APPENDIX G

HYDROLOGY AND WATER QUALITY TECHNICAL MEMORANDUM FROM WEST YOST & ASSOCIATES

WEST YOST ASSOCIATES
Consulting Engineers

TECHNICAL MEMORANDUM

DATE: February 9, 2012 Project No.: 425-00-11-03

TO: Joanna Jansen, The Planning Center | DCE
Nicola Swinburne, The Planning Center | DCE

FROM: Mark Kubik, R.C.E. # 50963

REVIEWED BY: Jeff Wanlass

SUBJECT: Brighton Landing Hydrology and Water Quality Evaluation

INTRODUCTION

The Brighton Landing project is a proposed development project in the City of Vacaville (City). West Yost Associates (West Yost) is assisting The Planning Center | DCE (DCE) with the preparation of an EIR for the project. As a part of that work, West Yost has reviewed the project site and other sources of data related to stormwater conditions. In addition, we have reviewed the stormwater study that was prepared for the project by the project proponent. Based on those activities, we have prepared this Technical Memorandum that describes the existing conditions, provides our comments on the study prepared by the project proponent, describes the potential project impacts on hydrology and water quality, and presents recommended mitigation measures.

EXISTING CONDTIONS

Surface Water Resources

The proposed project site is located in the Old Alamo Creek watershed. Old Alamo Creek is a modified water body that was formerly the downstream portion of Alamo Creek. Alamo Creek originates on the eastern slopes of Mount Vaca and then flows through the City before joining Ulatis Creek roughly six miles downstream (east) of the project site. Ulatis Creek continues flowing to the east and southeast and ultimately drains to the Sacramento River via Cache Slough. Near the project site Old Alamo Creek is located north of Elmira Road, just north of the project site (See Figure 1).

During the 1960s, several features of the lower Ulatis Creek watershed were modified to protect local agricultural lands from damaging floods, which had historically occurred along several of the major creeks in the area, including Alamo Creek. One of the modifications involved the redirection of flows from Alamo Creek into a new channel along a more southerly alignment. The new channel became known as New Alamo Creek, and the existing channel downstream of the redirection point became known as Old Alamo Creek.

As a result of the modifications to Alamo Creek, the drainage area to the current Old Alamo Creek was reduced to a localized section of eastern Vacaville plus additional unincorporated areas to the east. The portion of the Old Alamo Creek watershed upstream of the unincorporated town of Elmira is indicated in Figure 1. The tributary area draining to the creek from this area is approximately 990 acres.

On the project site, runoff occurs as sheet flow traveling from west to east until joining one of the small agricultural ditches on the site. The ditches convey runoff to the eastern boundary of the project and on to the existing Solano Irrigation District Frost Canal located west of the Union Pacific Railroad (UPRR). The Frost Canal conveys runoff north to Old Alamo Creek near Elmira Road. During significant storm events, the Frost Canal is known to overtop its banks. During such events, flows from the canal will flood the adjacent areas and spill to the east, over a dirt road, and into a ditch located immediately adjacent to the UPRR. This ditch conveys runoff north to a point just south of Elmira Road where a culvert conveys runoff to the east side of the railroad. Runoff is then conveyed north for a short distance in a ditch before joining Old Alamo Creek.

Topography and Soils

The topography at the project site is flat with slopes ranging from 0.2 to 0.3 to percent. The ground at the site slopes uniformly from west to east. According to soil data from the Natural Resources Conservation Service, the predominant soils at the site include Brentwood clay loam, Rincon clay loam, and Capay silty clay loam. These soils are generally considered to have moderate potential for erosion. The soils fall within Hydrologic Soils Groups B, C, and D, which have infiltration capacities ranging from moderate (Group B) to very low (Group D).

100-Year and 200-Year Floodplains

According to the Flood Insurance Rate Map 06095C0281E, which was published FEMA in May 2009, the project site is not subject to flooding during a 100-year storm. Flooding has been identified downstream (east) of the project site along the Frost Canal and UPRR (See Figure 2). Runoff from the project site flows to this floodplain area and contributes to the flooding.

In response to Senate Bill 5, the California Department of Water Resources has prepared preliminary (i.e. Best Available) maps depicting the estimated 200-year floodplain for the Sacramento-San Joaquin Valley. These best available maps were reviewed and the project site was determined to be outside of a known 200-year floodplain.

Surface Water Quality

The Sacramento River has been identified as providing a number of beneficial uses including municipal, agricultural, and recreational water supply, and fish and wildlife habitat. Water quality in the river is affected by a number of sources including agricultural runoff, mining activities, stormwater runoff, erosion, treated wastewater discharges. The Sacramento River is listed as impaired under the 303(d) list for chlordane, DDT, dieldrin, mercury, PCB's, and unknown toxicity (*State Water Resources Control Board, 2010 Integrated Report (Clean Water Act Section 303(d) List/305(b) Report)*).

PROPOSED PROJECT – STORM DRAIN MODELING STUDY

Phillipi Engineering, Inc. (PEI) prepared a Storm Drain Modeling Study for the Brighton Landing project in March 2011. The study presents the preliminary evaluation of the storm drainage requirements for the project. Computer modeling was prepared to document the peak flows and runoff volumes from the site for existing conditions and post-project conditions, and to size a detention basin downstream of the project. The detention basin is proposed to provide mitigation of flood flow increases from the project and the adjacent property to the south, known as the Batch property. The detention basin is also proposed to provide stormwater quality treatment. The study also presents a layout of the proposed underground pipe system that will convey runoff within the project to the downstream detention basin. The original computer modeling that accompanied the March 2011 study was revised by PEI and provided to West Yost in January 2012.

West Yost performed a review of the study and the revised computer modeling. During our review, we identified a number of corrections and refinements required before the modeling results can be considered adequate for design of the project. However, the main effect of the required changes will be to slightly reduce the predicted peak flows and runoff volumes for developed conditions. Therefore, the model is considered conservative in terms of identifying potential project impacts and is adequate for an EIR level analysis. Our specific comments on the report and the revised modeling are included as Attachment A.

POTENTIAL PROJECT IMPACTS AND RECOMMENDED MITIGATION MEASURES

West Yost evaluated the proposed project to determine the potential impacts of the project related to hydrology and water quality. Our findings are provided below and are organized based on the numbering in the EIR template provided by DCE for the Hydrology and Water Quality Section of the EIR.

1. Violates Water Quality Standards or Waste Discharge Requirements

Construction of the project would result in earth disturbing activities such as site clearing and grading for construction of roads, parking areas, building pads, and park areas. Disturbed areas exposed to rainfall could lead to an increase in erosion and the discharge of sediment to receiving waters resulting in a degradation of water quality. Additional pollutants can be introduced during construction from vehicular use, construction materials, and construction waste products. These activities can introduce pollutants such as nutrients, metals, pesticides, oils and grease, and trash. The potential impacts of the project on water quality during construction are considered significant and could result in a violation of water quality standards.

Implementation of the proposed project would convert the existing agricultural lands to urban uses. Urban development creates new pollution sources including higher levels of vehicle emissions, vehicle maintenance wastes, pesticides, fertilizers, household hazardous wastes, and pet wastes. As a result, the runoff from an urban area may have a higher concentration of pollutants than the pre-development runoff from the same area. The project proponent plans to construct a detention basin that would provide both stormwater quality treatment and flood control storage for the runoff from the project. To provide stormwater quality treatment, a detention basin must detain stormwater for a period of time before it is discharged to the downstream receiving waters. The detention time allows particles and the associated pollutants to

settle out. The minimum detention time required to achieve sufficient pollutant settling typically ranges from 24 to 48 hours. Based on the hydrologic modeling prepared as a part of the Storm Drain Modeling Study (PEI, 2011), it appears that the detention basin and the associated pump station have not been configured to provide sufficient settling time to achieve adequate stormwater quality treatment. The pump has been modeled with three 20 cfs pumps. The first pump turns on as soon as the basin begins to fill and the next two pumps will turn on at higher water levels. The capacity of the first pump will be critical to the stormwater quality treatment benefits by the detention basin. The hydrologic model indicates that the first 20 cfs pump will turn on as soon as the basin begins to fill. This will not allow for sufficient detention time during small and medium storm events. This could result in a potentially significant impact to water quality downstream of the project, which would violate the terms of the City's NPDES stormwater permit. Model tests by West Yost indicate that the capacity of the first pump could be reduced to a level that would allow for sufficient settling time without causing the maximum 100-year water surface elevation to encroach into the required detention basin freeboard of 3 feet.

- **Impact HYDRO-1.1**: Construction activities could substantially degrade water quality resulting in a violation of water quality standards.

  Mitigation Measure HYDRO-1.1: The applicant shall comply with the NPDES General Permit for Discharges of Storm Water Discharge Associated with Construction Activities issued by the SWRCB. The Construction General Permit requires the development and implementation of a SWPPP. The SWPPP must contain a site map(s) which shows the construction site perimeter, existing and proposed buildings, lots, roadways, storm water collection and discharge points, general topography both before and after construction, and drainage patterns across the project. The SWPPP must list BMPs the discharger will use to protect storm water runoff and the placement of those BMPs. Additionally, the SWPPP must contain a visual monitoring program; a chemical monitoring program for "non-visible" pollutants to be implemented if there is a failure of BMPs; and a sediment monitoring plan if the site discharges directly to a water body listed on the 303(d) list for sediment.

  BMPs to prevent or reduce potential erosion control could include mulch covering, temporary seeding, soil stabilizers, binders, fiber rolls, temporary vegetation, and permanent seeding. BMPs to control sediment that may be introduced into runoff could include silt fences, straw wattles, and sediment basins. BMPs for controlling run-on and runoff include could control berms and swales that direct runoff away from sensitive areas. Source control BMPs that prevent pollutants from entering runoff could include establishment of vehicle fueling and maintenance areas and material storage areas that are either covered or are designed to control runoff.

  Significance After Mitigation: Provided that appropriate BMPs are followed to prevent erosion, control sediment, control runoff, and prevent pollutants from entering runoff during construction of the project, the impact would be reduced to *Less-Than-Significant.*

- **Impact HYDRO-1.2**: Runoff generated from the urban land-uses proposed with the project could substantially degrade water quality resulting in a violation of water quality standards.

