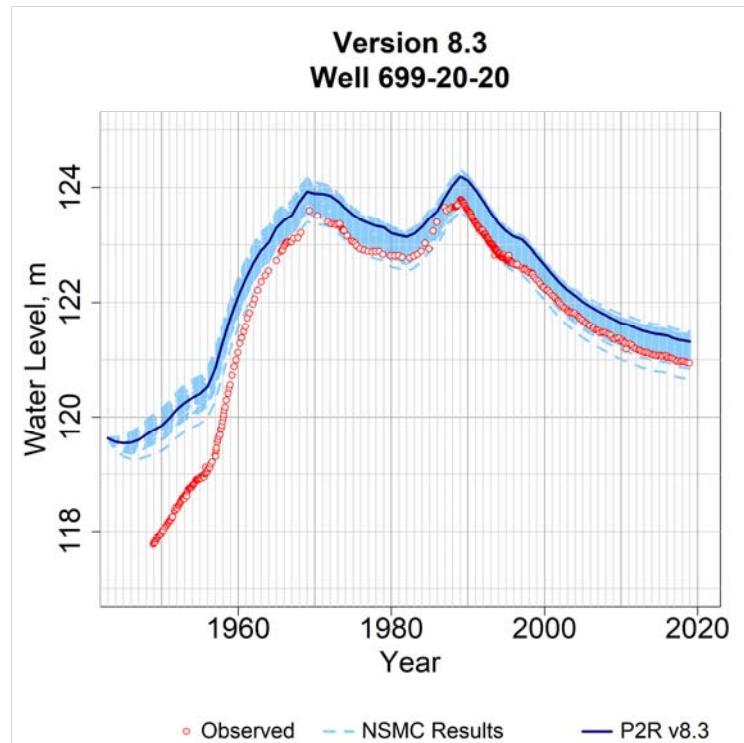


Figure B-506. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-20-20 for the calibrated model and all model variants from the NSMC.

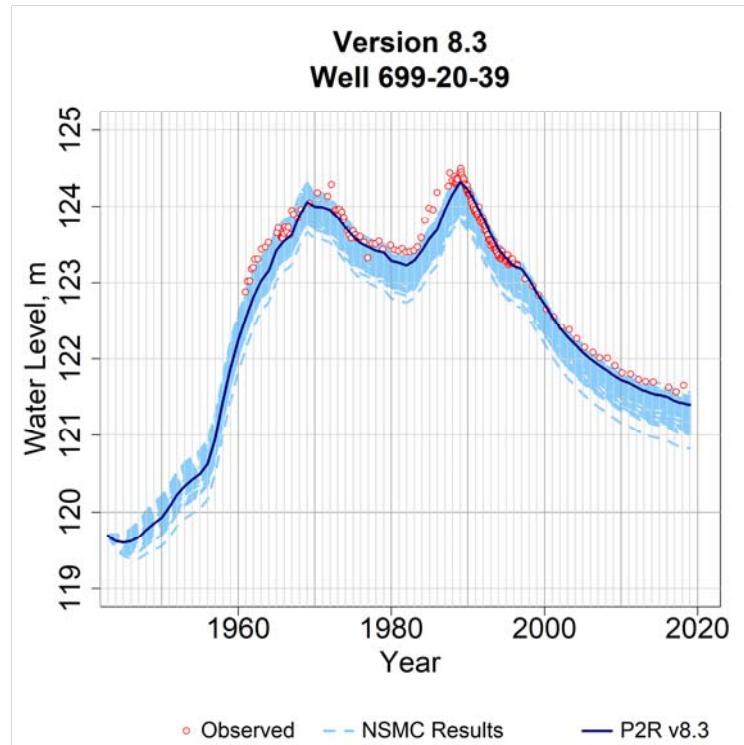


Figure B-507. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-20-39 for the calibrated model and all model variants from the NSMC.

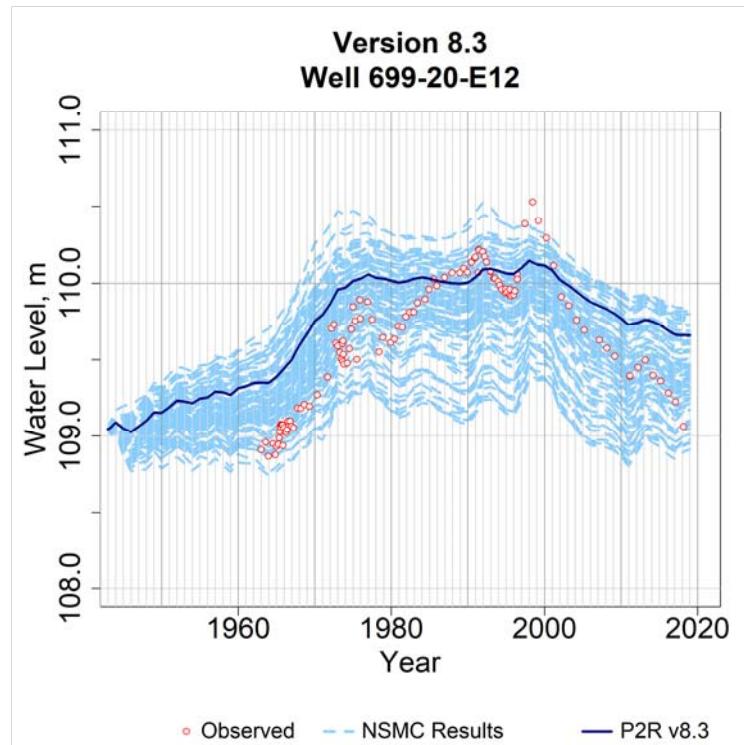


Figure B-508. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-20-E12 for the calibrated model and all model variants from the NSMC.

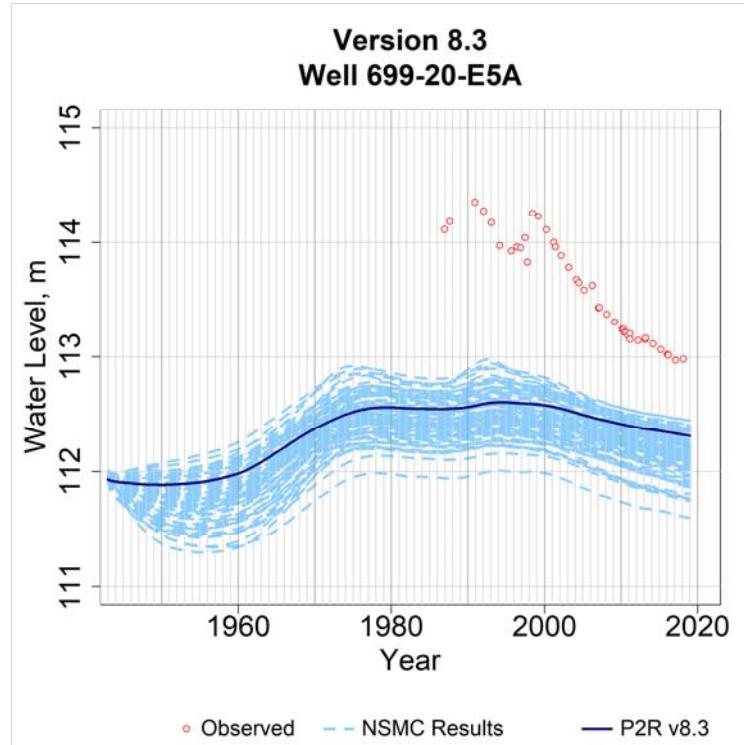


Figure B-509. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-20-E5A for the calibrated model and all model variants from the NSMC.

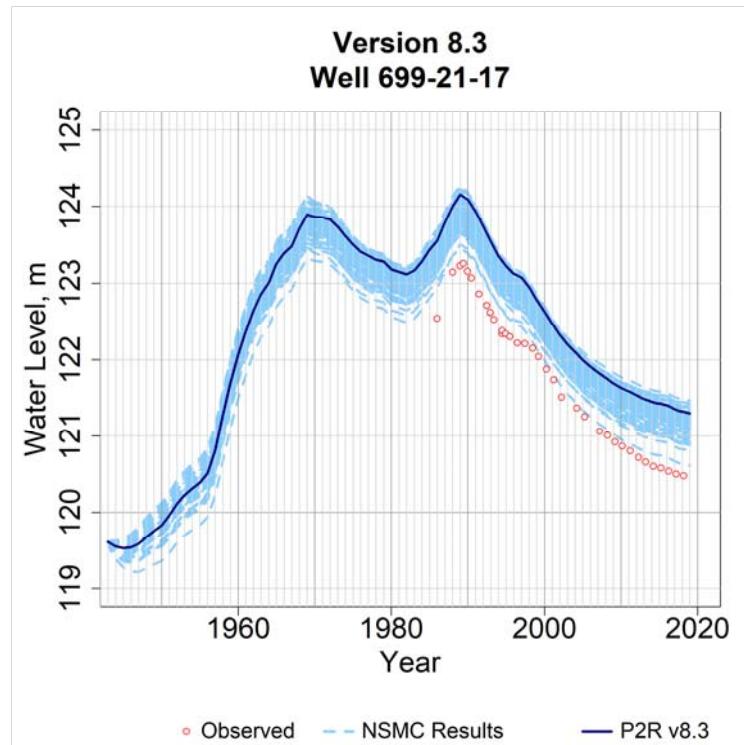


Figure B-510. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-21-17 for the calibrated model and all model variants from the NSMC.

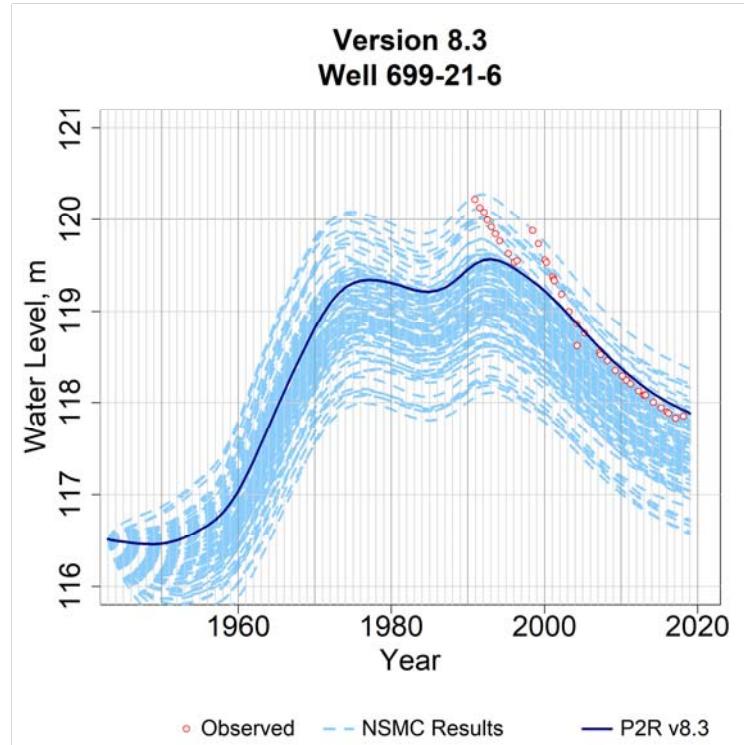


Figure B-511. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-21-6 for the calibrated model and all model variants from the NSMC.

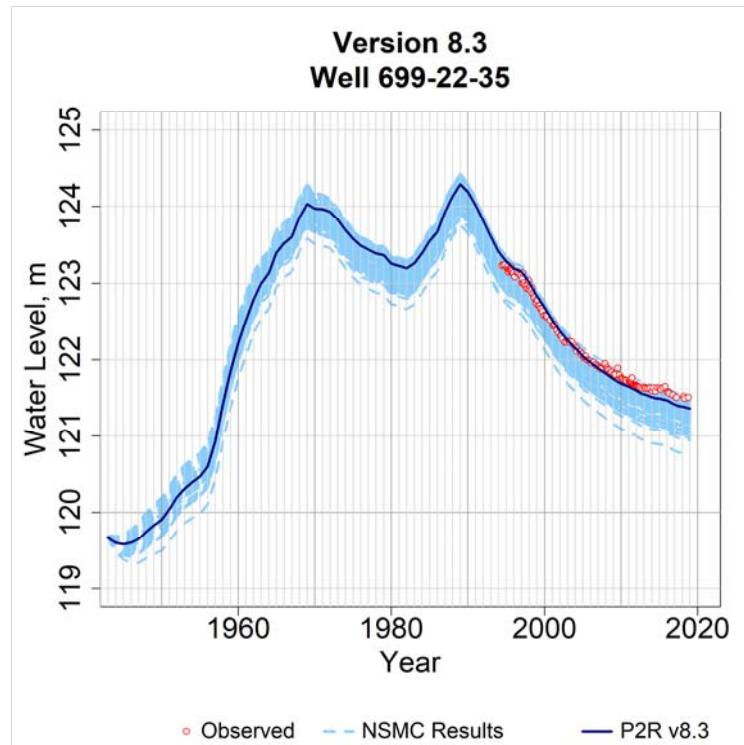


Figure B-512. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-22-35 for the calibrated model and all model variants from the NSMC.

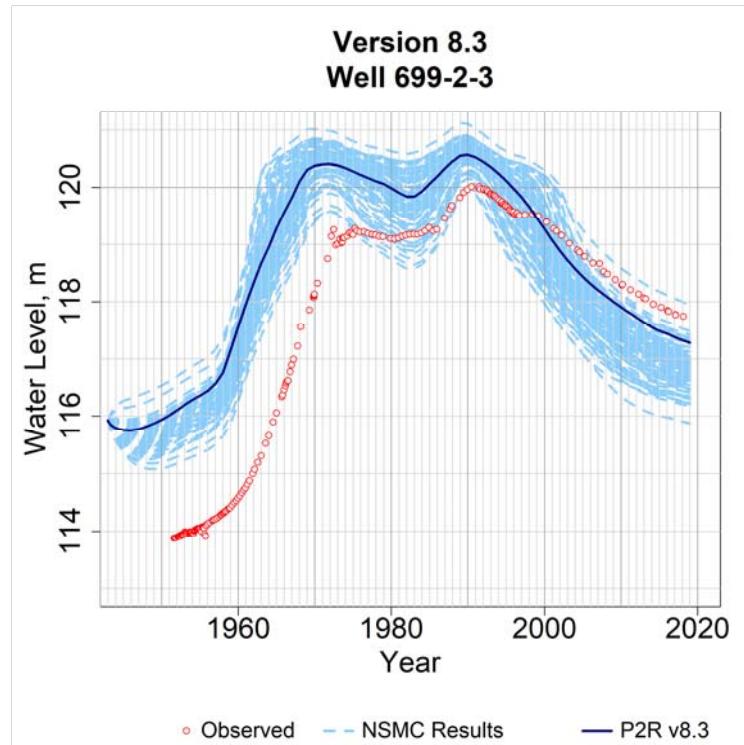


Figure B-513. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-2-3 for the calibrated model and all model variants from the NSMC.

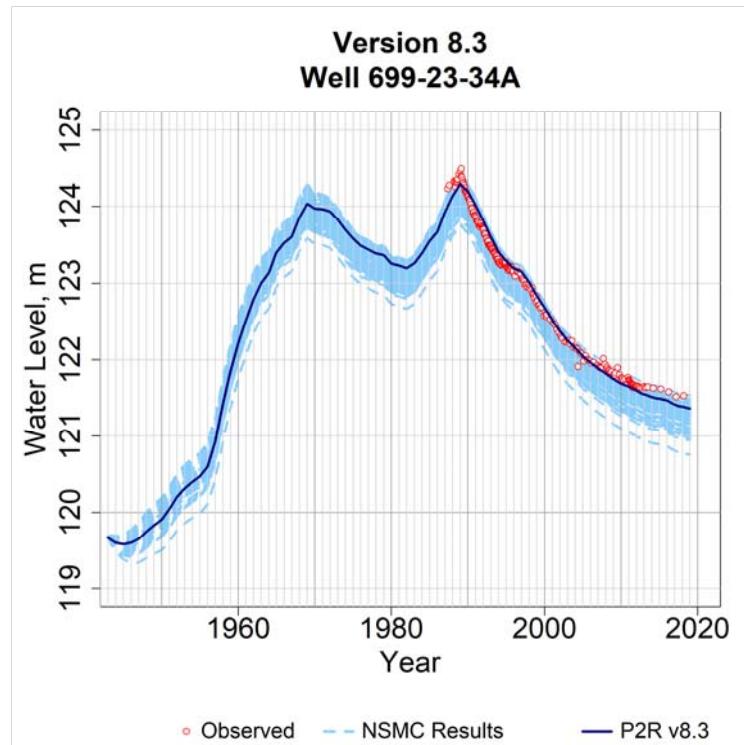


Figure B-514. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-23-34A for the calibrated model and all model variants from the NSMC.

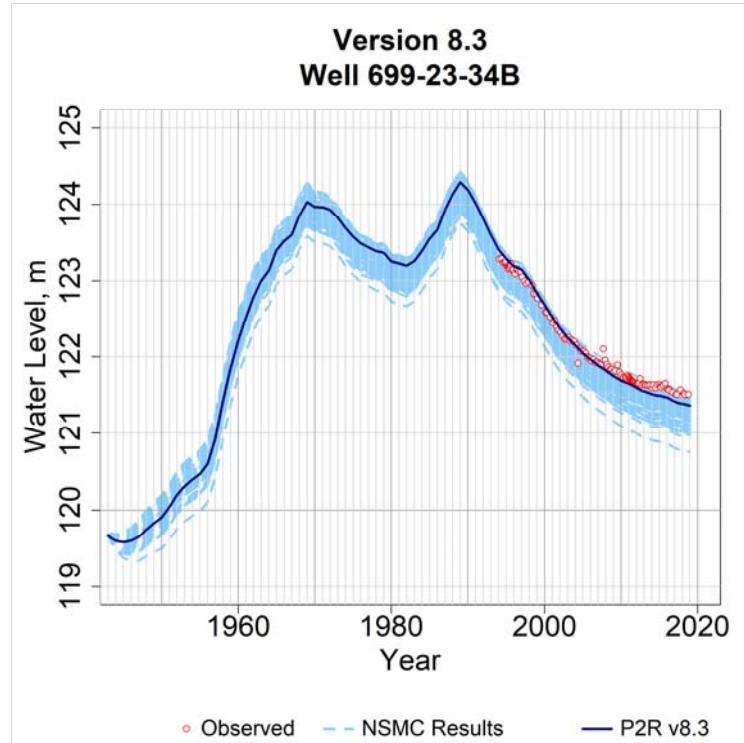


Figure B-515. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-23-34B for the calibrated model and all model variants from the NSMC.

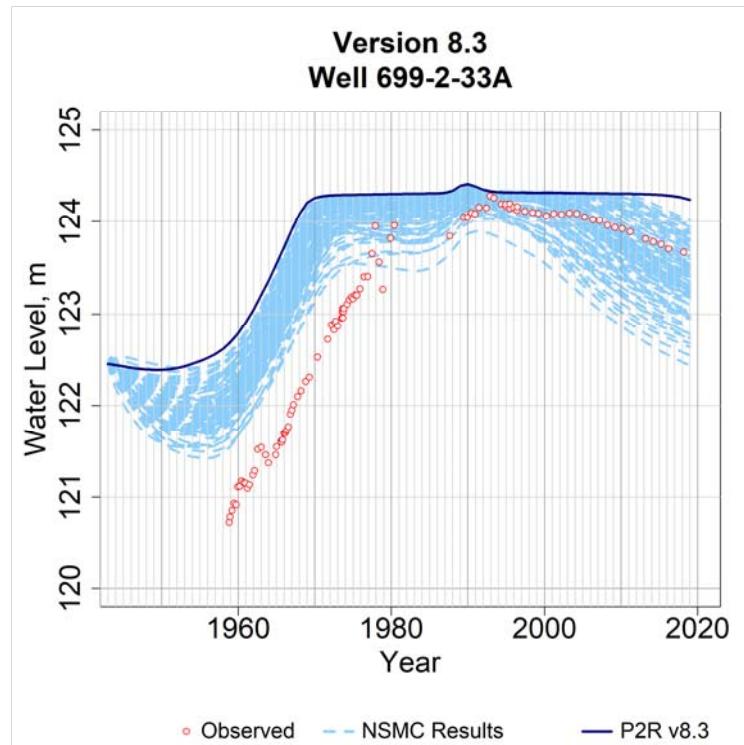


Figure B-516. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-2-33A for the calibrated model and all model variants from the NSMC.

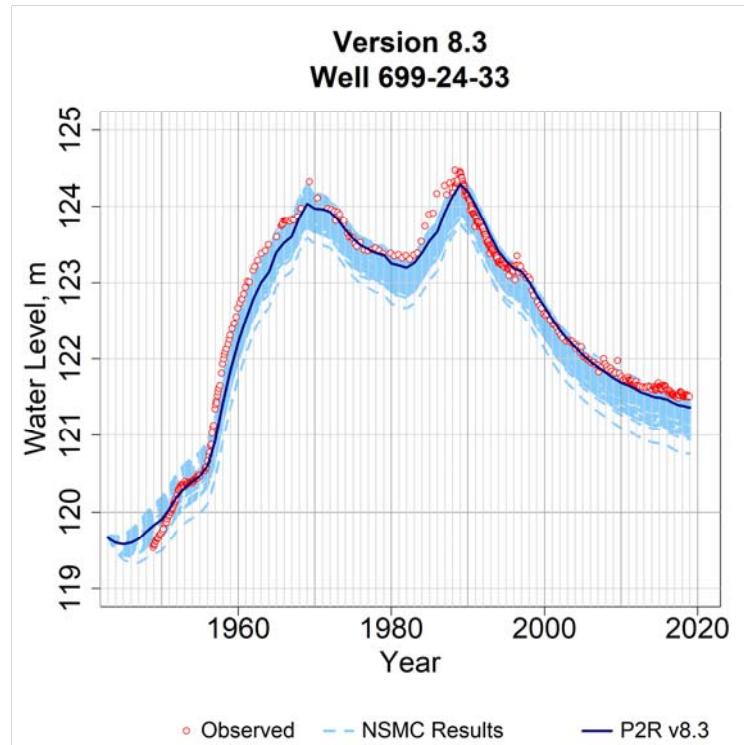


Figure B-517. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-33 for the calibrated model and all model variants from the NSMC.

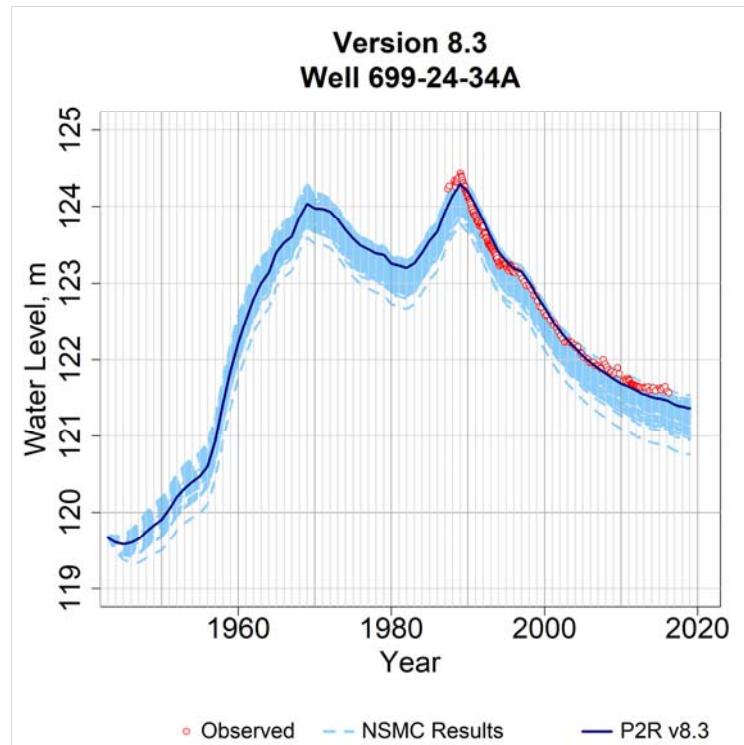


Figure B-518. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-34A for the calibrated model and all model variants from the NSMC.

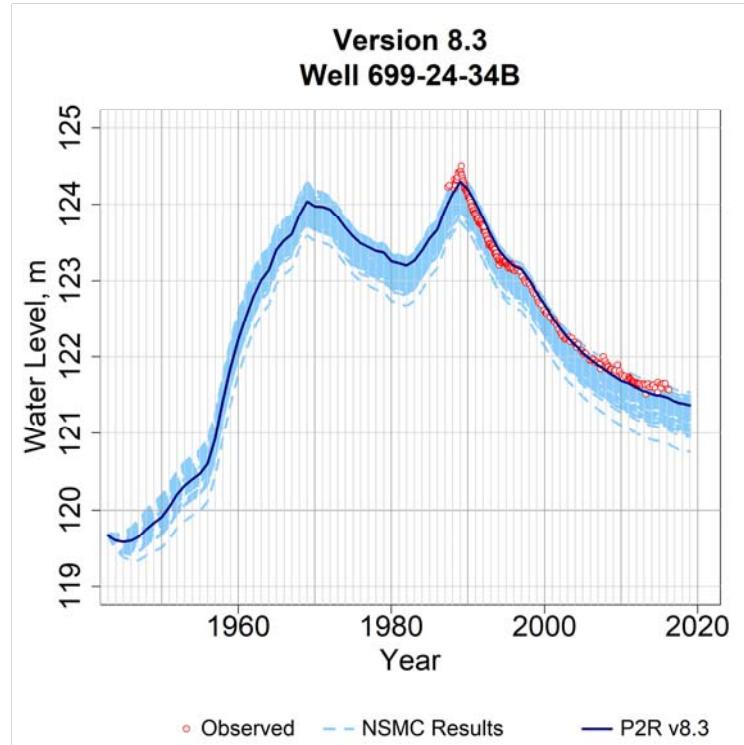


Figure B-519. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-34B for the calibrated model and all model variants from the NSMC.

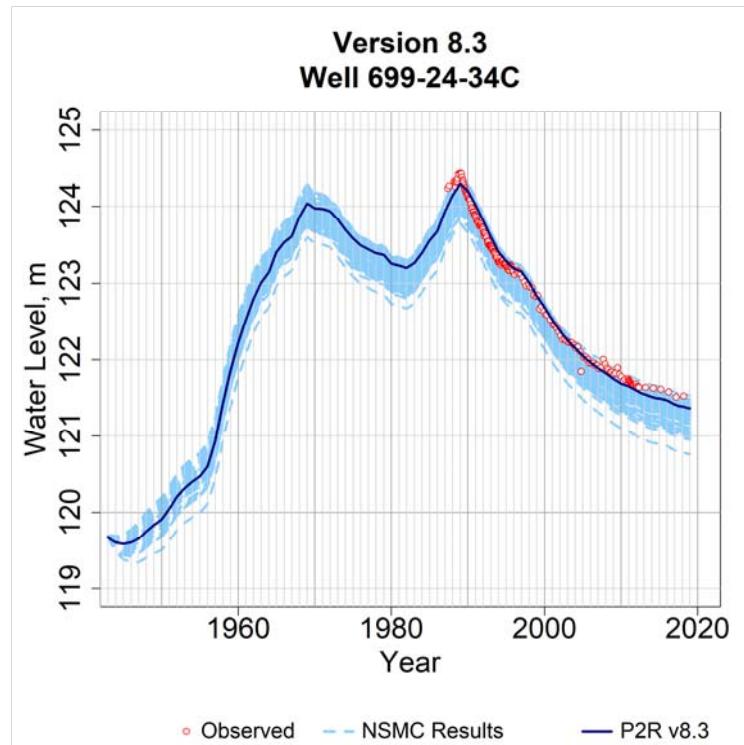


Figure B-520. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-34C for the calibrated model and all model variants from the NSMC.

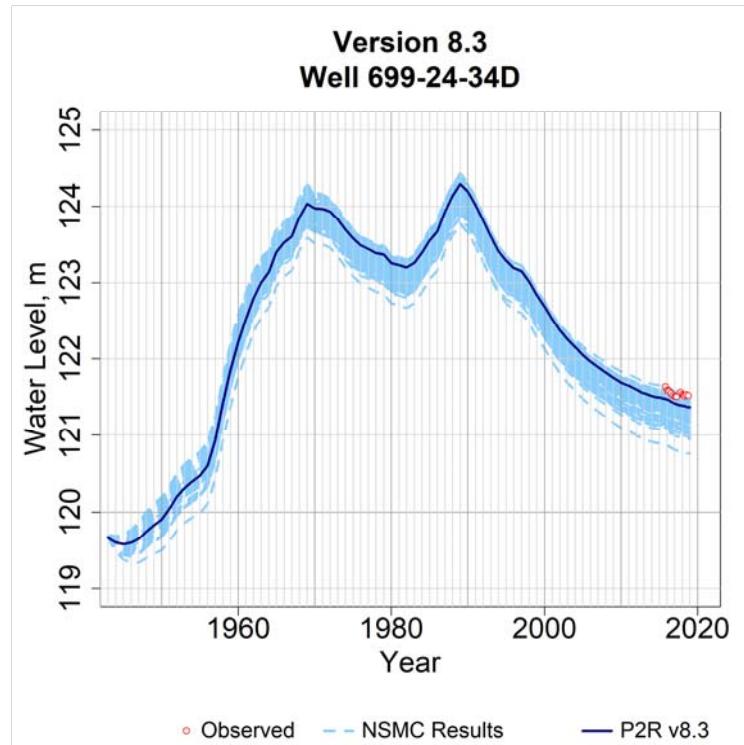


Figure B-521. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-34D for the calibrated model and all model variants from the NSMC.

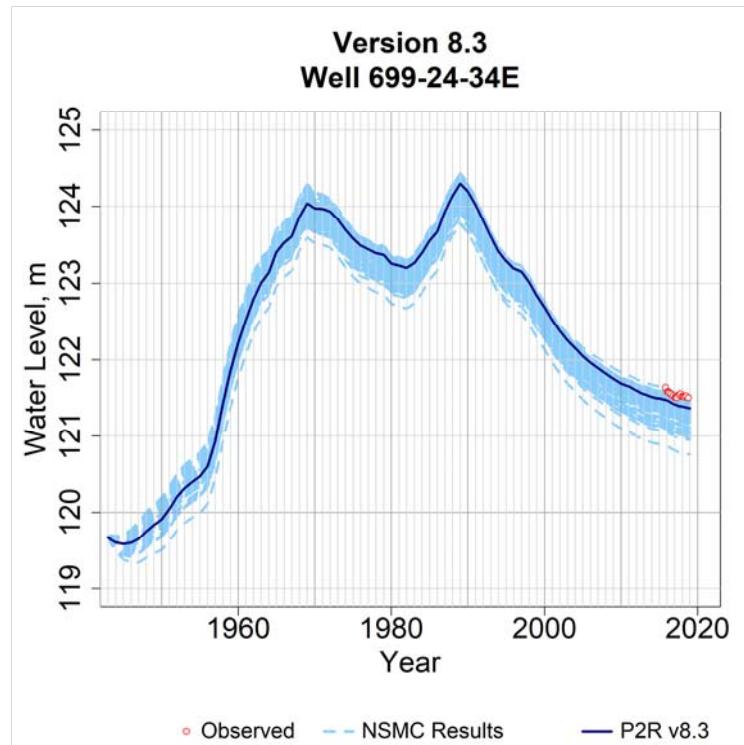


Figure B-522. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-34E for the calibrated model and all model variants from the NSMC.

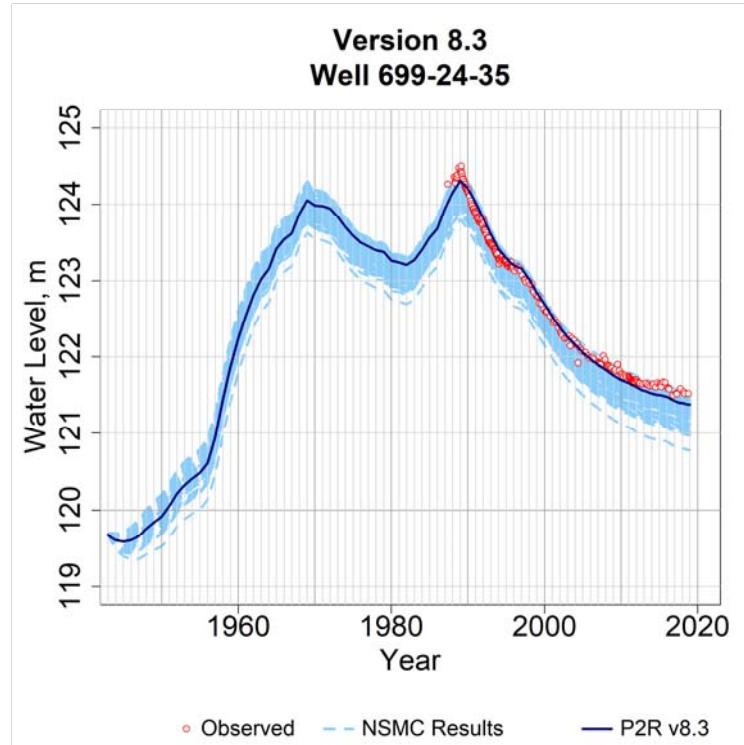


Figure B-523. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-35 for the calibrated model and all model variants from the NSMC.

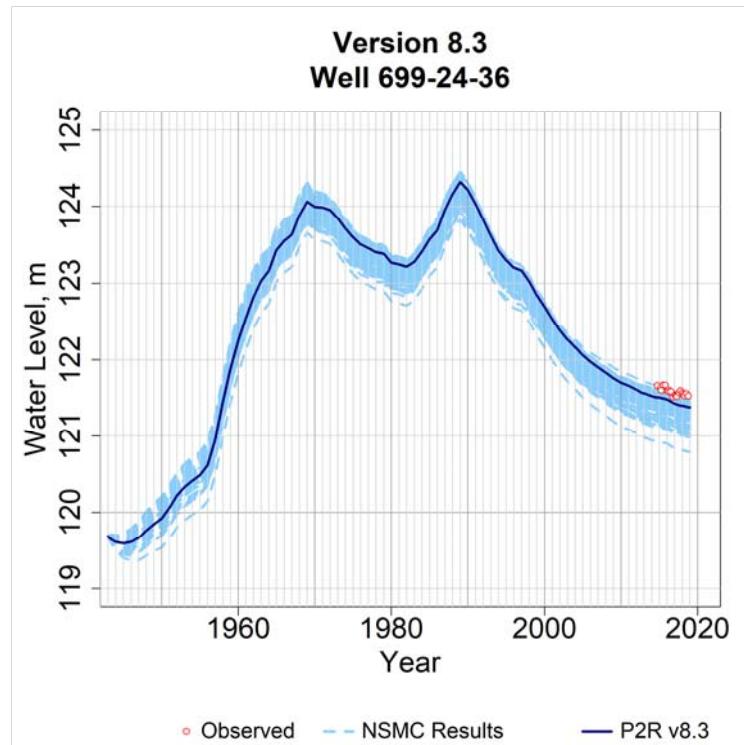


Figure B-524. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-36 for the calibrated model and all model variants from the NSMC.

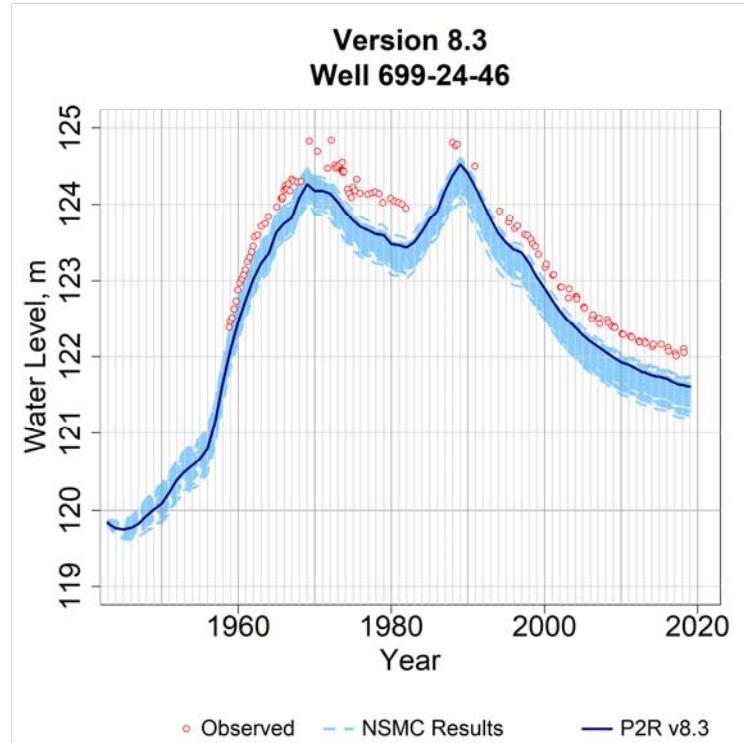


Figure B-525. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-24-46 for the calibrated model and all model variants from the NSMC.

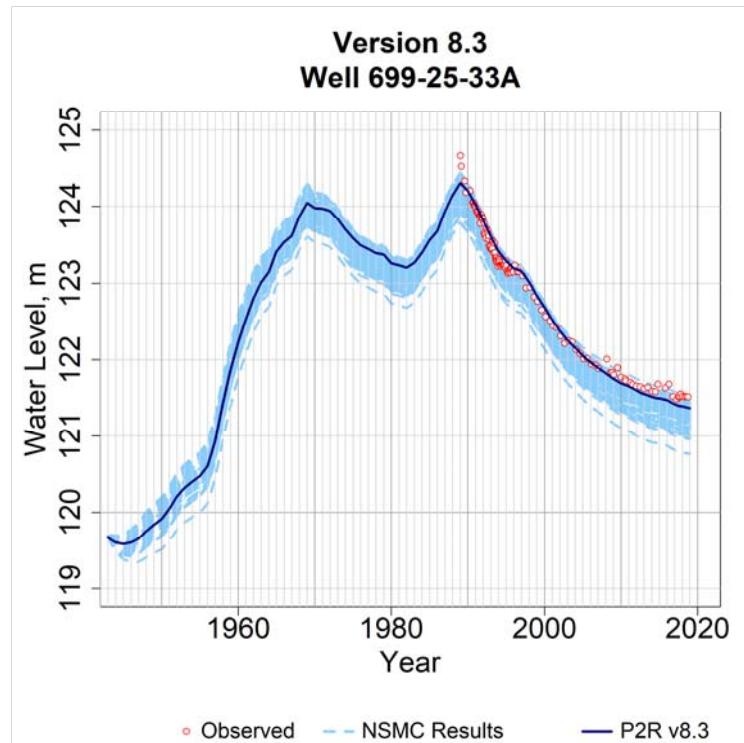


Figure B-526. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-33A for the calibrated model and all model variants from the NSMC.

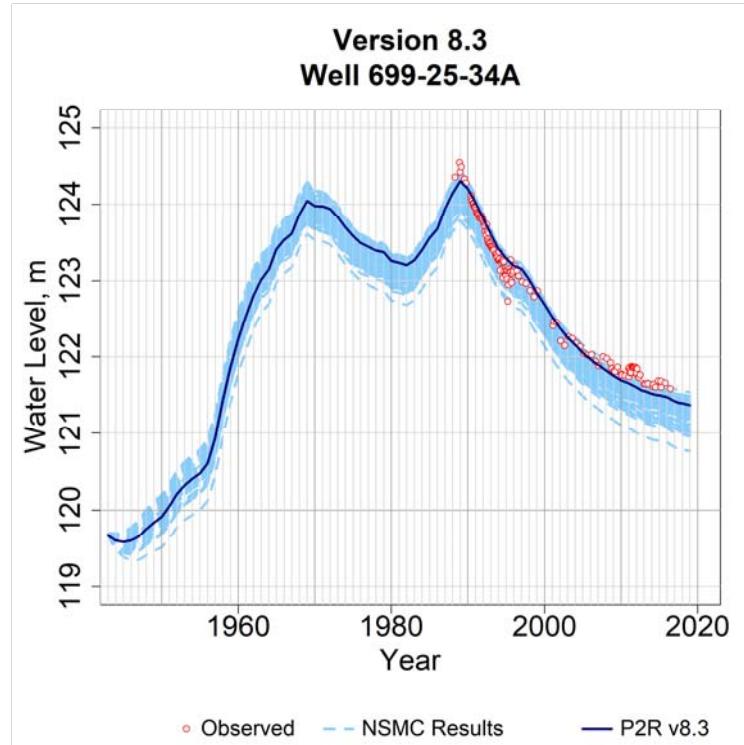


Figure B-527. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-34A for the calibrated model and all model variants from the NSMC.

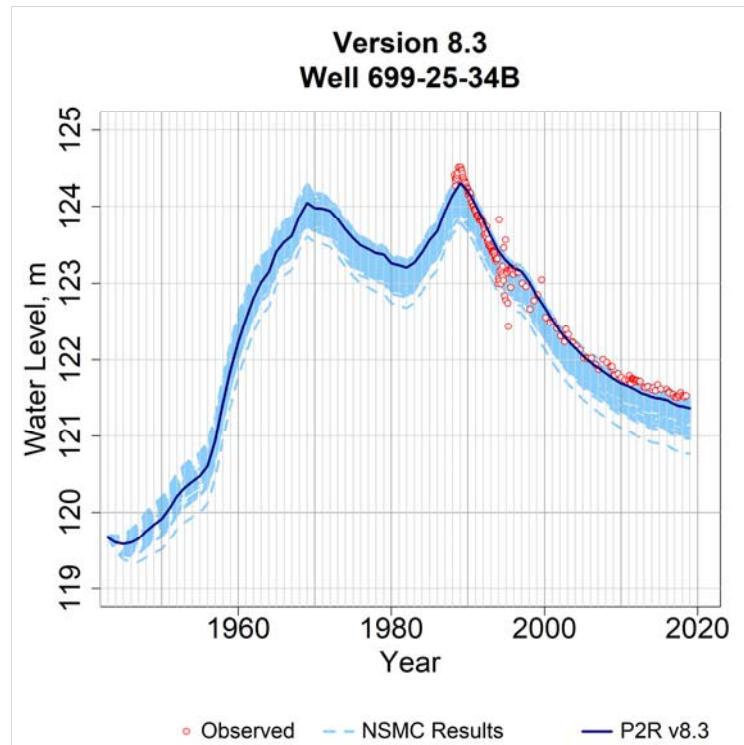


Figure B-528. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-34B for the calibrated model and all model variants from the NSMC.

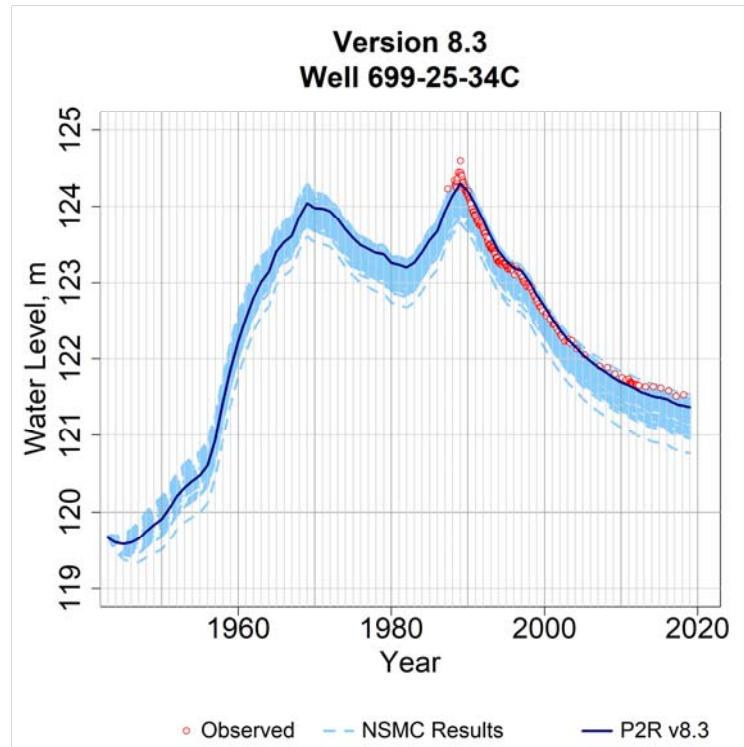


Figure B-529. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-34C for the calibrated model and all model variants from the NSMC.