  Mitigation Measure HYDRO-1.2: The applicant shall incorporate Best Management Practices into the project design to reduce urban pollutants in runoff in accordance with the requirements of the City's Storm Drain Design Standards, the City's Stormwater Management Plan, and the City's NPDES stormwater permit. The applicant may use the proposed detention basin as a BMP to provide stormwater quality treatment if it is configured to meet the design requirements of an extended detention basin in accordance with the California Storm Water Best Management Practices Handbook, which is referenced by the City's design standards.

  Extended detention basins reduce pollutants in runoff by allowing particles and associated pollutants to settle. Other viable BMPs include infiltration techniques such as infiltration trenches and infiltration basins. Infiltration type BMPs reduce pollutants by allowing runoff to infiltrate into the underlying soil, which filters out pollutants. Infiltration techniques are most appropriate in areas with highly pervious soils (Hydrologic Soils Types A and B), so the suitability of infiltration techniques at the project will be depend on specific soil conditions. Biofiltration BMPs include vegetated swales and buffer strips and bioretention. These types of BMPs reduce pollutants in runoff through filtering by the vegetation and subsoil and infiltration into the underlying soils. Source control BMPs, which prevent pollutants from entering runoff, include directing roof spouts to pervious areas, use of porous pavements, enclosing trash storage areas, and providing signs at storm drain inlets to educate the public.

  Significance After Mitigation: Provided that BMPs are followed to reduce the potential for pollutants to enter runoff and to remove pollutants from runoff to the Maximum Extent Practicable, the impact would be reduced to *Less-Than-Significant.*

2. Substantially Depletes Groundwater Supplies or Substantially Interferes with Groundwater Recharge

Groundwater impacts were not evaluated by West Yost.

3. Substantially Alters Existing Drainage Pattern Resulting in Substantial Erosion or Siltation

The proposed project will convert the existing agricultural lands to residential, commercial, school, and park land uses. This will increase the impervious surfaces on the site and will significantly alter the existing drainage pattern, which will cause an increase in the peak flows and volumes discharged from the site during storm events. According to the revised hydrologic modeling prepared by PEI, without construction of the detention basin, development of the watershed would increase the 10-year peak flow from 457 cfs to 585 cfs and 100-year peak flow from 720 cfs to 882 cfs. The increased flows could result in substantial erosion or siltation downstream if they were discharged directly to the downstream receiving water. However, the project will construct a detention basin east of the project boundary that will detain storm flows. Flows from the project are to be conveyed into the detention basin via an underground pipe

network for storms up to the 10-year event. For larger storms, flows in excess of the pipe system capacity will be conveyed overland in the streets and directed into the detention basin. A pump station constructed at the detention basin will discharge flows from the basin at rates well below the existing peak flow rates. According to the revised modeling prepared by PEI, with the detention basin, the 10-year and 100-year peak flows from the watershed will be 192 cfs and 254 cfs, respectively. As a result, the proposed detention basin would prevent the project from causing a significant impact due to an increase in erosion or siltation downstream. However, there is insufficient detail included in the storm drainage study to insure that all flows, including those in excess of the pipe system, will be adequately directed into the detention basin. Therefore, the possibility for increased downstream erosion or siltation is considered a potentially significant impact.

- **Impact HYDRO-3.1**: Increased runoff generated from the urban land-uses proposed with the project could cause an increase in erosion or siltation downstream of the project if runoff is not adequately conveyed to the proposed detention basin.

  Mitigation Measure HYDRO-3.1: See Mitigation Measure HYDRO-5.1.

  Significance After Mitigation: Provided that a Storm Drain Master Plan (SDMP) is prepared to meet the requirements specified in Mitigation Measure HYDRO-5, the impact would be *Less-Than-Significant.*

4. Substantially Alters Existing Drainage Pattern or Increases the Rate or Amount of Surface Runoff Resulting in Flooding

As discussed previously, development of the project would significantly increase the stormwater runoff rates in the watershed without construction of the detention basin. The 10-year peak flow would be increased from 457 cfs to 555 cfs and 100-year peak flow from 720 cfs to 882 cfs. These flow increases could exacerbate the existing flooding problem downstream of the project that has been identified by FEMA. However, the project will include a detention basin at the downstream end of the project that will detain storm flows and pump them out at a rate well below the 10-year peak flow. This is an acceptable approach for mitigating the potential impacts of the project on downstream flooding. However, the storm drainage report prepared for the project does not provide sufficient detail to determine whether the project drainage facilities will adequately direct all flows, including overland flows during the 100-year storm, into the basin. As a result, the possibility of increased flooding downstream is considered a potentially significant impact.

- **Impact HYDRO-4.1**: Increased runoff generated from the urban land-uses proposed with the project could cause an increase in flooding downstream of the project if runoff is not adequately conveyed to the proposed detention basin.

  Mitigation Measure HYDRO-4.1: See Mitigation Measure HYDRO-5.1.

  Significance After Mitigation: Provided that a SDMP is prepared to meet the requirements specified in Mitigation Measure HYDRO-5, the impact would be *Less-Than-Significant.*

5. Creates or Contributes Runoff Water Exceeding Stormwater Drainage System Capacity or Provides Substantial Additional Polluted Runoff

The proposed project will significantly increase the amount of impervious cover on the site, which will cause a significant increase in runoff rates compared to existing rates. The project will include a detention basin downstream of the project boundary that will mitigate for potential increases in flow and will also provide stormwater quality treatment. On-site runoff from the project will be conveyed to the detention basin via an underground pipe network that will be constructed in accordance with the City's Standard Specifications and Drawings (PEI, 2011). The pipe sizes will vary from 15 to 72 inches in diameter. The proposed pipe network will be sized to convey the peak flow from the 10-year storm in accordance with the City standards. Flows from storms larger than the 10-year event must be safely conveyed overland in the streets to the detention basin. City standards require the flow from the 100-year storm water surface elevation to be no more than 0.5 feet above the centerline elevation of a road and must be at least 1.0 foot below building pads. Detailed pipe sizing calculations and overland release calculations are not included in the project drainage report and the adequacy of the proposed on-site systems could not be evaluated. Therefore, the possibility for the proposed on-site stormwater system to be exceeded by a storm event is considered a potentially significant impact.

- **Impact HYDRO-5.1**: The proposed project could create runoff water that exceeds the proposed storm drain system and the existing downstream system.

  Mitigation Measure HYDRO-5.1: The project applicant shall have a SDMP prepared by a registered civil engineer that identifies the specific improvements that will mitigate for the increased runoff from the project. The SDMP shall provide the necessary calculations to adequately demonstrate that the proposed drainage facilities adequately convey the design runoff from the project and adequately mitigate the impacts of increased runoff. In accordance with the City's Storm Drain Design Standards, the SDMP shall be prepared prior to the approval of the tentative map and shall include, but is not limited to, the following items:

  - A topographic map of the drainage shed and adjacent areas as necessary to define the study boundary. The map shall show existing and proposed ground elevations (including preliminary building pads), with drainage sub-shed areas in acres, and the layout of the proposed drainage improvements.
  - A map showing analysis points, proposed street grades, storm drainage facilities, and overland release paths with required easement locations for overland flow across private property.
  - Preliminary pipe sizes with hydraulic grade lines, design flows, inverts, and proposed ground elevations at analysis points. This information is to be provided on the map showing the layout of the proposed drainage facilities.
  - Information on the proposed detention basin and pump station including:
    - Preliminary Grading Plan showing the layout, configuration, and elevations.
    - Preliminary Stage, storage, and discharge information for selected design storms.

- Description of storage requirements, operation, and pumping operation to provide water quality benefits, route storm runoff, and depict dry weather operation.
- Preliminary site plan for the detention facilities, and sizing and layout for the pump station.

Significance After Mitigation: *Less-Than-Significant.*

6. Substantially Degrades Water Quality

Construction activities could lead to an increase in erosion and the discharge of sediment from the site. Construction activities also introduce other pollutions sources that could increase the concentration of pollutants in site runoff. Therefore, construction activities could result in a temporary degradation of water quality, which is potentially significant impact.

Urban development can cause an increase in the pollutant concentration of runoff from a watershed compared to pre-developed conditions. The proposed project intends to mitigate for the potential stormwater quality impacts by constructing a detention basin downstream of the project. However, the proposed configuration of the detention basin as described in the storm drainage study (PEI, 2011) would not provide a sufficient detention time to achieve adequate treatment. Therefore, the possibility of the project to degrade water quality is considered a potentially significant impact.

- **Impact HYDRO-6.1**: Runoff generated from the urban land-uses proposed with the project could substantially degrade water quality.

  Mitigation Measure HYDRO-6.1: See Mitigation Measure HYDRO 1.2.

  Significance After Mitigation: Provided that BMPs are followed as described in Mitigation Measure HYDRO-2, the impact would be reduced to *Less-Than-Significant.*

7. Places Housing within a 100-year Flood Hazard Area

Based on the FEMA Flood Insurance Rate Map (Panel 06095C0281E, May 4, 2009), the proposed project will not place housing with a 100-year flood hazard area.

8. Places Structures within a 100-year Flood Hazard Area Resulting in Impeded or Redirected Flood Flows

Based on the FEMA Flood Insurance Rate Map (Panel 06095C0281E, May 4, 2009), the proposed project will not place structures within a 100-year flood hazard area.

9. Exposes People or Structures to Significant Risks Involving Flooding

In response to SB 5, the California Department of Water Resources has prepared preliminary (i.e. Best Available) maps depicting the estimated 200-year floodplain for the Sacramento-San Joaquin Valley. These best available maps were reviewed and the project site was determined to be outside of a known 200-year floodplain.

The proposed project will increase peak flows and runoff volumes generated within the project site. On-site flows will be collected in an underground storm drain system and conveyed to a detention basin. Flows in excess of the pipe system will flow to the detention basin in streets. The detention basin will provide flood control storage that will serve to mitigate for the project's potential impacts downstream. The storm drainage study for the project lacks sufficient detail to determine if the proposed storm drainage pipe system and overland flow paths will effectively deliver runoff to the detention basin without producing flooding within the project. Therefore, the possibility that the project exposes people to flooding within and downstream of the project is considered a potentially significant impact.

- **Impact HYDRO-9.1**: The project could expose people or structures to significant flood risks.

  Mitigation Measure HYDRO-9.1: See Mitigation Measure HYDRO 5.1.

  Significance After Mitigation: Provided that a SDMP is prepared to meet the requirements specified in Mitigation Measure HYDRO-5, the impact would be *Less-Than-Significant.*

10. Inundation by Seiche, Tsunami, or Mudflow

The project site is not located in an area that is subject to inundation by sieche, tsunami, or mudflow.

POTENTIAL CUMULATIVE IMPACTS

The proposed project and other potential cumulative projects in the vicinity of the project site, including growth resulting from build-out of the City's General Plan, would be required to comply with the NPDES General Permit for Discharges of Storm Water Discharge Associated with Construction Activities issued by the State Water Resources Control Board. This permit requires projects to implement measures to prevent impacts, individual and cumulative, to water quality during construction. In addition, projects would also be required to comply with the City's NPDES stormwater permit from the CVRWQCB and their Stormwater Management Plan which prevent impacts to water quality after construction of a project. Therefore, the potential for cumulative impacts to water quality is less than significant.

The proposed project and other potential projects that could contribute to cumulative impacts would also be subject to local, state, and federal regulations designed to minimize individual and cumulative impacts related to stormwater runoff rates and flooding. The implementation of mitigation measures for the proposed project and anticipated mitigation measures for other projects that will be required to maintain compliance with these regulations and will reduce the potential cumulative impacts to a less than significant level.

Figure 1. Surface Water Resources

Figure 2. 100-Year FEMA Flood Plain

Attachment A

Comments by West Yost Associates on HEC-HMS Models for Brighton Landing as Prepared by Phillippi Engineering, January 2012

Existing Conditions Model

1. The Ex Residences subshed is assigned an impervious value of zero percent. Because this subshed is at least partially developed, the imperviousness of the watershed should be larger than zero.
2. For the Brighton 2 subshed, the Channel routing element is assigned an "n" value of 0.02, which is too low for an earthen channel.

Developed Conditions Model

3. The Ex Residences subshed is proposed for commercial development. The length of the Plane 1 element is set to 420 feet for developed conditions compared to 400 feet for existing conditions. One would expect the overland flow length represented by this parameter to be reduced for developed conditions rather than increases. The rationale for this value should be explained.
4. Many subsheds (Brighton 1, Brighton 2, Brighton 4 Park, Brighton 5, Batch 1, Batch 2, and Batch 4) have been assigned constant infiltration rates that are too low for the soils that are present and the assigned values do not match those provided on the calculation sheet provided by Phillippi Engineering.
5. The park portion of the Brighton 4 subshed has been assigned an impervious value of 80 percent. This value is too high for a park site.
6. The Brighton Buffer & East subshed has Collector and Channel elements modeled with slopes of 0.01 and 0.10 feet/feet. These values are much steeper than the existing ground at the site.
7. The proposed detention basin will provide stormwater quality treatment for the watershed. To act as a stormwater quality treatment facility, the detention basin will need to be operated such that the water quality treatment volume is detained for a period of time (typically 24 to 48 hours) to allow pollutants to settle. As modeled, the pump station will begin pump runoff out of the basin as soon as it begins to fill without allowing for any settling time. Even with the proposed staged pump system, the water quality volume will be pumped out too quickly for the basin to provide adequate treatment. The basin configuration/operation should be revised such that required stormwater quality volume is detained for a sufficient period of time to allow for effective treatment.

From:	Allan Haddox
To:	"Jeff Wanlass"
Cc:	Joanna Jansen; "Fred Buderi"; Nicola Swinburne; bholmes@srgnc.com; "Tom Phillippi"
Subject:	RE: Brighton Landing Storm Drain Modeling Comments
Date:	Wednesday, January 25, 2012 4:18:04 PM
Attachments:	Submitted to West Yost.zip

Jeff,

I have attached our revised HEC-HMS files and new exhibits denoting watersheds and weighted soil classifications. Please review and contact me if you have any questions. I have responded to your comments in RED below.

Thanks,

Allan F. Haddox II, PE, PLS

Engineering Manager

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From: Jeff Wanlass [mailto:JWanlass@westyost.com]
Sent: Monday, January 23, 2012 12:03 PM
To: ahaddox@phillippieng.com
Cc: Joanna Jansen <jjansen@planningcenter.com> (jjansen@planningcenter.com); Fred Buderi (FBuderi@cityofvacaville.com); Nicola Swinburne (nswinburne@planningcenter.com)
Subject: Brighton Landing Storm Drain Modeling Comments

Allan,

Our comments on the HEC-HMS Models we received for the Brighton Landing project include the following:

Existing Conditions Model

1. A watershed map should be provided so the subshed boundaries can be better understood and the watershed areas can be checked. This comment applies to developed conditions also. Existing & Proposed shed maps have been included denoting areas and respective areas of varying soil classification.

2. The constant loss rates used in the model are appropriate for Hydrologic Soils Type D

soils. However, according to soil data from the NRCS, the watershed includes significant areas with Hydrologic Soil Types B and C, which have higher infiltration rates. This comment applies to the developed conditions model also. Loss rates have been calculated based upon weighted NRCS Soil Classifications. Weighted areas are shown on the shed map and a corresponding spreadsheet has been included for the weighted calculations.

3. For the kinematic wave transform method, the flow path lengths appear too long for the Plane 1 element, which represents sheet flow at the upper end of a subshed. The modeled values vary from 900 feet to 1,850 feet depending on the subshed. The HEC-HMS manual indicates that the length values for Plane 1 should be 600 feet or less. Beyond this distance, flows tend to become concentrated and sheet flow equations no longer apply. This comment applies to the developed conditions model also. The model has been revised to reflect a short plane value and now incorporates a subcollector.

4. For the kinematic wave transform method, the lengths of the Collector and Channel elements also appear to be too long when compared to the size of the subshed. Justification for these values should be provided or they should be revised. The collector and Channel values have been revised to reflect the existing condition. However, in a "row" agriculture use, the drainage pattern follows a parallel and perpendicular drainage pattern resulting in longer than typical values for a given basin.

<u>Developed Conditions Model</u>

5. The total area represented by the model for developed conditions is about 50 acres less than for existing conditions. Justification of the smaller area should be provided or the model should be corrected. Total area has been adjusted so that the existing and proposed areas are equal and consistent with the shed maps.

6. Subshed Brighton 1 represents the area of the proposed private school. According to the City of Vacaville Standards, schools should be represented as having an average imperviousness of 50 percent. However, the composite imperviousness of this subshed, as modeled, is 35 percent. This value should be increased to confirm to the City standards. Basin model has been revised consistent with the City 50% standard.

7. For all developed condition subsheds, the lengths of the Subcollector elements associated with the kinematic wave transform method should represent the average distance of flow in a gutter before it enters the pipe system. The values in the model are much longer than the average gutter flow distance and should be revised. Model has been revised to reflect small plane sheet flow and 400' sub-collector reflecting the yard to inlet condition.

8. For all developed condition subsheds, the Channel elements associated with the

kinematic wave transform method should represent the average conveyance pipe within the subshed. In the model, these elements are modeled as trapezoidal channels rather than pipes. Since HMS does not model a pipe in a pressure condition the USACE handbook states that open channels can be used to model a piped condition. However the model has been revised to select the piped condition.

9. In the developed condition model, the subshed representing the existing residential lot at the northwest corner of the project site is modeled based on existing conditions. This subshed should be modeled to represent commercial land-use based on the land-use map for the project. Model has been revised to reflect a commercial development.

10. Subshed Brighton 2 is modeled with an imperviousness of 40 percent. However, there is a significant area of high density housing proposed in this subshed and, as a result; the impervious percentage should be higher. High density land use is no longer proposed in this area per the direction of the City council. Model reflects this area as single family residential development.

11. Subshed Brighton 4 is modeled at 80 percent impervious. This appears to be too high for the proposed land use (school and park). Basin has been revised consistent with park and school uses.

12. The subsheds for the Batch property are all modeled with an impervious coverage of 40 percent with the exception of one subshed that is modeled at 80 percent. What is the rationale for these values? All of the proposed land use will be developing under a project Specific Plan. 40% is consistent with Low/Medium density single family housing, which will likely be the target density. If the density falls slightly below the Low/Medium density levels, the ultimate developed condition flow rates will be slightly less than the values modeled. School basin has been revised consistent with school uses.

13. The time interval used with the rainfall hyetographs in the developed conditions model is incorrect. The rainfall time interval is set to 30 minutes, but the rainfall values are actually provided in 15 minute increments. The result is that the model significantly over-estimates the rainfall intensity and the resulting peak flow and volume from the watershed. Correcting this error will likely result in a smaller detention basin for the project. Time interval for developed model reflects 30 minutes.

14. Runoff entering the proposed detention basin will be evacuated with a pump station. The pump station is modeled as a single pump with a capacity of 80 cfs. Based on this approach, the pump station will pump at its full capacity of 80 cfs regardless of the size of the storm event. This has the potential to cause an increase in the peak flows discharged from the site during small and moderate storm events. The pump station should have multiple pumps that are staged to turn on at different water depths so the full capacity of the pump station isn't discharged for every storm event. 80 cfs results in a developed

condition discharge of less than the peak flow of the existing 2-yr storm. However additional stages have been provided. The EIR analysis needs to state that during the final design process the developed condition discharge may be increased from the peak values stated in the EIR analysis, but shall not be increased above 90% of the existing peak flow for any respective design storm event.