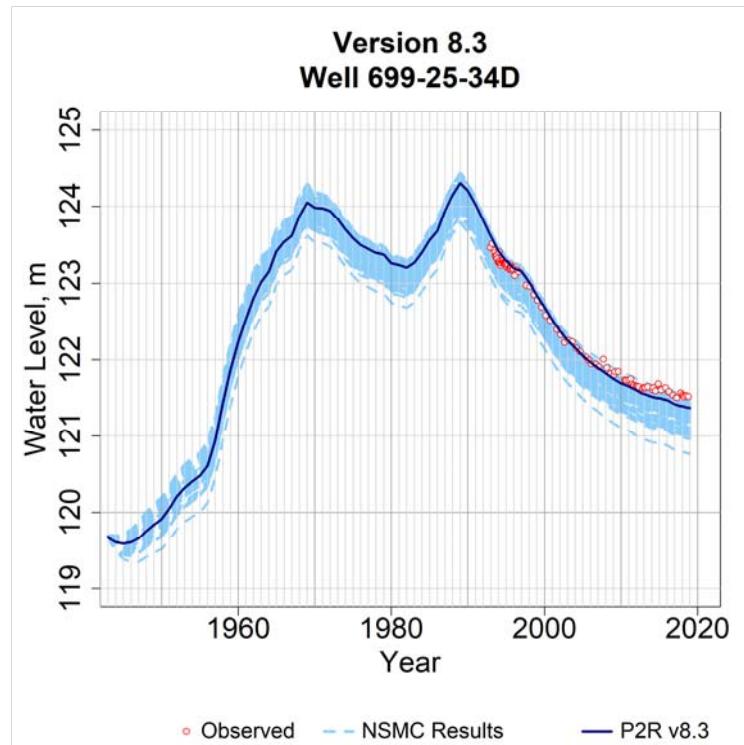


Figure B-530. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-34D for the calibrated model and all model variants from the NSMC.

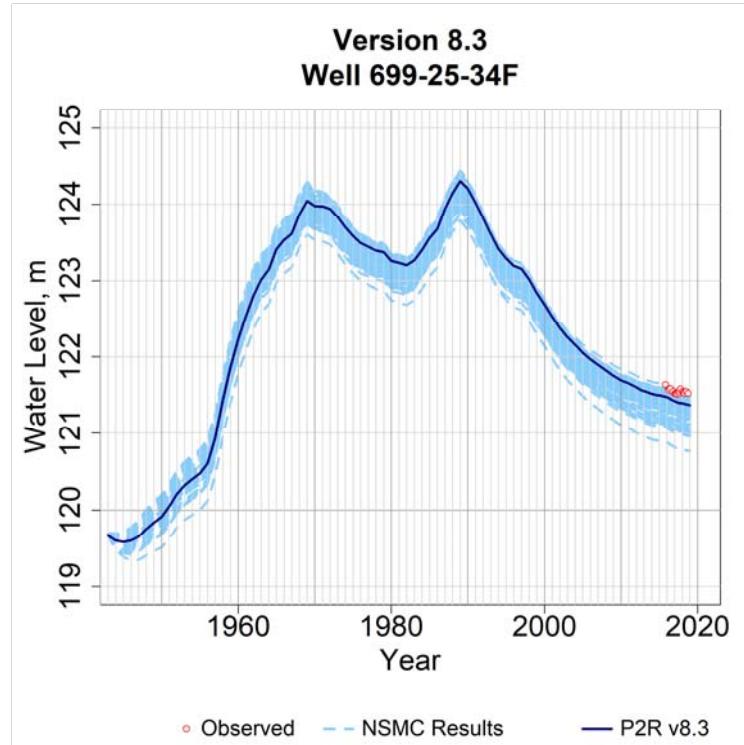


Figure B-531. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-34F for the calibrated model and all model variants from the NSMC.

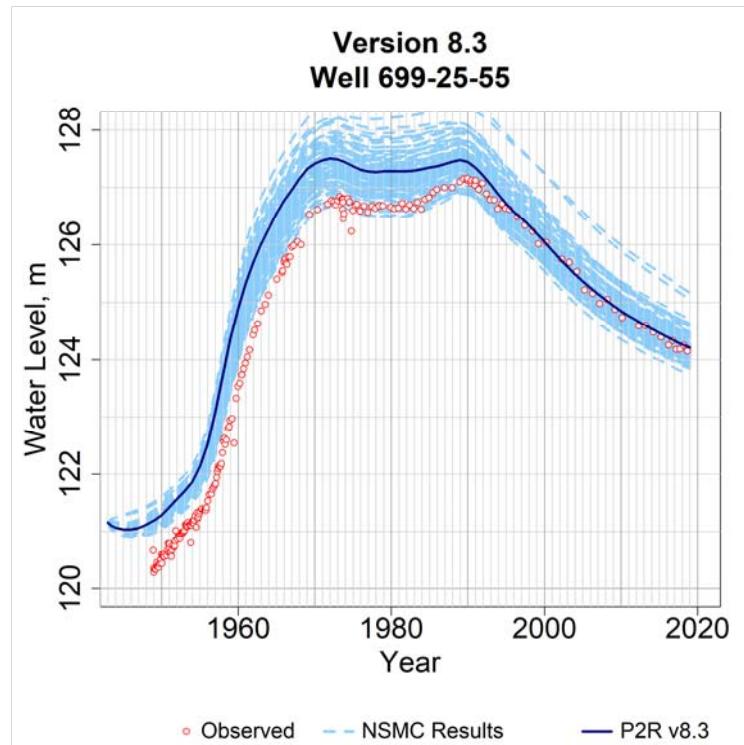


Figure B-532. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-55 for the calibrated model and all model variants from the NSMC.

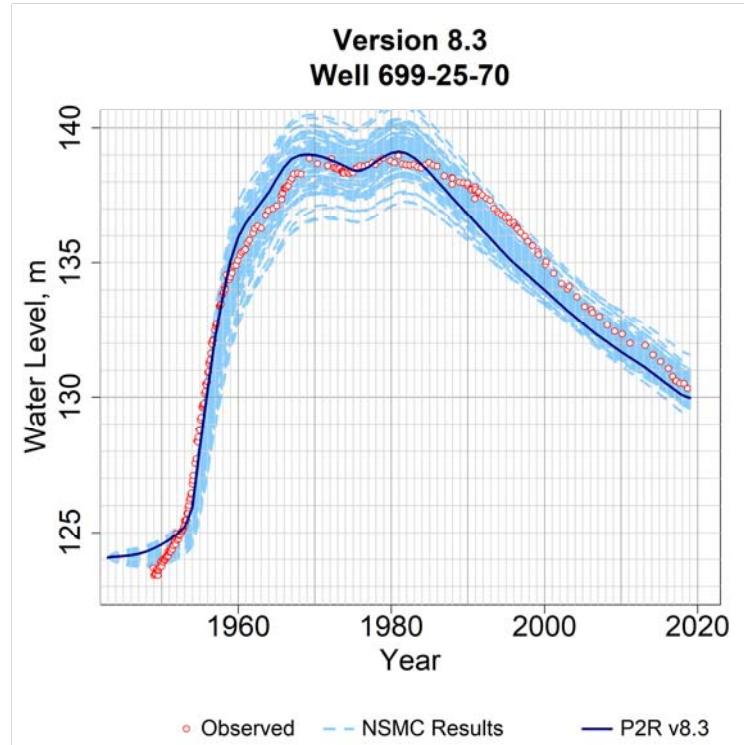


Figure B-533. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-25-70 for the calibrated model and all model variants from the NSMC.

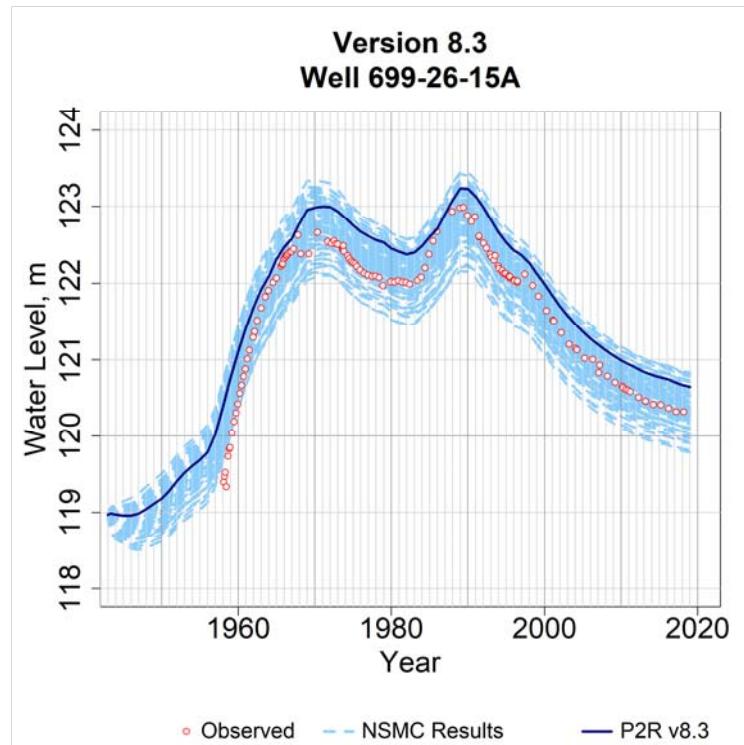


Figure B-534. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-15A for the calibrated model and all model variants from the NSMC.

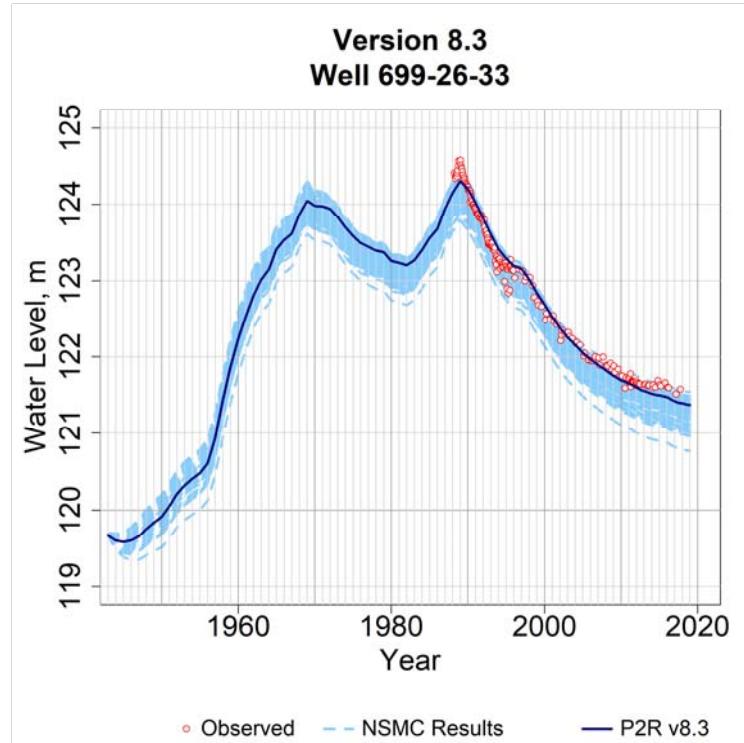


Figure B-535. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-33 for the calibrated model and all model variants from the NSMC.

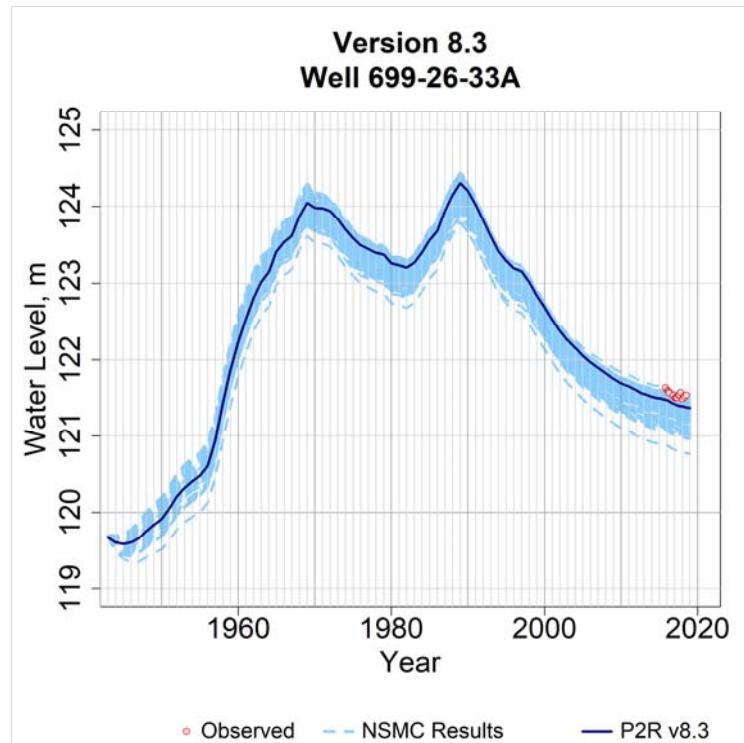


Figure B-536. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-33A for the calibrated model and all model variants from the NSMC.

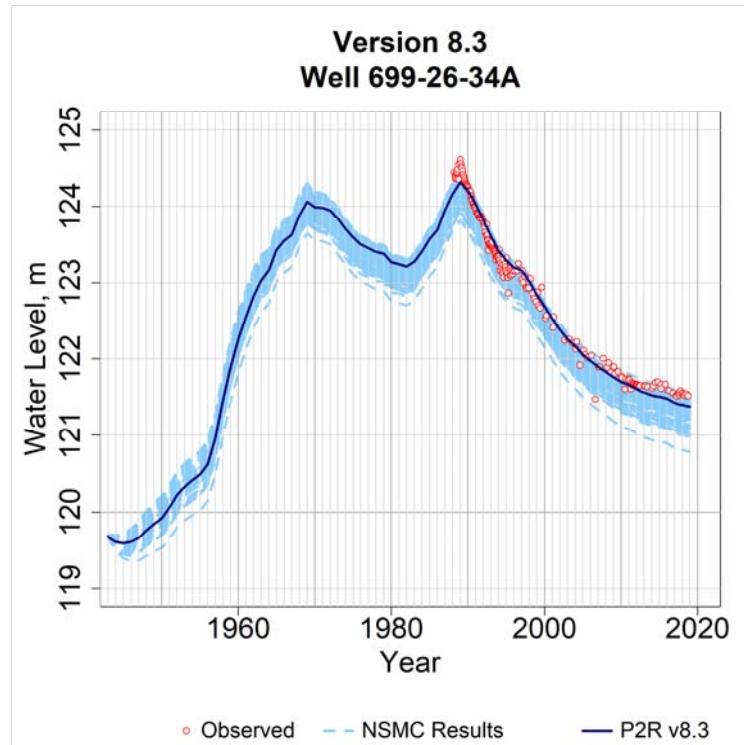


Figure B-537. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-34A for the calibrated model and all model variants from the NSMC.

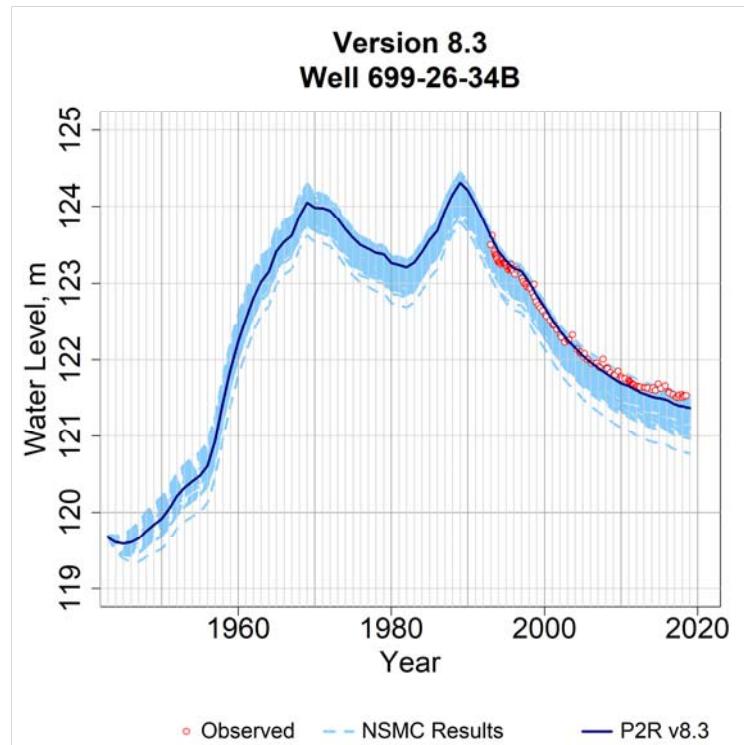


Figure B-538. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-34B for the calibrated model and all model variants from the NSMC.

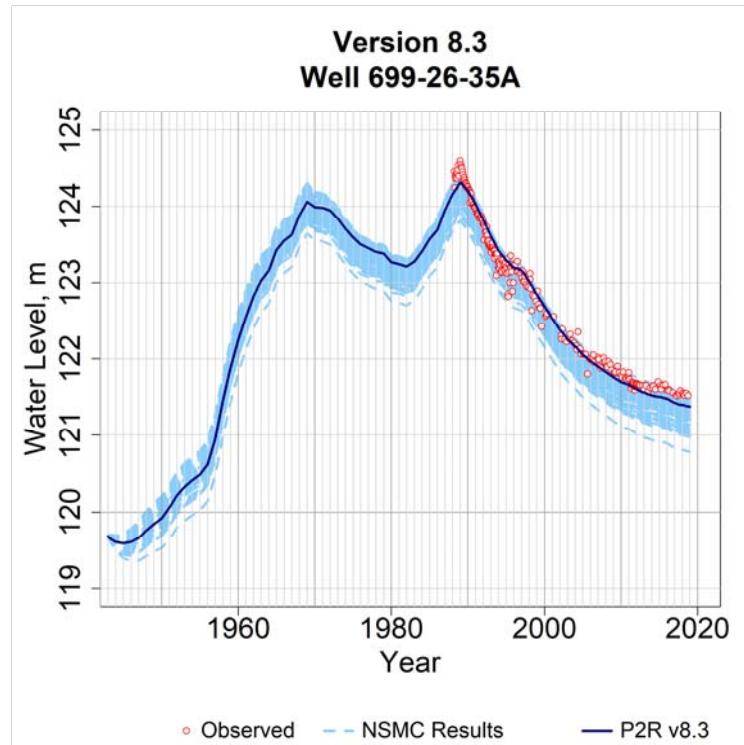


Figure B-539. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-35A for the calibrated model and all model variants from the NSMC.

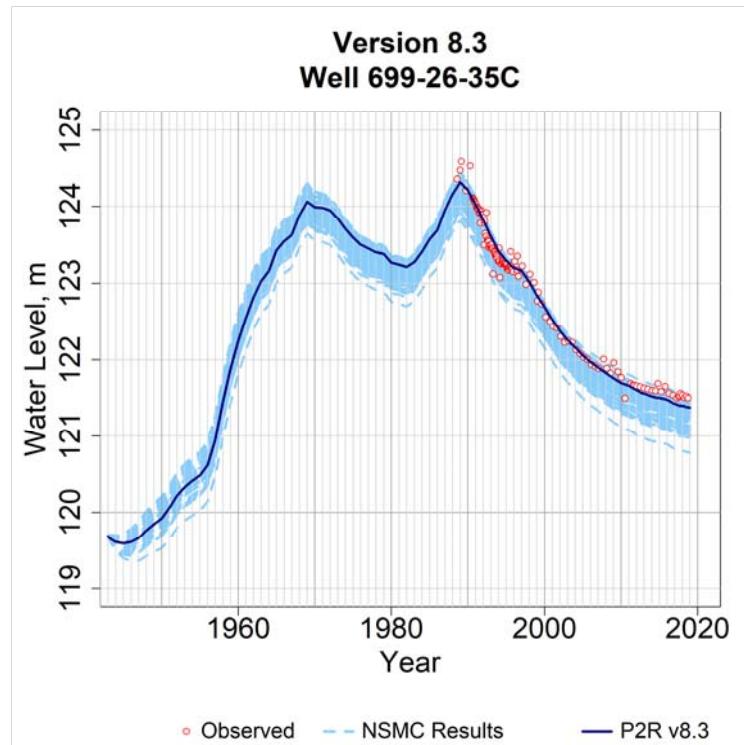


Figure B-540. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-35C for the calibrated model and all model variants from the NSMC.

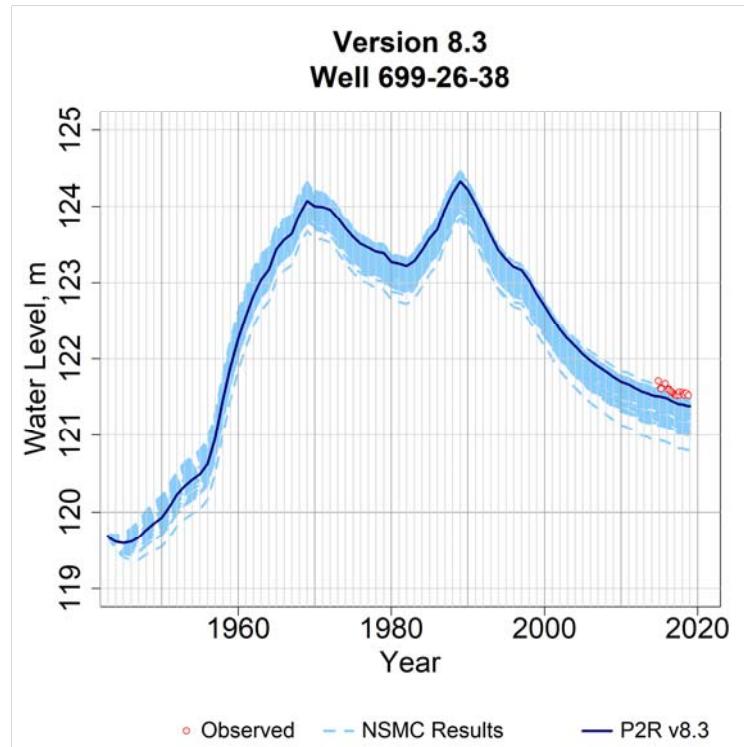


Figure B-541. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-38 for the calibrated model and all model variants from the NSMC.

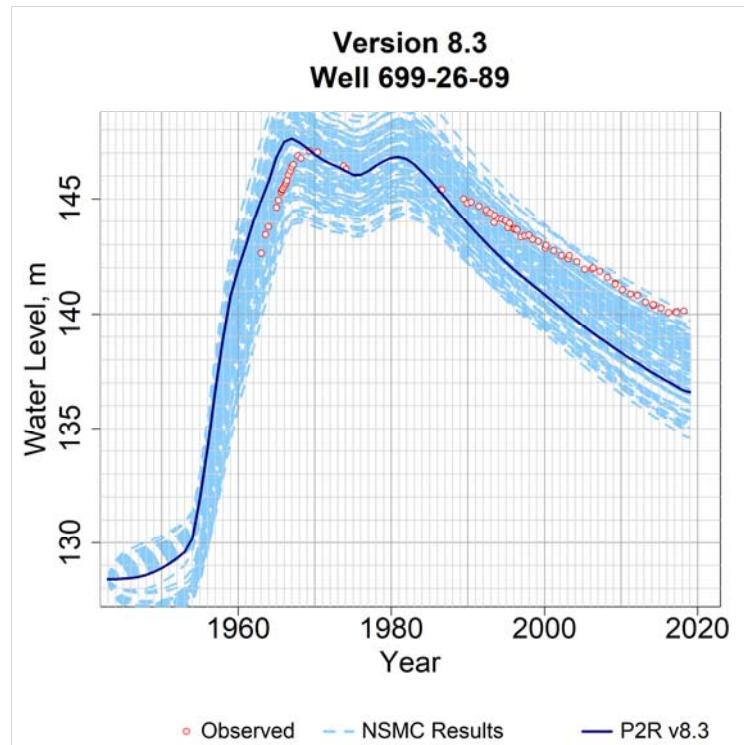


Figure B-542. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-26-89 for the calibrated model and all model variants from the NSMC.

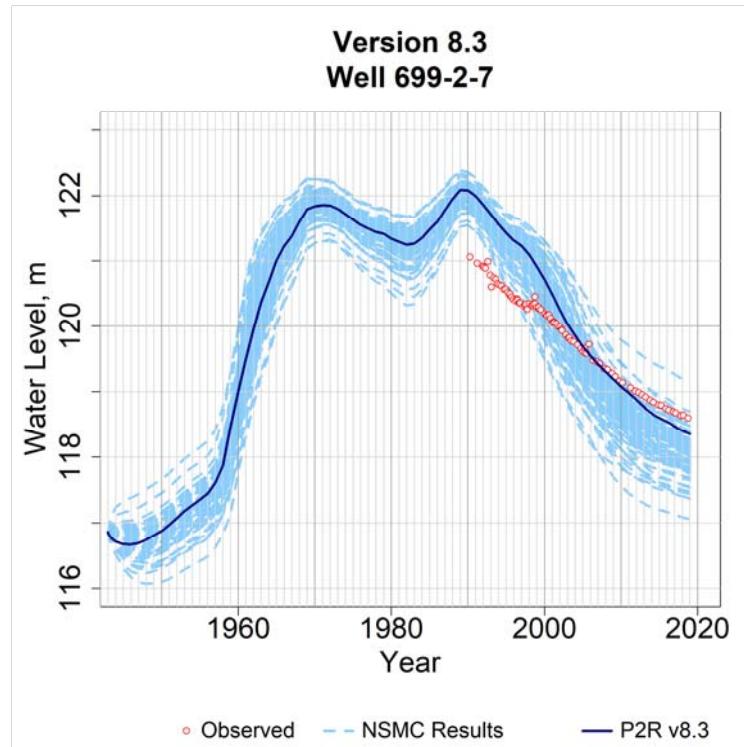


Figure B-543. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-2-7 for the calibrated model and all model variants from the NSMC.

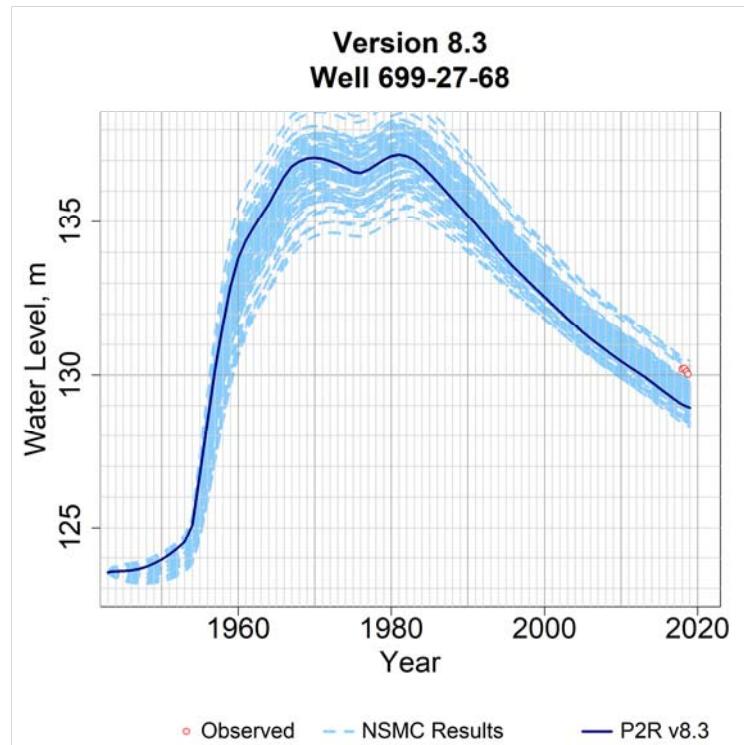


Figure B-544. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-27-68 for the calibrated model and all model variants from the NSMC.

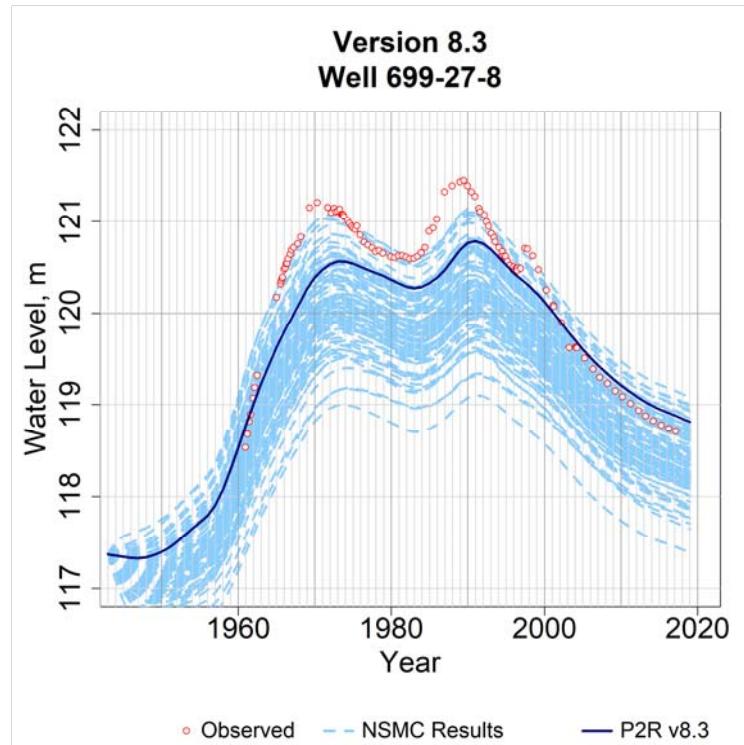


Figure B-545. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-27-8 for the calibrated model and all model variants from the NSMC.

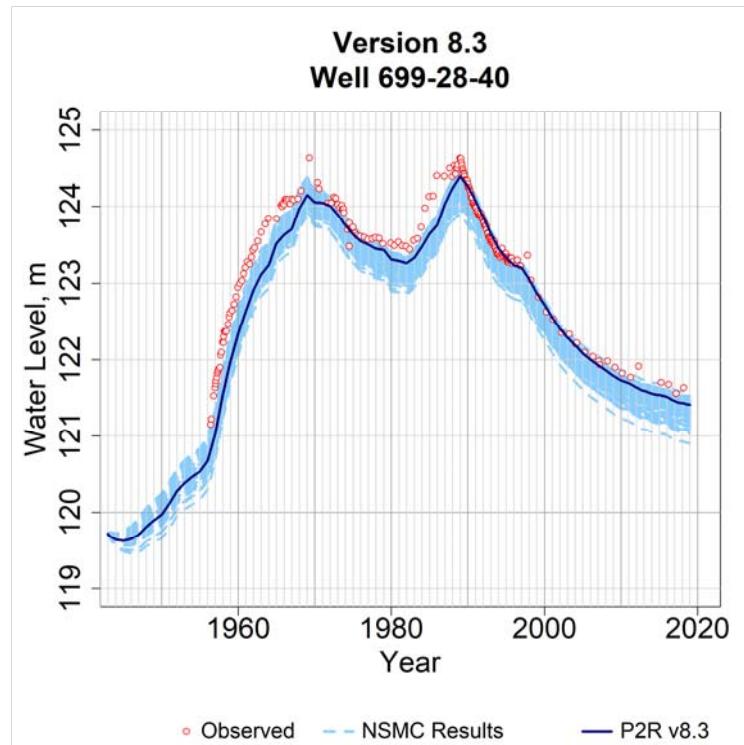


Figure B-546. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-28-40 for the calibrated model and all model variants from the NSMC.

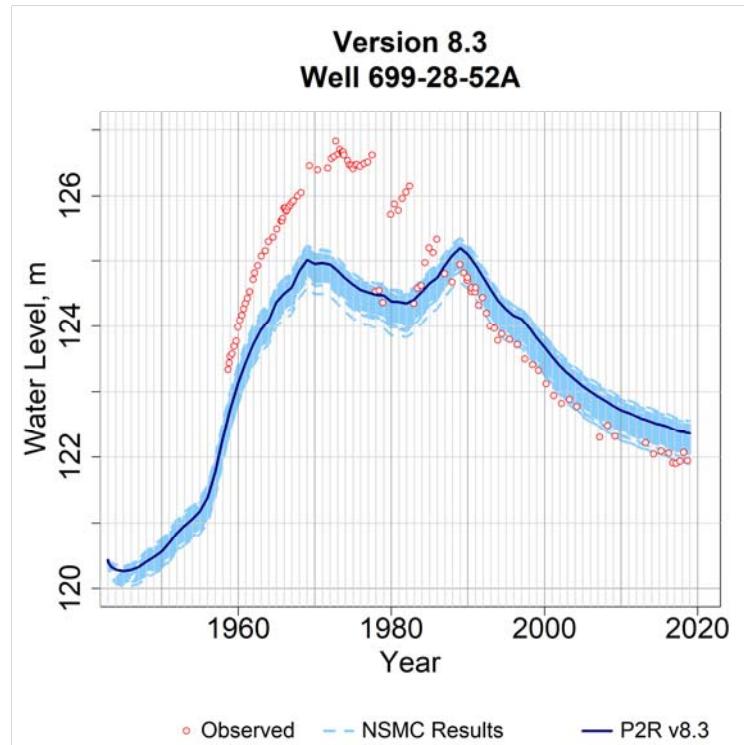


Figure B-547. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-28-52A for the calibrated model and all model variants from the NSMC.

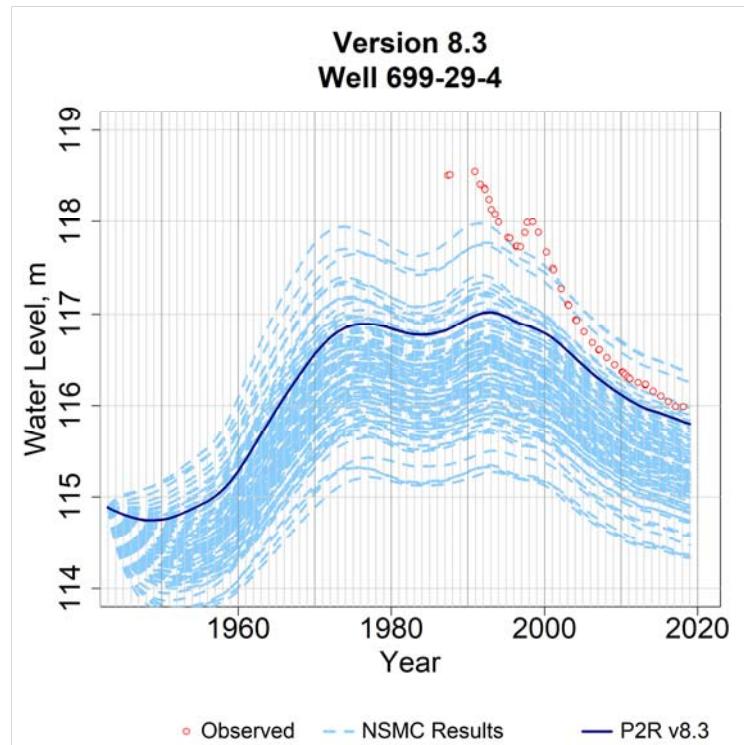


Figure B-548. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-29-4 for the calibrated model and all model variants from the NSMC.

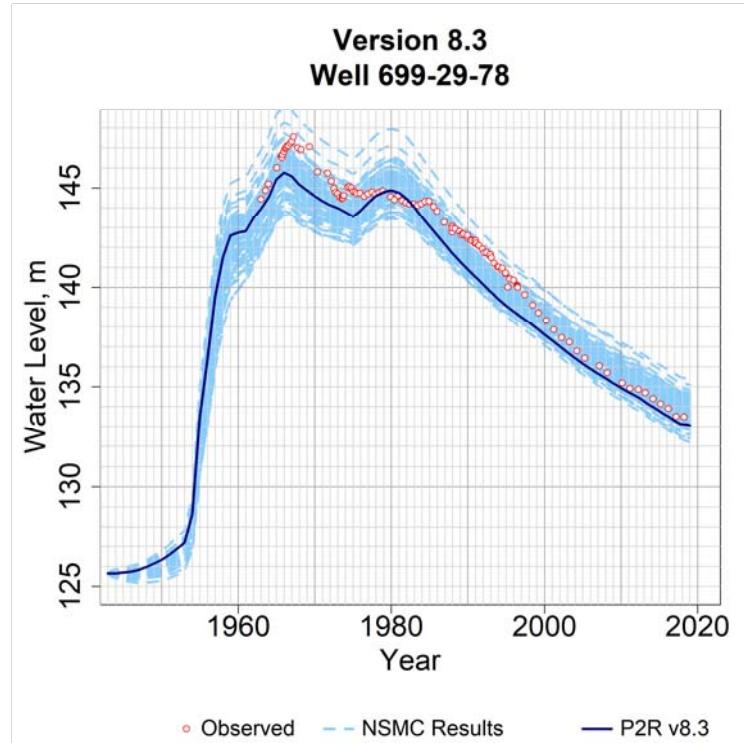


Figure B-549. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-29-78 for the calibrated model and all model variants from the NSMC.

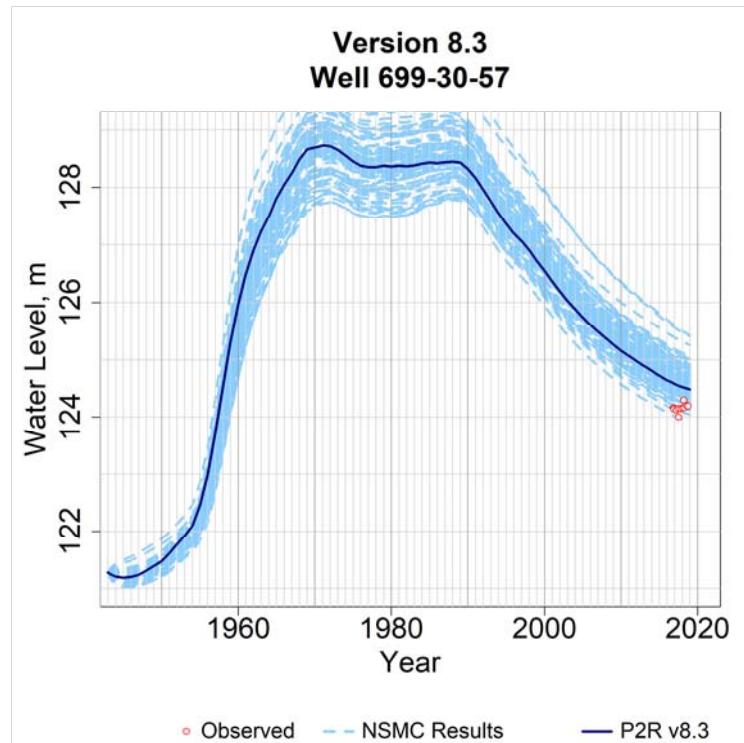


Figure B-550. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-30-57 for the calibrated model and all model variants from the NSMC.

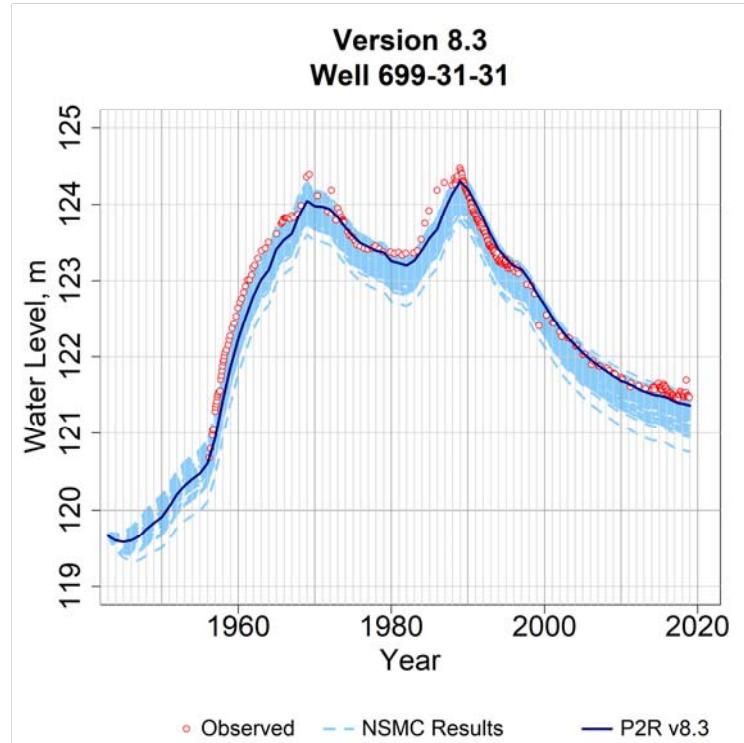


Figure B-551. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-31-31 for the calibrated model and all model variants from the NSMC.

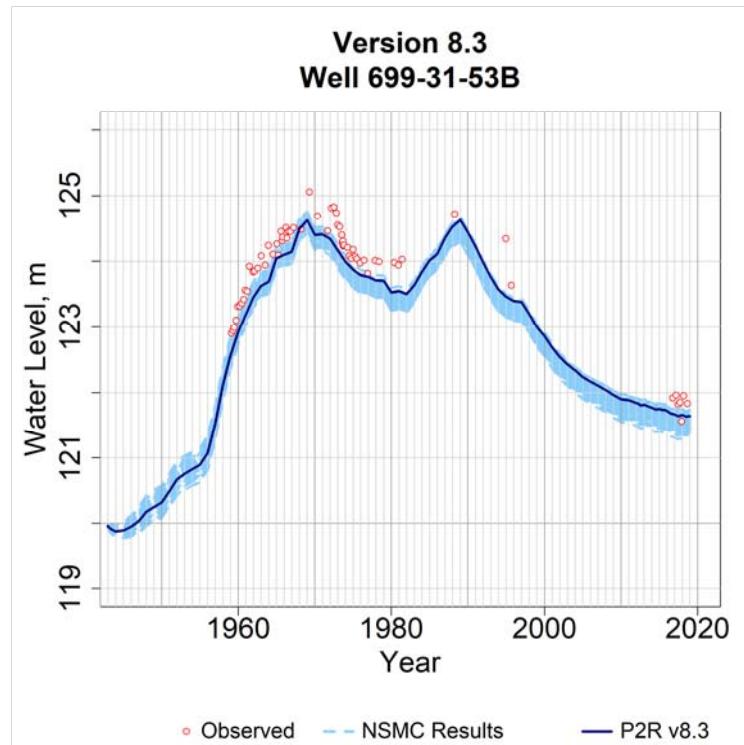


Figure B-552. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-31-53B for the calibrated model and all model variants from the NSMC.

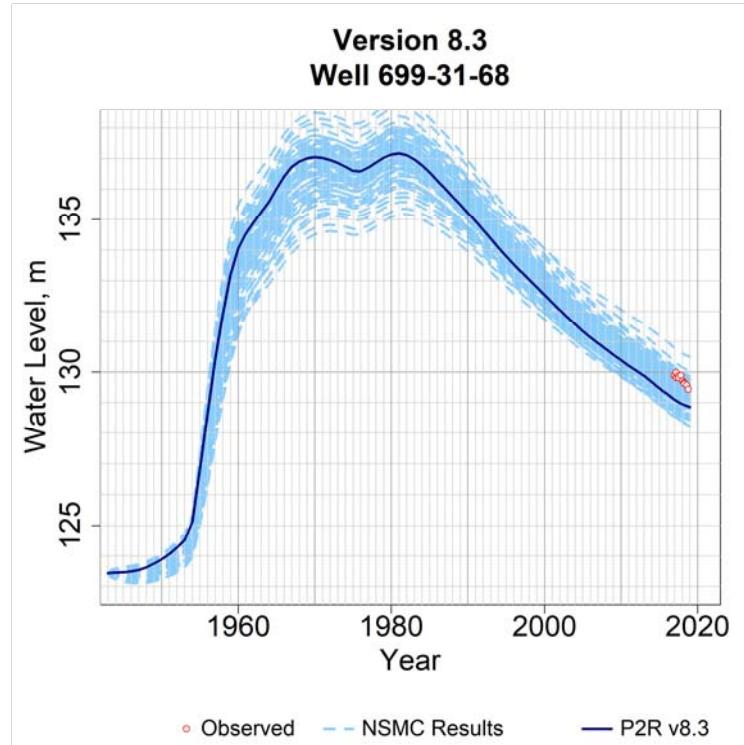


Figure B-553. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-31-68 for the calibrated model and all model variants from the NSMC.

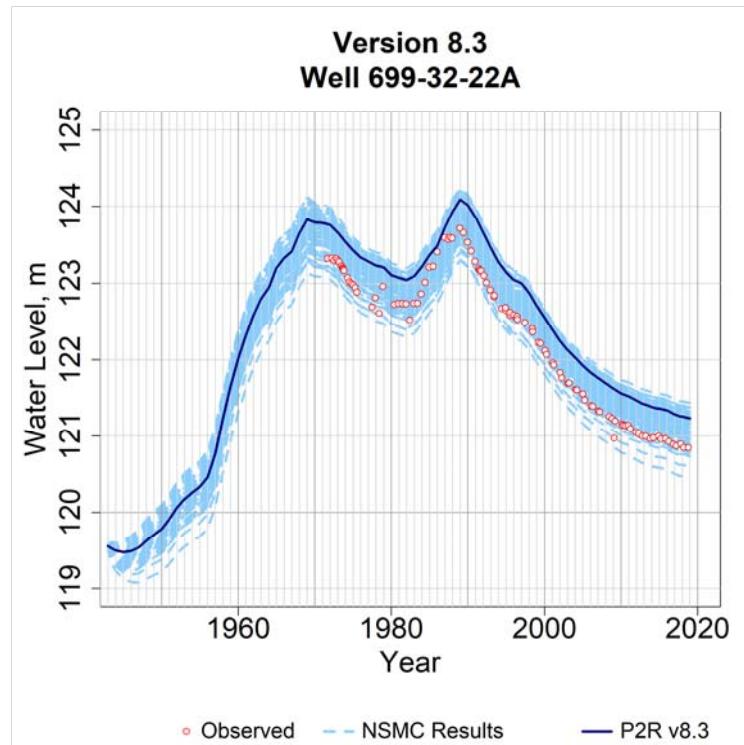


Figure B-554. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-22A for the calibrated model and all model variants from the NSMC.

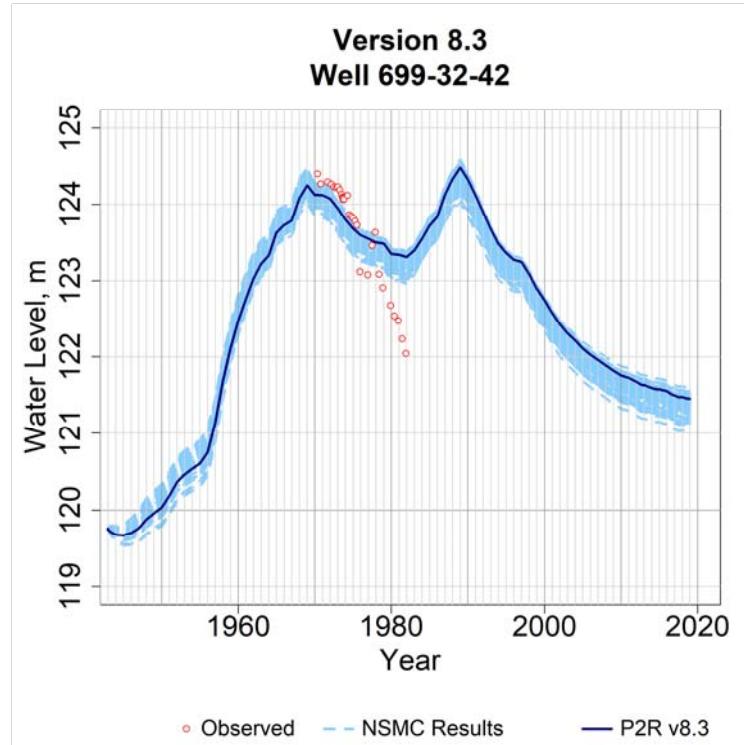


Figure B-555. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-42 for the calibrated model and all model variants from the NSMC.

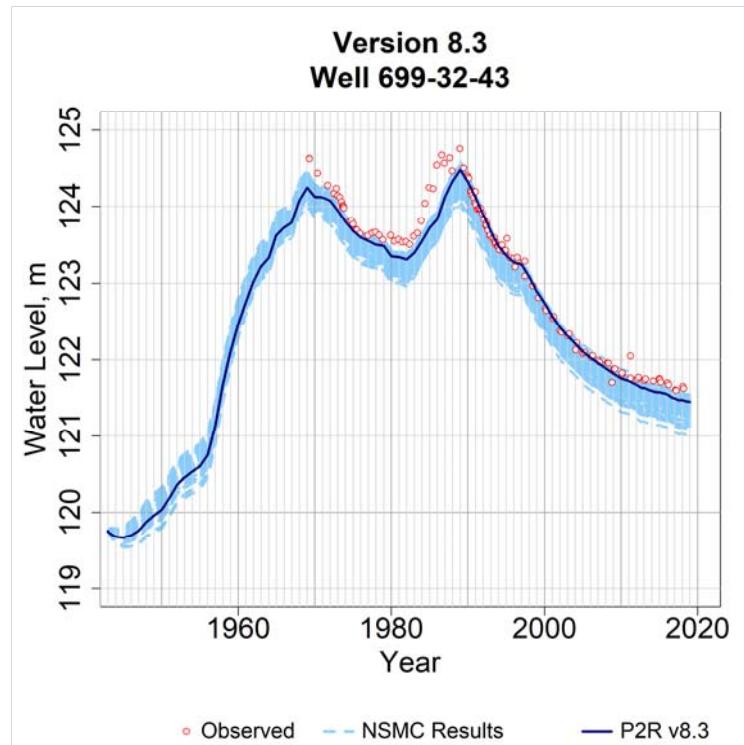


Figure B-556. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-43 for the calibrated model and all model variants from the NSMC.

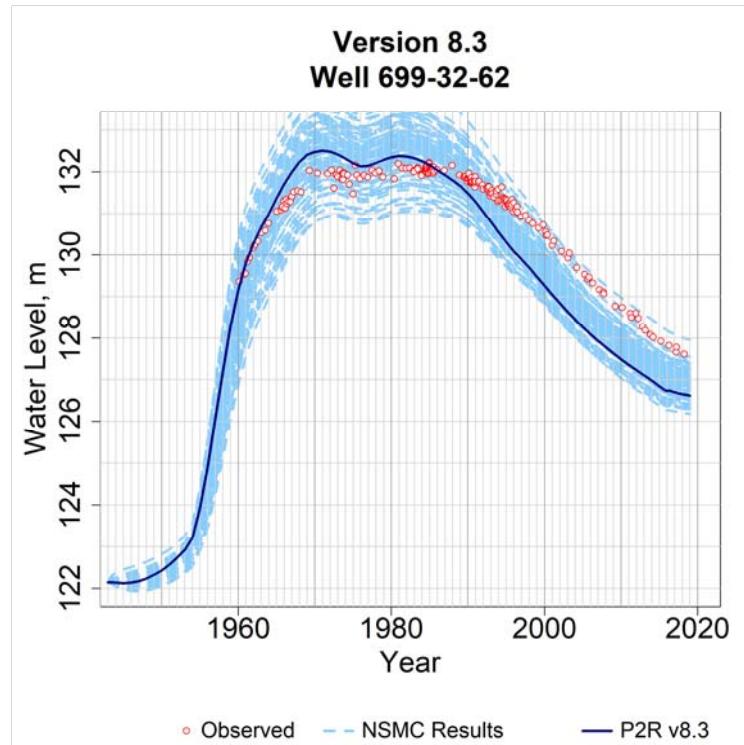


Figure B-557. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-62 for the calibrated model and all model variants from the NSMC.

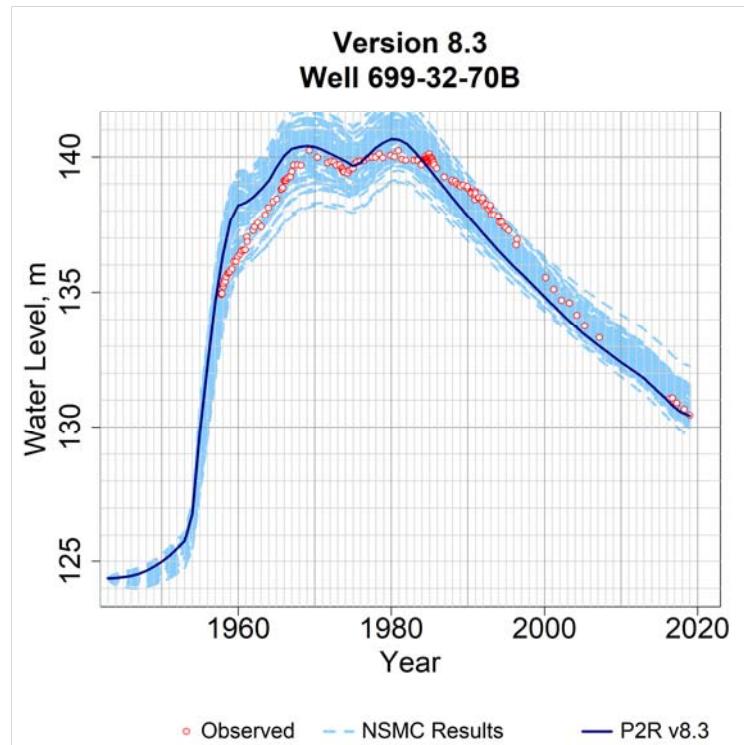


Figure B-558. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-70B for the calibrated model and all model variants from the NSMC.

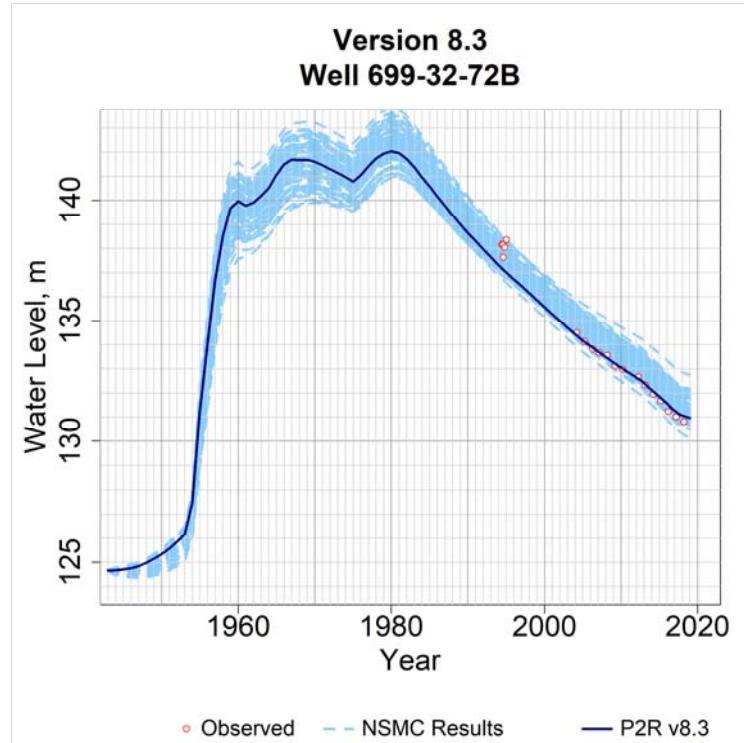


Figure B-559. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-72B for the calibrated model and all model variants from the NSMC.

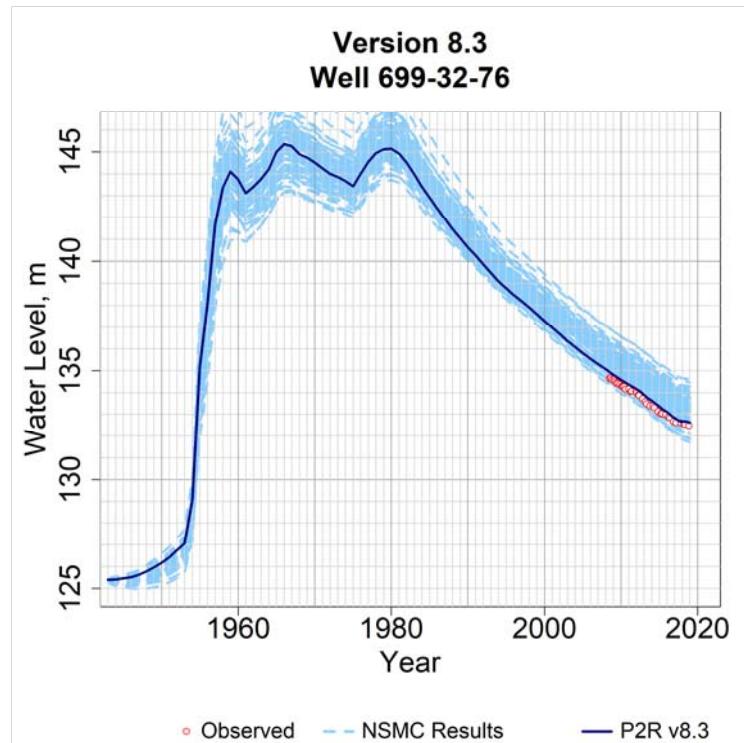


Figure B-560. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-76 for the calibrated model and all model variants from the NSMC.

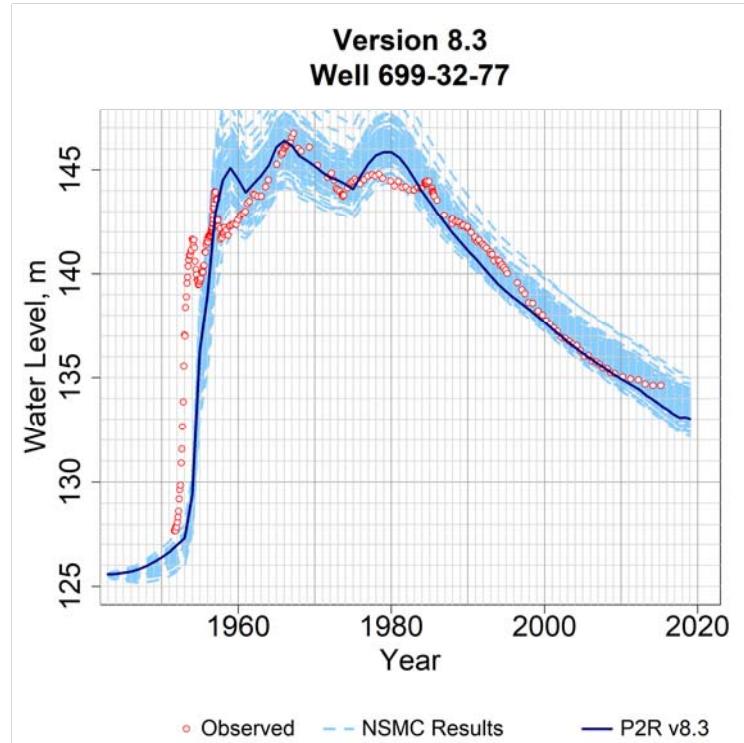


Figure B-561. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-32-77 for the calibrated model and all model variants from the NSMC.

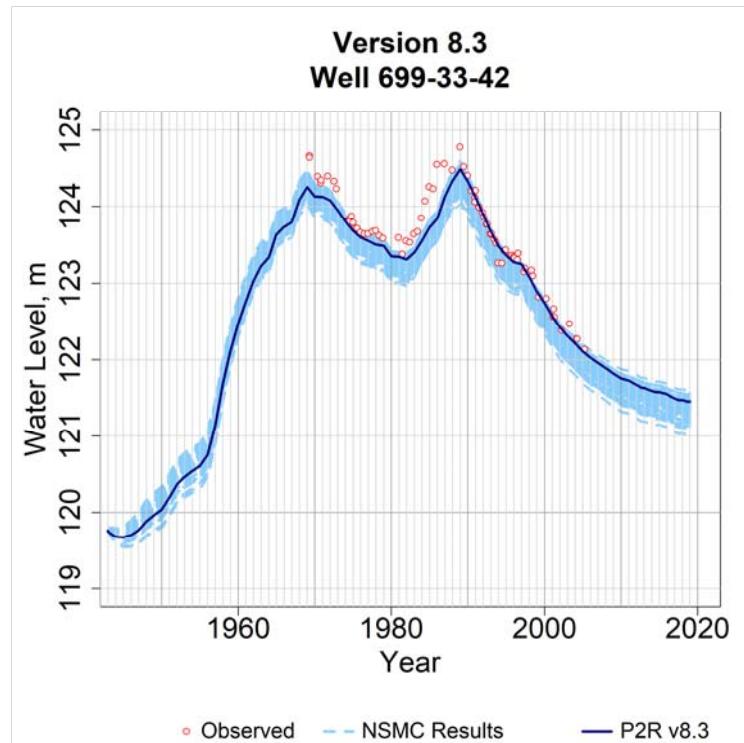


Figure B-562. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-33-42 for the calibrated model and all model variants from the NSMC.

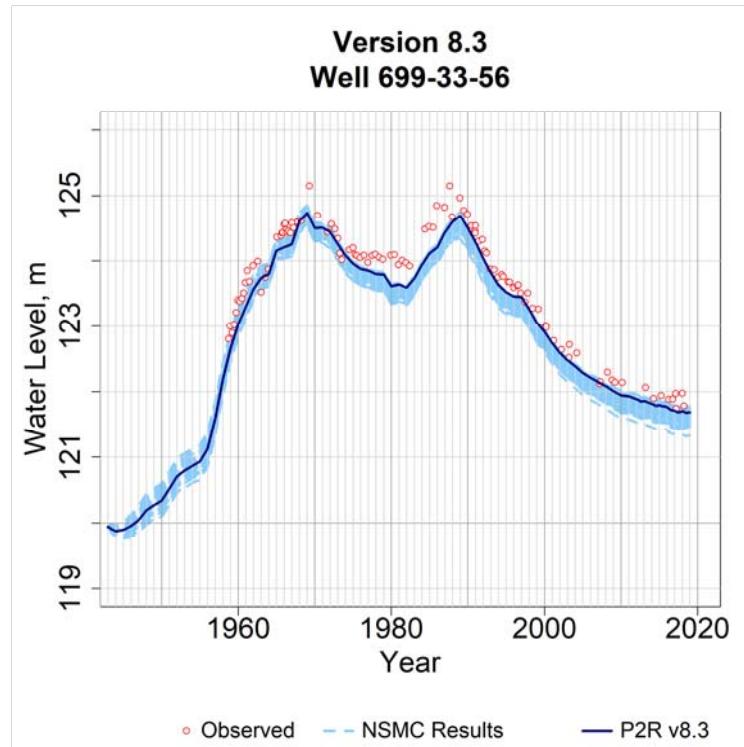


Figure B-563. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-33-56 for the calibrated model and all model variants from the NSMC.

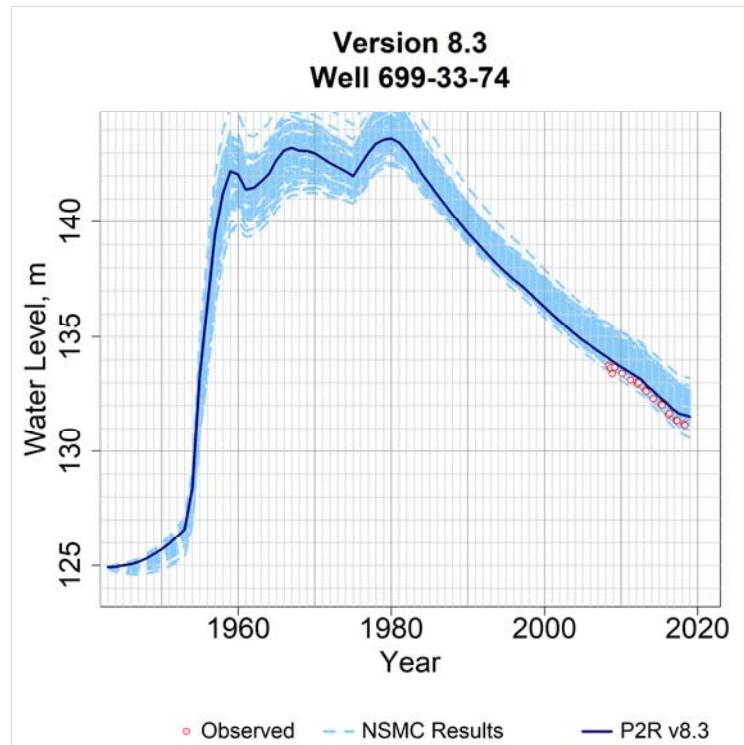


Figure B-564. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-33-74 for the calibrated model and all model variants from the NSMC.

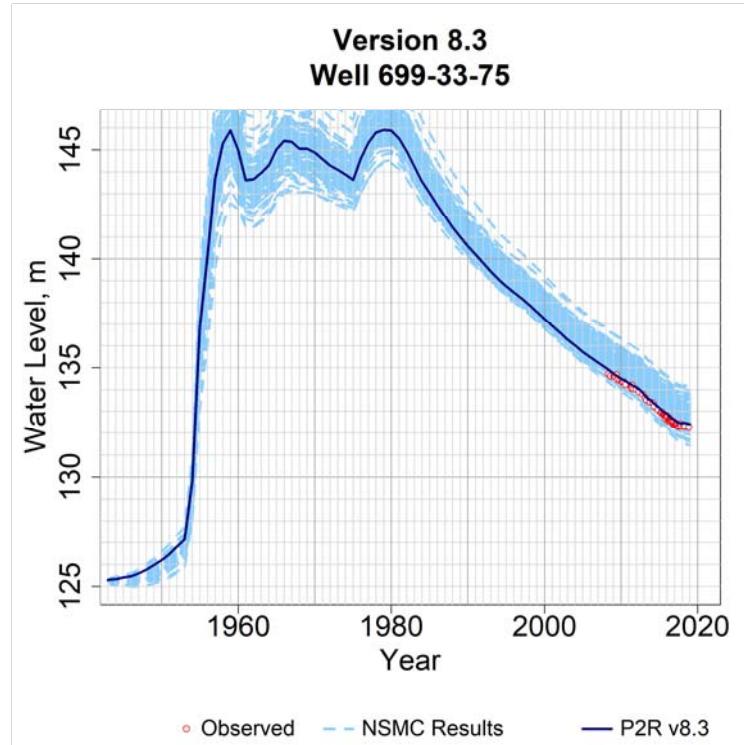


Figure B-565. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-33-75 for the calibrated model and all model variants from the NSMC.

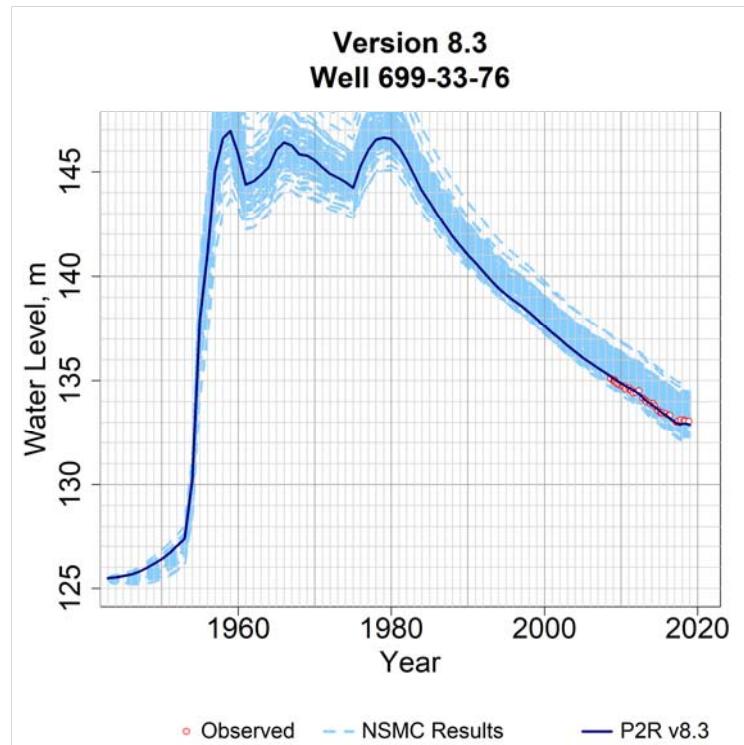


Figure B-566. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-33-76 for the calibrated model and all model variants from the NSMC.

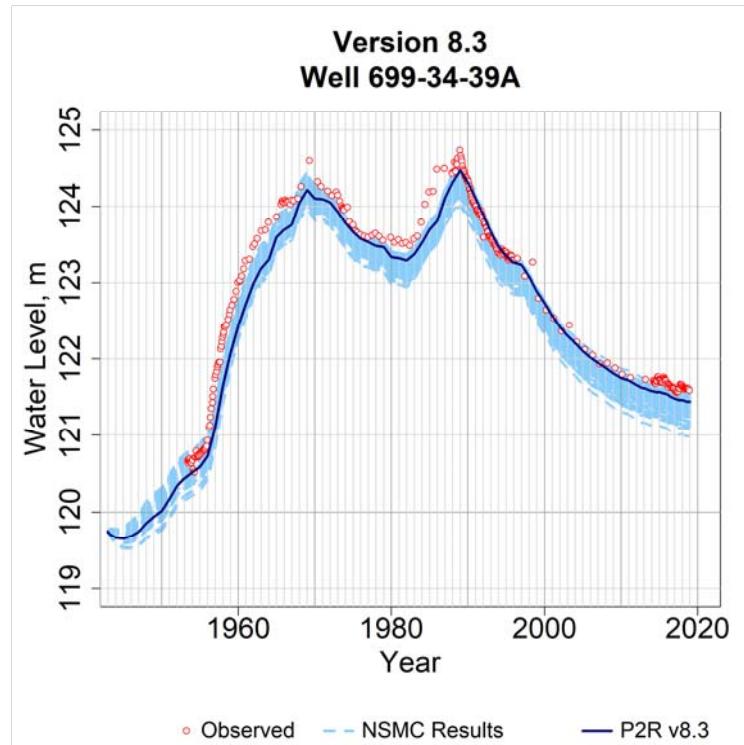


Figure B-567. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-34-39A for the calibrated model and all model variants from the NSMC.

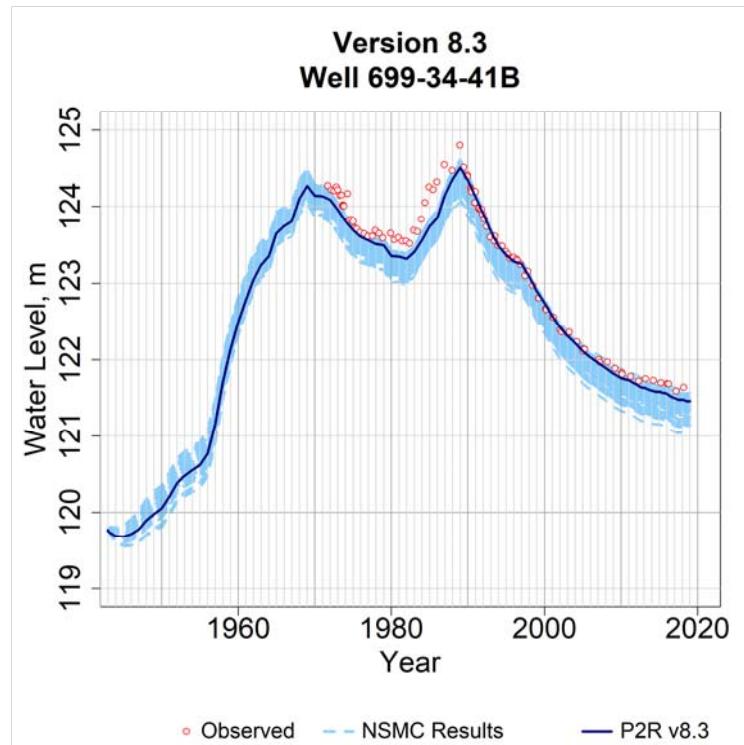


Figure B-568. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-34-41B for the calibrated model and all model variants from the NSMC.

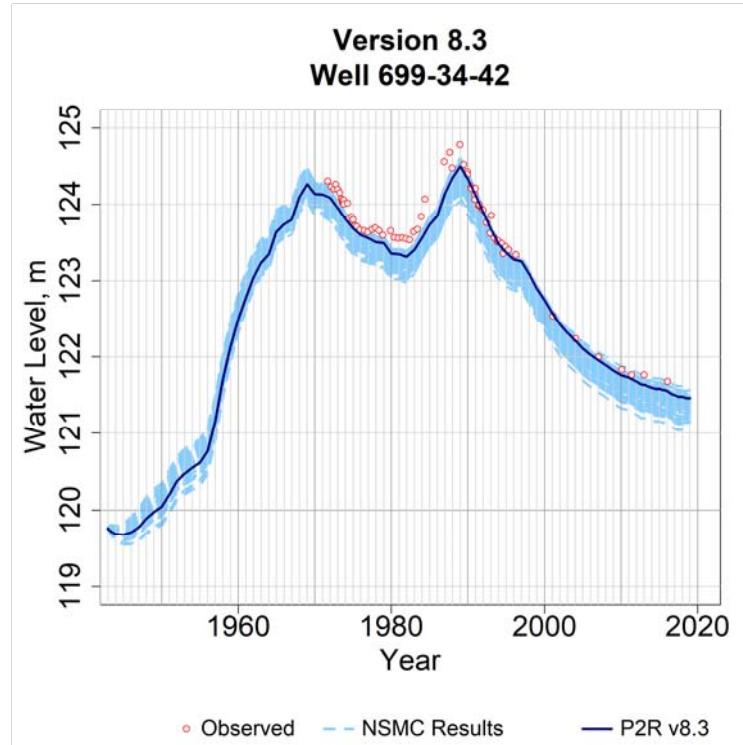


Figure B-569. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-34-42 for the calibrated model and all model variants from the NSMC.

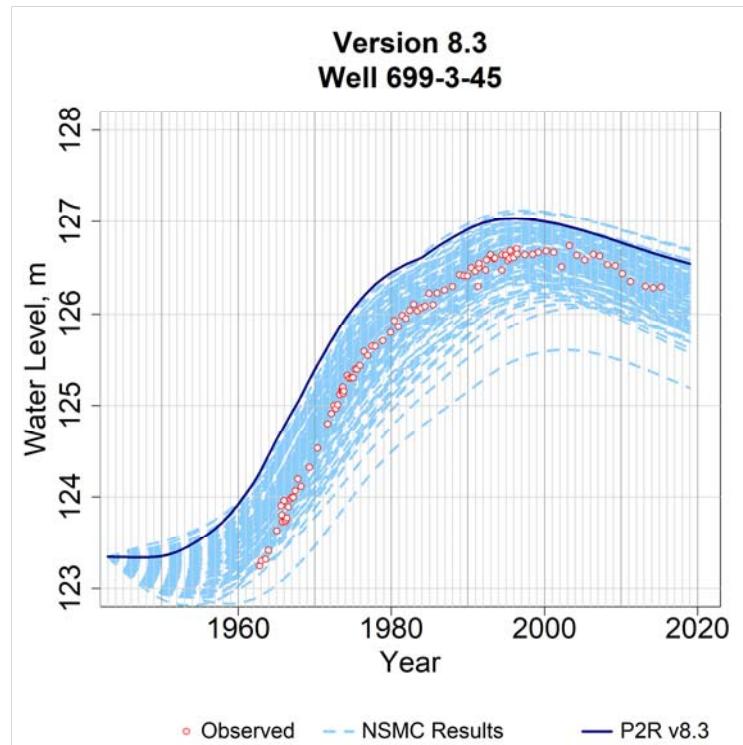


Figure B-570. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-3-45 for the calibrated model and all model variants from the NSMC.

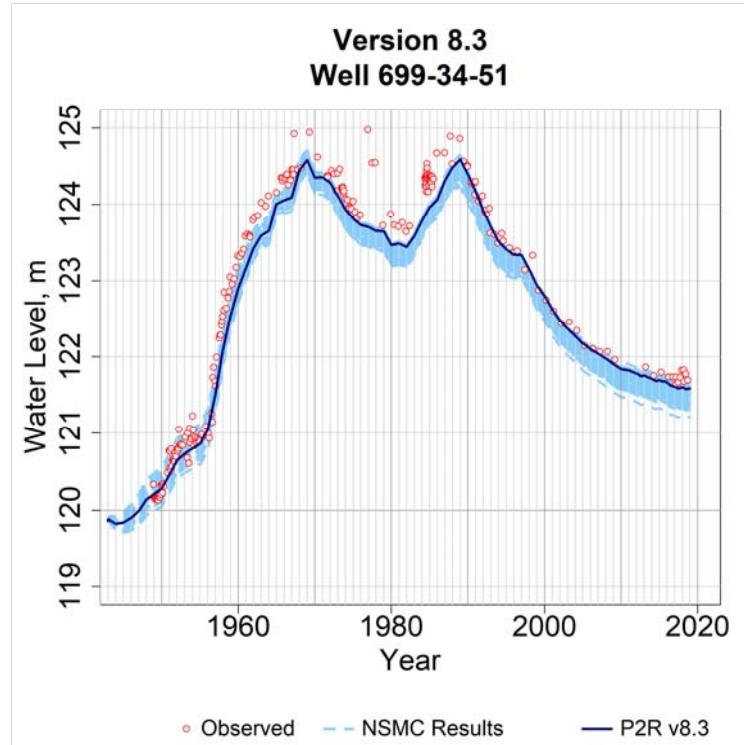


Figure B-571. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-34-51 for the calibrated model and all model variants from the NSMC.

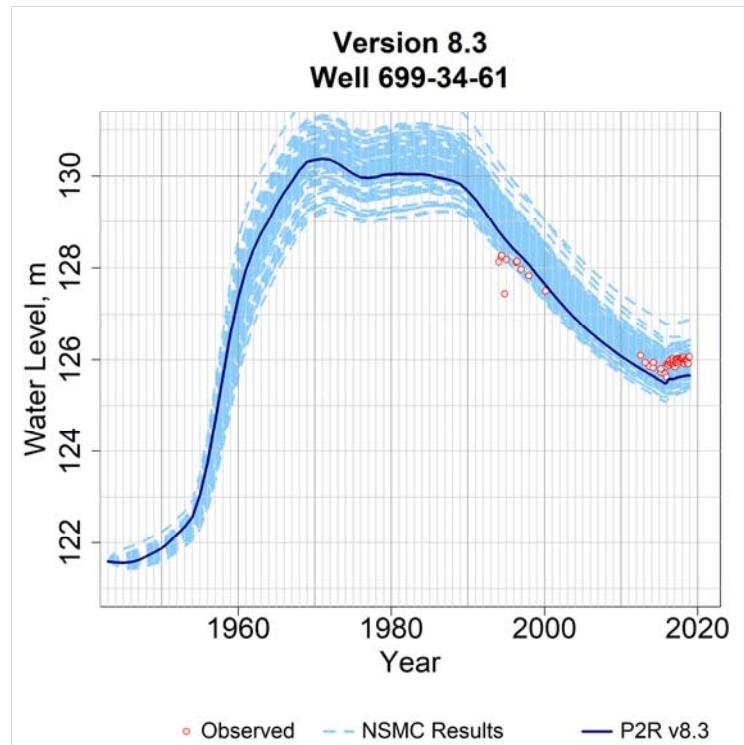


Figure B-572. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-34-61 for the calibrated model and all model variants from the NSMC.

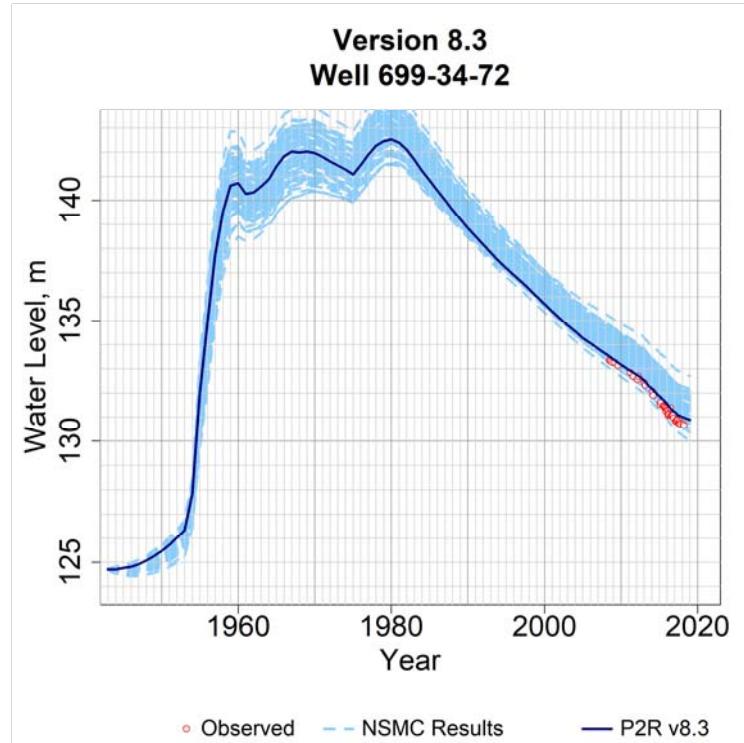


Figure B-573. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-34-72 for the calibrated model and all model variants from the NSMC.

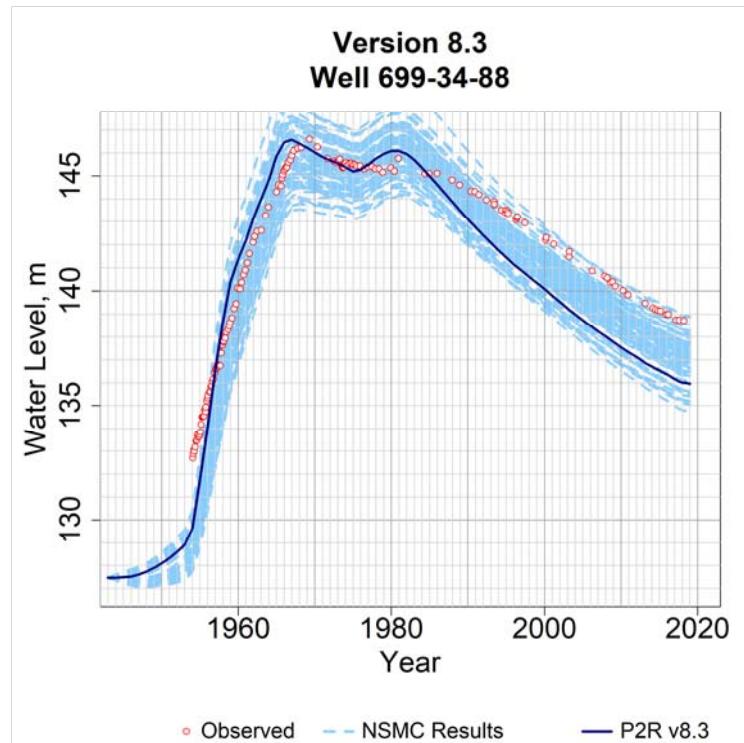


Figure B-574. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-34-88 for the calibrated model and all model variants from the NSMC.

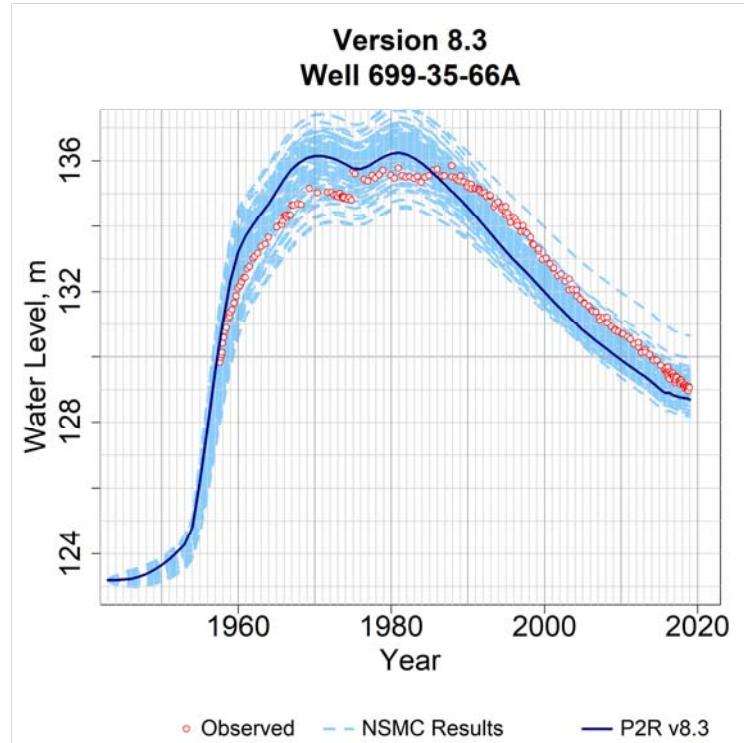


Figure B-575. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-35-66A for the calibrated model and all model variants from the NSMC.

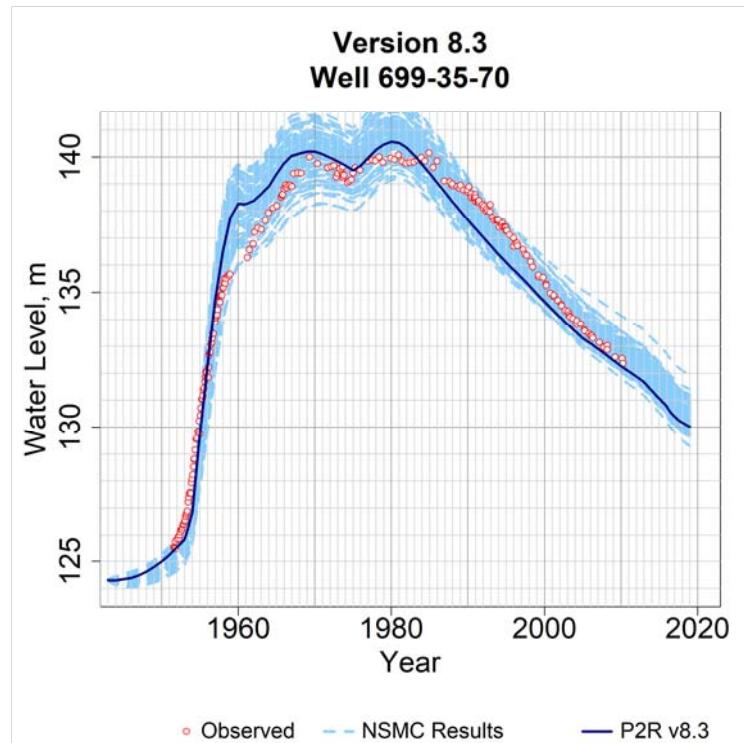


Figure B-576. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-35-70 for the calibrated model and all model variants from the NSMC.