15. According to the drainage report, the proposed detention basin will provide stormwater quality treatment for the watershed. To act as a stormwater quality treatment facility, the detention basin will need to be operated such that the water quality treatment volume is detained for a period of time (typically 24 to 48 hours) to allow pollutants to settle. As modeled, the pump station will begin pump runoff out of the basin as soon as it enters without allowing for any settling time. The basin configuration/operation should be revised such that required stormwater quality volume is detained for a sufficient period of time to allow for effective treatment. Staged pumping has been added to the model reflecting a water quality slow draw down of the first 20 ac-ft of storage, which is twice the anticipated water quality storage required. Again, the EIR analysis needs to state that during the final design process the developed condition discharge may be increased from the peak values stated in the EIR analysis, but shall not be increased above 90% of the existing peak flow for any respective design storm event.

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JWanlass@westyost.com

Brighton Landing

Soil Class Weighted Constant Loss Rate

Existing Condition

	NRCS Soil Class		
Constant Loss Rate	B	C	D
Open Space / Ag	0.2	0.12	0.07
Residential	0.18	0.1	0.05

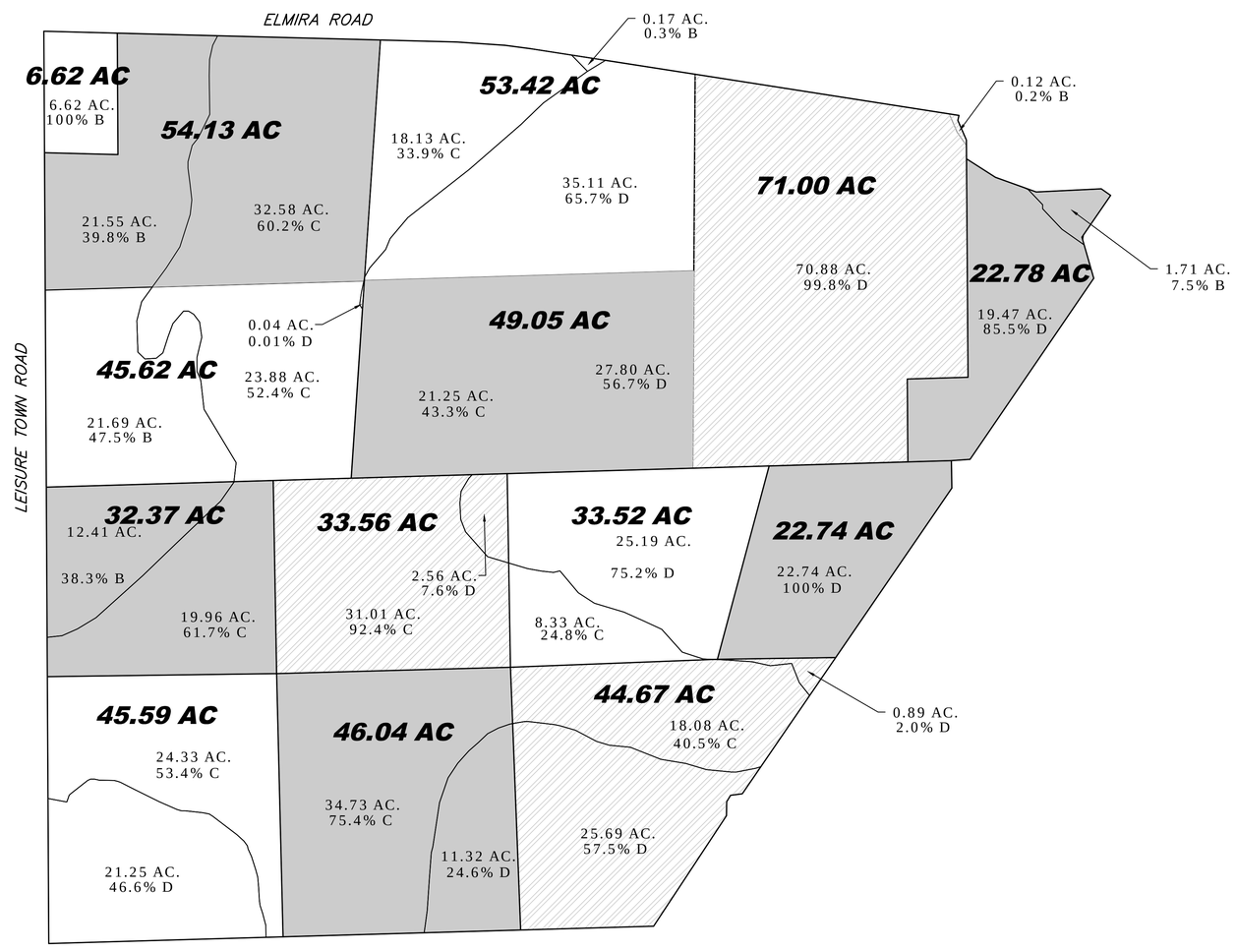
	NRCS Soil Class			Total	Area	Weighted
Basin No	B	C	D	Area	Sq Mil	Loss Rate
Batch 1		24.33	21.25	45.58	0.0712	0.10
Batch 2	12.41	19.96		32.37	0.0506	0.15
Batch 3		32.73	11.32	44.05	0.0688	0.11
Batch 4		31.01	2.56	33.57	0.0525	0.12
Batch 5		18.08	25.69	43.77	0.0684	0.09
Batch 6		8.33	25.19	33.52	0.0524	0.08
Batch 7			22.74	22.74	0.0355	0.07
Ex Residence	6.62			6.62	0.0103	0.18
Brighton 1	21.69	23.88	0.04	45.61	0.0713	0.16
Brighton 2	21.55	32.58		54.13	0.0846	0.15
Brighton 3		21.25	27.8	49.05	0.0766	0.09
Brighton 4	0.17	18.12	35.11	53.4	0.0834	0.09
East of Brighton		1.83	93.78	95.61	0.1494	0.07
					0.8750	

Brighton Landing

Soil Class Weighted Constant Loss Rate
Developed Condition

	NRCS Soil Class		
Constant Loss Rate	B	C	D
Residential	0.18	0.1	0.05
School	0.165	0.085	0.035
Park	0.19	0.11	0.06
Commercial	0.162	0.082	0.032
Open Space	0.2	0.12	0.07

	NRCS Soil Class			Total	Area	Weighted
Basin No	B	C	D	Area	Sq Mi	Loss Rate
Batch 1	4.19	59.89	21.25	85.33	0.1333	0.09
Batch 2	8.22	24.68		32.9	0.0514	0.12
Batch 3		12.7	3.45	16.15	0.0252	0.07
Batch 4		33.86	52.66	86.52	0.1352	0.07
Batch Buffer		15.76	4.96	20.72	0.0324	0.10
Ex Residence	6.62			6.62	0.0103	0.16
Brighton 1	21.85	27.46	0.69	50	0.0781	0.13
Brighton 2	21.39	32.06	0.03	53.48	0.0836	0.12
Brighton 4 School		10.22	0.78	11	0.0172	0.08
Brighton 4 Park		4.18	1.18	5.36	0.0084	0.10
Brighton 3	0.17	19.14	47.57	66.88	0.1045	0.06
Brighton 5		2.79	20.77	23.56	0.0368	0.06
East of Brighton	1.84		81.65	83.49	0.1305	0.07
Detention Pond			16.5	16.5	0.0258	0.07



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SCALE:
HORIZ.: 1"=400'

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THOMAS A. PHILLIPPI
No. 32067
Exp. 12-31-12
CIVIL
STATE OF CALIFORNIA

APPROVED BY:
CITY ENGINEER
CE NO.:
DATE OF APPROVAL

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CIVIL ENGINEERING - LAND SURVEYING
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VACAVILLE, CA 95688
PLANNING
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OFFICE (707) 451-6556

APPROVED

DESIGNED BY:
DRAFTED BY:
CHECKED BY:

PROJECT NAME/LOCATION:
BRIGHTON LANDING
VACAVILLE CA

DRAWING TITLE:

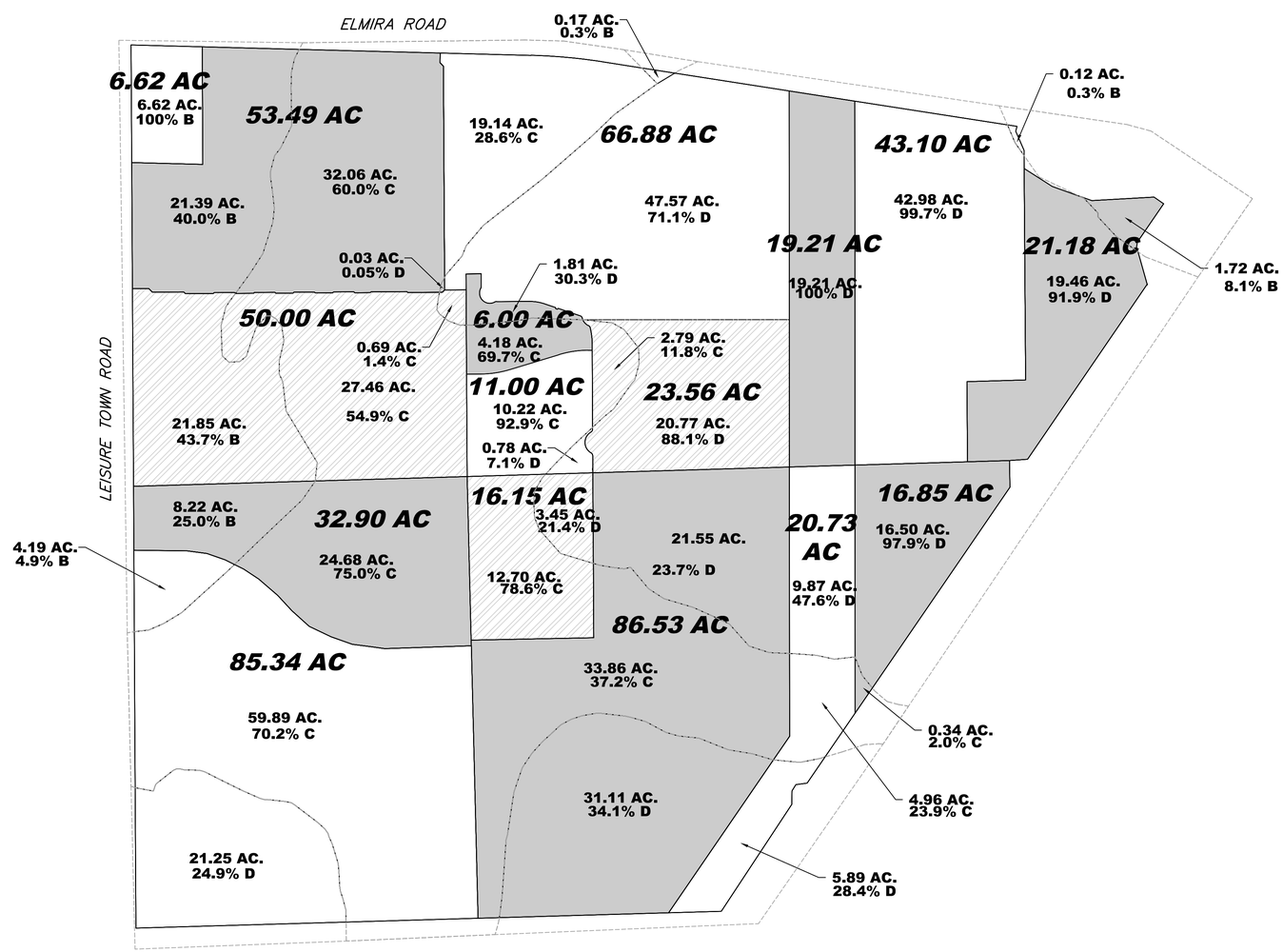
DRAWING FILE:
P:250120/HYDRO/
BRIGHTON/250120
PROPOSED SHED.DWG