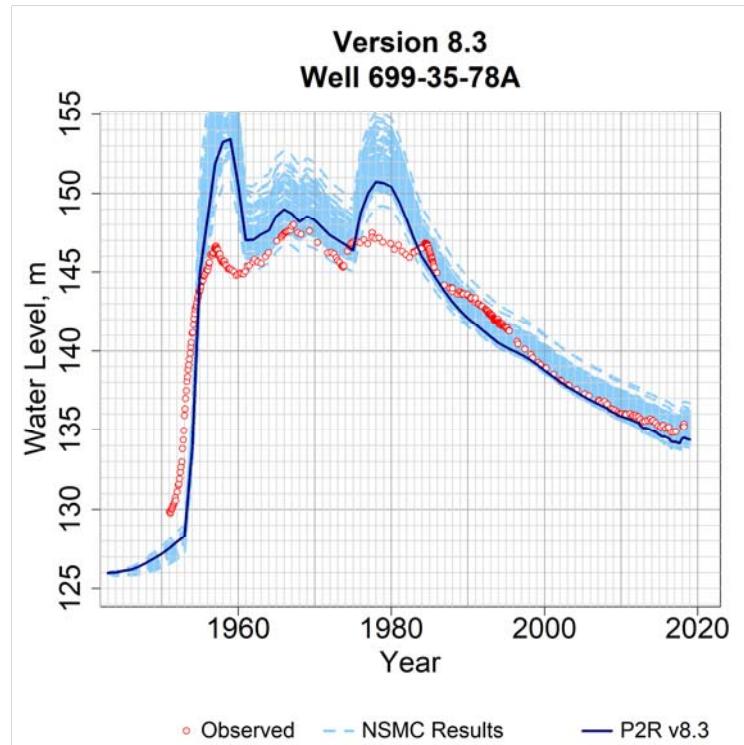


Figure B-577. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-35-78A for the calibrated model and all model variants from the NSMC.

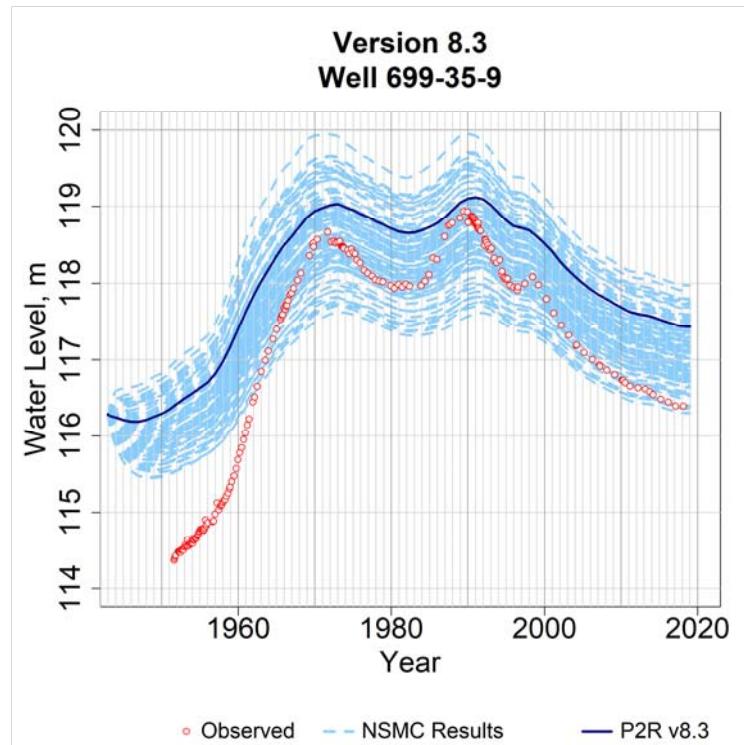


Figure B-578. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-35-9 for the calibrated model and all model variants from the NSMC.

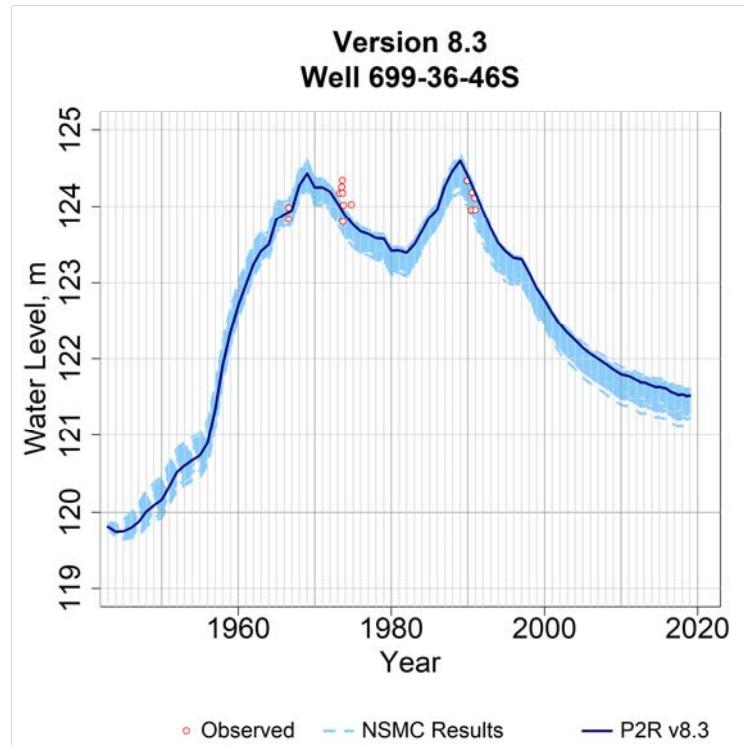


Figure B-579. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-46S for the calibrated model and all model variants from the NSMC.

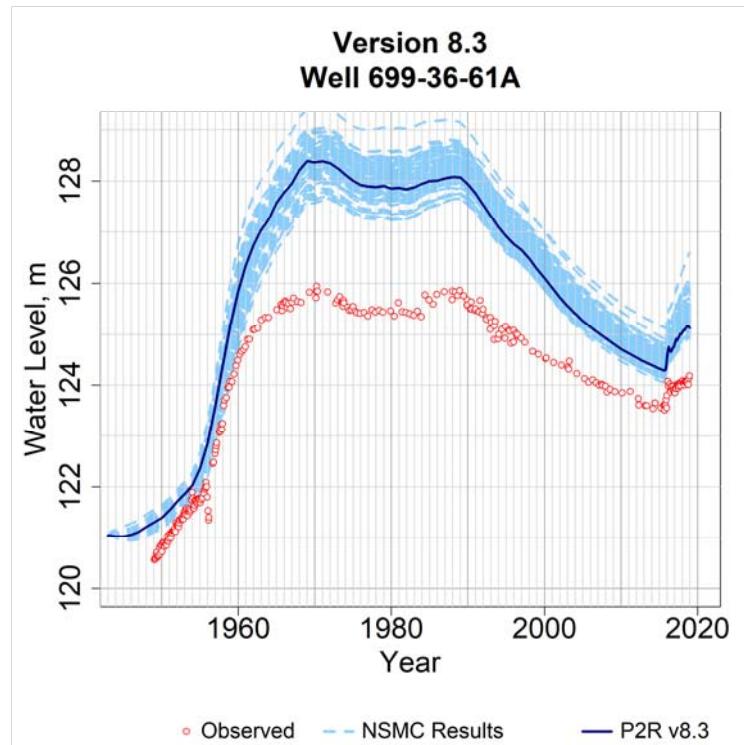


Figure B-580. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-61A for the calibrated model and all model variants from the NSMC.

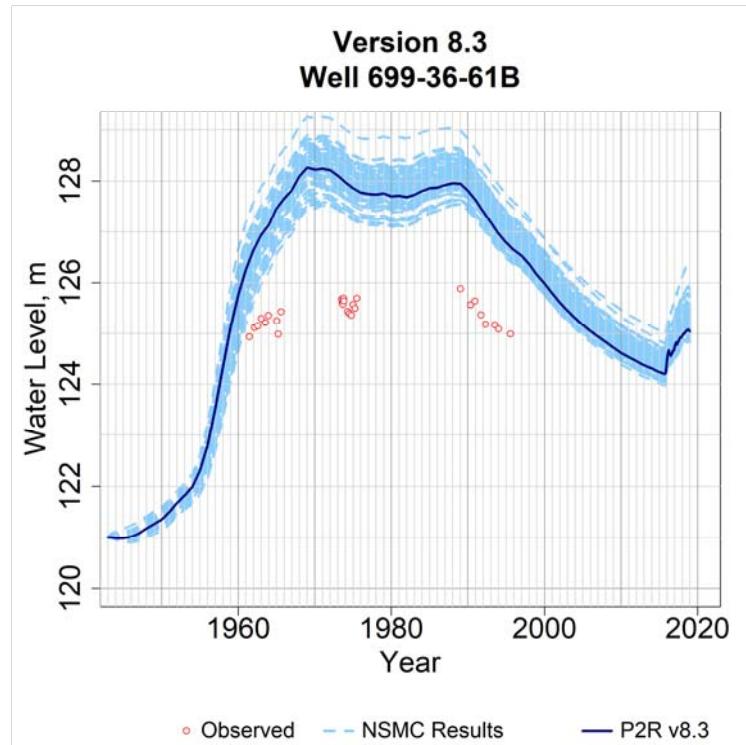


Figure B-581. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-61B for the calibrated model and all model variants from the NSMC.

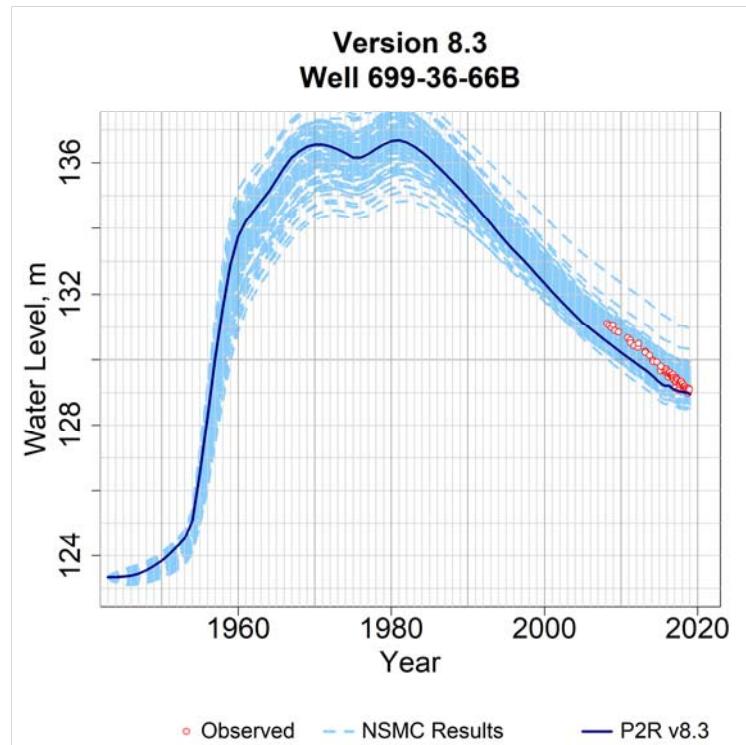


Figure B-582. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-66B for the calibrated model and all model variants from the NSMC.

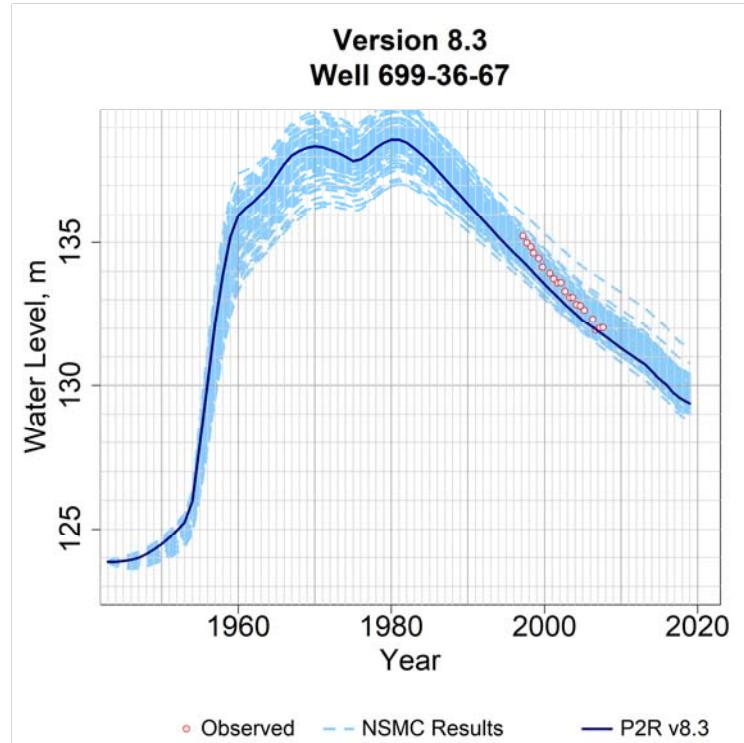


Figure B-583. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-67 for the calibrated model and all model variants from the NSMC.

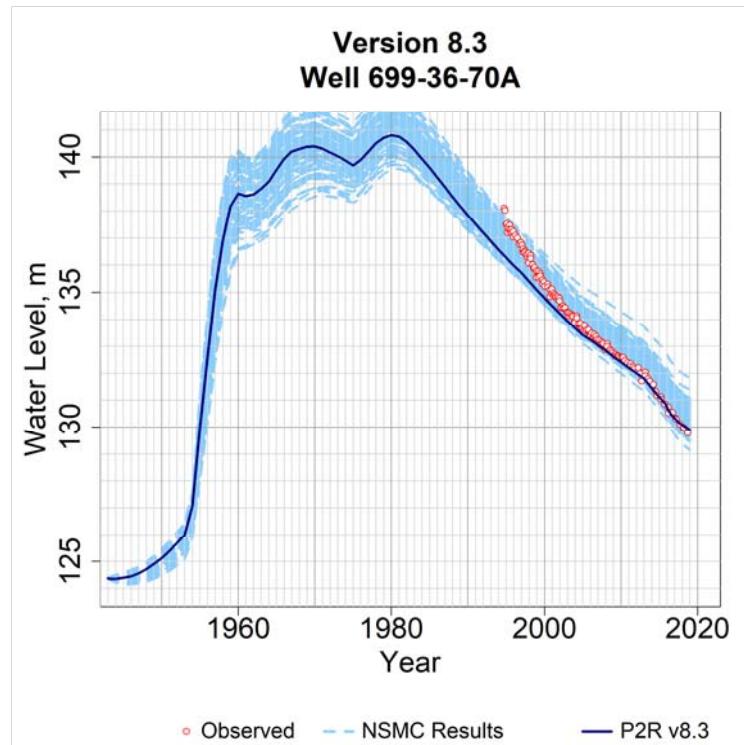


Figure B-584. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-70A for the calibrated model and all model variants from the NSMC.

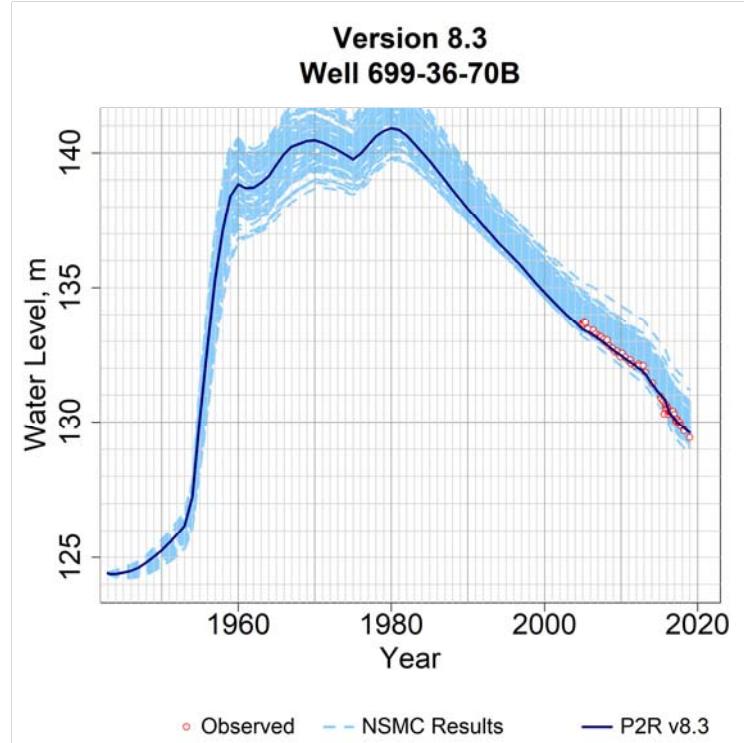


Figure B-585. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-70B for the calibrated model and all model variants from the NSMC.

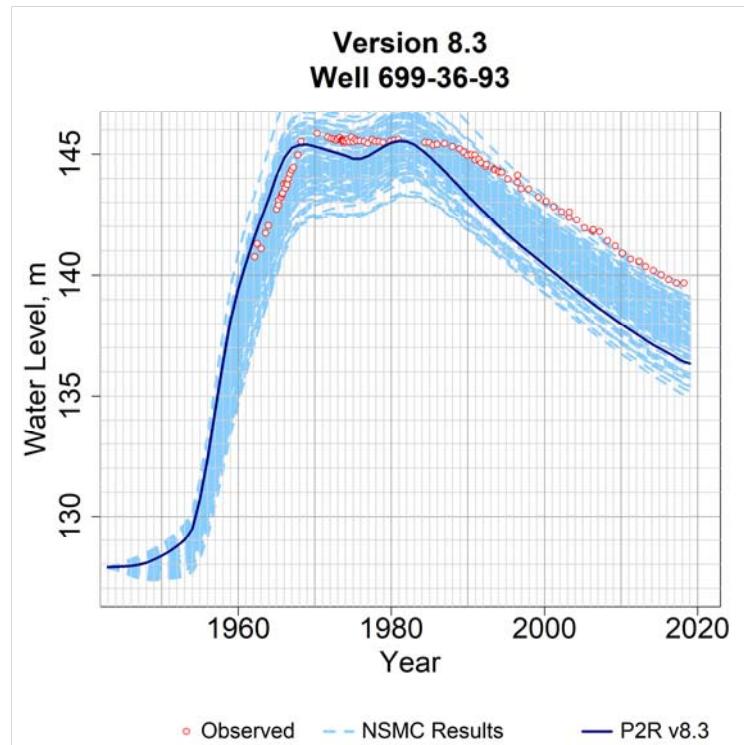


Figure B-586. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-36-93 for the calibrated model and all model variants from the NSMC.

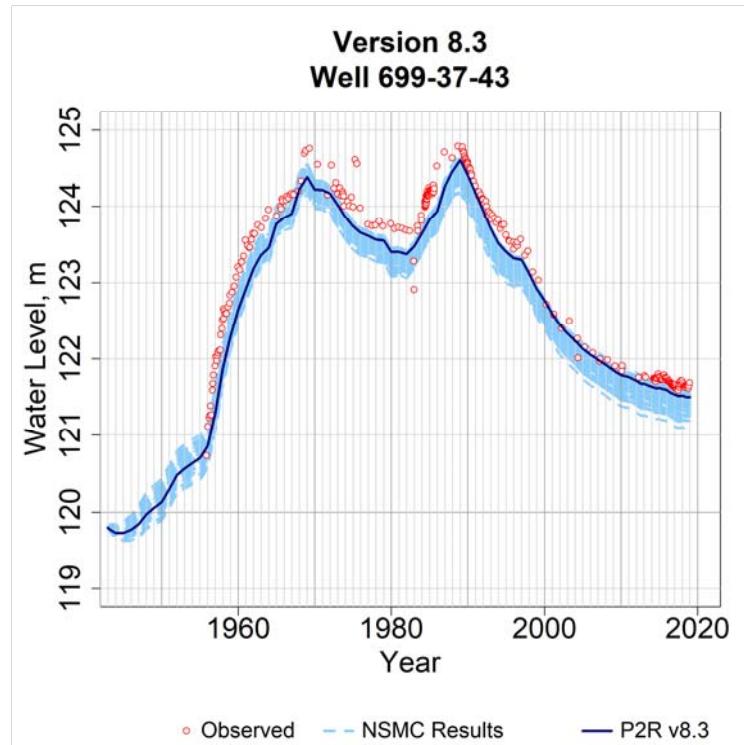


Figure B-587. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-37-43 for the calibrated model and all model variants from the NSMC.

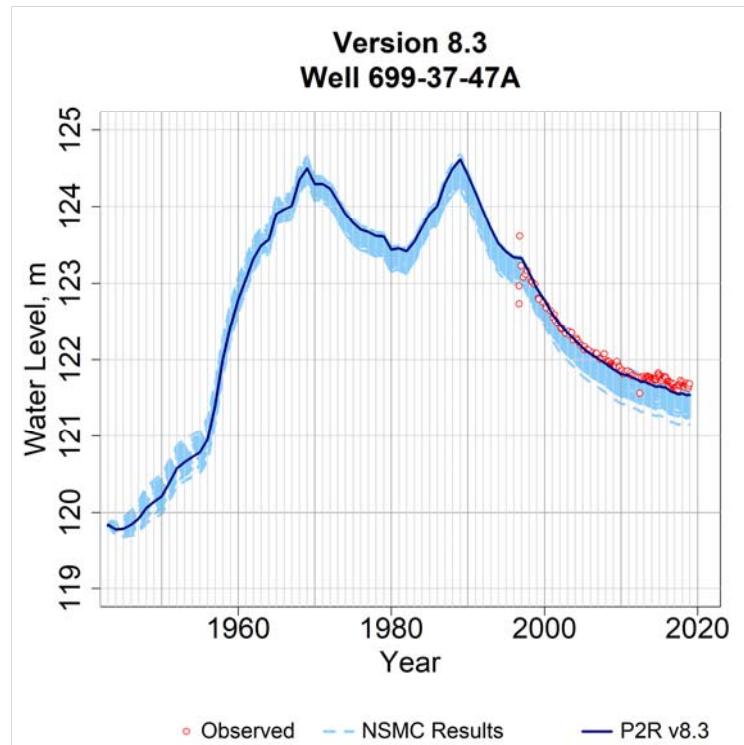


Figure B-588. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-37-47A for the calibrated model and all model variants from the NSMC.

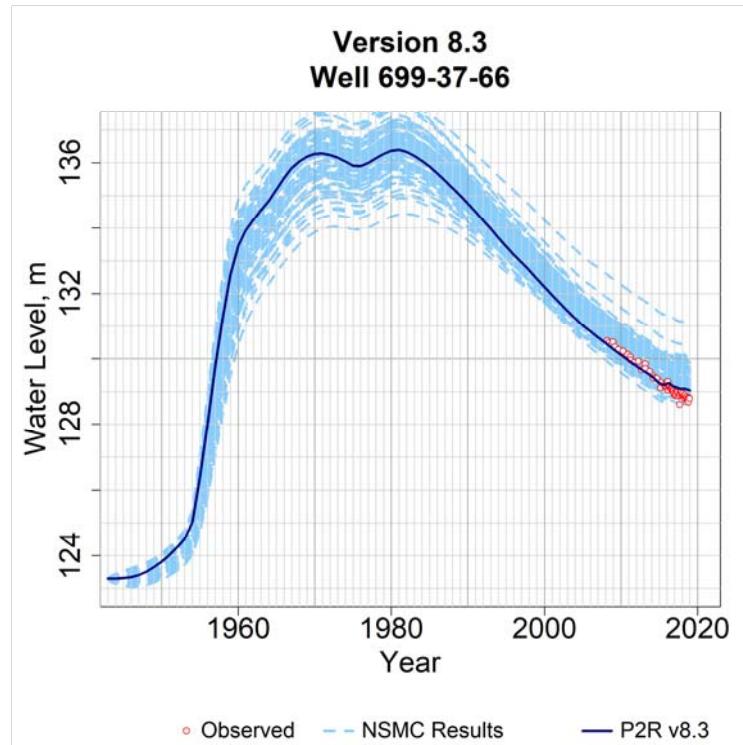


Figure B-589. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-37-66 for the calibrated model and all model variants from the NSMC.

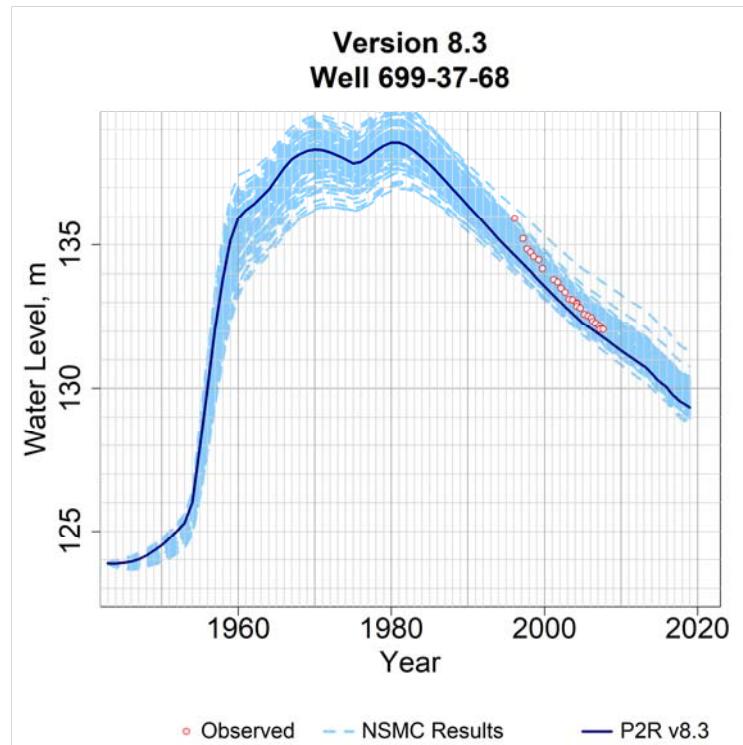


Figure B-590. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-37-68 for the calibrated model and all model variants from the NSMC.

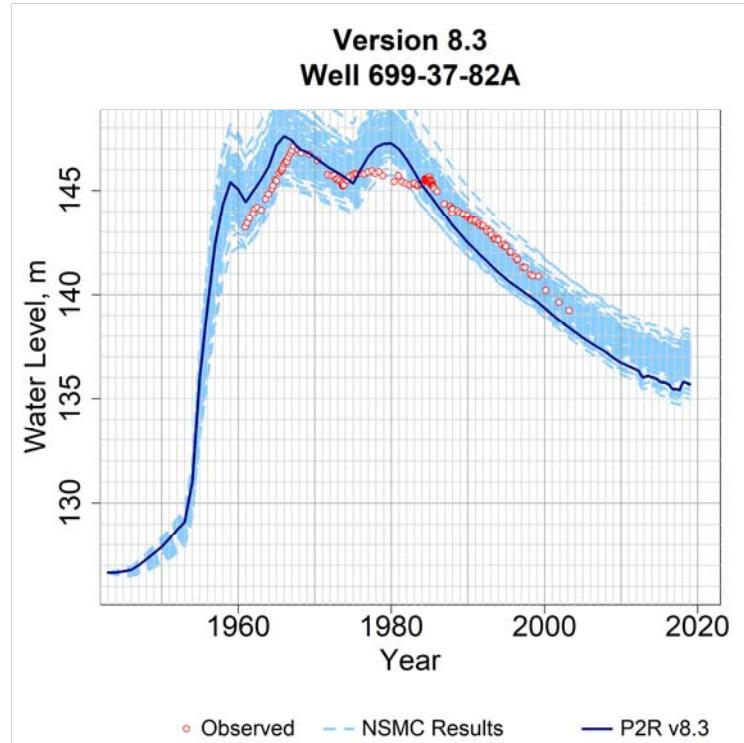


Figure B-591. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-37-82A for the calibrated model and all model variants from the NSMC.

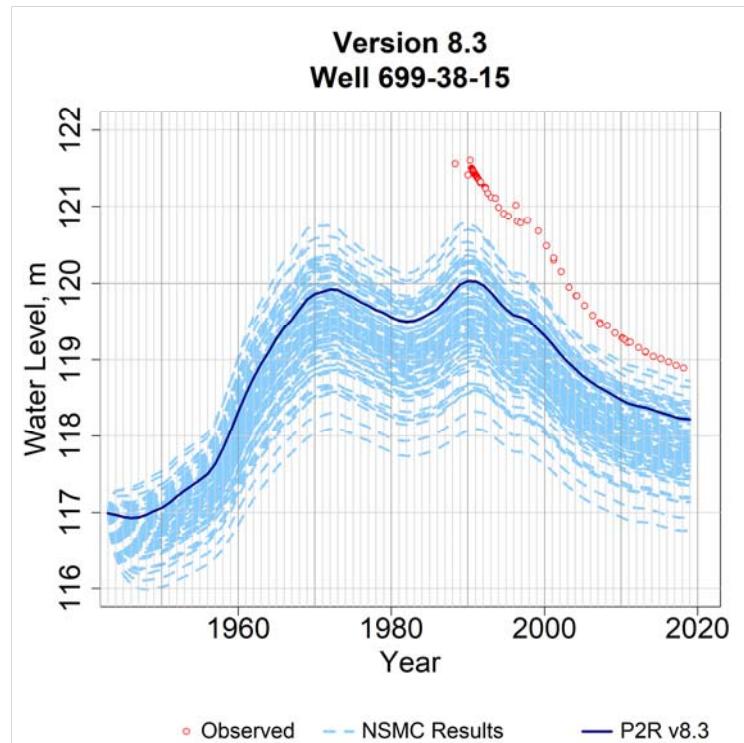


Figure B-592. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-38-15 for the calibrated model and all model variants from the NSMC.

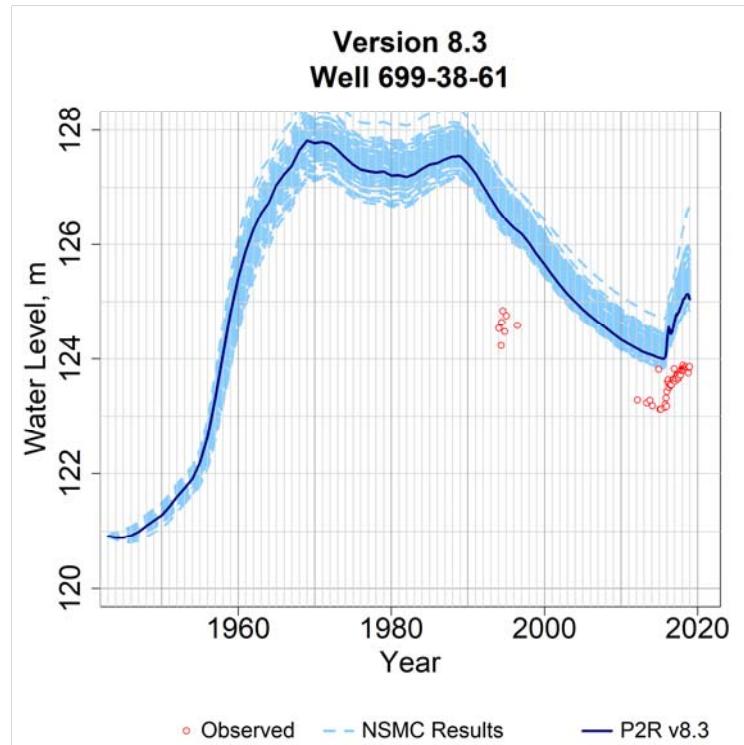


Figure B-593. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-38-61 for the calibrated model and all model variants from the NSMC.

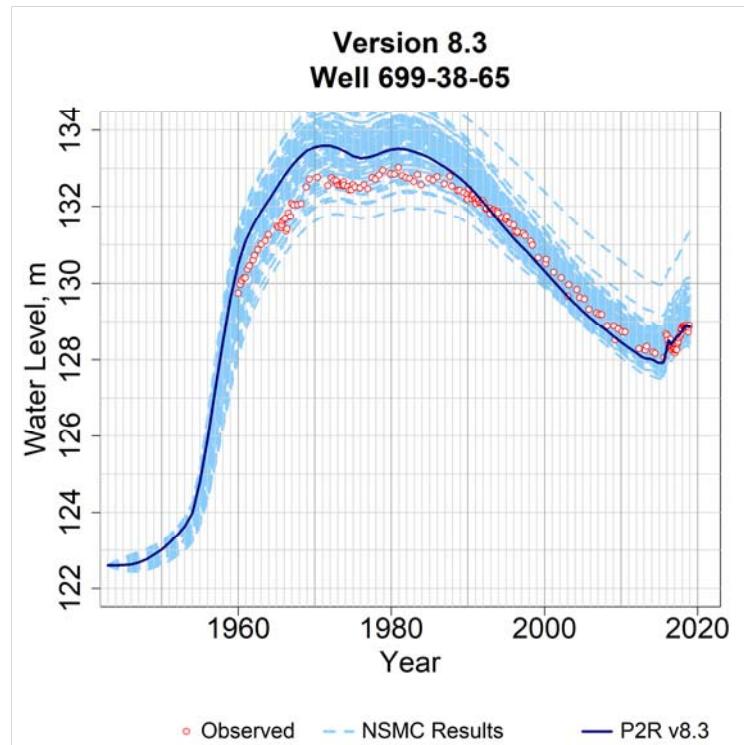


Figure B-594. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-38-65 for the calibrated model and all model variants from the NSMC.

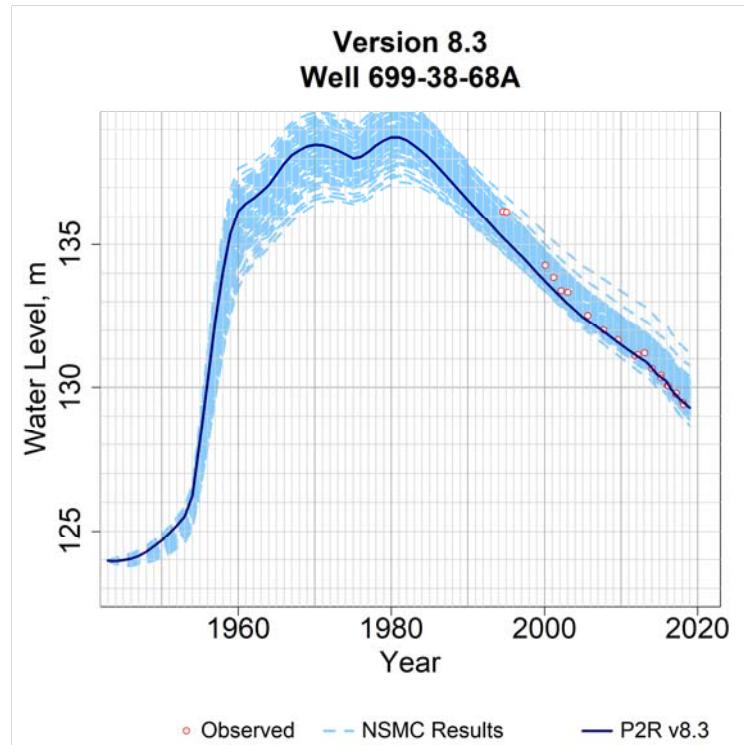


Figure B-595. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-38-68A for the calibrated model and all model variants from the NSMC.

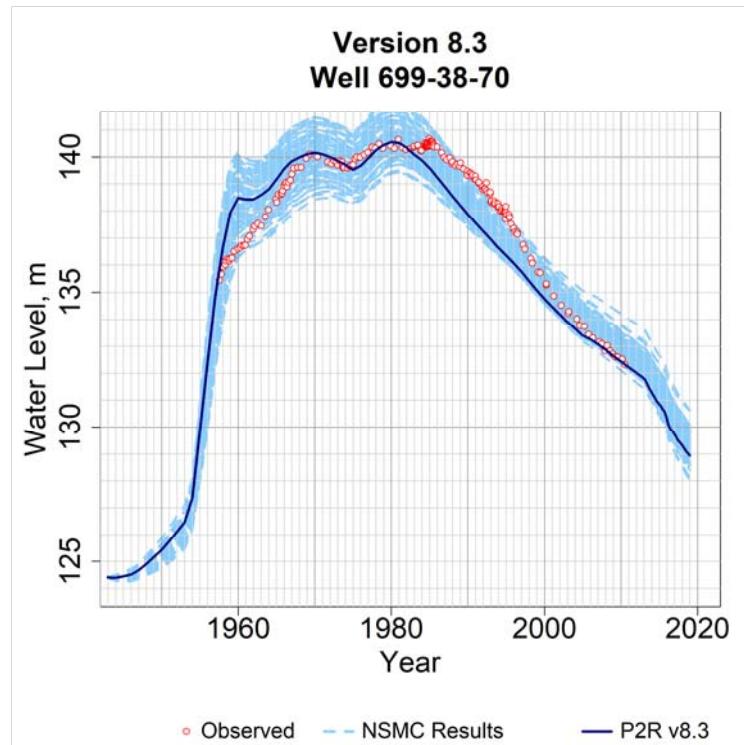


Figure B-596. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-38-70 for the calibrated model and all model variants from the NSMC.

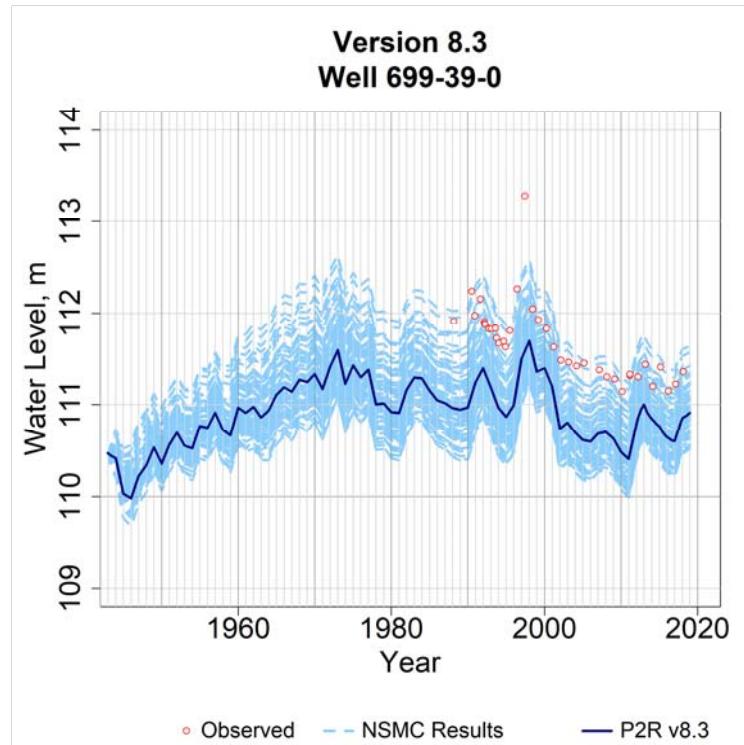


Figure B-597. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-39-0 for the calibrated model and all model variants from the NSMC.

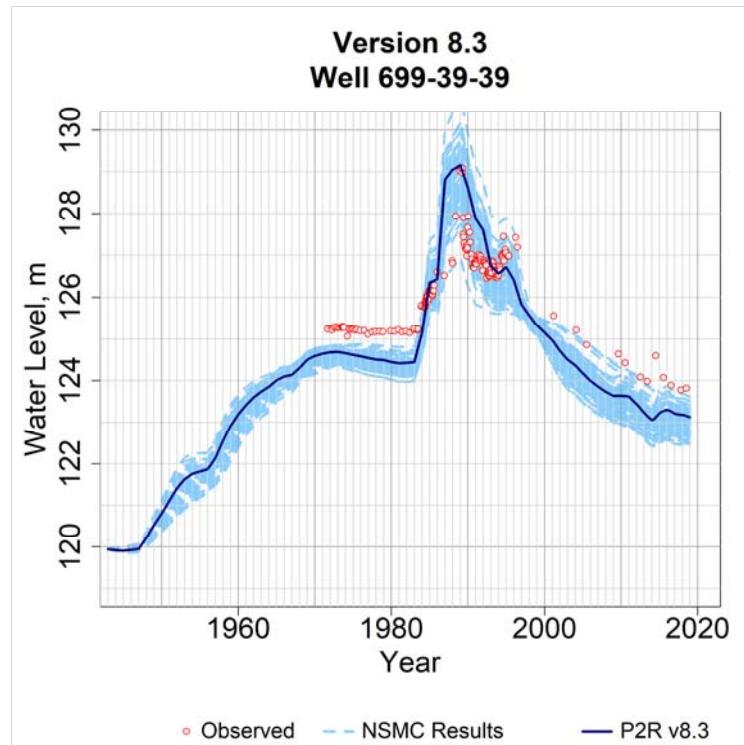


Figure B-598. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-39-39 for the calibrated model and all model variants from the NSMC.

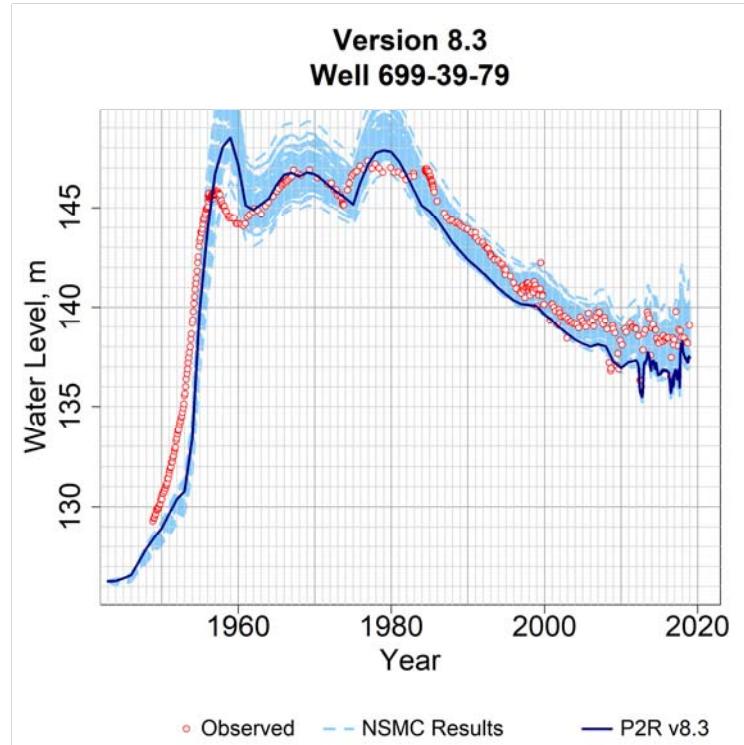


Figure B-599. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-39-79 for the calibrated model and all model variants from the NSMC.

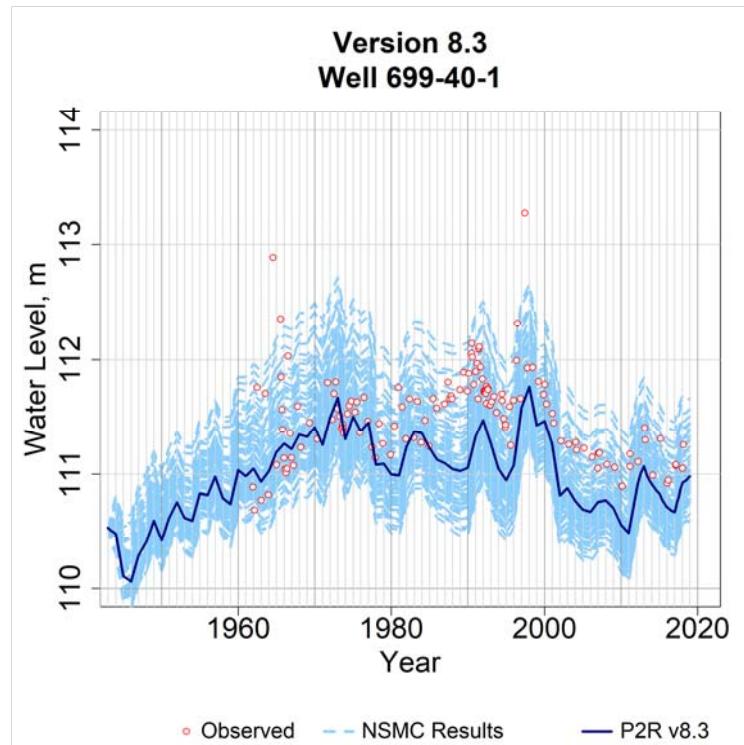


Figure B-600. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-1 for the calibrated model and all model variants from the NSMC.

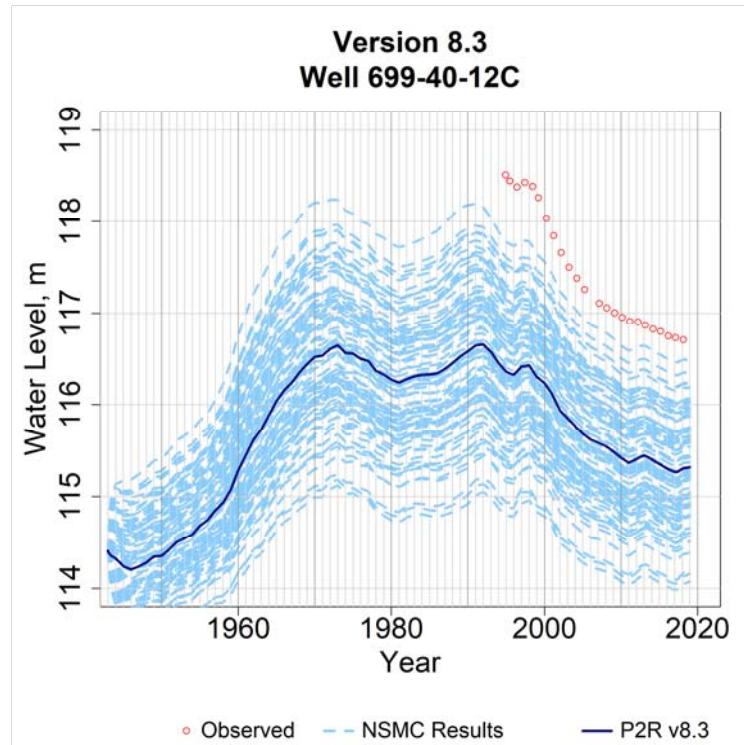


Figure B-601. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-12C for the calibrated model and all model variants from the NSMC.

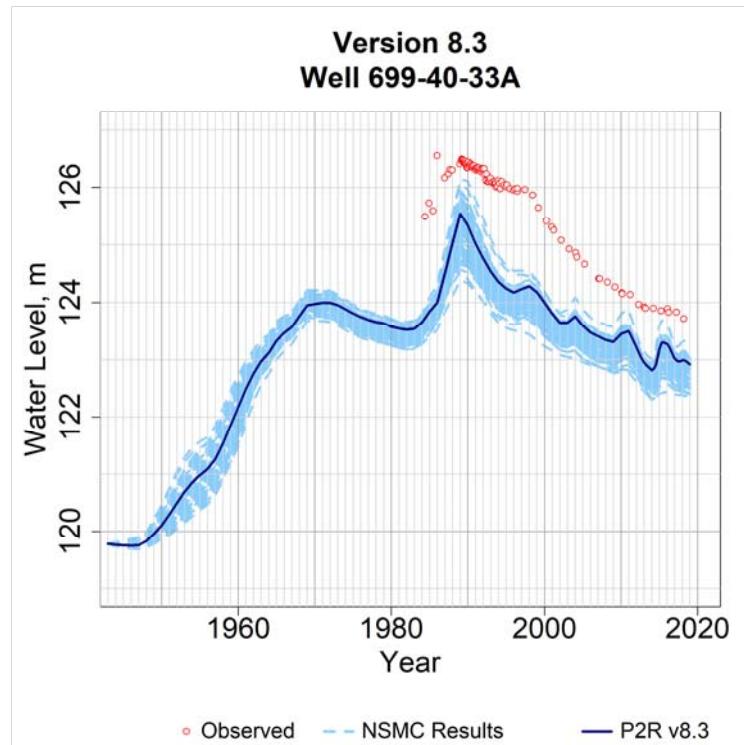


Figure B-602. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-33A for the calibrated model and all model variants from the NSMC.

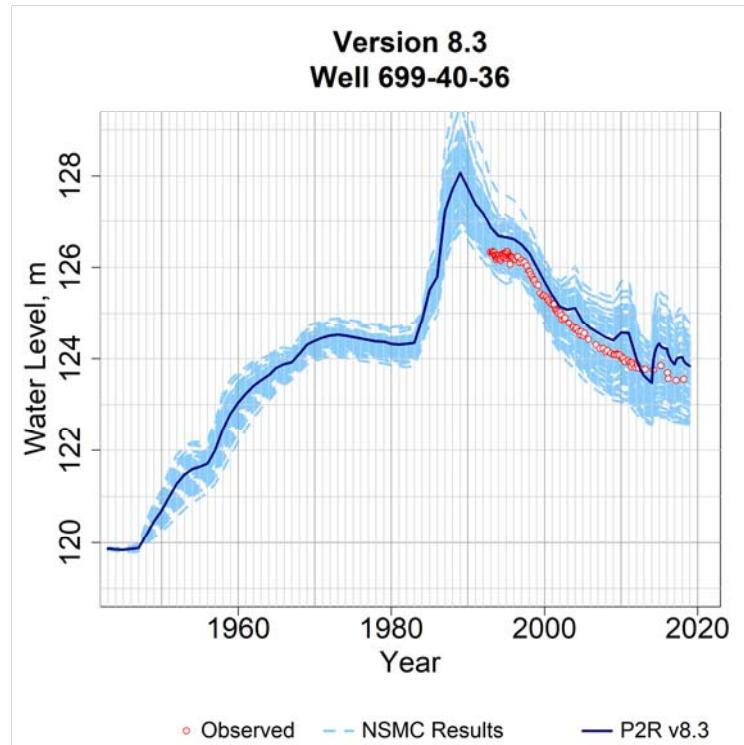


Figure B-603. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-36 for the calibrated model and all model variants from the NSMC.

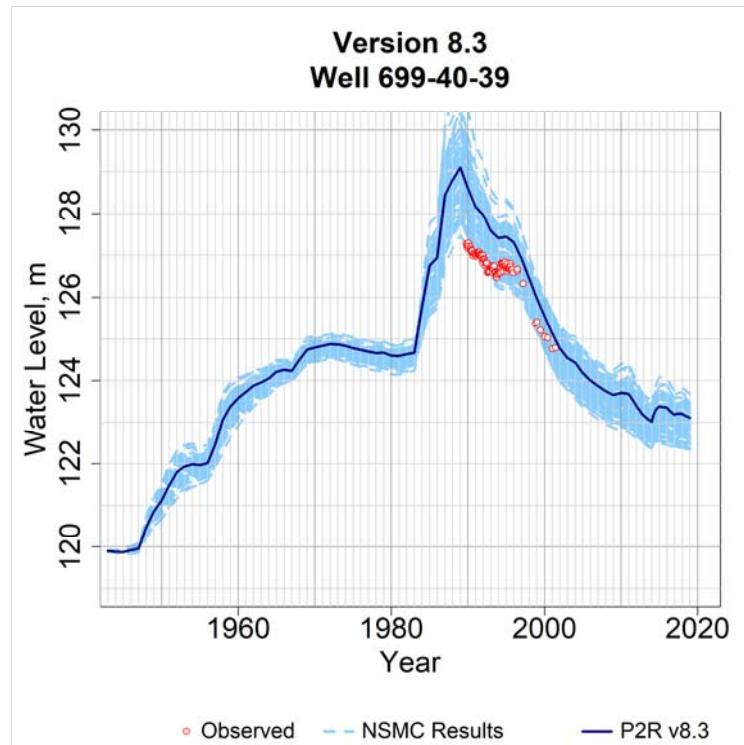


Figure B-604. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-39 for the calibrated model and all model variants from the NSMC.

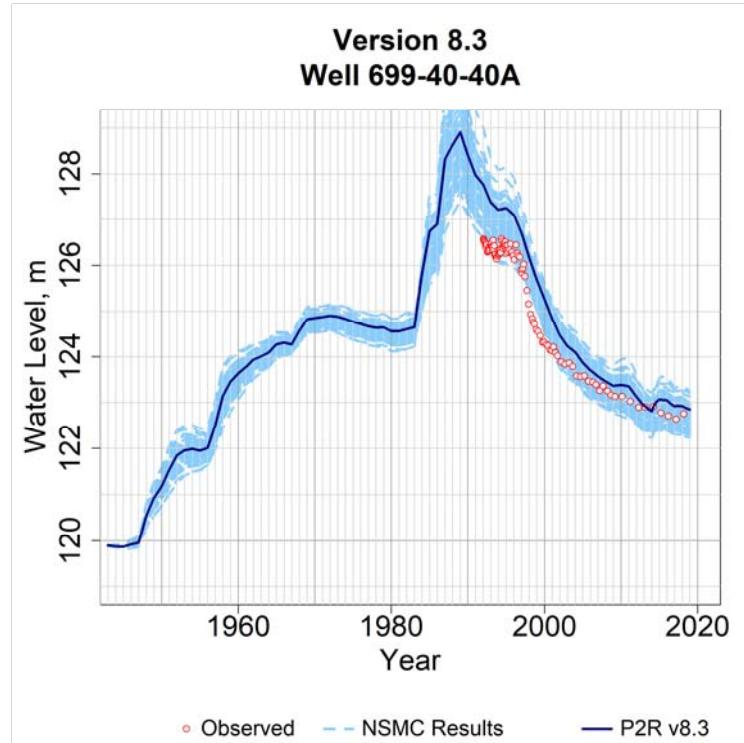


Figure B-605. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-40A for the calibrated model and all model variants from the NSMC.

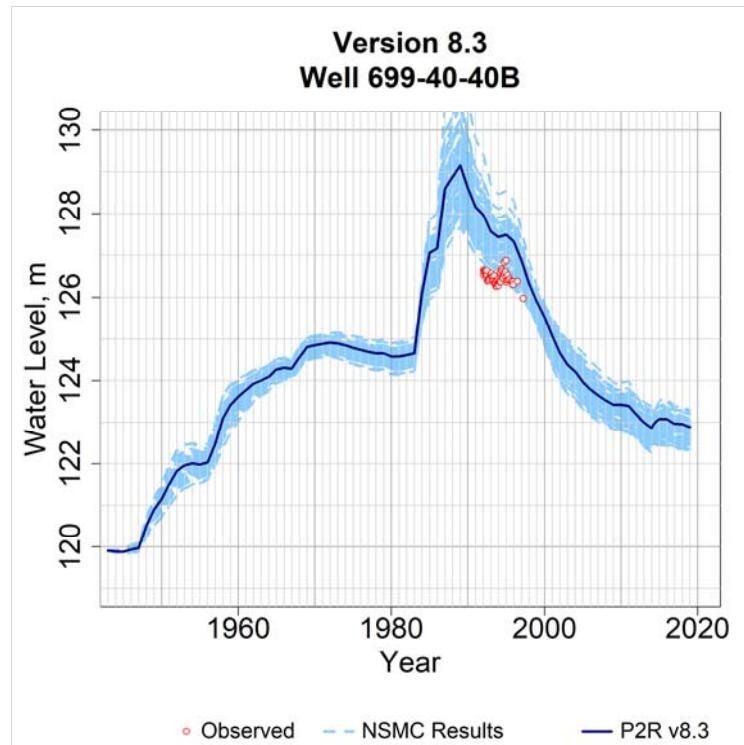


Figure B-606. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-40B for the calibrated model and all model variants from the NSMC.

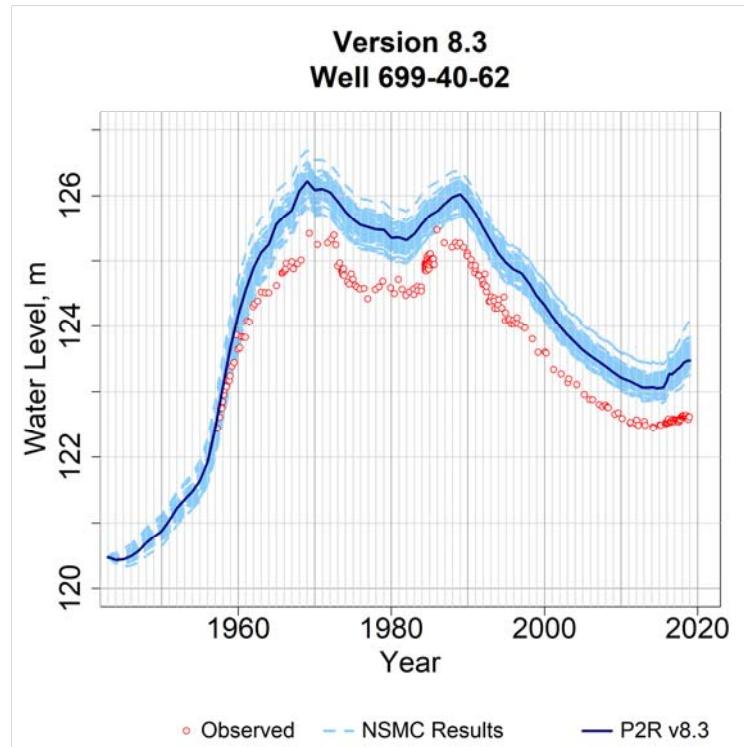


Figure B-607. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-62 for the calibrated model and all model variants from the NSMC.

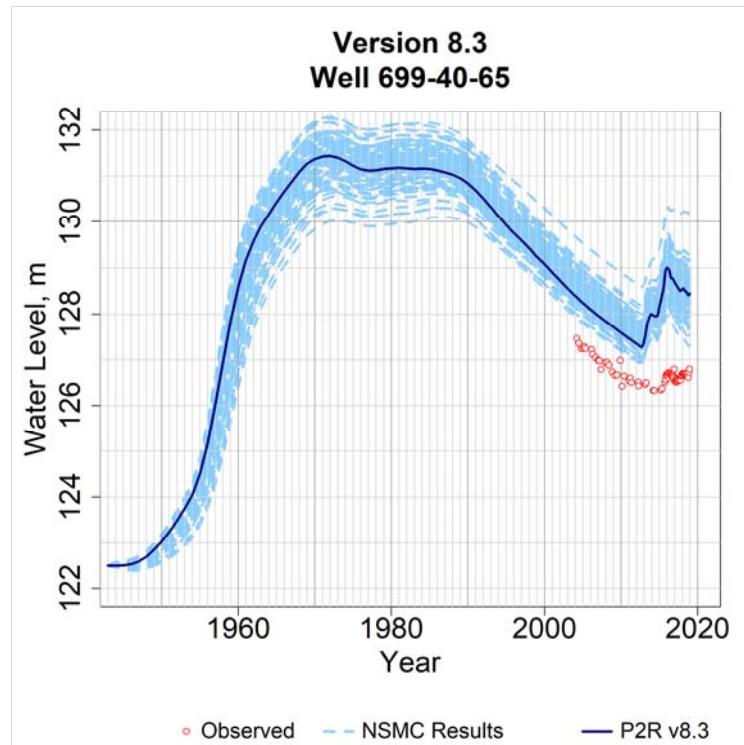


Figure B-608. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-40-65 for the calibrated model and all model variants from the NSMC.

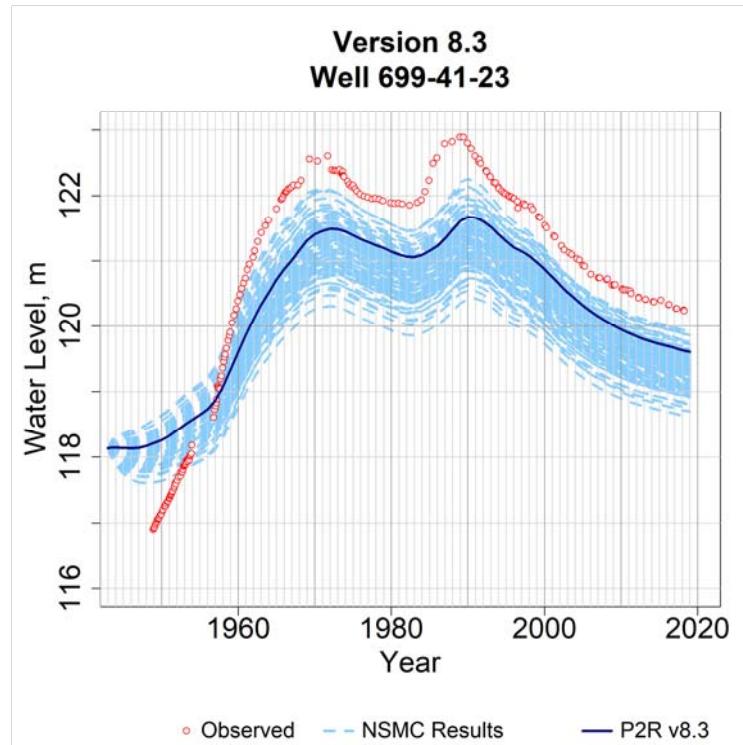


Figure B-609. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-41-23 for the calibrated model and all model variants from the NSMC.

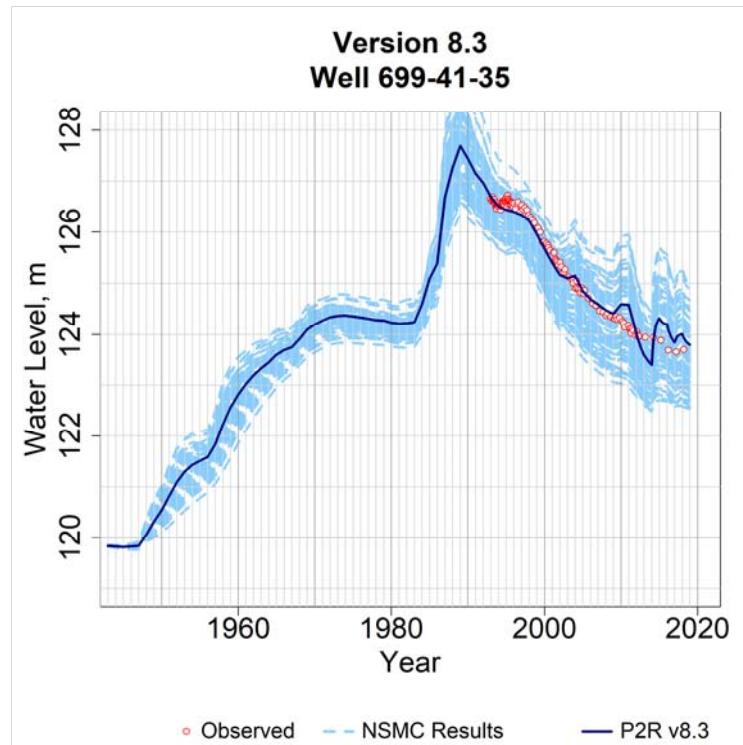


Figure B-610. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-41-35 for the calibrated model and all model variants from the NSMC.

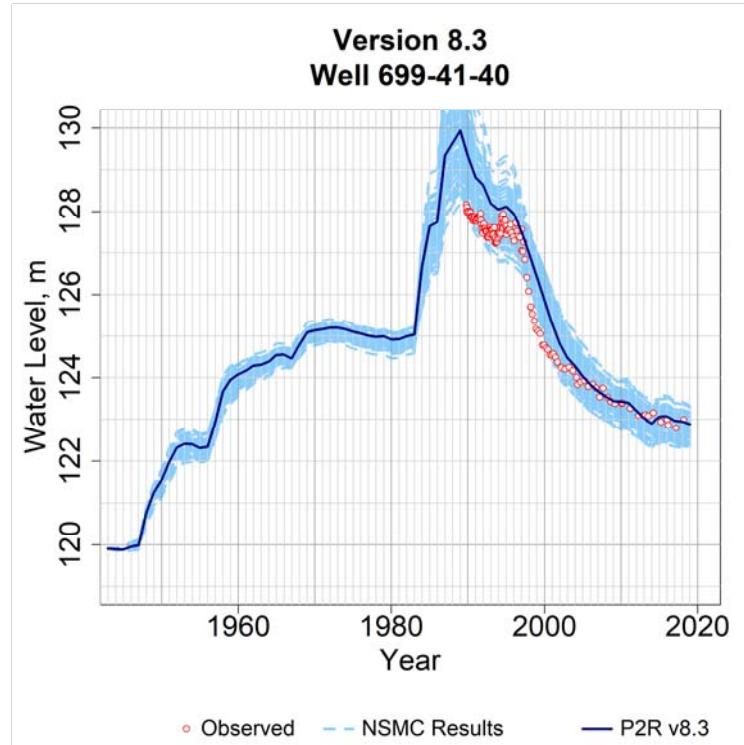


Figure B-611. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-41-40 for the calibrated model and all model variants from the NSMC.

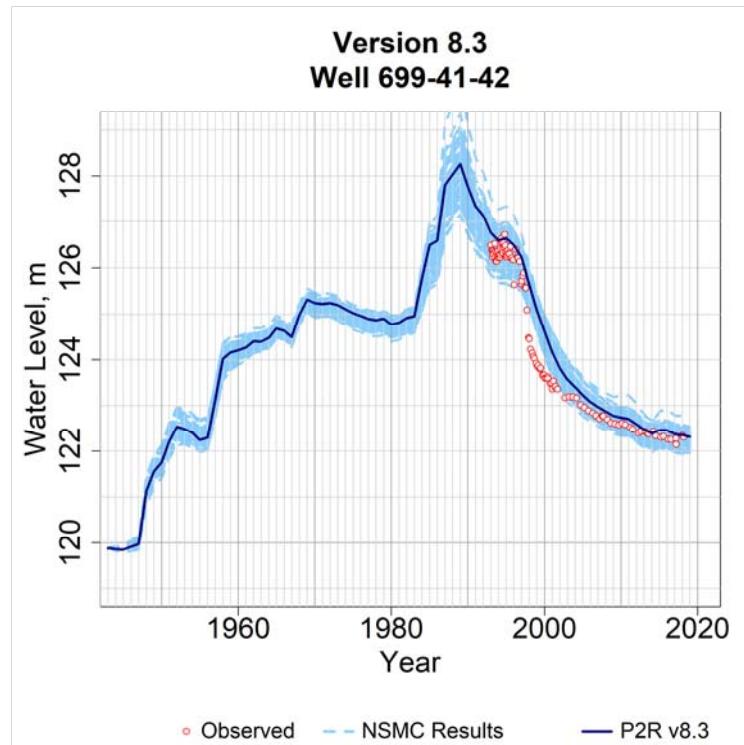


Figure B-612. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-41-42 for the calibrated model and all model variants from the NSMC.

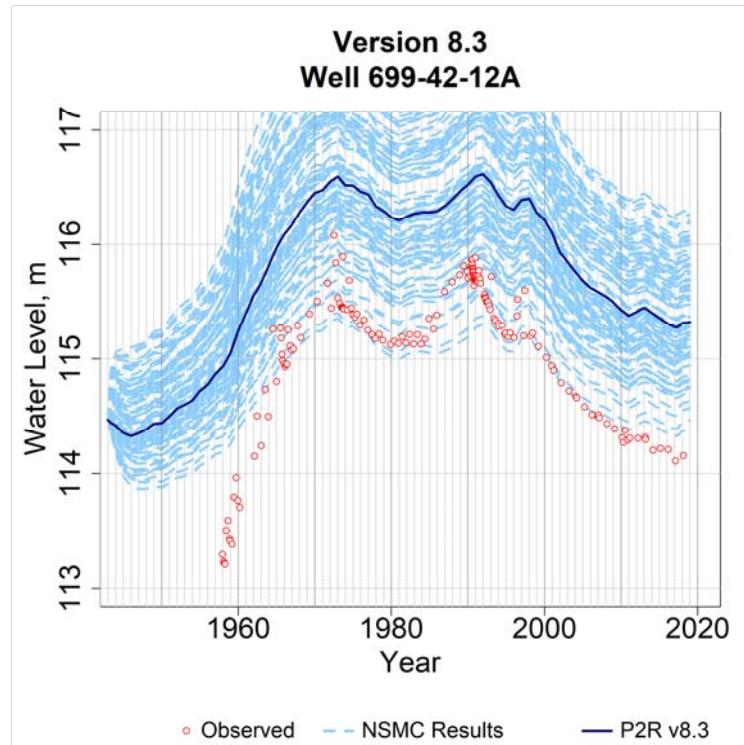


Figure B-613. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-12A for the calibrated model and all model variants from the NSMC.

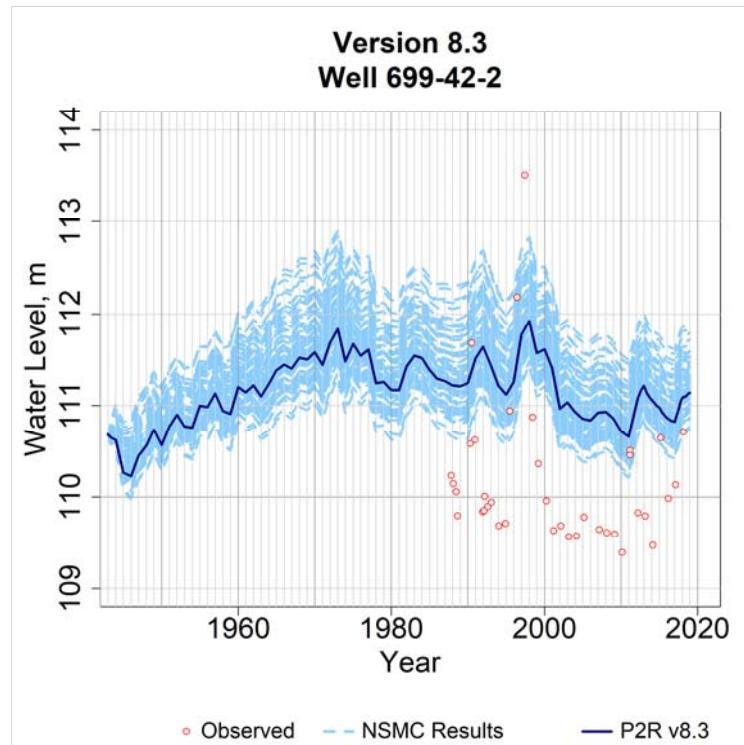


Figure B-614. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-2 for the calibrated model and all model variants from the NSMC.

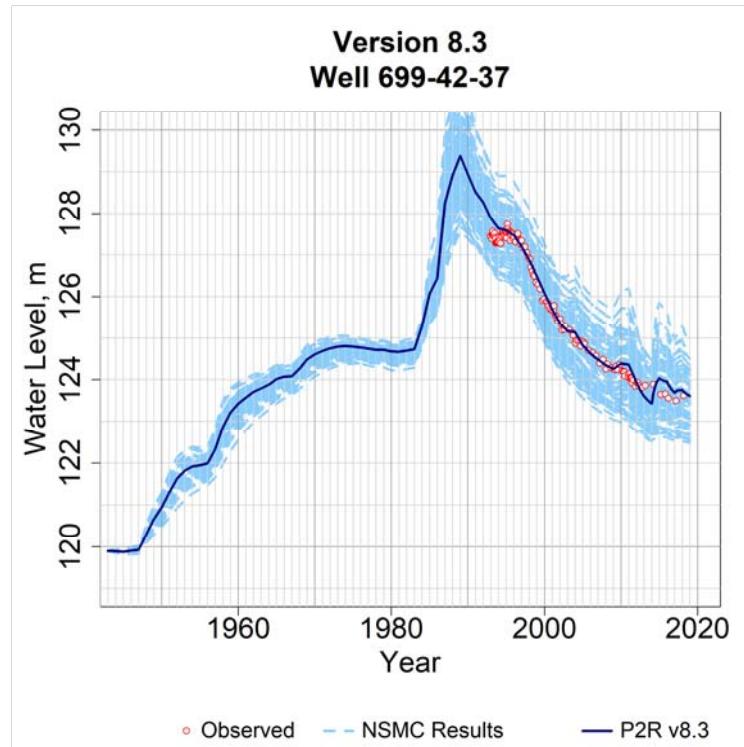


Figure B-615. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-37 for the calibrated model and all model variants from the NSMC.

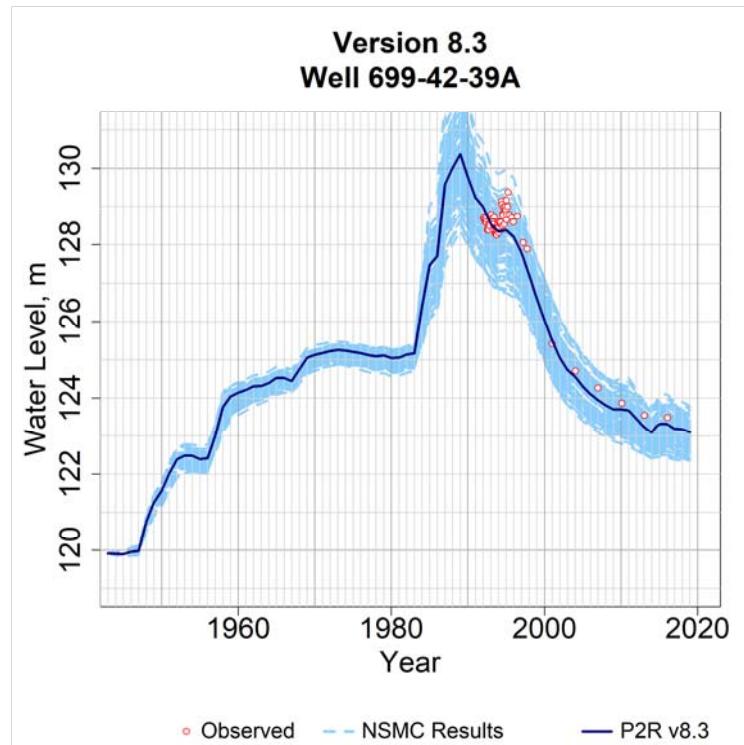


Figure B-616. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-39A for the calibrated model and all model variants from the NSMC.

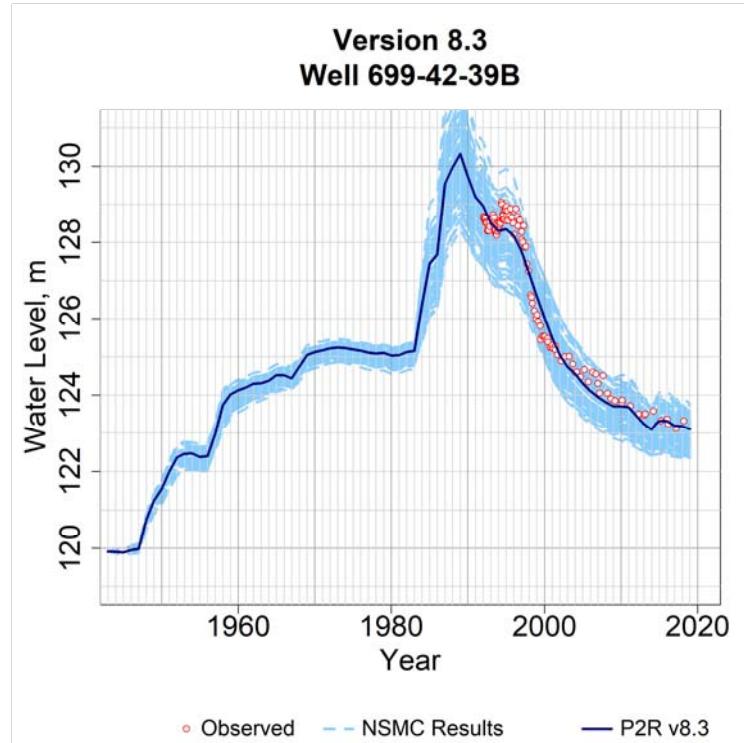


Figure B-617. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-39B for the calibrated model and all model variants from the NSMC.

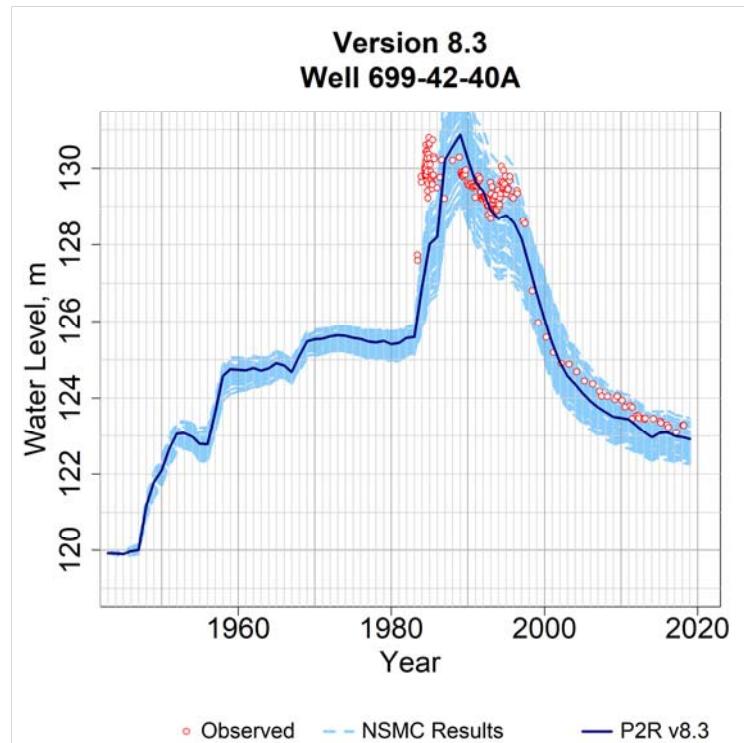


Figure B-618. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-40A for the calibrated model and all model variants from the NSMC.

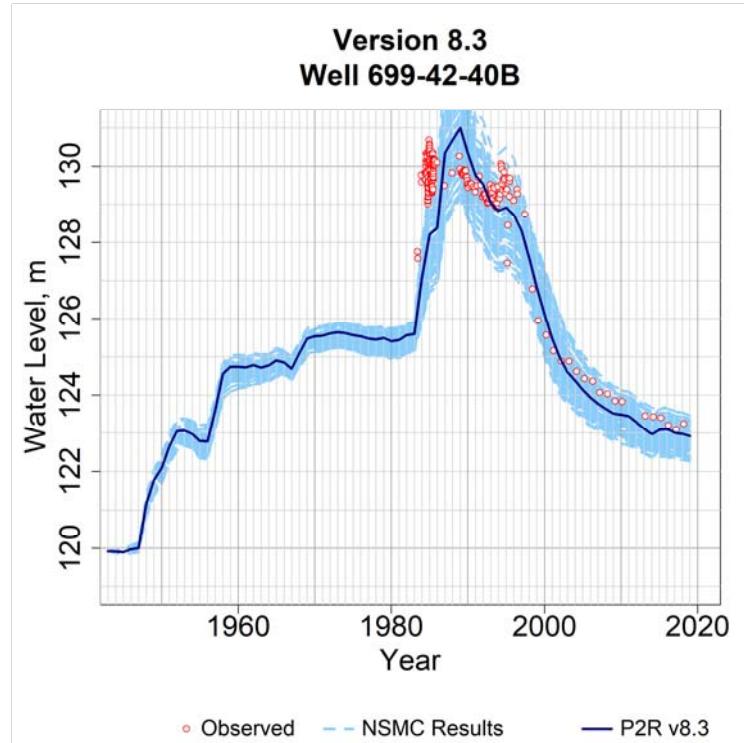


Figure B-619. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-40B for the calibrated model and all model variants from the NSMC.

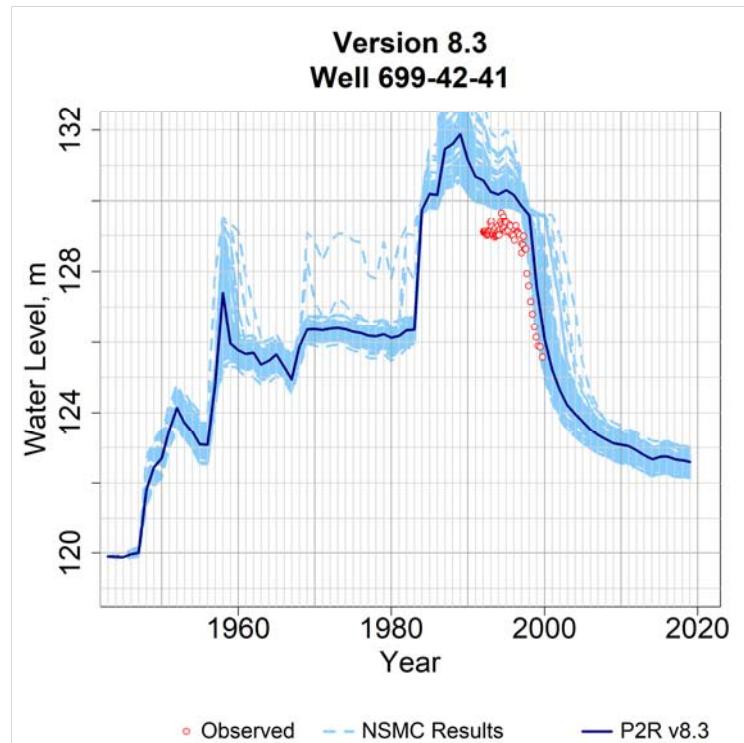


Figure B-620. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-41 for the calibrated model and all model variants from the NSMC.

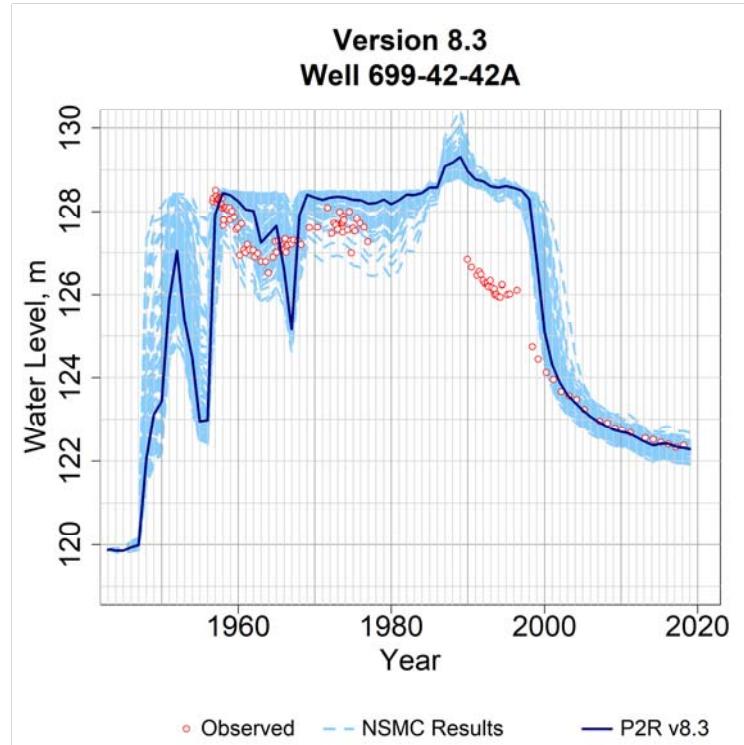


Figure B-621. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-42A for the calibrated model and all model variants from the NSMC.

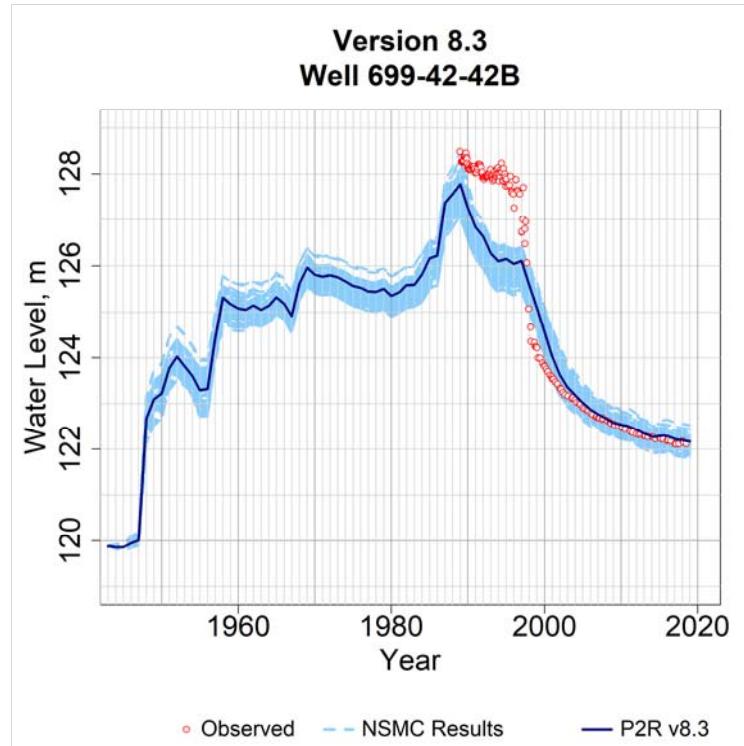


Figure B-622. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-42-42B for the calibrated model and all model variants from the NSMC.

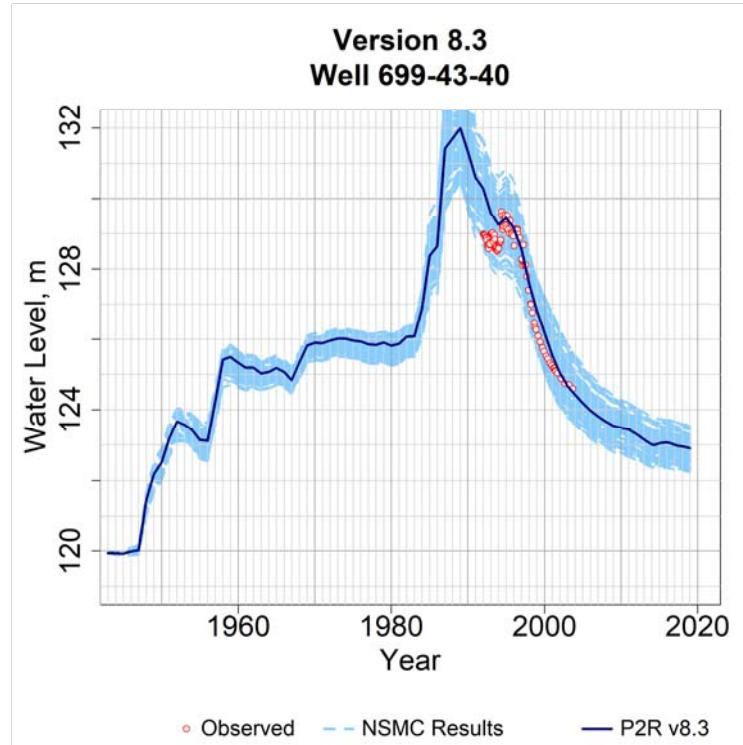


Figure B-623. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-43-40 for the calibrated model and all model variants from the NSMC.