ISSUE DATE:
01/24/12

SHEET NO.:

PROJECT NO.:
250120

OF



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DATE OF APPROVAL

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APPROVED

DESIGNED BY:
DRAFTED BY:
CHECKED BY:

PROJECT NAME/LOCATION:
BRIGHTON LANDING
VACAVILLE CA

DRAWING TITLE:
PROPOSED SHED AREAS

DRAWING FILE:
P:250120/HYDRO/
BRIGHTON/250120
PROPOSED SHED.DWG

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OF

City of Vacaville

Brighton Landing

Storm Drain Modeling Study

March 2011

PHILLIPPI ENGINEERING, INC.
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City of Vacaville

Brighton Landing
Storm Drain Modeling Study

March 2011

1.0 Purpose

This report is being prepared to determine the design storm drain flow rates, trunk storm drain pipe sizes and detention facilities that the Brighton Landing project will need to construct in order to provide adequate capacity for the ultimate build out of the Brighton Landing project.

2.0 EXISTING CONDITIONS

The total Brighton Landing Area area comprises 217.7 ± acres and is bounded by Leisure Town Road on the west, Elmira Road to the north, PG&E Towers to the east and the Batch Property to the south. The Brighton Landing project area comprises 4 land owners (See Figure 2.1); the overall storm drain study area consists of the Brighton Landing project area and the Batch Property (See Figure 2.2).

The Brighton Landing site is zoned for agriculture and is within the City of Vacaville city limits. The property is used to grow a variety of crops and is at times flood irrigated. The property generally slopes gently from the west to the east.

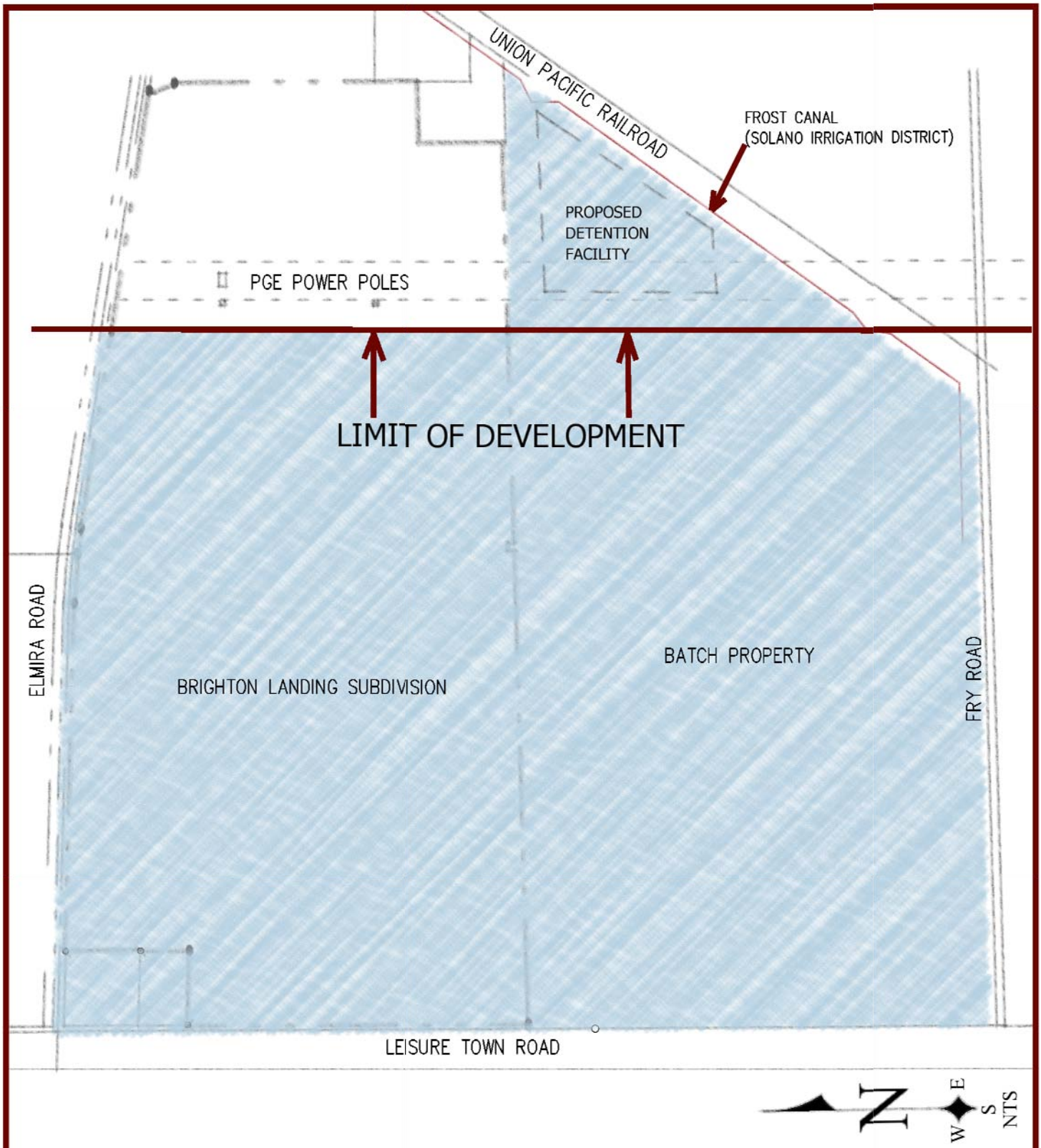
The existing storm drain system includes surface drainage to the east, to an existing agricultural drain. The existing drain overtops to the east, thence over an existing asphalt road into a ditch running parallel to the Union Pacific. From there the drainage continues east under the Railroad in an existing culvert. From there it splits between Alamo Creek, and an existing Solano Irrigation District Frost Canal, both continuing eastward.

N

PROPERTY OWNERSHIP

FIGURE 2.1

BRIGHTON LANDING
STORM DRAIN MODELING STUDY



STORM DRAIN MASTER PLAN

FIGURE 2.2

BRIGHTON LANDING
STORM DRAIN STUDY AREA

STORM DRAIN STUDY AREA

3.0 PROPOSED BRIGHTON LANDING PROJECT

3.1 SPECIFIC PLAN AND LAND USES

The Brighton Landing Specific Plan establishes a comprehensively planned community that is designed to work with the Jepson Ranch Project. The Land Use component of the Specific Plan is primarily residential with the non-residential uses comprising the school(s) and park.

The Vanden Meadows area is divided into 11 subareas (See Figure 3.1). Each subarea has a different land use designation. Table 1.1 details each of the subareas.

Subareas A – L are owned by the Hearthstone and comprise 210.92 of the total Specific Plan area. Subarea K is owned by three different individuals as previously detailed in Figure 1.1.

Subarea A is a 50+/- acre site designated as Community Facility is the location of the regional private Catholic High School.

Subarea B is a 9.93+/- acre site designated as Residential High Density and is intended to be an apartment site with a minimum density of 18 units per acre.

Subarea C is a 22.14+/- acre site designated as Residential Low Medium Density with a zoning of RLM 4.5 and is intended to be developed as single family residential with a minimum square footage for the lots of 4,500 SF.

Subarea D is a 12.20+/- acre site designated as Residential Low Medium Density with a zoning of RLM 4.0 and is intended to be developed as single family residential with a minimum square footage of 4,000 SF.

Subarea E totals 18.9+/- acres and is designated Community Facility which includes the Public Streets and Landscaping.

Subarea F is a 49.23+/- acre site designated as Residential Low Medium Density with a zoning of RLM 4.0 and is intended to be developed as single family residential with a minimum square footage of 4,000 SF.

Subarea G is a 12.08+/- acre site designated as Residential Low Medium Density with a zoning of RLM 3.6 and is intended to be developed as single family residential with a minimum square footage of 3,600 SF.

Subarea H totals 6.0+/- acres and is designated Community Facility which has been designated for the Public Park.

Subarea I totals 11.0+/- acres and is designated Community Facility which has been designated for the Public School.

Subarea J is a 19.44+/- acre site designated as Residential Low Density with a zoning of RL-6 and is intended to be developed as single family residential with a minimum square footage of 6,000 SF.