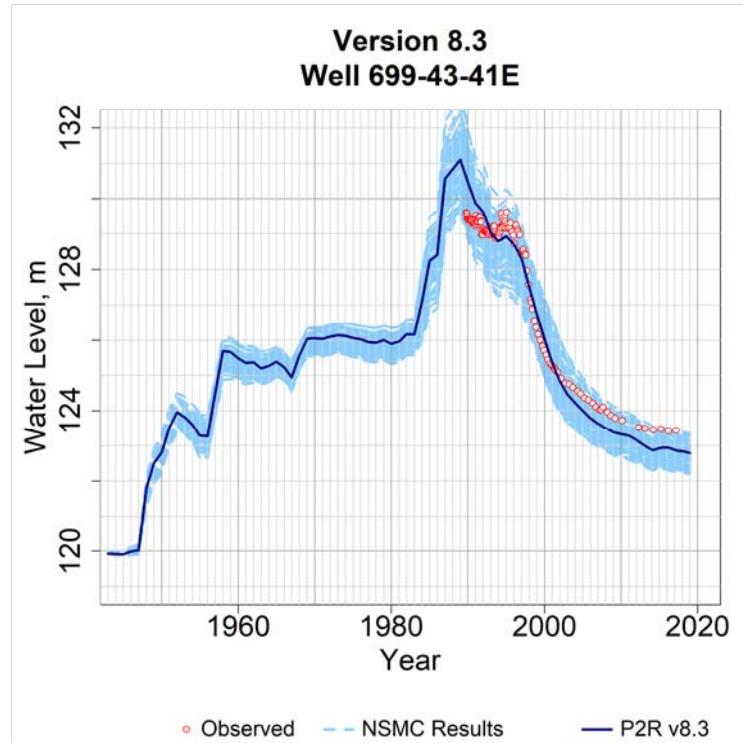


Figure B-624. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-43-41E for the calibrated model and all model variants from the NSMC.

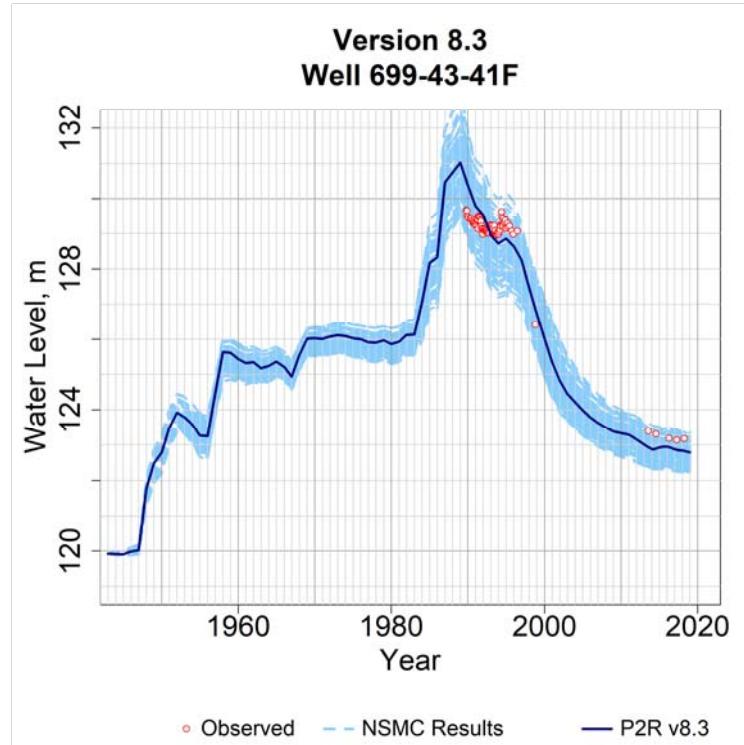


Figure B-625. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-43-41F for the calibrated model and all model variants from the NSMC.

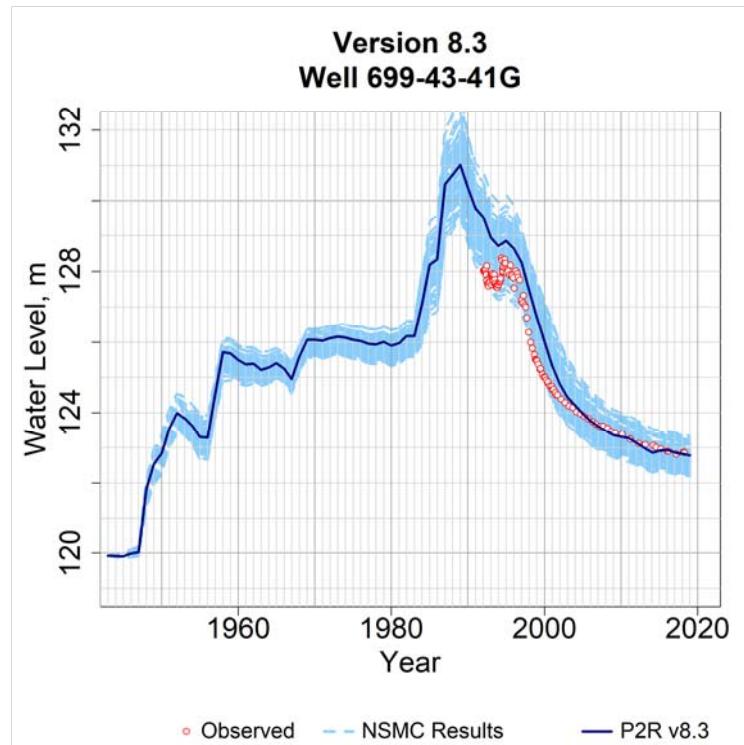


Figure B-626. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-43-41G for the calibrated model and all model variants from the NSMC.

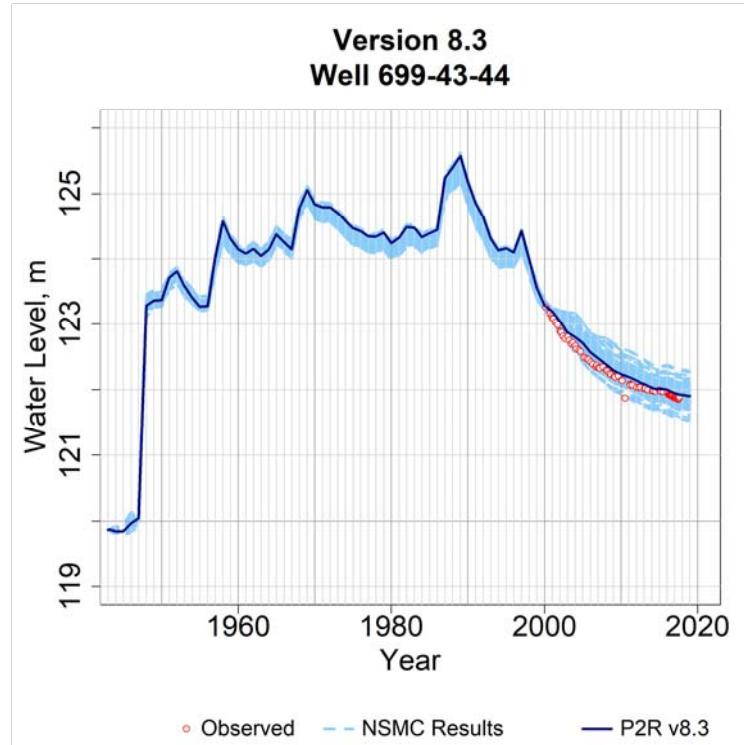


Figure B-627. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-43-44 for the calibrated model and all model variants from the NSMC.

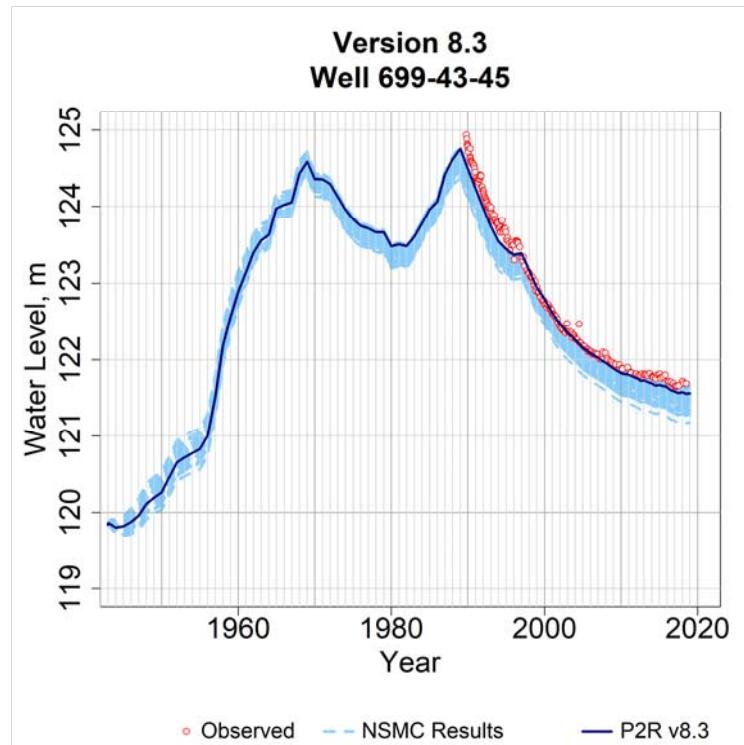


Figure B-628. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-43-45 for the calibrated model and all model variants from the NSMC.

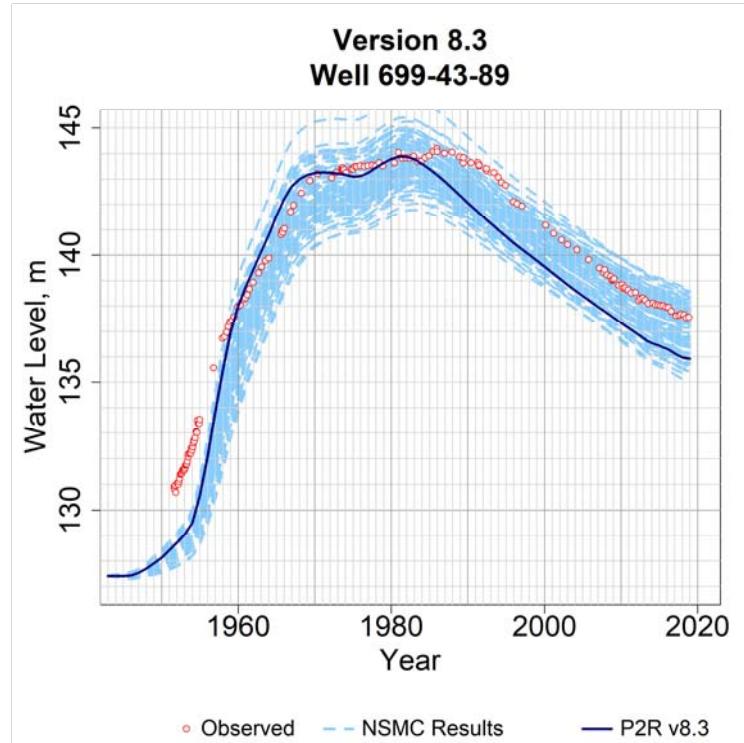


Figure B-629. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-43-89 for the calibrated model and all model variants from the NSMC.

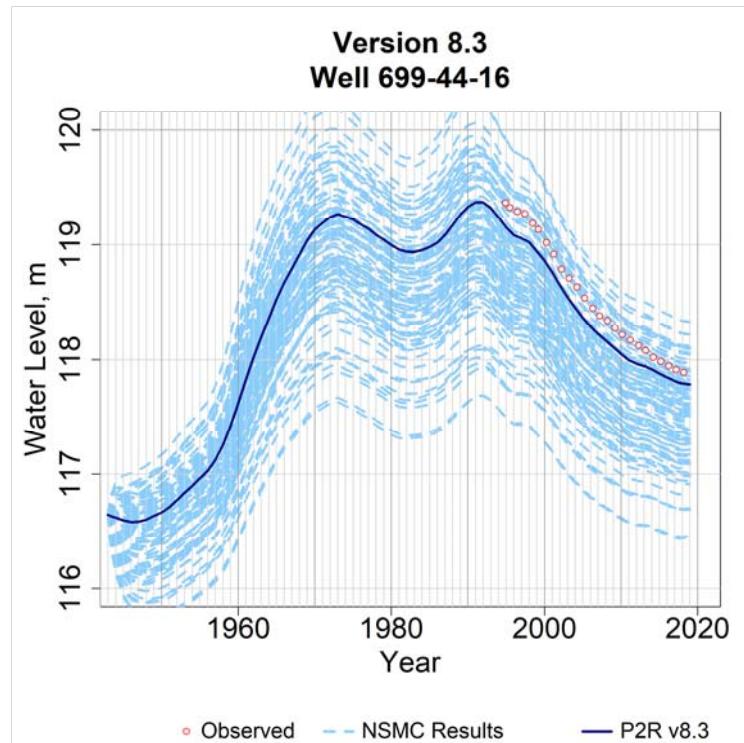


Figure B-630. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-44-16 for the calibrated model and all model variants from the NSMC.

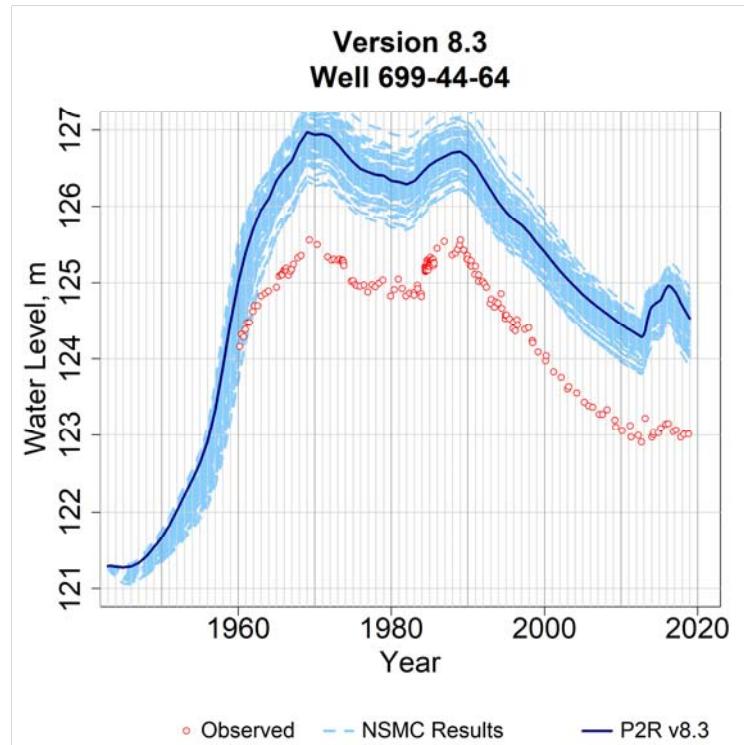


Figure B-631. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-44-64 for the calibrated model and all model variants from the NSMC.

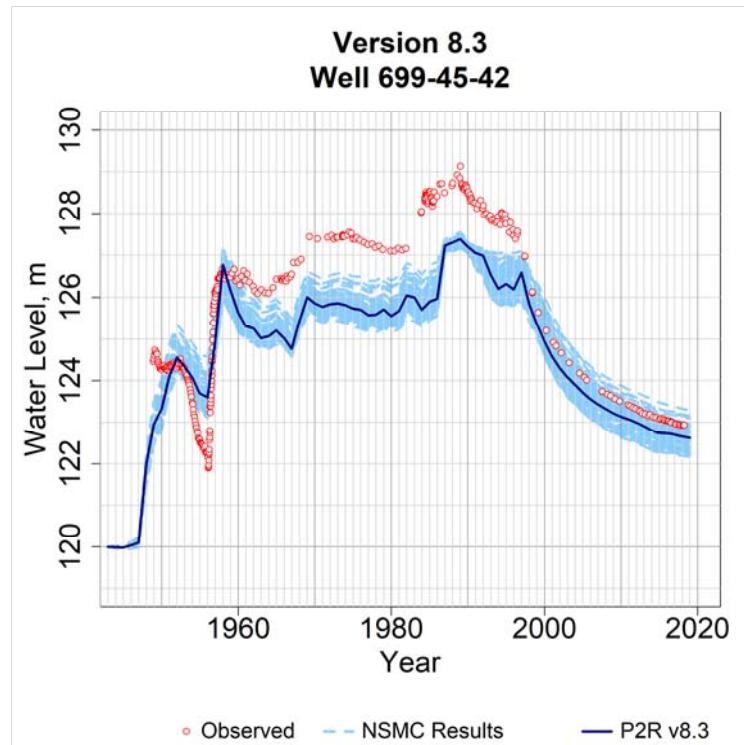


Figure B-632. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-45-42 for the calibrated model and all model variants from the NSMC.

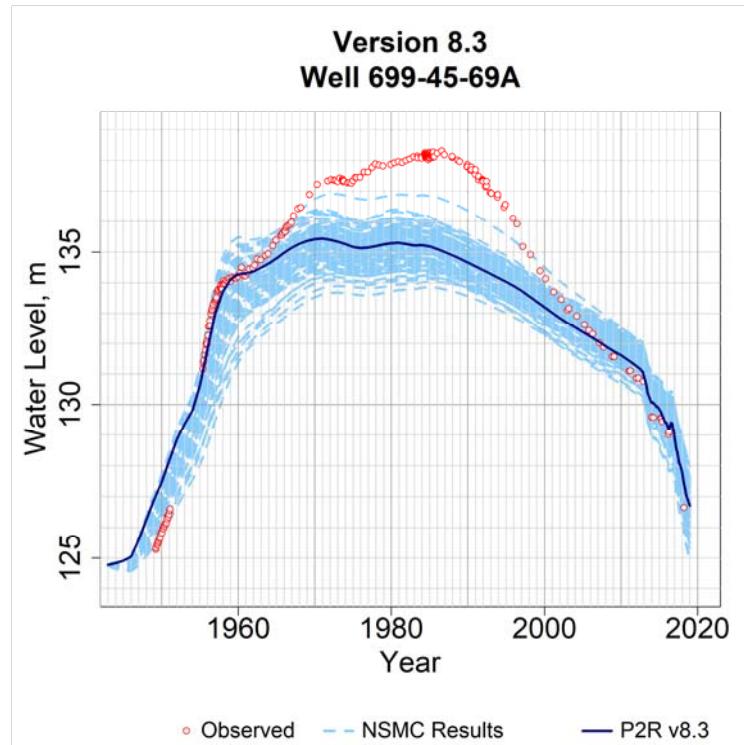


Figure B-633. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-45-69A for the calibrated model and all model variants from the NSMC.

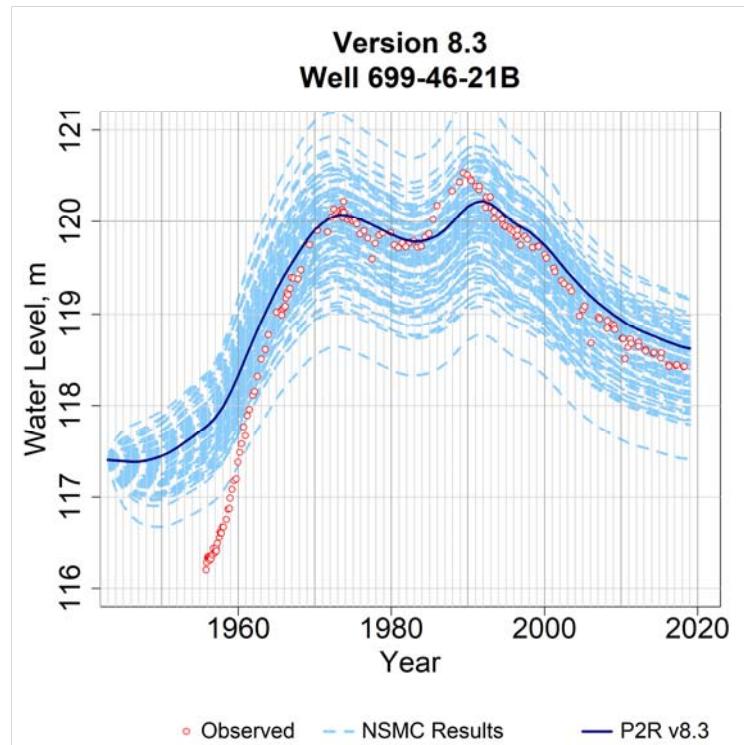


Figure B-634. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-46-21B for the calibrated model and all model variants from the NSMC.

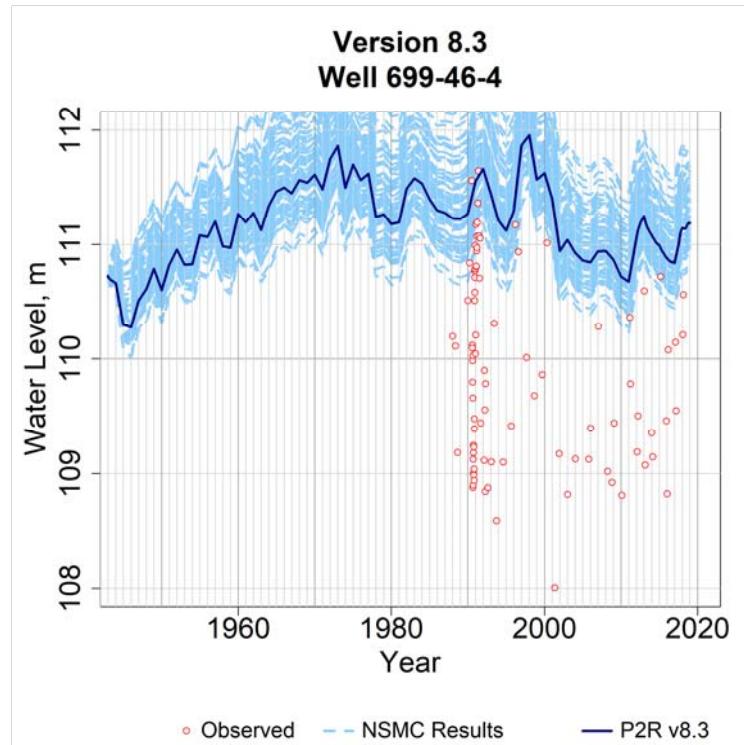


Figure B-635. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-46-4 for the calibrated model and all model variants from the NSMC.

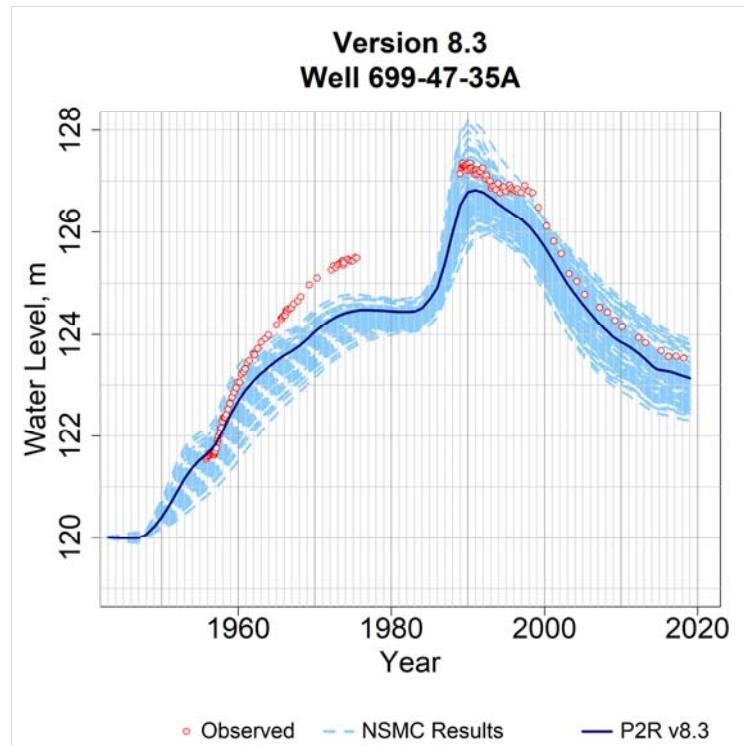


Figure B-636. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-47-35A for the calibrated model and all model variants from the NSMC.

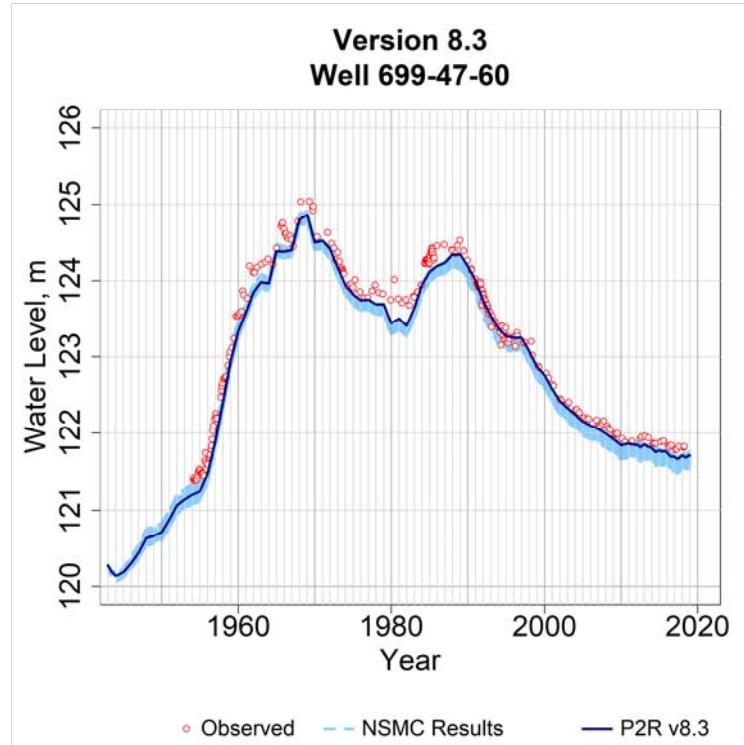


Figure B-637. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-47-60 for the calibrated model and all model variants from the NSMC.

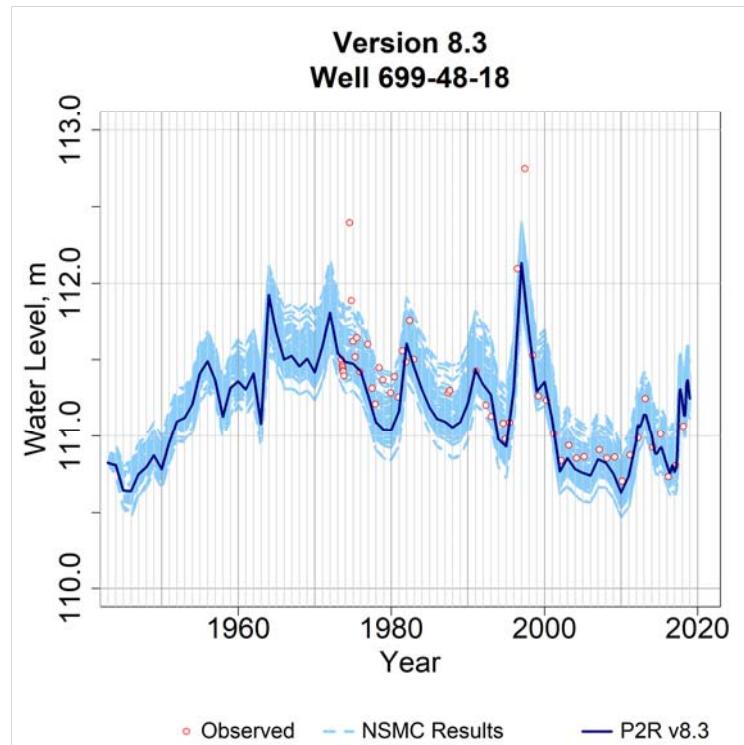


Figure B-638. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-48-18 for the calibrated model and all model variants from the NSMC.

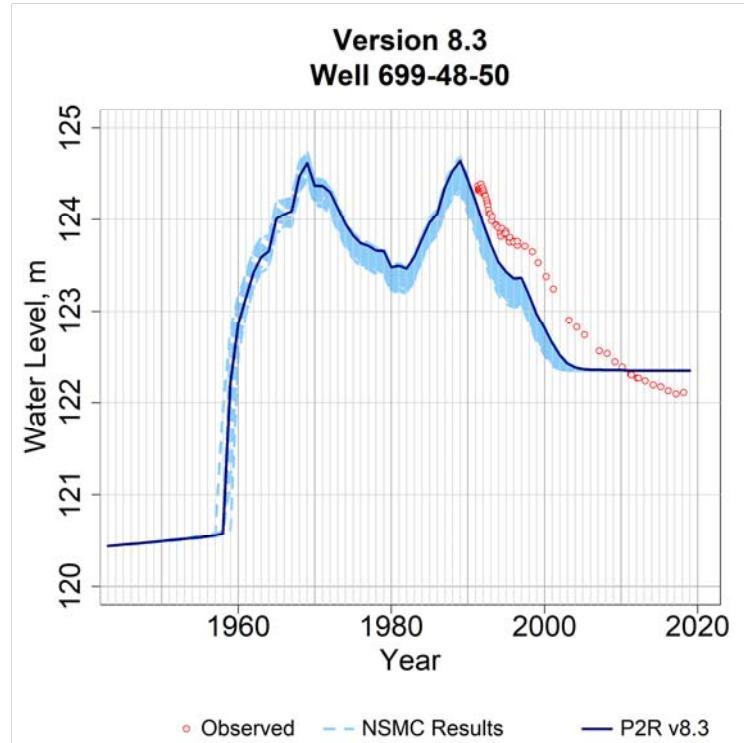


Figure B-639. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-48-50 for the calibrated model and all model variants from the NSMC.

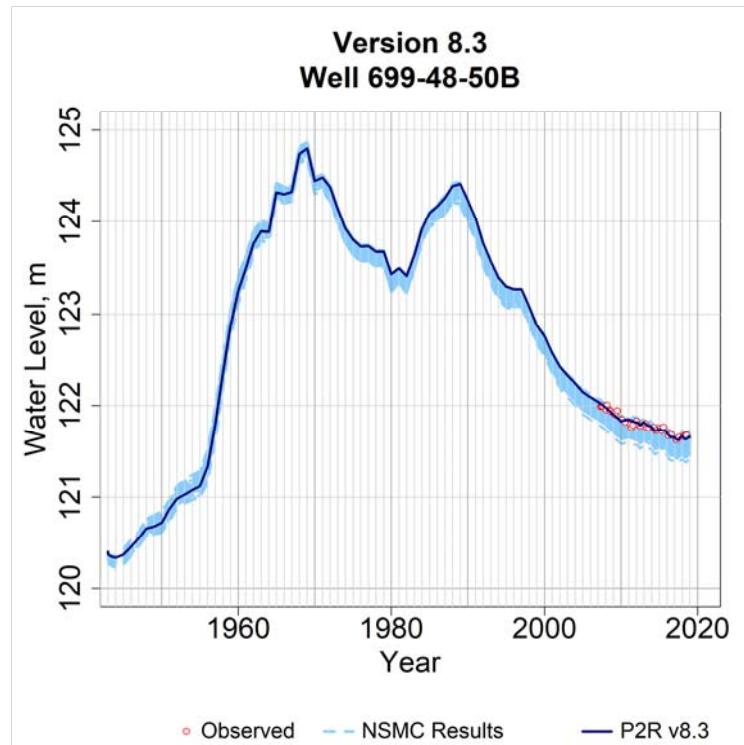


Figure B-640. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-48-50B for the calibrated model and all model variants from the NSMC.

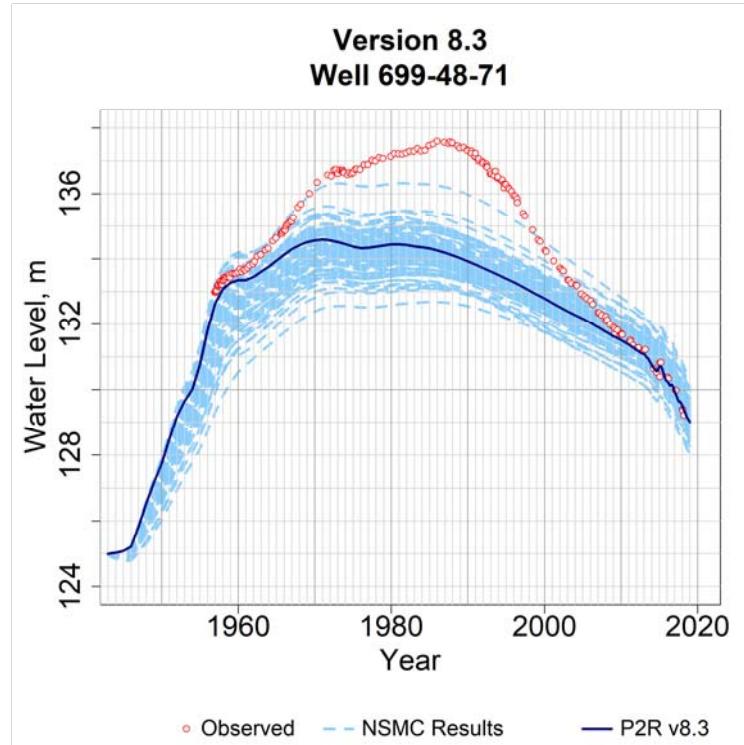


Figure B-641. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-48-71 for the calibrated model and all model variants from the NSMC.

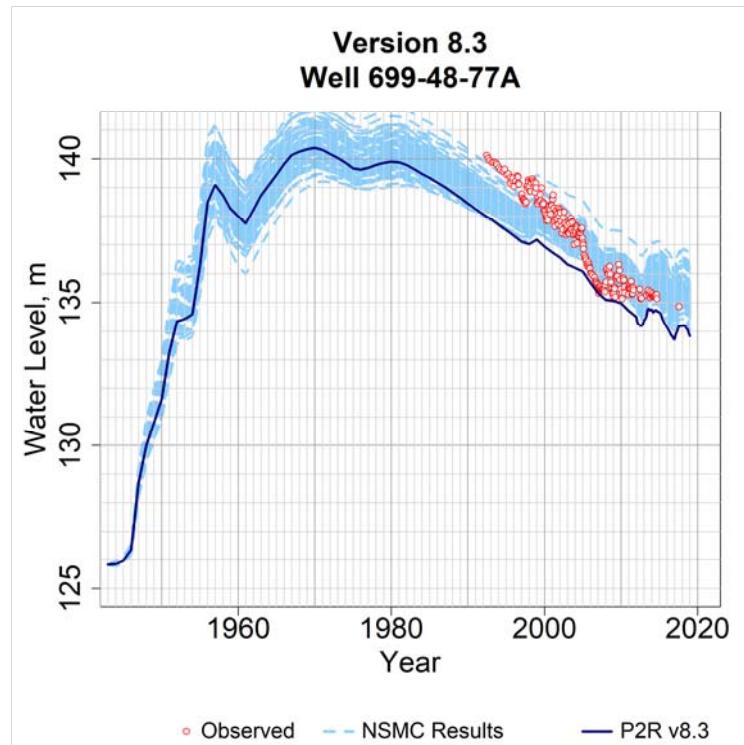


Figure B-642. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-48-77A for the calibrated model and all model variants from the NSMC.

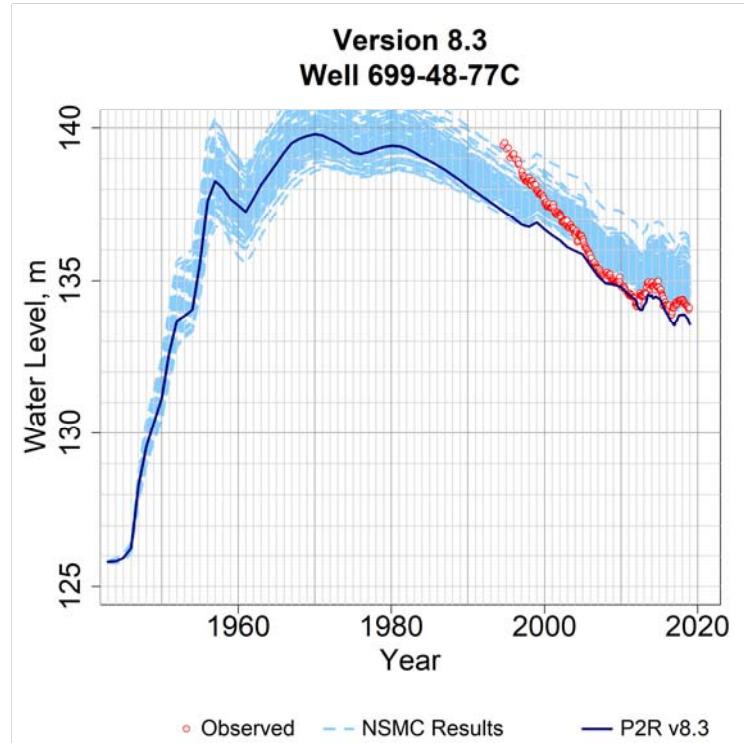


Figure B-643. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-48-77C for the calibrated model and all model variants from the NSMC.

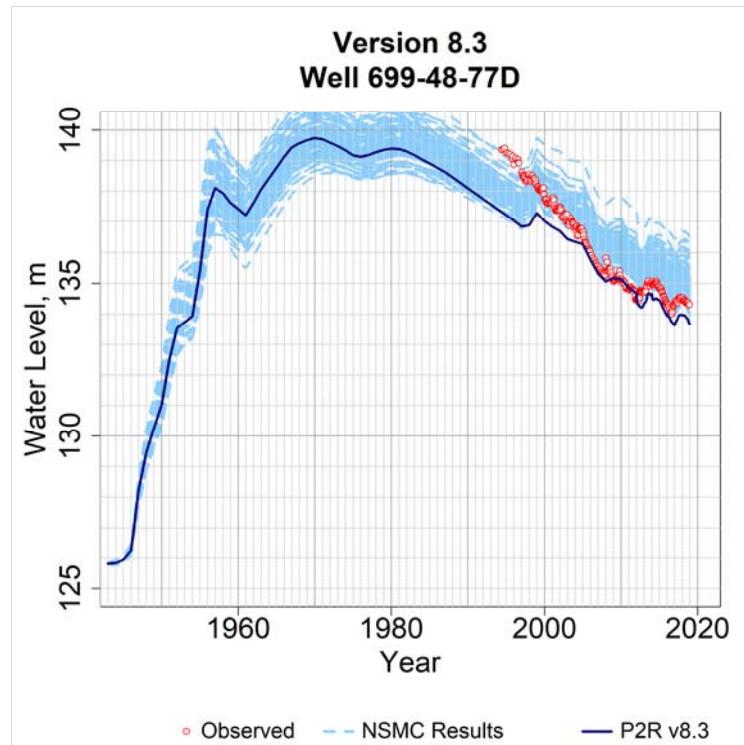


Figure B-644. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-48-77D for the calibrated model and all model variants from the NSMC.

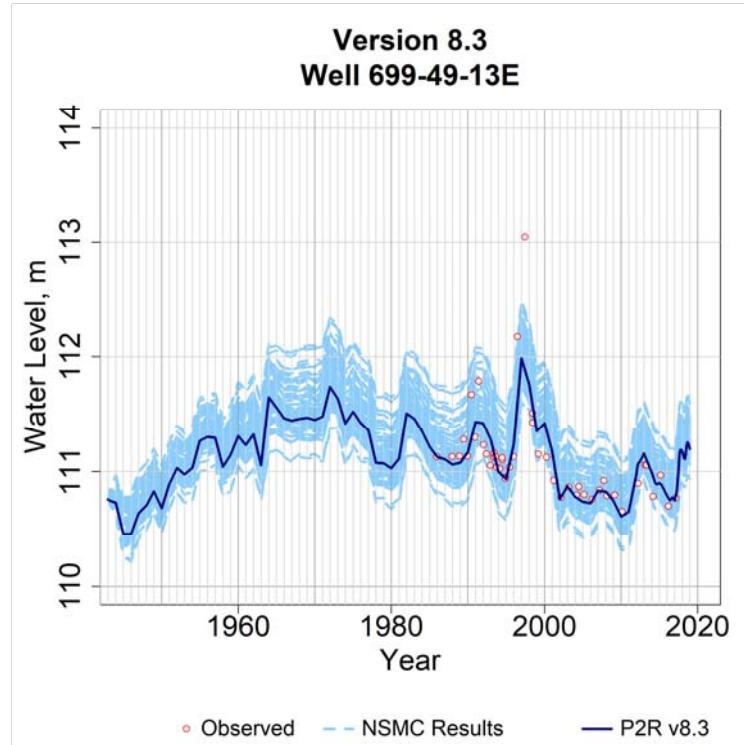


Figure B-645. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-49-13E for the calibrated model and all model variants from the NSMC.

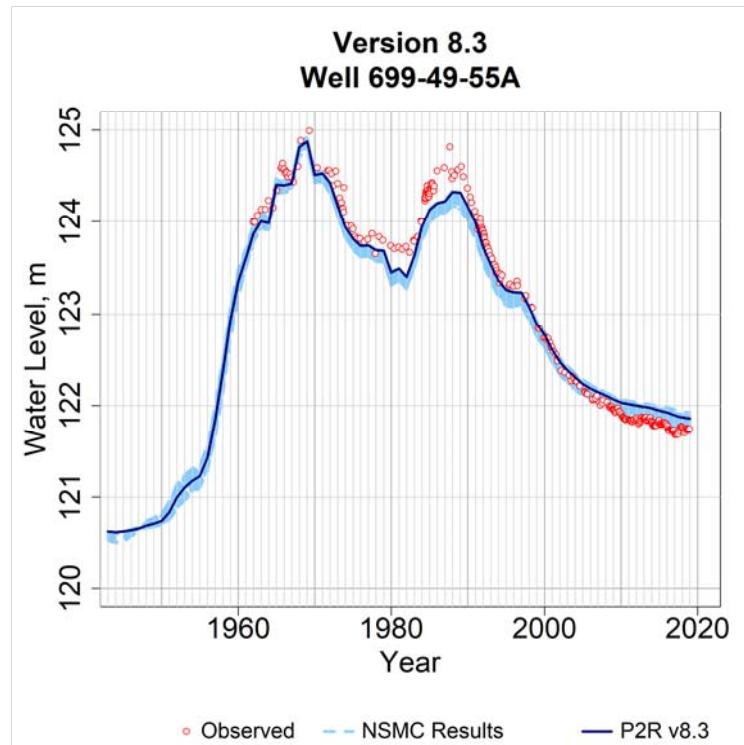


Figure B-646. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-49-55A for the calibrated model and all model variants from the NSMC.

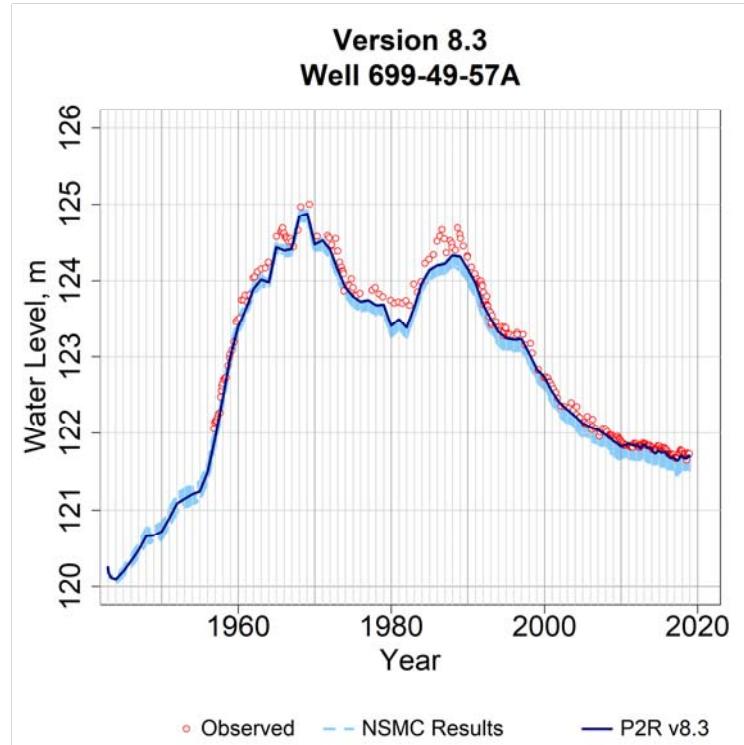


Figure B-647. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-49-57A for the calibrated model and all model variants from the NSMC.