TABLE 3.1 – BRIGHTON LANDING LAND USE SUMMARY

Sub Area	Land Use	Proposed Zoning	Approximate Area (Acres)	Residential Units	Density (Units/Acre)	Non Residential Uses
A	CF	CF	50.0	N/A	N/A	Private HS
B	RHD	RH	9.93	178	18.0	
C	RLMD	RLM 4.5	22.14	126	5.7	
D	RLMD	RLM 4.0	12.20	71	5.8	
E	CF	CF	20.97	N/A	N/A	Streets/LS
F	RLMD	RLM 4.0	49.23	337	6.8	
G	RLMD	RLM 3.6	12.08	77	6.4	
H	CF	CF	6.0	N/A	N/A	Public Park
I	CF	CF	11.0	N/A	N/A	Public School
J	RLD	RL 6	19.44	96	4.9	
K	CN	CN	4.67	N/A	N/A	Neighborhood Commercial (w/option for residential)
K1*	RLD	RL 8	4.67	13	2.78	
TOTAL			**217.66**	**885 (898*)**	**4.07****	

* - The "K" Subarea has the option of going with Residential Low Density which is shown as K1

** - 4.07 Units per acre represents to overall residential density with all components included. The Total Land Use Density Excluding the School Properties (61.00 Ac), the Park (6.00 Ac), and the Neighborhood Commercial (4.67 Ac) is **6.06 units per acre**. If the residential option (K1) is chosen for the 4.67 acre area at the corner of Leisure Town Road at Elmira the density is **5.96 units per acre**.

The build out of the Brighton Landing project is to be consistent with the Specific Plan for the Brighton Landing project as well as the City of Vacaville General Plan.

A COMMUNITY FACILITY
PRIVATE SCHOOL
50.02 ± AC

B RESIDENTIAL HIGH DENSITY
9.93 ± AC

C RESIDENTIAL LOW MEDIUM DENSITY
22.14 ± AC

D RESIDENTIAL LOW MEDIUM DENSITY
12.20 ± AC

E COMMUNITY FACILITY
PUBLIC ROAD AND LANDSCAPING

F RESIDENTIAL LOW MEDIUM DENSITY
49.23 ± AC

G RESIDENTIAL LOW MEDIUM DENSITY
12.08 ± AC

H COMMUNITY FACILITY
NEIGHBORHOOD PARK
6.0 ± AC

I COMMUNITY FACILITY
PUBLIC SCHOOL
11.0 ± AC

J RESIDENTIAL LOW DENSITY
19.44 ± AC

K COMMERCIAL NEIGHBORHOOD WITH OPTION FOR RESIDENTIAL
4.8 ± AC

← N —

PROPOSED LAND USE

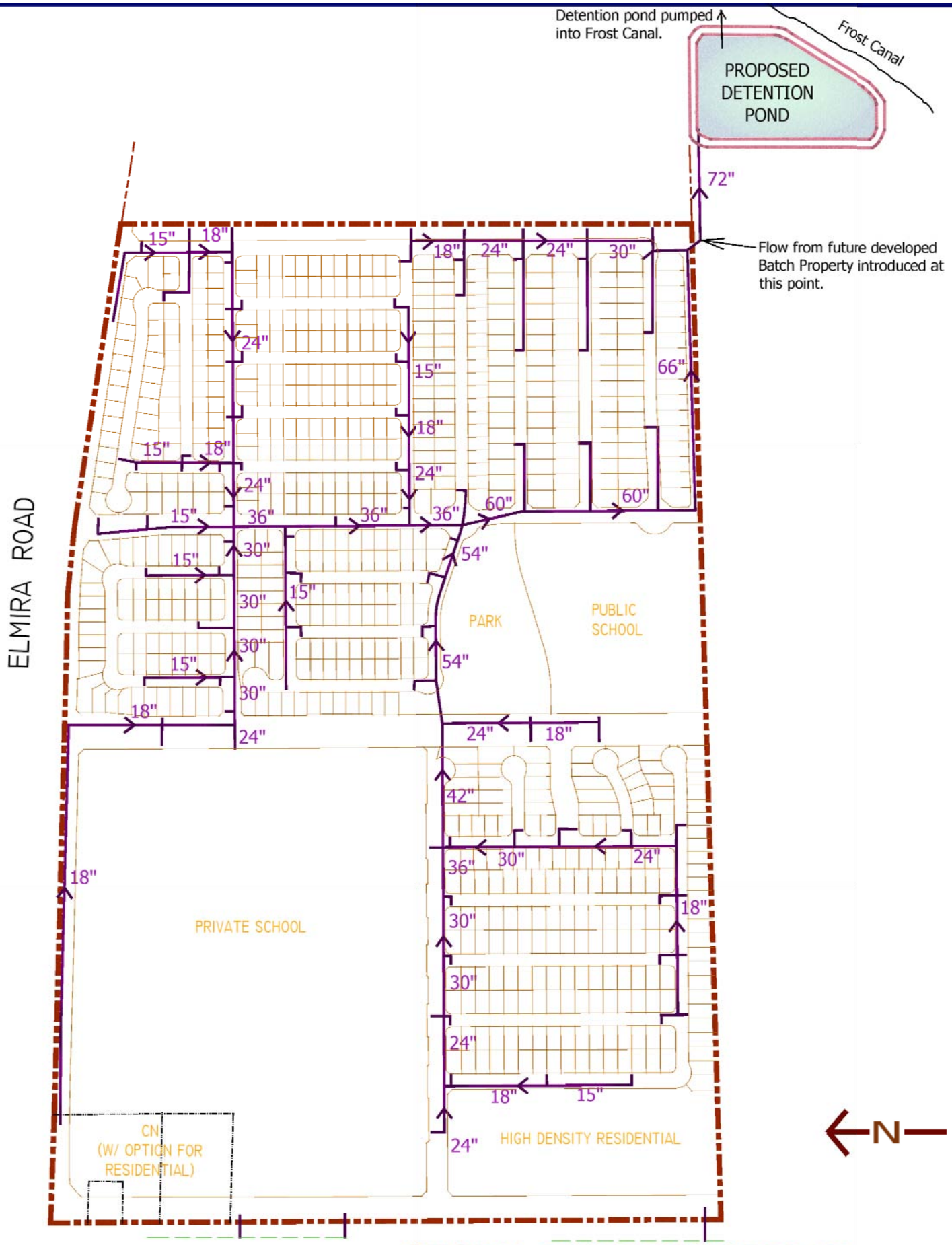
FIGURE 3.1 BRIGHTON LANDING

3.2 PROPOSED STORM DRAIN FACILITIES

The storm drain collection system in Brighton Landing shall be consistent with the most current edition of the *City of Vacaville Standard Specifications and Drawings*.

The Brighton Landing project will construct the necessary onsite storm drain facilities, as shown on Figure 3.2, to convey storm water to the southeast corner of the project. A 72-inch storm drain conveys flows from the project to a proposed detention facility.

Project detention facility will be designed to mitigate the increase of the 10 year and 100 year peak runoff from the project site over the predevelopment conditions. Detention facilities will also be designed to prevent any net detrimental change in runoff quality resulting from project development. This detention facility will be designed to accommodate flow from both Brighton Landing and the future development of adjacent Batch Property, and will be equipped with a pumping mechanism to allow for discharge into the existing Solano Irrigation District Frost Canal.



STORM DRAIN MASTER PLAN

FIGURE 3.2

BRIGHTON LANDING
STORM DRAIN MODELING STUDY

4.0 STORM SEWER MODELING

4.1 STORM DRAIN PROJECT AREA

Analysis of storm drainage for this project includes both Brighton Landing Subdivision and the adjacent Batch Property to the south, with the overall area being bound to the west by Leisure Town Road, to the north by Elmira Road, to the east by existing power poles and railroad facilities, and to the south by Fry Road. Brighton Landing Subdivision contributes approximately 217.7 acres of watershed to the basin and the Batch Property contributes approximately 253.3 acres. In total, the basin will received approximately 471.0 acres of developed area runoff.

4.2 METHODOLOGY

Due to the necessity of a detention facility, pre-development and post-development 10-Year and 100-Year return storm events must be analyzed using HEC-HMS software.

Each development is divided into various subsheds and routed toward the downstream detention facility. The subsheds for the Brighton Landing Subdivision are organized based on planned topography and conveyance facilities; the subsheds for the Batch Property are organized generically in the absence of topographic and conveyance facility planning.

The rainfall distribution and rainfall depth is used for a 24-hour duration of the 10-Year and 100-Year events. Using the *Solano County Water Agency June 1999 Hydrology Manual* to determine the mean annual precipitation of the project area for the appropriate storm events, the City of Vacaville unit rainfall distribution, shown in Table DS 4-2 of the *City of Vacaville Design Standards*, can be amplified to create rainfall distribution patterns for larger events that follow the historical rainfall patterns observed in Vacaville.

Initial and constant rainfall losses are set in the model to determine how much rainfall is lost to initial saturation of terrain and the continued infiltration of water into the ground during the course of the storm. This information will allow the model to transform rainfall excess into runoff.

The computed results from HEC-HMS include peak discharge, total precipitation, total loss, total excess, total direct runoff, total baseflow, and discharge. Additionally, maximum flows into the detention facility, maximum water levels, and start and stop times for basin discharge are shown. Subshed summaries, rainfall diagrams, flow hydrographs and reservoir storage and flow charts are included in the appendix of this report.

HEC-HMS performed the computations for this model using the Kinematic Wave Transform Method.

Detailed onsite computations for the storm water conveyance systems of both projects will be performed with Autodesk Storm and Sanitary Analysis 2011 at later times.

4.3 EXISTING PROJECT AREA RUNOFF

The 10-Year return event generates approximately 97.4 cubic feet per second (CFS) of runoff from the Brighton Landing Subdivision area, while 152.1 CFS is generated by the Batch Property, resulting in a total runoff of 249.5 CFS.

The 100-Year return event generates approximately 161.1 cubic feet per second (CFS) of runoff from the Brighton Landing Subdivision area, while 245.1 CFS is generated by the Batch Property, resulting in a total runoff of 406.2 CFS.

4.4 DETENTION FACILITIES

A 120+/- acre-foot (AF) capacity detention facility will be constructed on the neighboring Batch Property, to the southeast of the project. In the interim, the Brighton Landing project will be the sole contributor of flow into the basin; ultimately, the developed Batch Property will contribute as well.

Due to topographic restrictions, the detention facility will be equipped with a pumping mechanism to provide discharge of accumulating storm water, with an anticipated maximum pumping capacity of 80 CFS. The pump will be located in a sump that will be designed to provide an efficient minimum running time for the pump in order to prevent excessive starting and stopping of the pump.

The basin will continue to discharge site runoff into the existing Solano Irrigation District Frost Canal.

5.0 BRIGHTON LANDING PROJECT MODELING RESULTS

5.1 DESIGN FLOW

The 10-Year and 100-Year analyses of the basin are based on both projects being fully developed and tributary.

Under 10-Year conditions, Brighton Landing will contribute approximately 265.2 CFS peak flow into the basin while the Batch Property will contribute approximately 233.9 CFS peak flow into the basin. The timing of the confluence of the two peak flows is not perfectly harmonious; therefore, the resulting total peak flow into the basin is estimated to be 487.6 CFS, or 197% of the existing condition.

Under 100-Year conditions, Brighton Landing will contribute approximately 408.4 CFS peak flow into the basin while the Batch Property will contribute approximately 368.3 CFS peak flow into the basin. The timing of the confluence of the two peak flows is not perfectly harmonious; therefore, the resulting total peak flow into the basin is estimated to be 764 CFS, or 188% of the existing condition.

5.2 DETENTION FACILITIES

During the 10-Year return event of 24 hour duration, at approximately 11:05 hours, the detention facility will reach a maximum storage volume of 71.6 AF with a maximum water surface elevation (WSE) of 70.8 . Peak flow into the basin will reach a maximum of 487.6 CFS at 06:40 hours. Pumped discharge of the basin will begin at WSE 64.0, at approximately 04:50 hours, at a rate of 80 CFS, and will continue until the sump containing the pumping mechanism is empty. The basin will be completely discharged at approximately 41:15 hours.

The 80 CFS rate of discharge from the basin represents 32.0% of the combined pre-development runoff.

During the 100-Year return event of 24 hour duration, at approximately 12:40 hours, the detention facility will reach a maximum storage volume of 121.6 AF with a maximum water surface elevation (WSE) of 75.8 . Peak flow into the basin will reach a maximum of 764.3 CFS at 06:40 hours. Pumped discharge of the basin will begin at WSE 64.0, at approximately 03:55 hours, at a rate of 80 CFS, and will continue until the sump containing the pumping mechanism is empty. The basin will be completely discharged at approximately 53:30 hours.

The 80 CFS rate of discharge from the basin represents 10.4% of the combined pre-development runoff.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSION

The project impact to existing downstream facilities will be significantly decreased with the construction of the Brighton Landing Subdivision and its included storm water detention facility. As calculated, the detention facility will adequately store and discharge the 10-Year and 100-Year events for the combined post-development runoff of Brighton Landing Subdivision and the Batch Property.

6.2 RECOMMENDATION

Further study of the downstream improvements, particularly the Frost Canal and its crossing under Elmira Road, could provide information pertinent to the refinement of the detention facility and pump. Though the as calculated detention facility is greatly decreasing the flow into the Frost Canal, additional research of downstream capacities may lead to further refinements of the discharge mechanism.

Appendix

Pre-Development Condition Calculations

HEC-HMS

Project : 520120 EX

Basin Model : Existing

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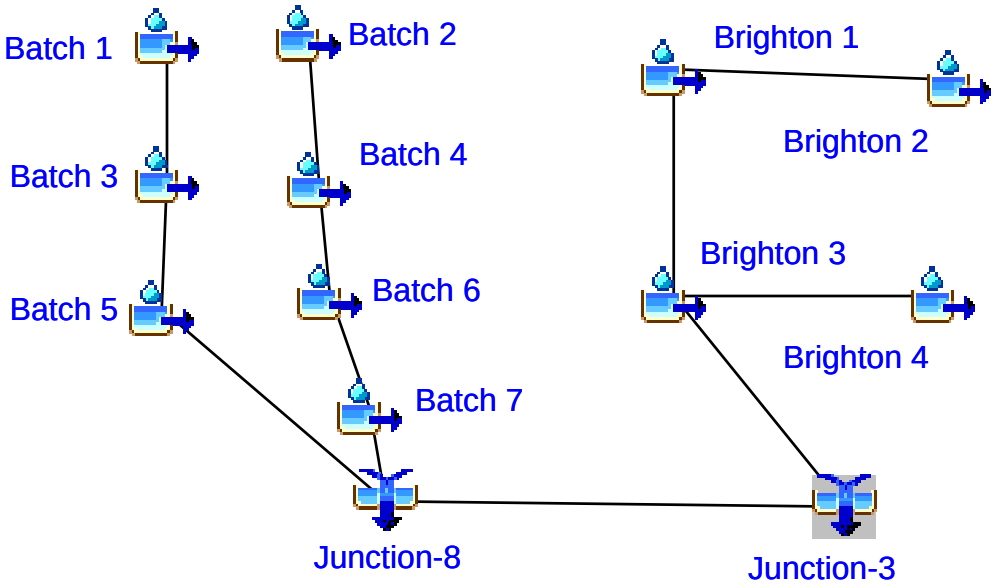
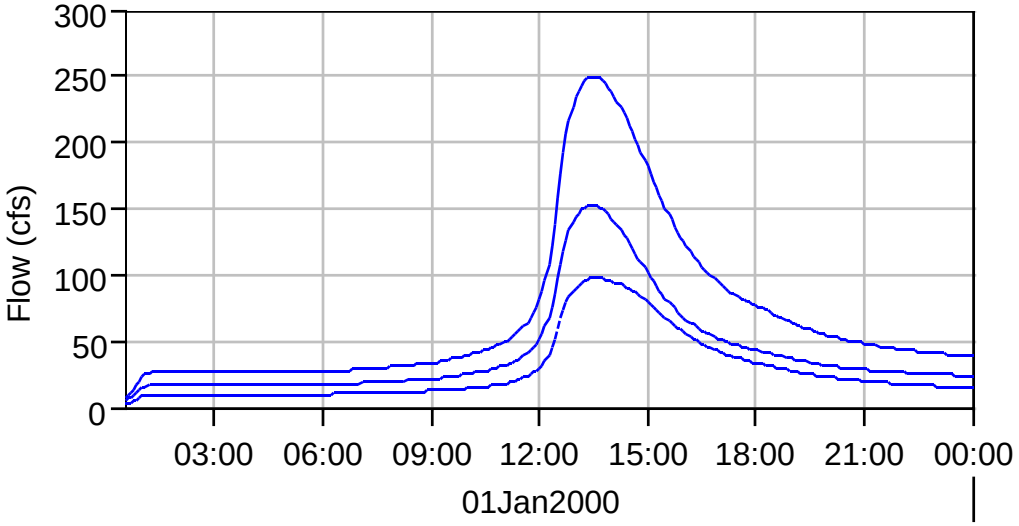


Project: 520120 EX Simulation Run: Brighton Ex 10yr-24hr

Start of Run: 01Jan2000, 00:30 Basin Model: Existing
End of Run: 02Jan2000, 00:00 Meteorologic Model: Brighton 10yr
Compute Time: 02Mar2011, 11:38:00 Control Specifications: Brighton Landing

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Batch 1	0.077	27.3	01Jan2000, 13:30	3.31
Batch 3	0.154	55.0	01Jan2000, 13:25	3.29
Batch 5	0.231	80.5	01Jan2000, 13:35	3.29
Batch 2	0.048	18.2	01Jan2000, 13:15	3.97
Batch 4	0.098	37.1	01Jan2000, 13:20	3.95
Batch 6	0.149	55.7	01Jan2000, 13:25	3.93
Batch 7	0.186	72.1	01Jan2000, 13:20	4.06
Junction-8	0.417	152.1	01Jan2000, 13:25	3.63
Brighton 2	0.088	27.1	01Jan2000, 13:30	3.10
Brighton 1	0.158	48.2	01Jan2000, 13:35	3.21
Brighton 4	0.083	26.5	01Jan2000, 13:15	3.21
Brighton 3	0.319	97.4	01Jan2000, 13:35	3.21
Junction-3	0.736	249.3	01Jan2000, 13:30	3.45

Junction "Junction-3" Results for Run "Brighton Ex 10yr-24hr"



Run:Brighton Ex 10yr-24hr Element:JUNCTION-3 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:JUNCTION-8 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Batch 1

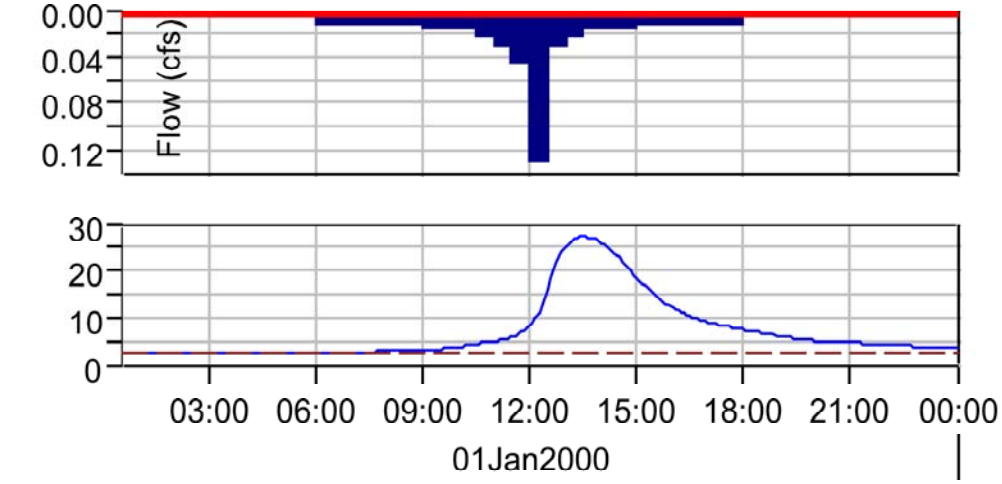
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	27.3 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:30
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.13 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	1.18 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.31 (IN)

Subbasin "Batch 1" Results for Run "Brighton Ex 10yr-24hr"