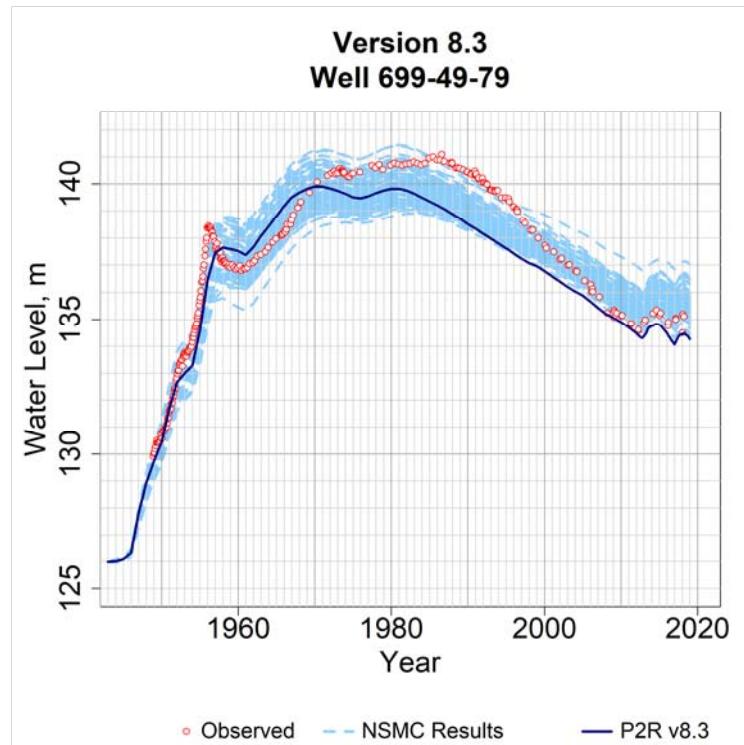


Figure B-648. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-49-79 for the calibrated model and all model variants from the NSMC.

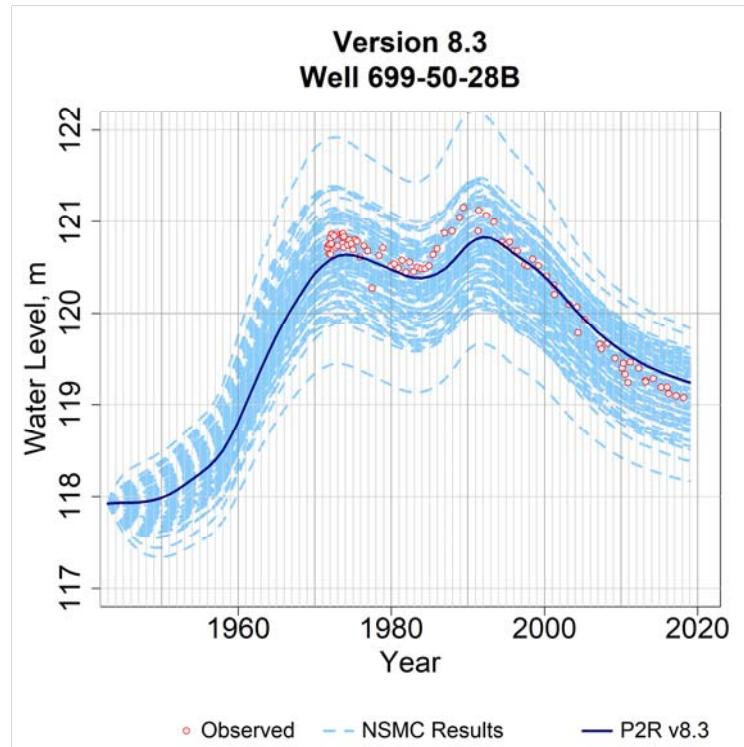


Figure B-649. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-50-28B for the calibrated model and all model variants from the NSMC.

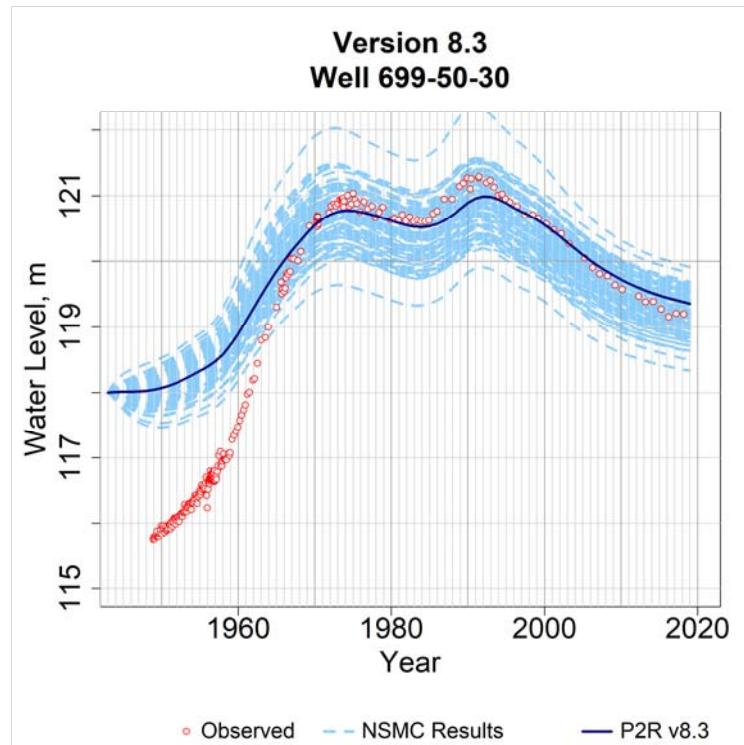


Figure B-650. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-50-30 for the calibrated model and all model variants from the NSMC.

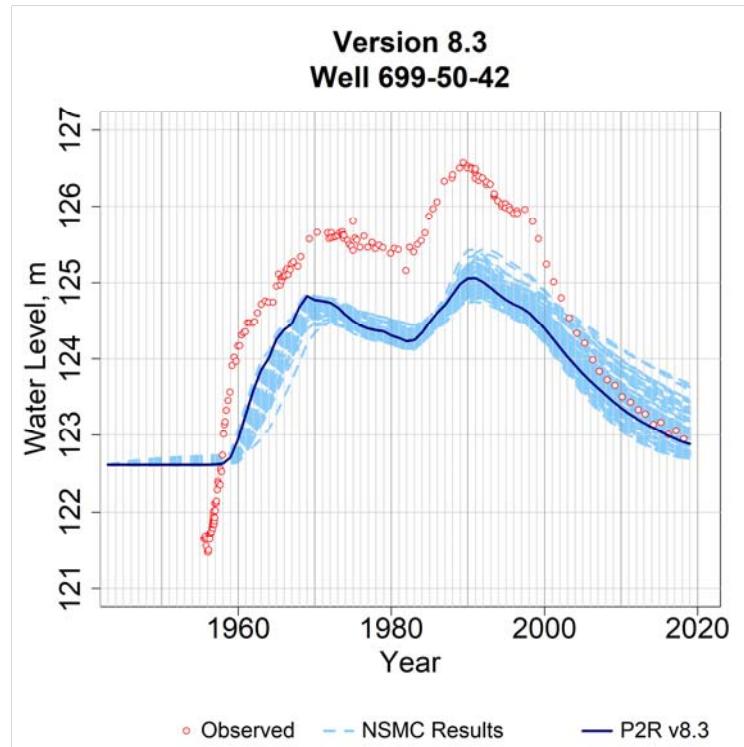


Figure B-651. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-50-42 for the calibrated model and all model variants from the NSMC.

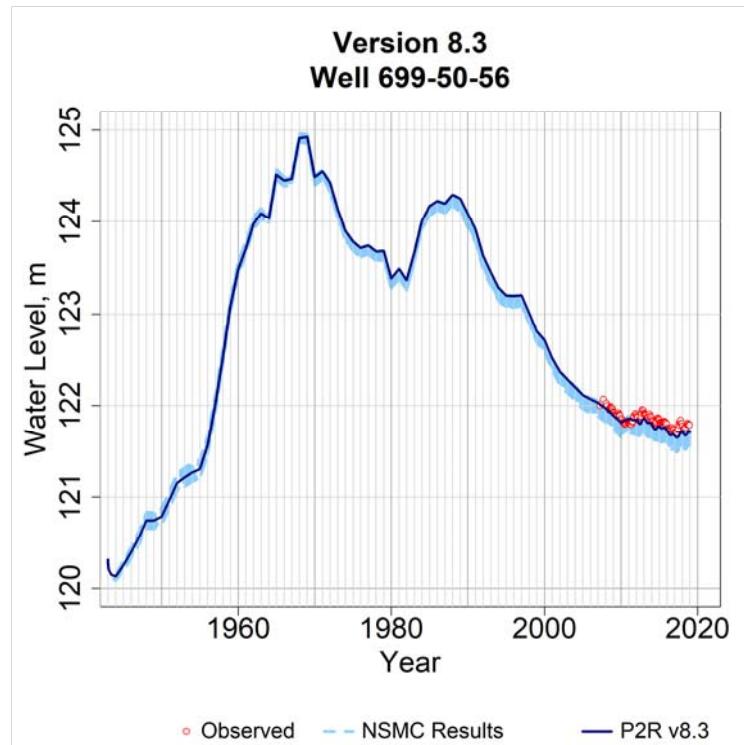


Figure B-652. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-50-56 for the calibrated model and all model variants from the NSMC.

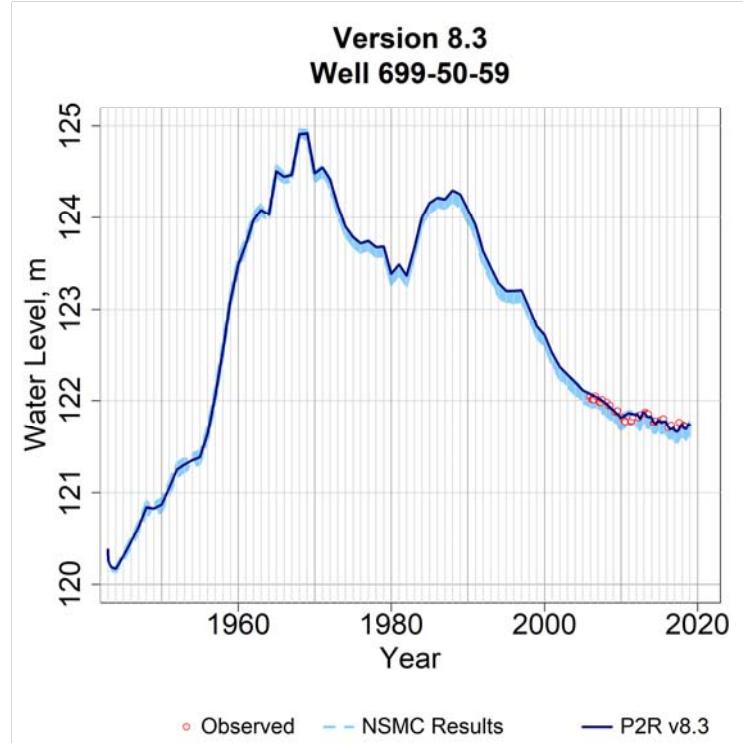


Figure B-653. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-50-59 for the calibrated model and all model variants from the NSMC.

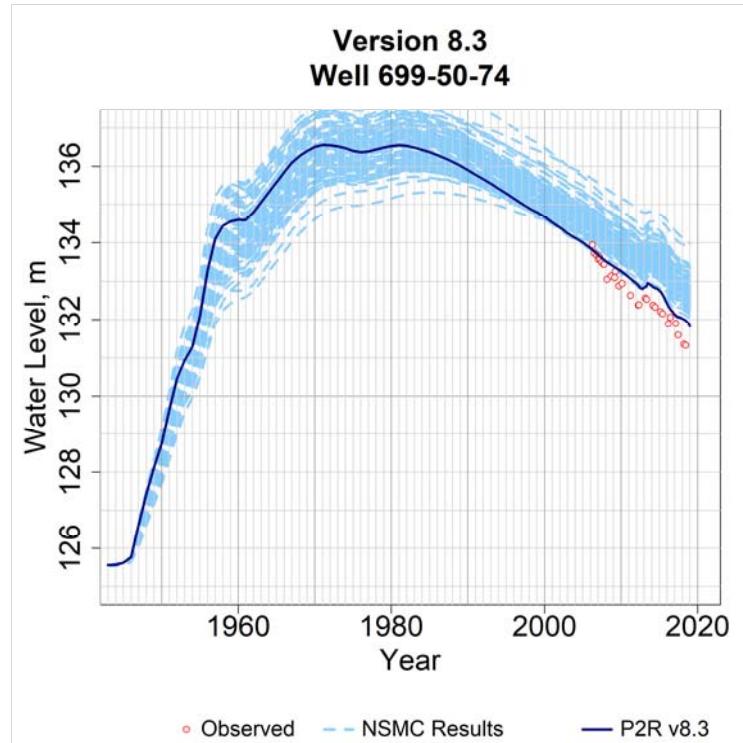


Figure B-654. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-50-74 for the calibrated model and all model variants from the NSMC.

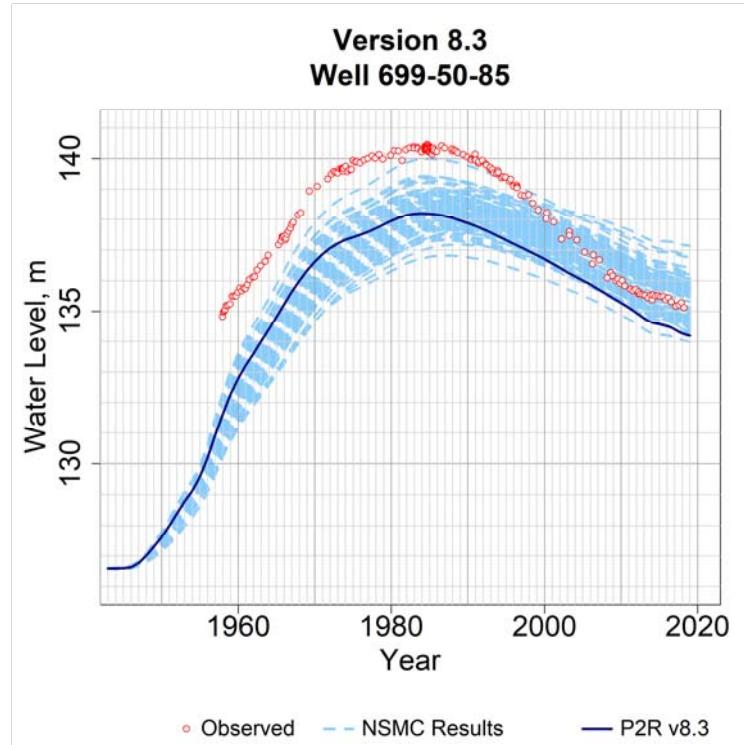


Figure B-655. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-50-85 for the calibrated model and all model variants from the NSMC.

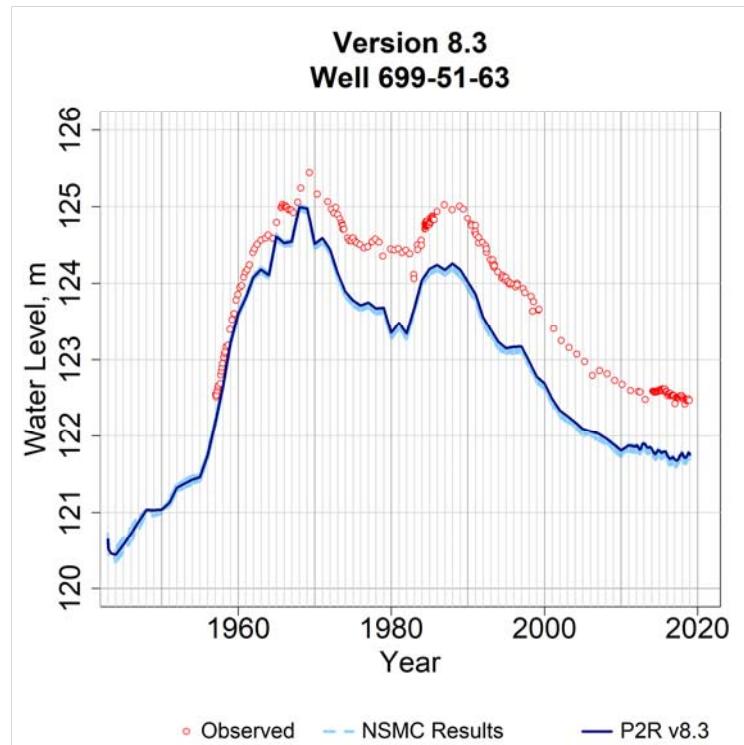


Figure B-656. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-51-63 for the calibrated model and all model variants from the NSMC.

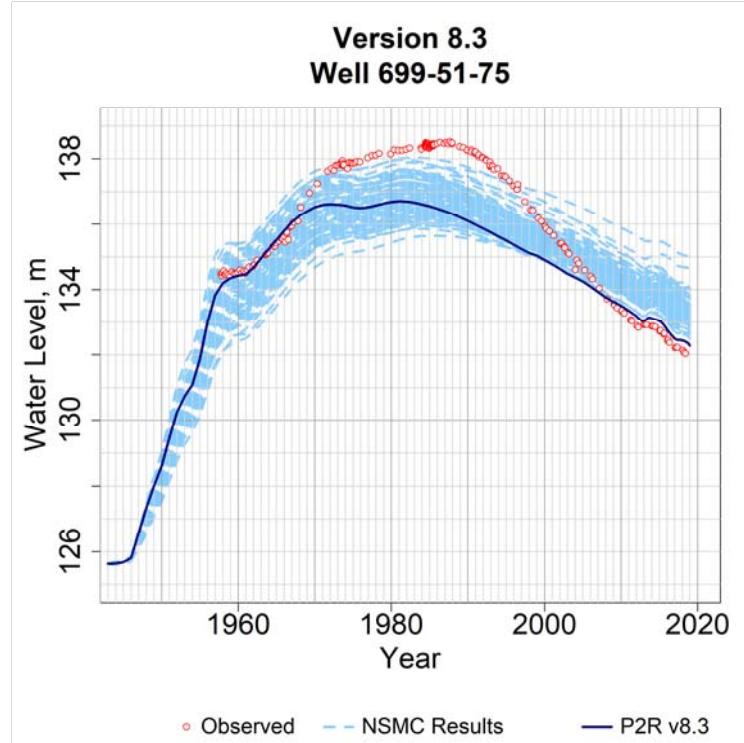


Figure B-657. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-51-75 for the calibrated model and all model variants from the NSMC.

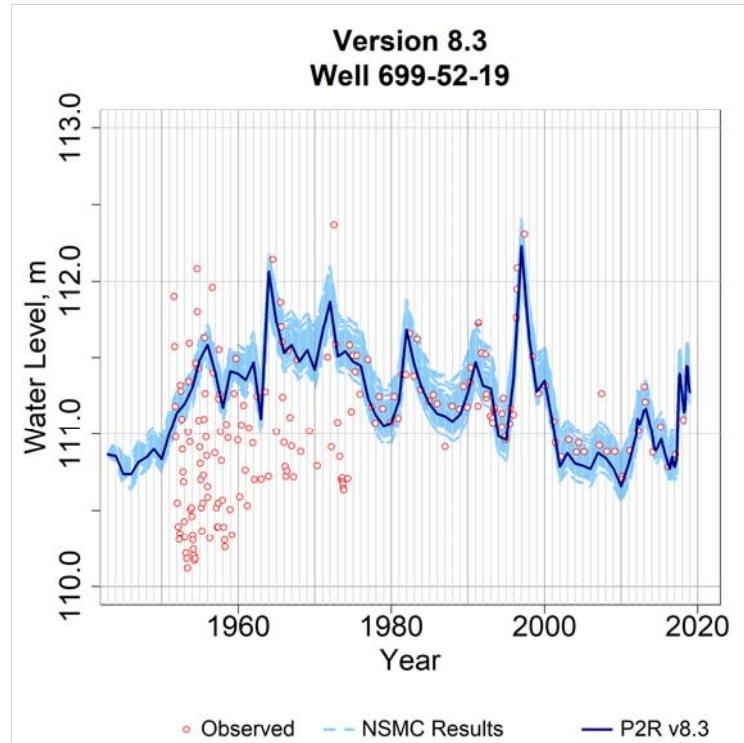


Figure B-658. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-52-19 for the calibrated model and all model variants from the NSMC.

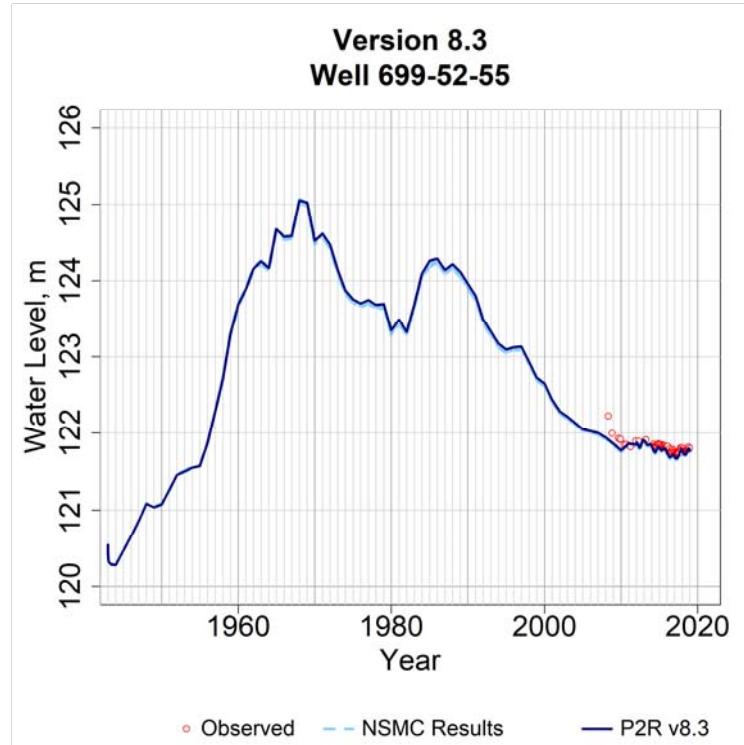


Figure B-659. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-52-55 for the calibrated model and all model variants from the NSMC.

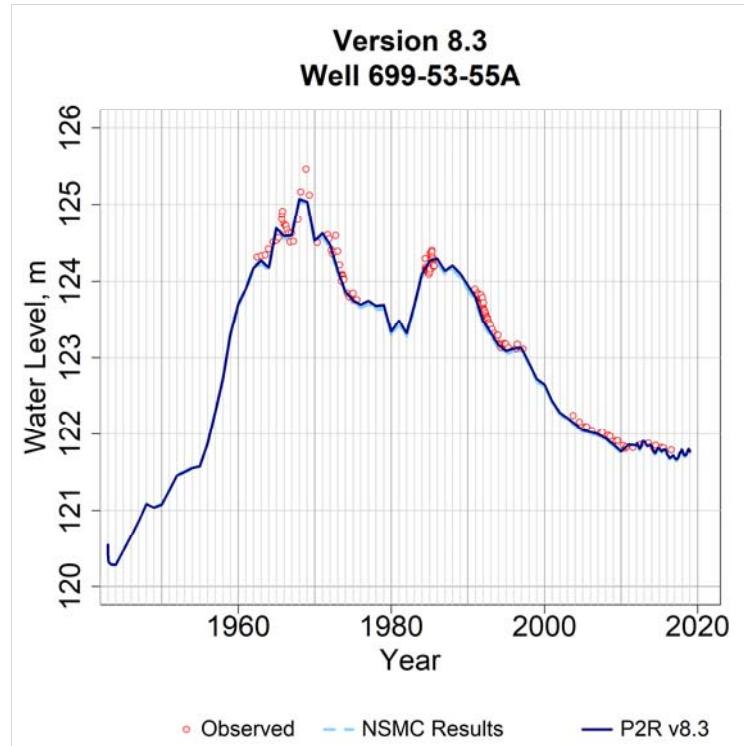


Figure B-660. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-53-55A for the calibrated model and all model variants from the NSMC.

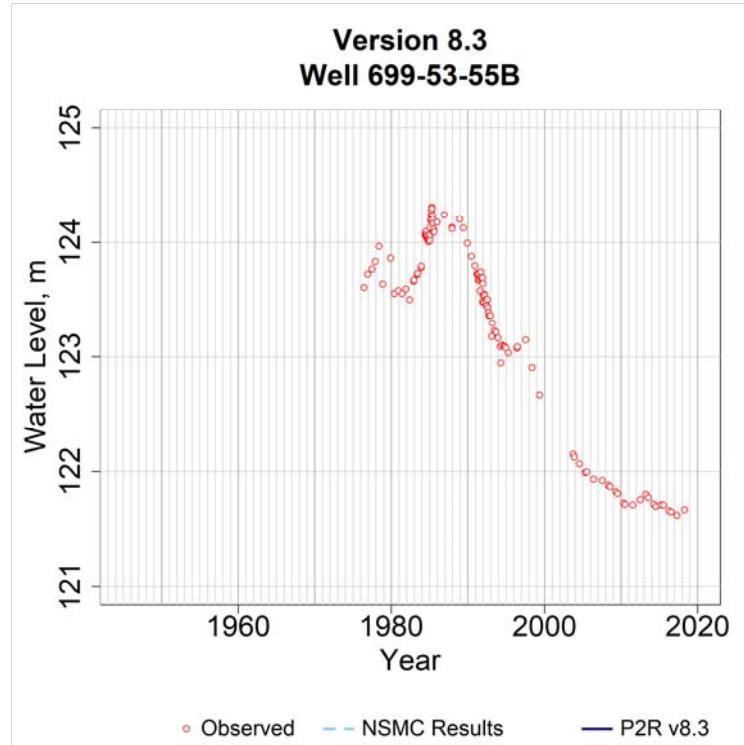


Figure B-661. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-53-55B for the calibrated model and all model variants from the NSMC.

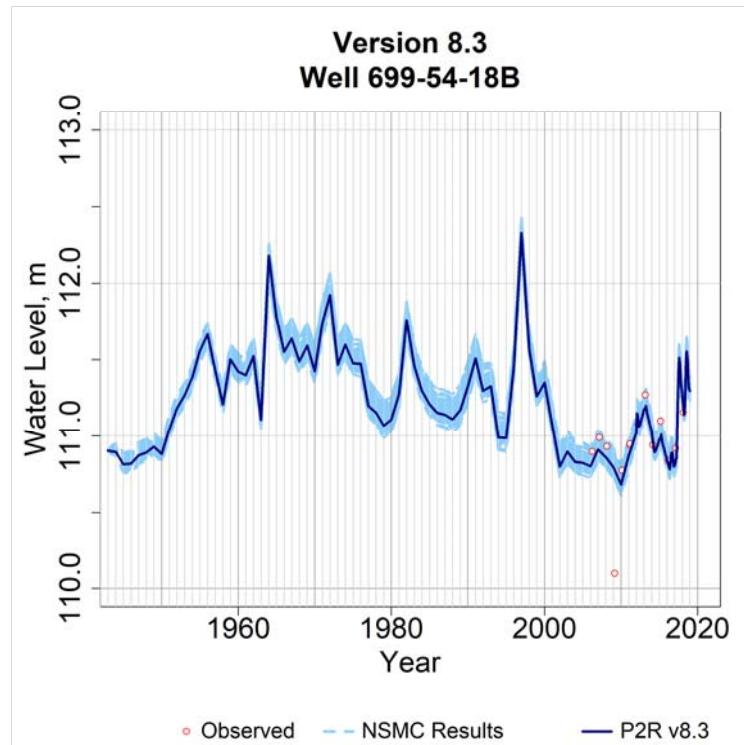


Figure B-662. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-54-18B for the calibrated model and all model variants from the NSMC.

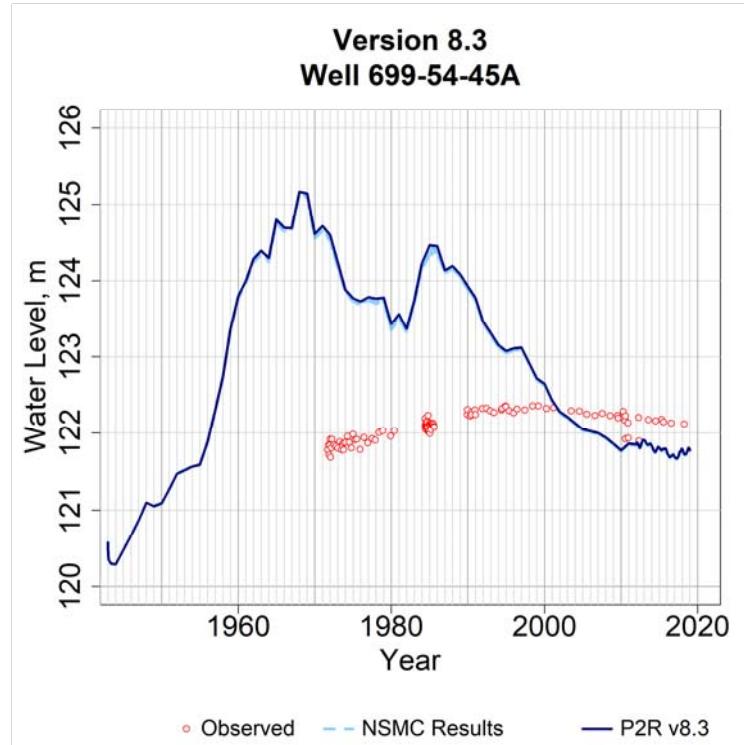


Figure B-663. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-54-45A for the calibrated model and all model variants from the NSMC.

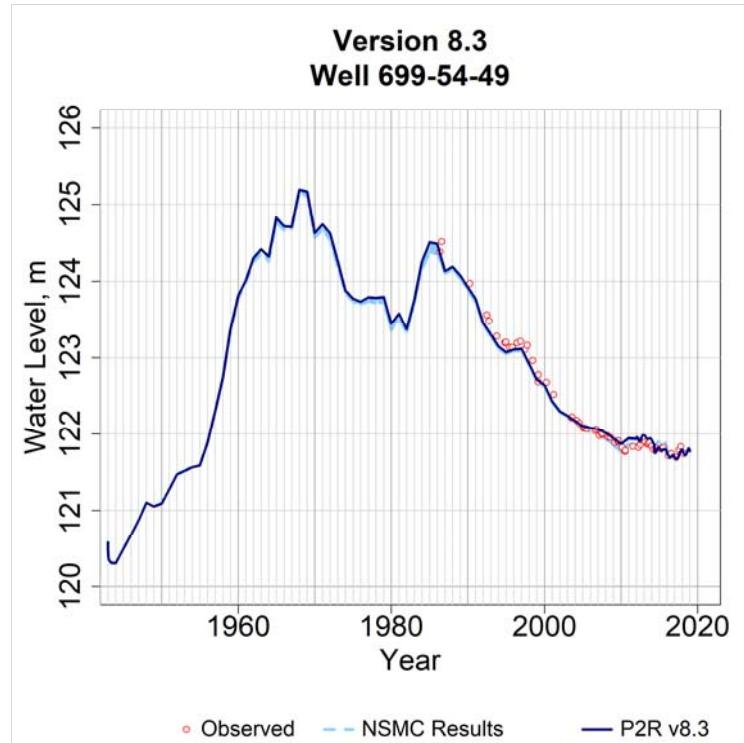


Figure B-664. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-54-49 for the calibrated model and all model variants from the NSMC.

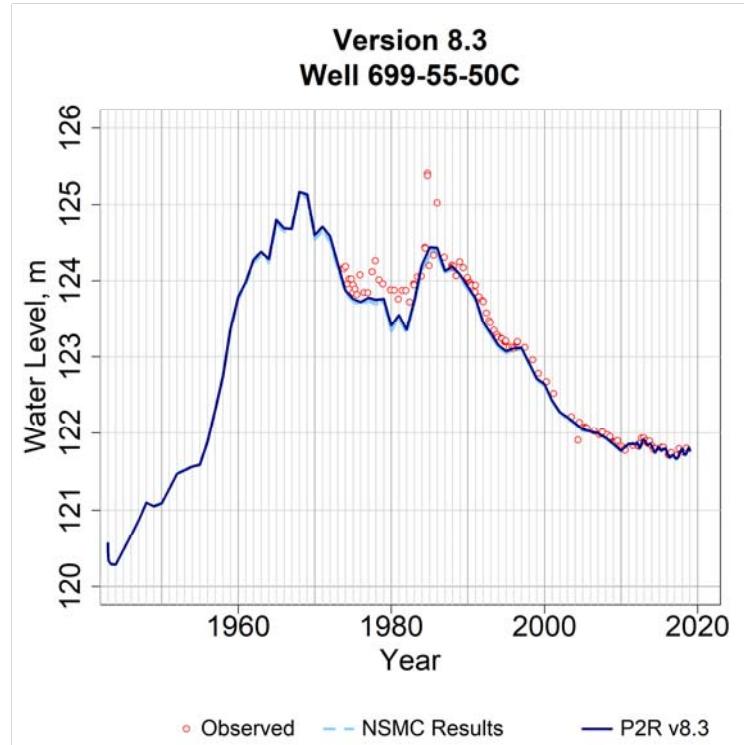


Figure B-665. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-55-50C for the calibrated model and all model variants from the NSMC.

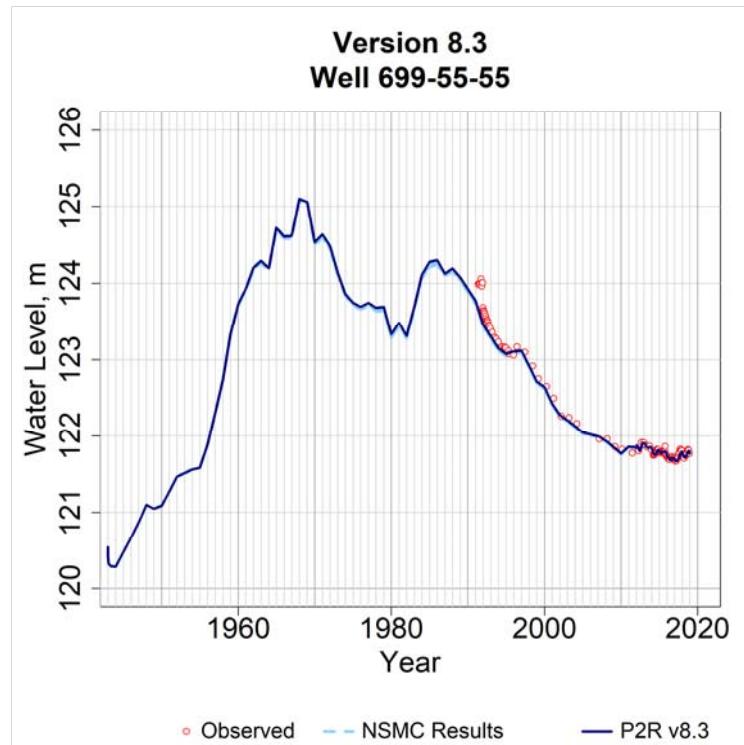


Figure B-666. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-55-55 for the calibrated model and all model variants from the NSMC.

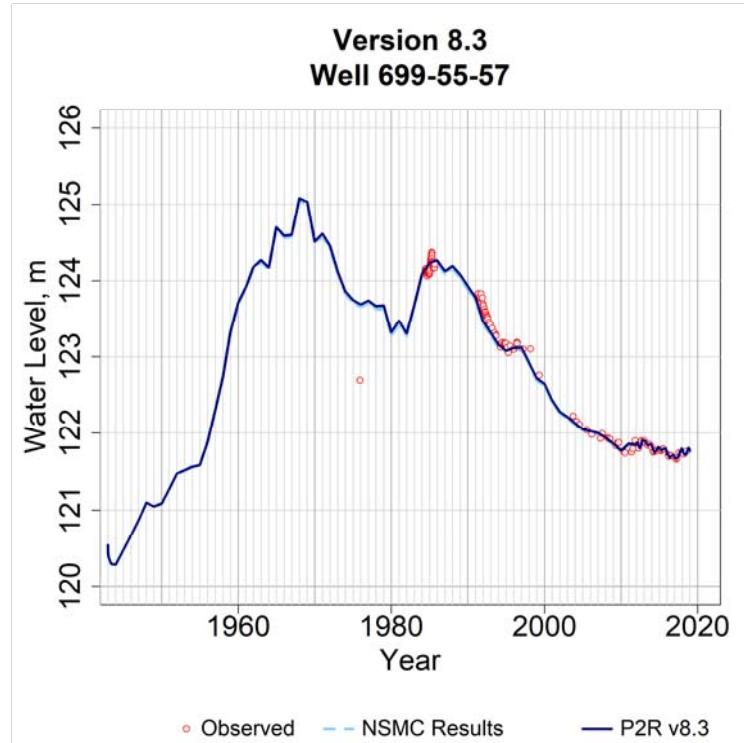


Figure B-667. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-55-57 for the calibrated model and all model variants from the NSMC.

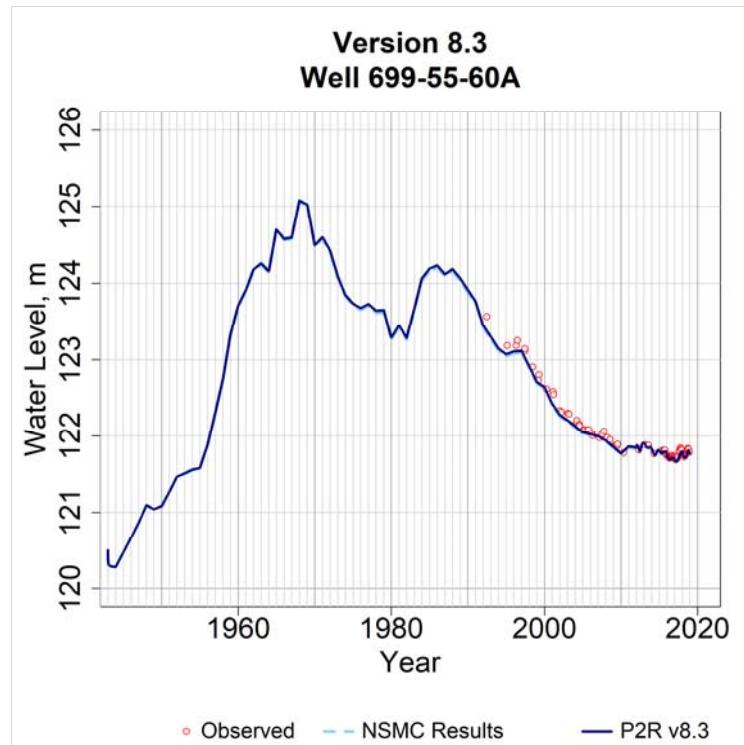


Figure B-668. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-55-60A for the calibrated model and all model variants from the NSMC.

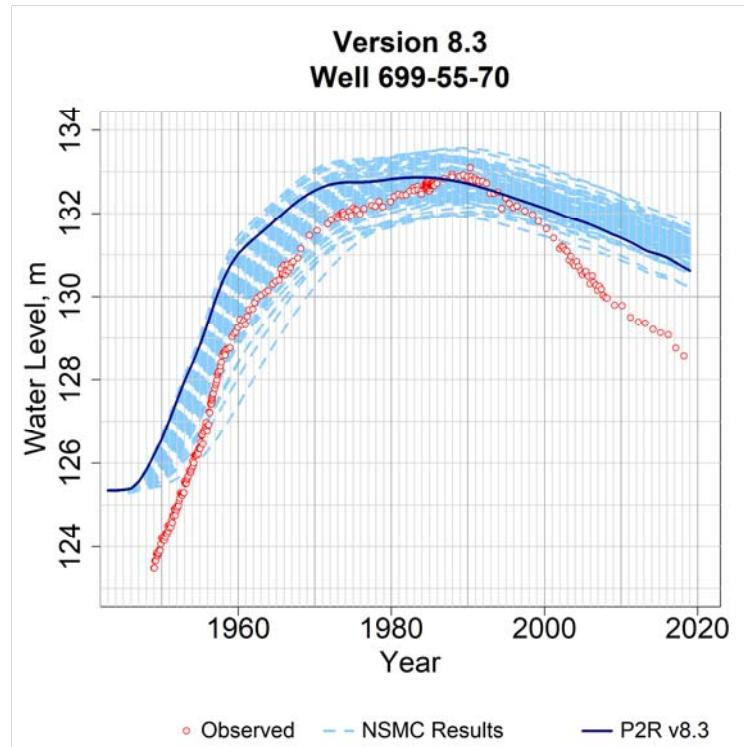


Figure B-669. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-55-70 for the calibrated model and all model variants from the NSMC.

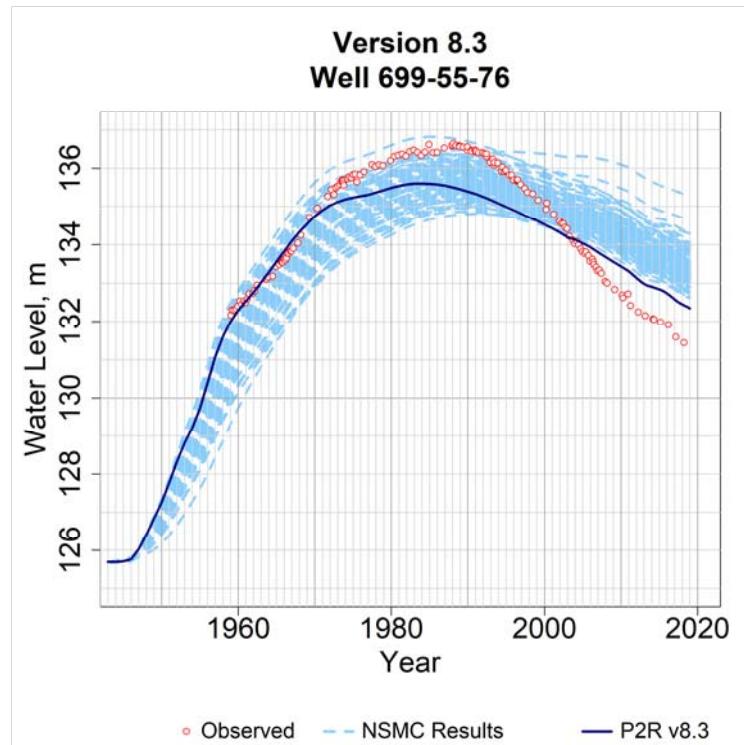


Figure B-670. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-55-76 for the calibrated model and all model variants from the NSMC.

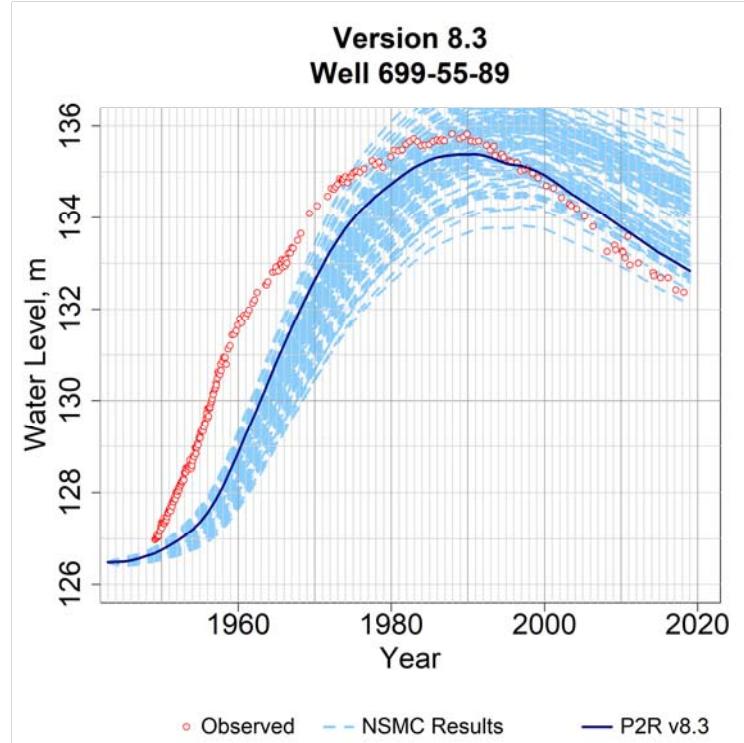


Figure B-671. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-55-89 for the calibrated model and all model variants from the NSMC.

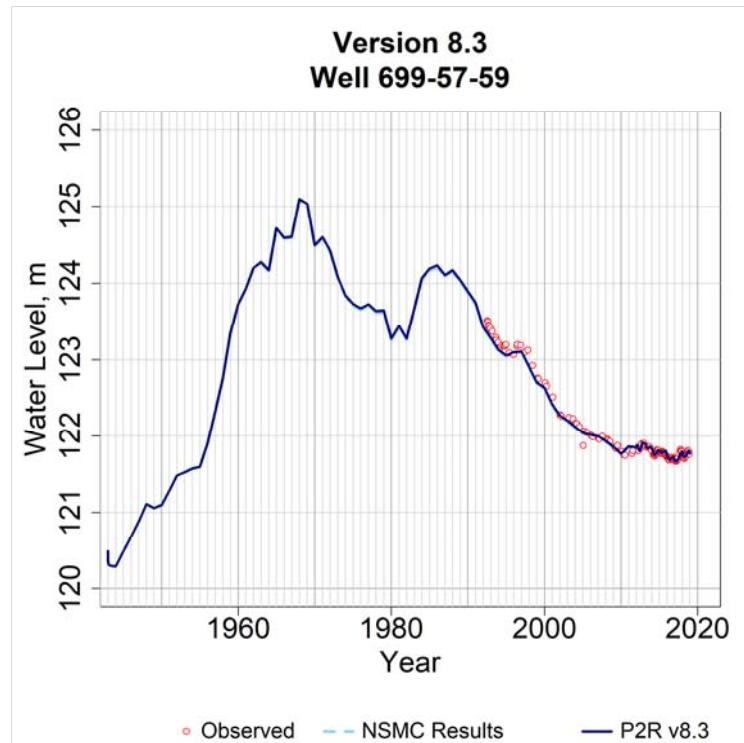


Figure B-672. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-57-59 for the calibrated model and all model variants from the NSMC.

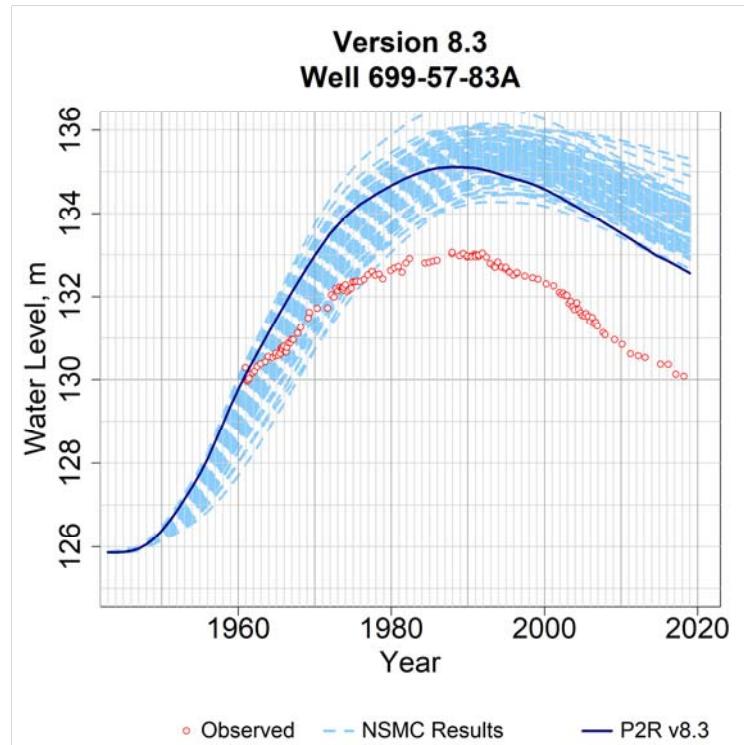


Figure B-673. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-57-83A for the calibrated model and all model variants from the NSMC.

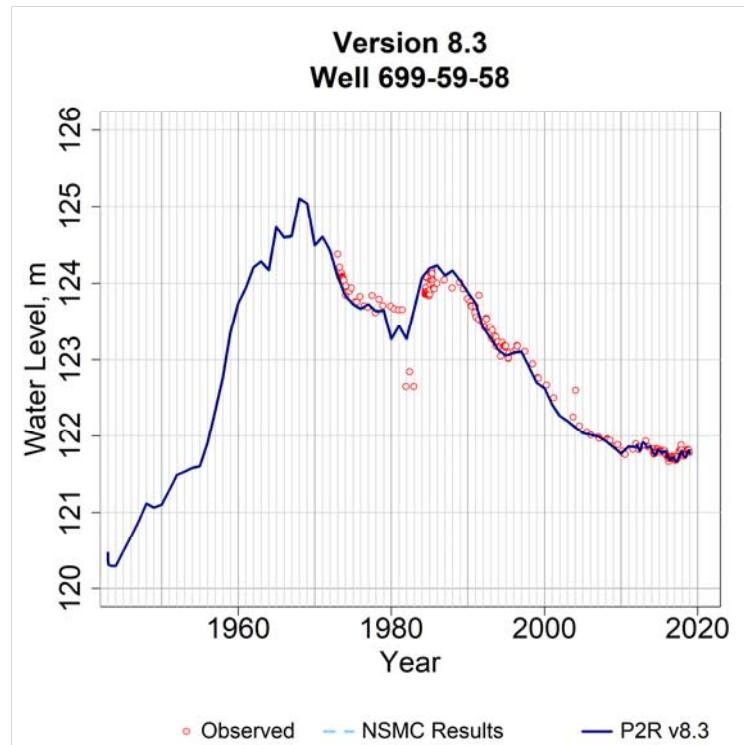


Figure B-674. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-59-58 for the calibrated model and all model variants from the NSMC.

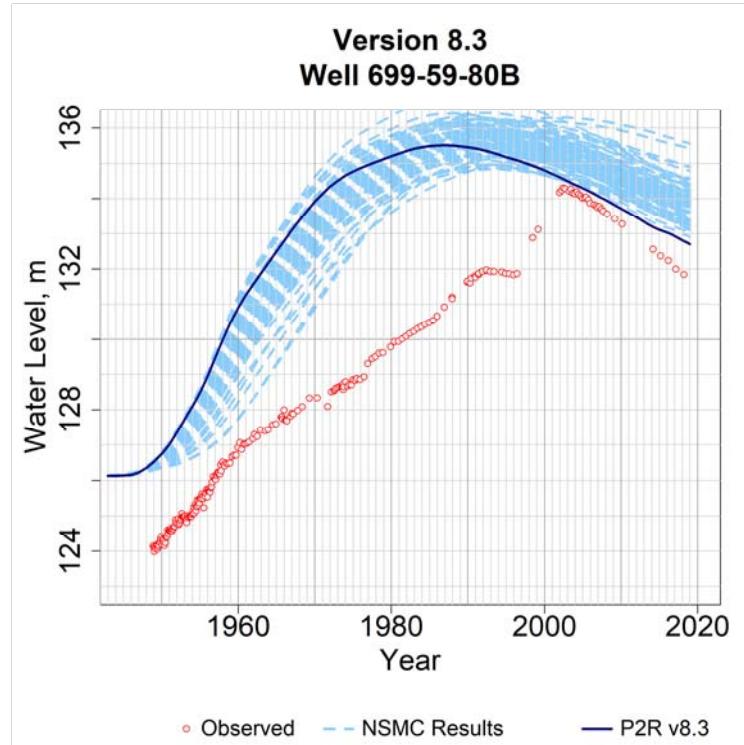


Figure B-675. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-59-80B for the calibrated model and all model variants from the NSMC.

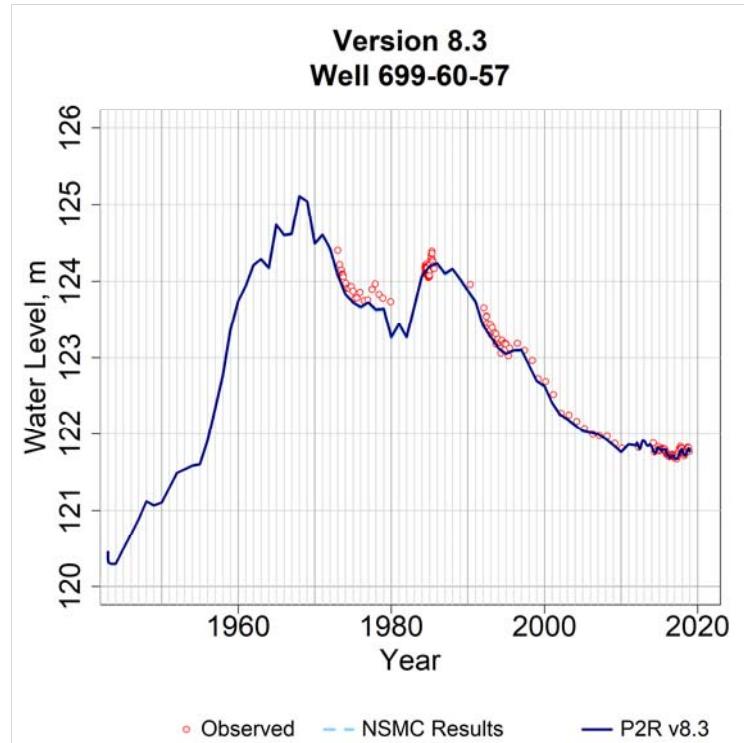


Figure B-676. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-60-57 for the calibrated model and all model variants from the NSMC.

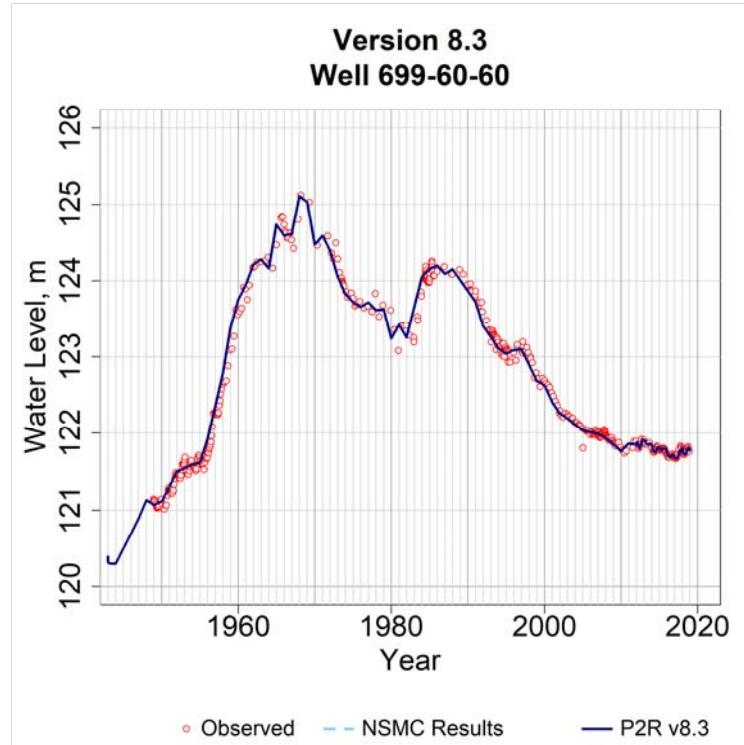


Figure B-677. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-60-60 for the calibrated model and all model variants from the NSMC.

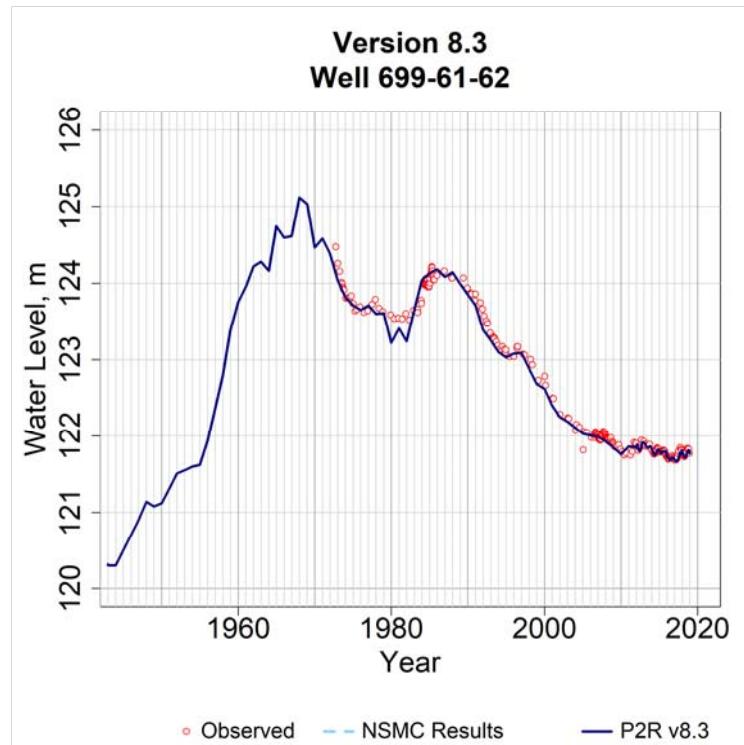


Figure B-678. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-61-62 for the calibrated model and all model variants from the NSMC.

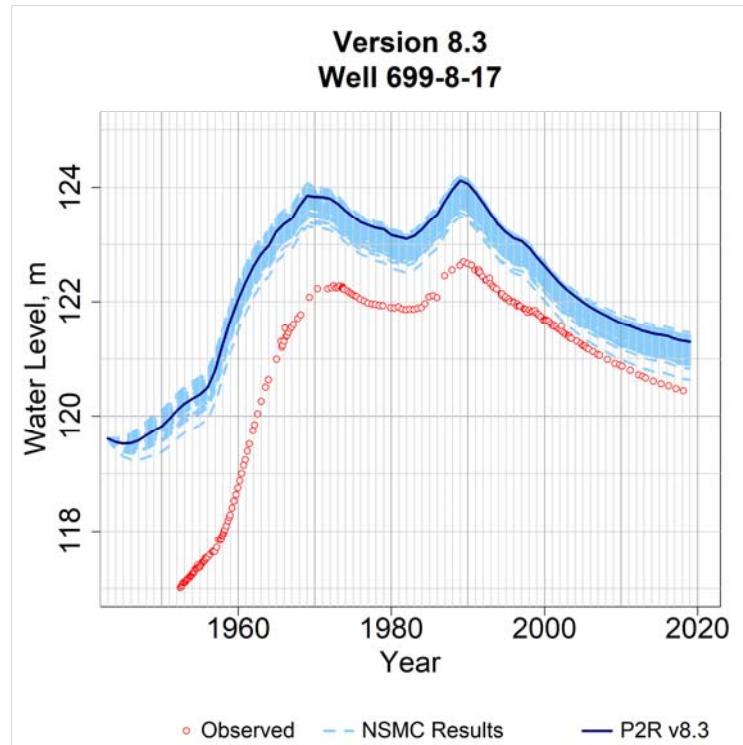


Figure B-679. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-8-17 for the calibrated model and all model variants from the NSMC.

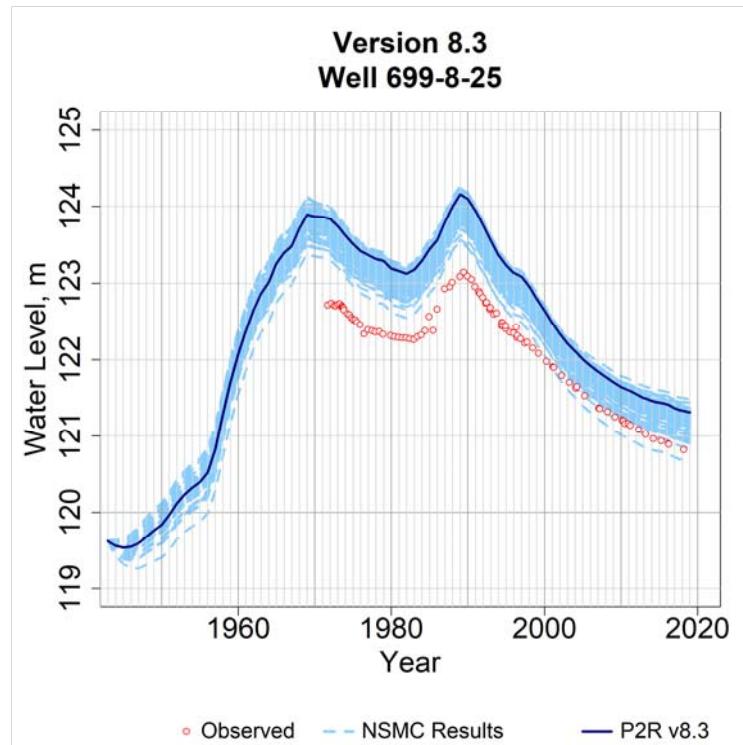


Figure B-680. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-8-25 for the calibrated model and all model variants from the NSMC.

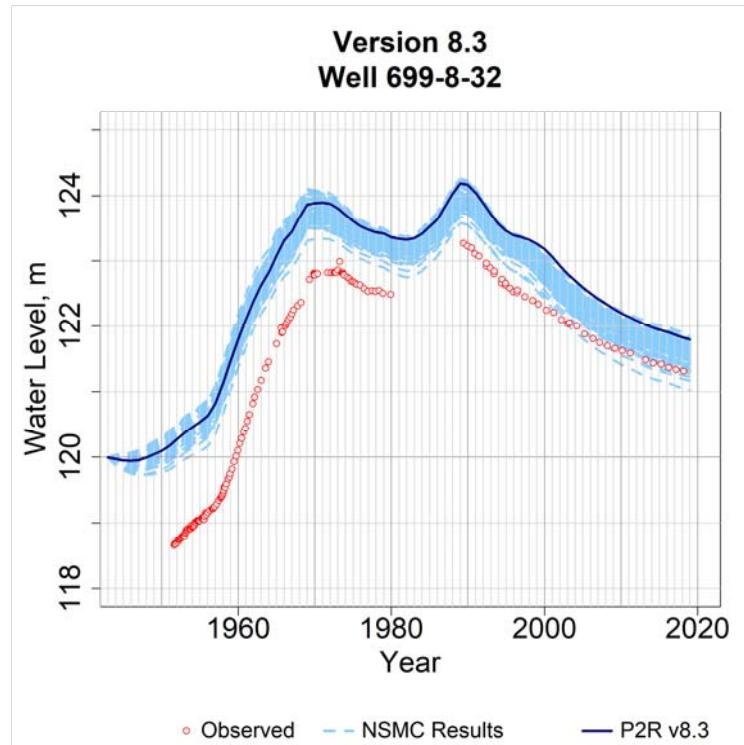


Figure B-681. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-8-32 for the calibrated model and all model variants from the NSMC.

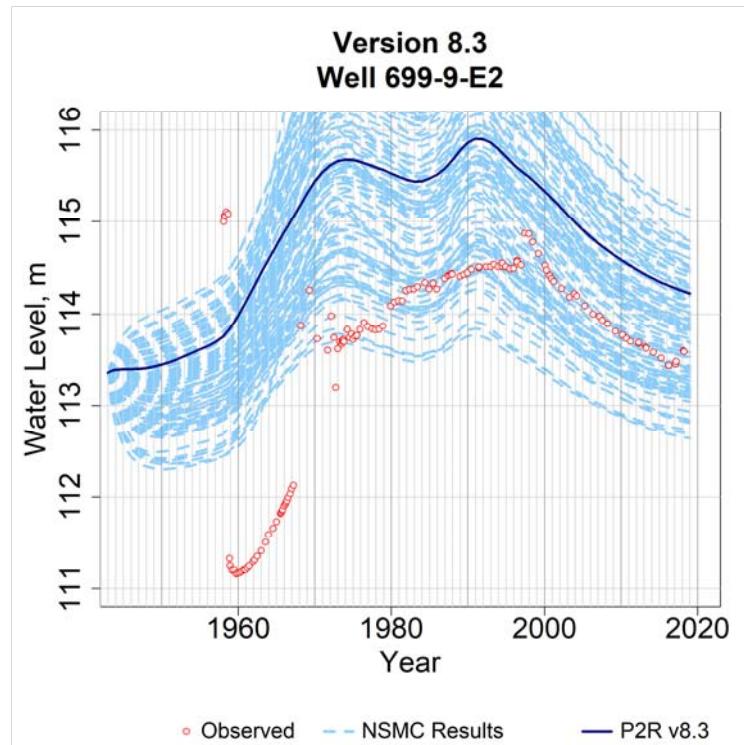


Figure B-682. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-9-E2 for the calibrated model and all model variants from the NSMC.

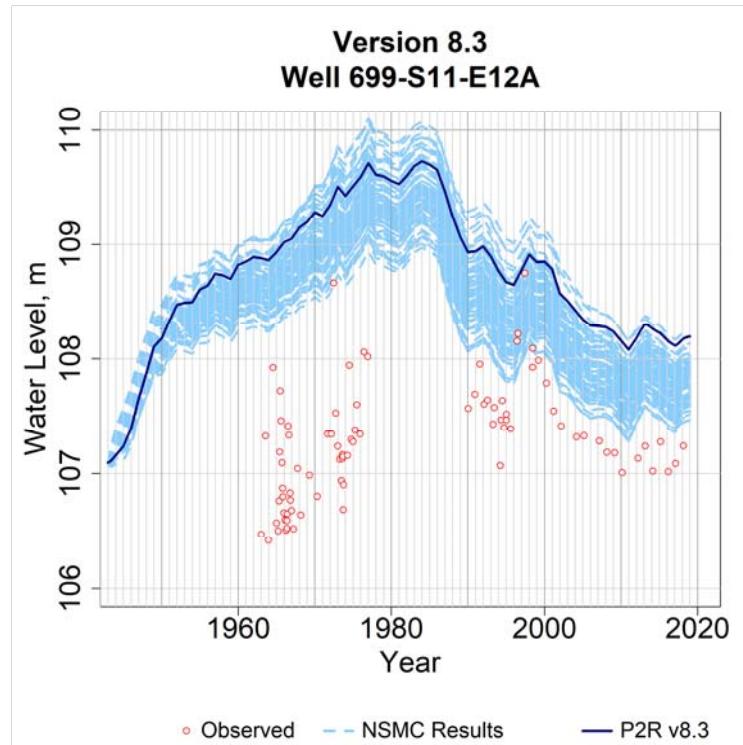


Figure B-683. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S11-E12A for the calibrated model and all model variants from the NSMC.

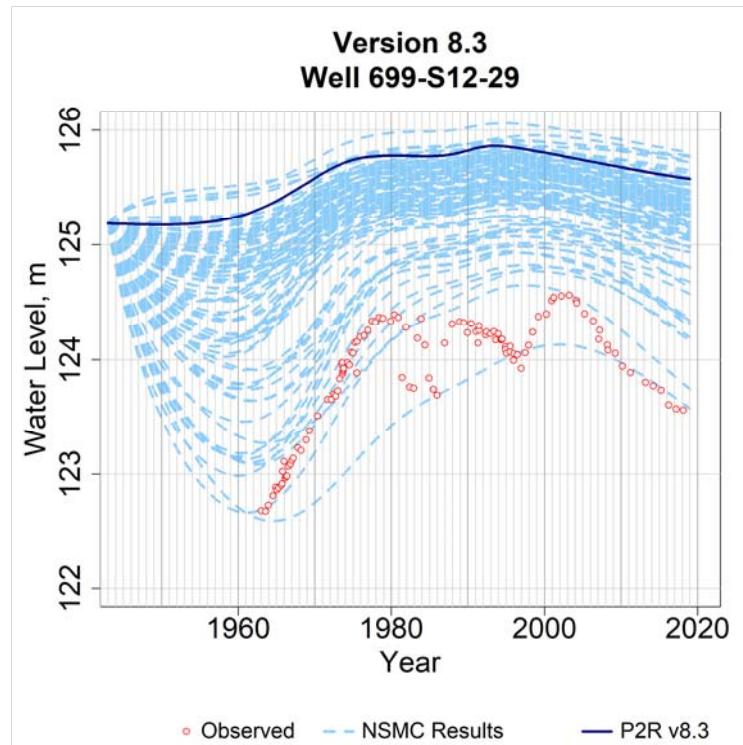


Figure B-684. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S12-29 for the calibrated model and all model variants from the NSMC.

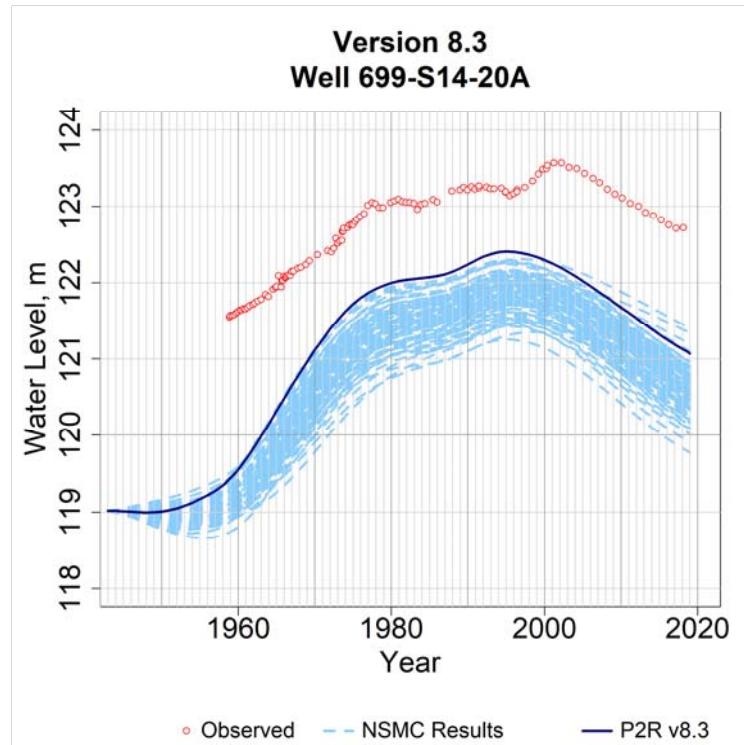


Figure B-685. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S14-20A for the calibrated model and all model variants from the NSMC.

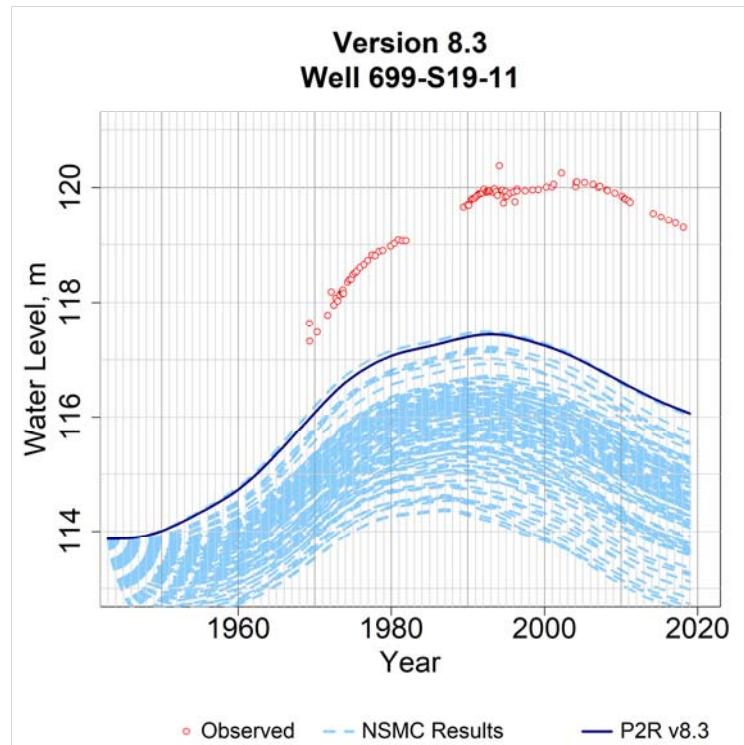


Figure B-686. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S19-11 for the calibrated model and all model variants from the NSMC.

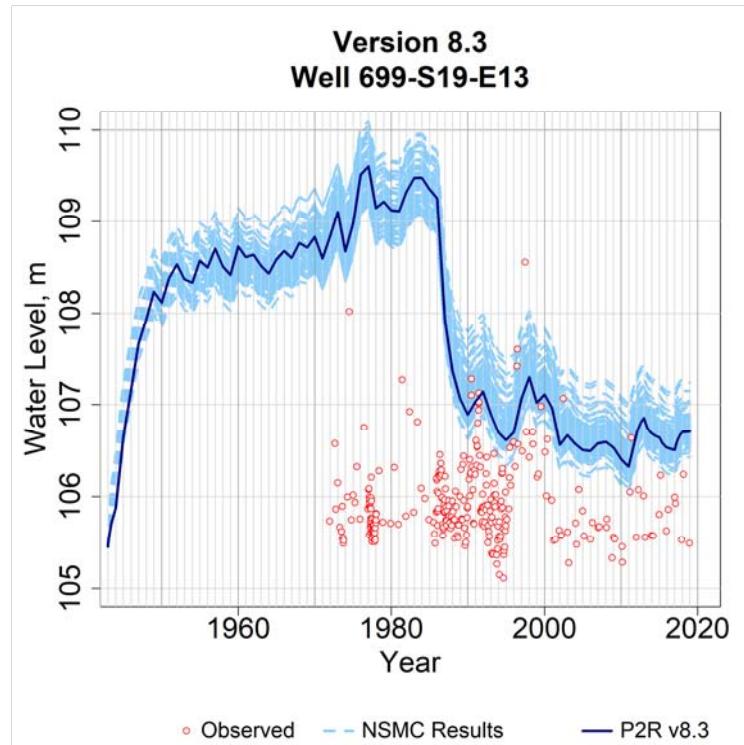


Figure B-687. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S19-E13 for the calibrated model and all model variants from the NSMC.

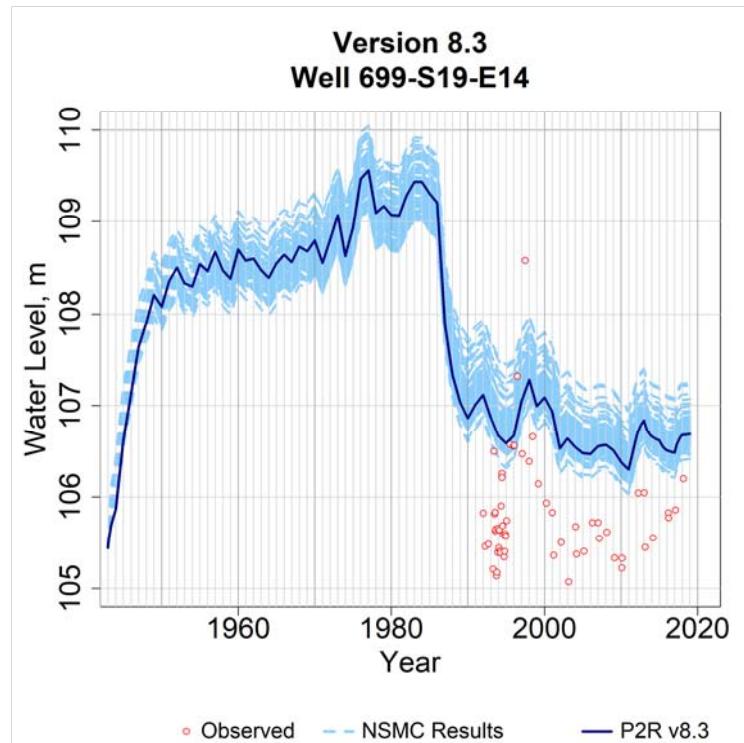


Figure B-688. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S19-E14 for the calibrated model and all model variants from the NSMC.

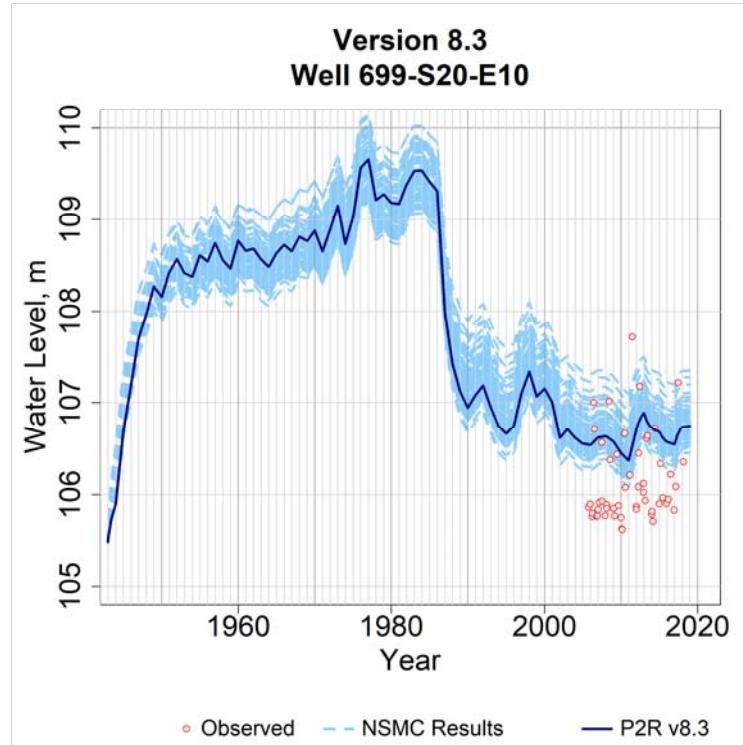


Figure B-689. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S20-E10 for the calibrated model and all model variants from the NSMC.

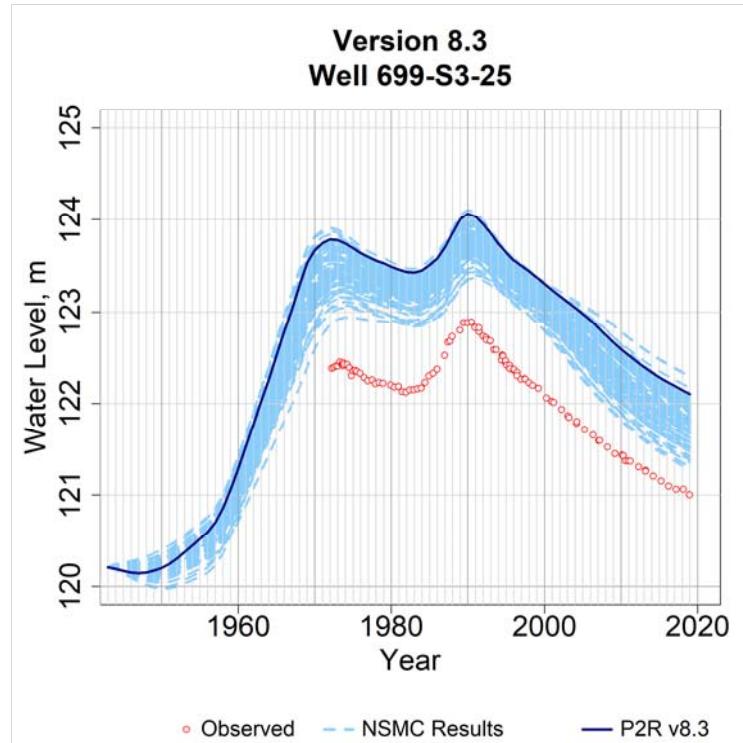


Figure B-690. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S3-25 for the calibrated model and all model variants from the NSMC.

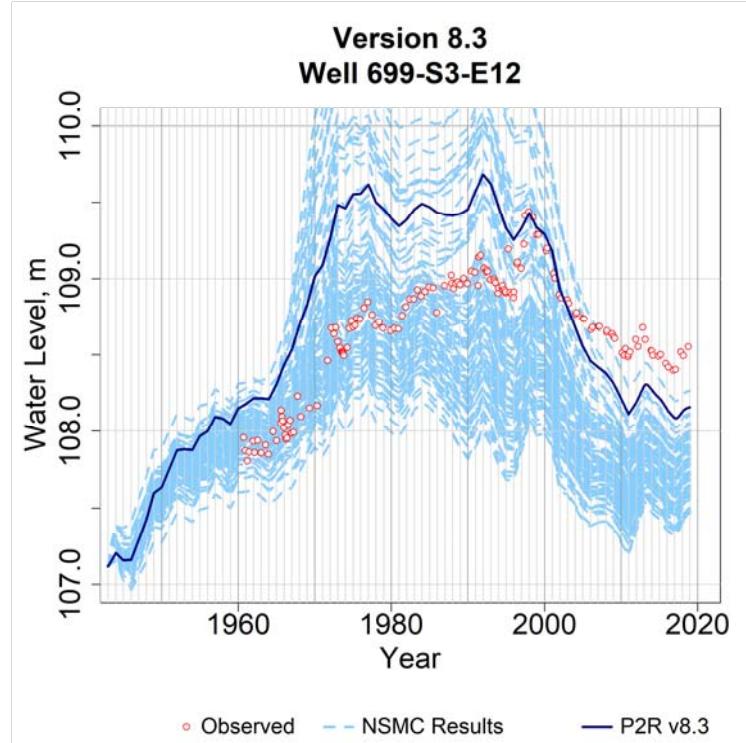


Figure B-691. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S3-E12 for the calibrated model and all model variants from the NSMC.

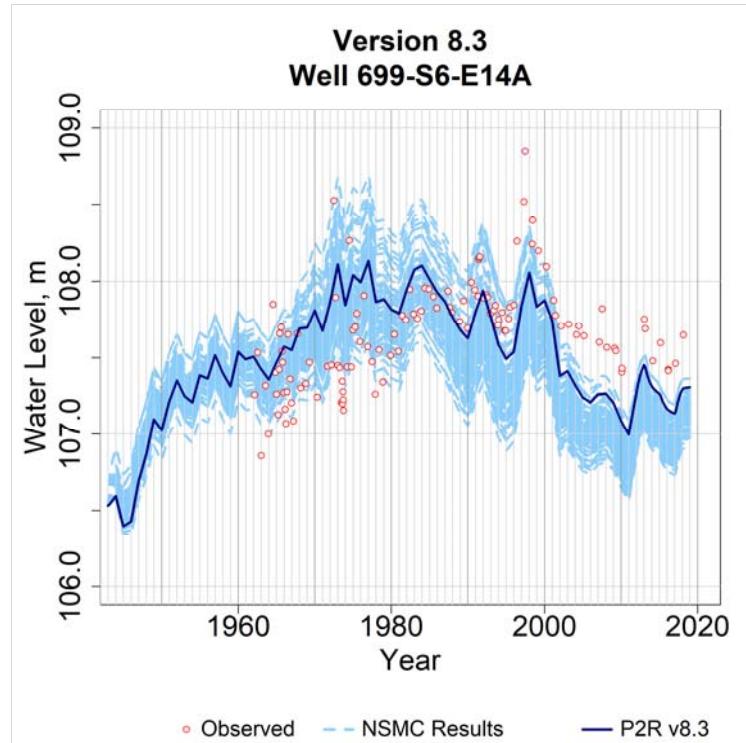


Figure B-692. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S6-E14A for the calibrated model and all model variants from the NSMC.

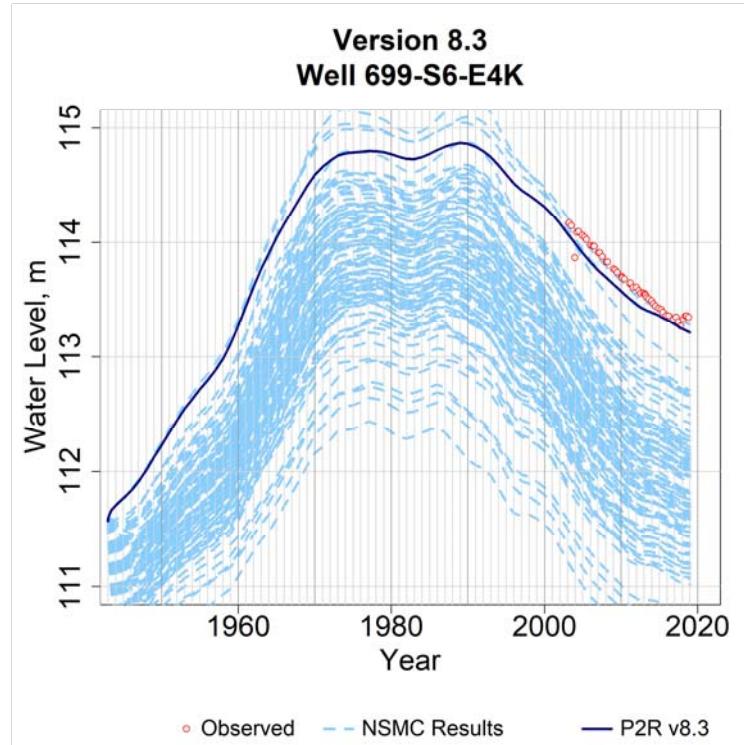


Figure B-693. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S6-E4K for the calibrated model and all model variants from the NSMC.

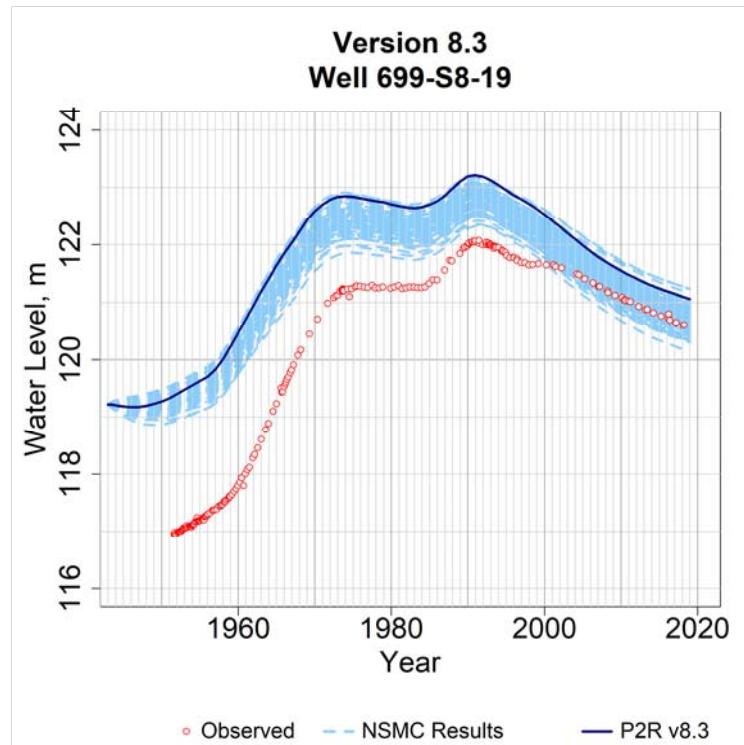


Figure B-694. Comparison of Observed and Simulated Water Level in the P2R Model at Well 699-S8-19 for the calibrated model and all model variants from the NSMC.