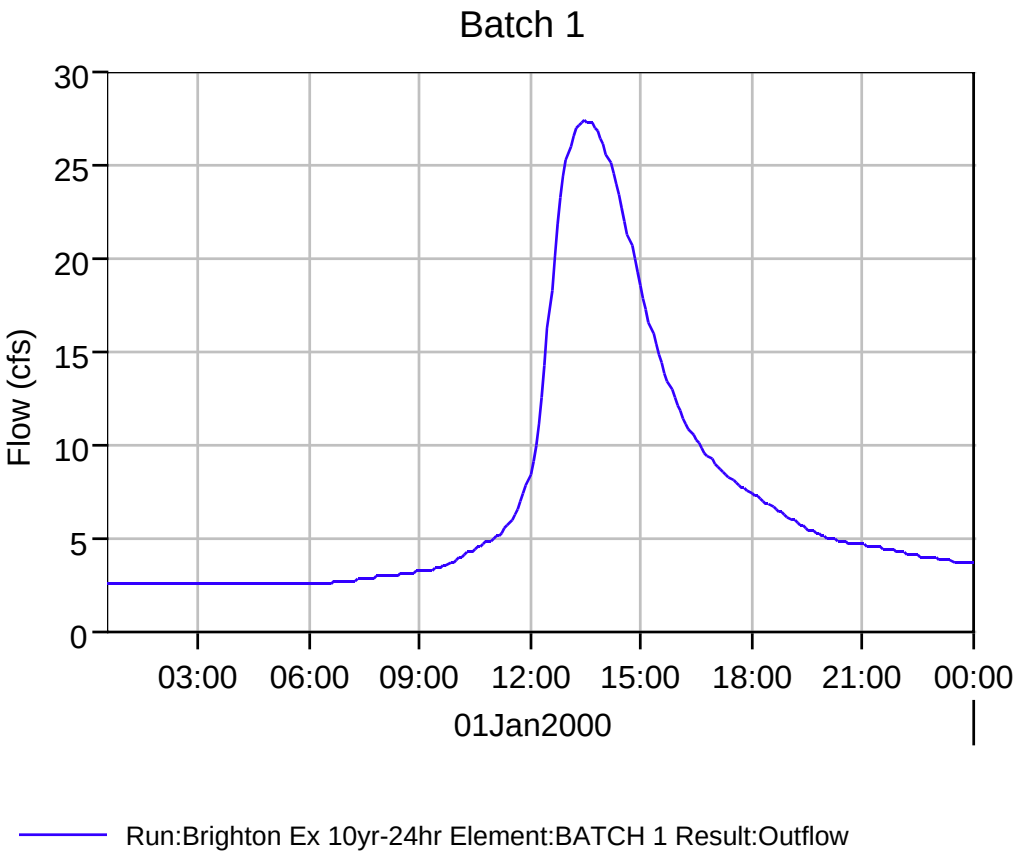


Run:Brighton Ex 10yr-24hr Element:BATCH 1 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BATCH 1-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BATCH 1 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 1 Result:Baseflow


Batch 1
Flow (cfs)
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BATCH 1 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Batch 2

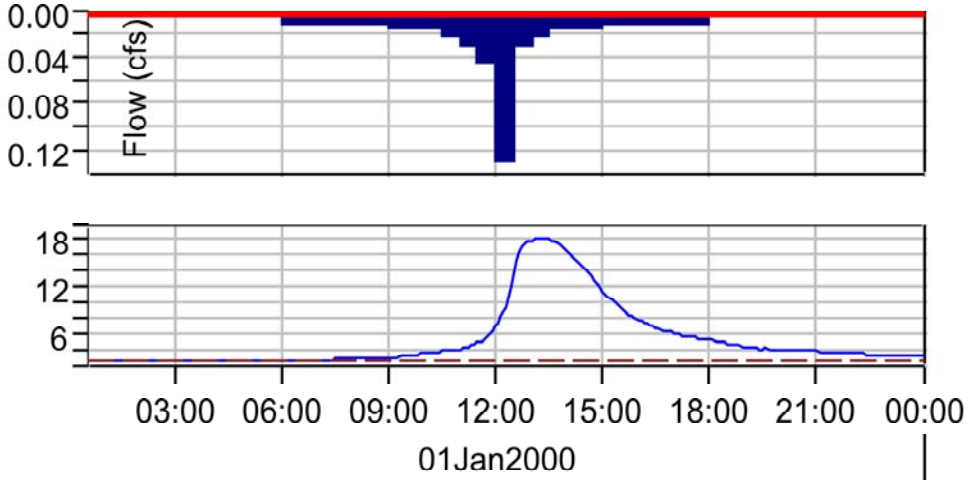
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	18.2 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:15
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.08 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	1.90 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.97 (IN)

Subbasin "Batch 2" Results for Run "Brighton Ex 10yr-24hr"

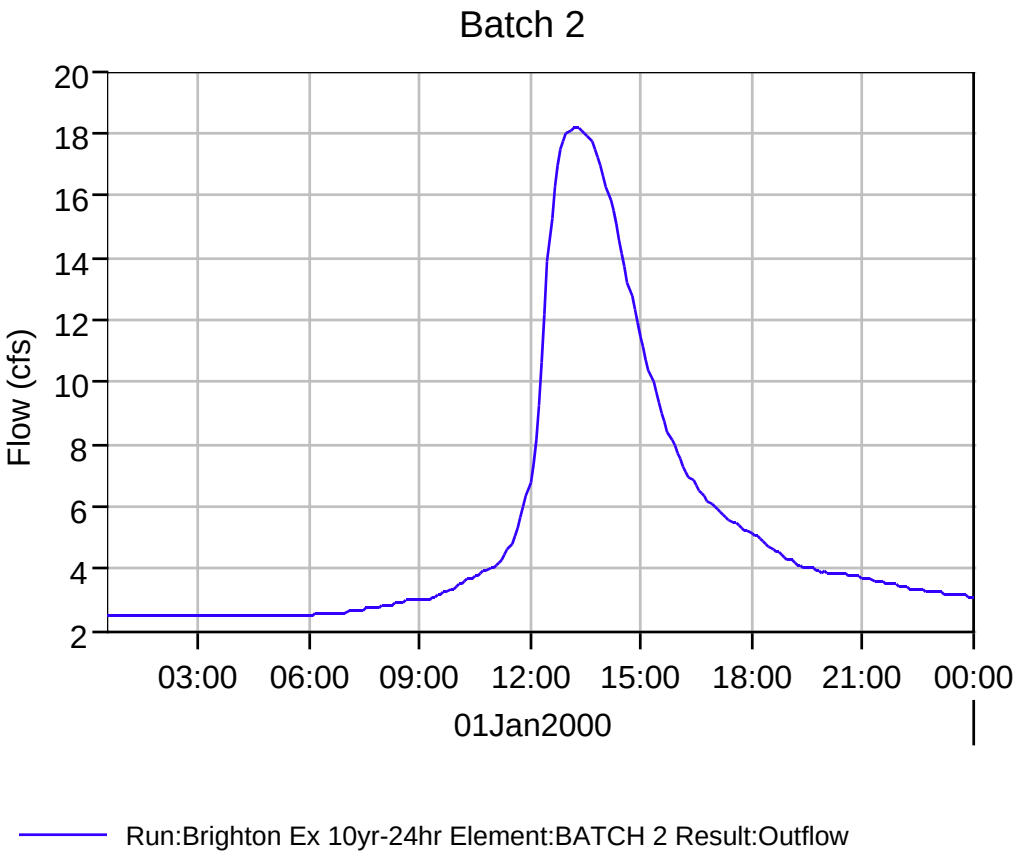


Run:Brighton Ex 10yr-24hr Element:BATCH 2 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BATCH 2-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BATCH 2 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 2 Result:Baseflow


Batch 2
Flow (cfs)
20
18
16
14
12
10
8
6
4
2
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BATCH 2 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Batch 3

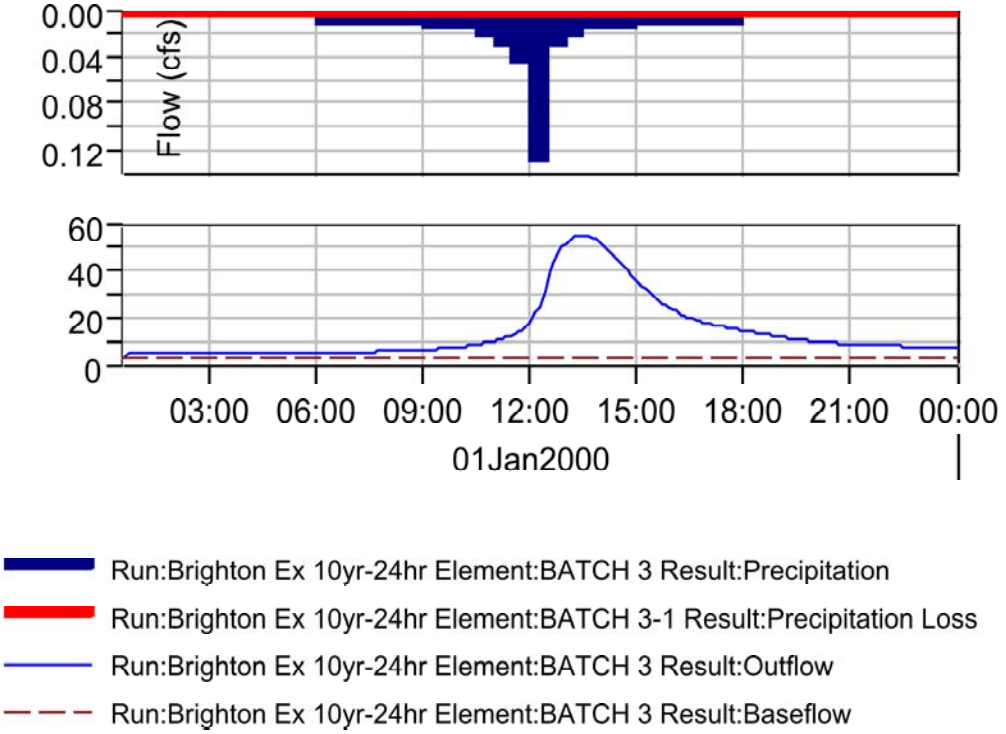
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

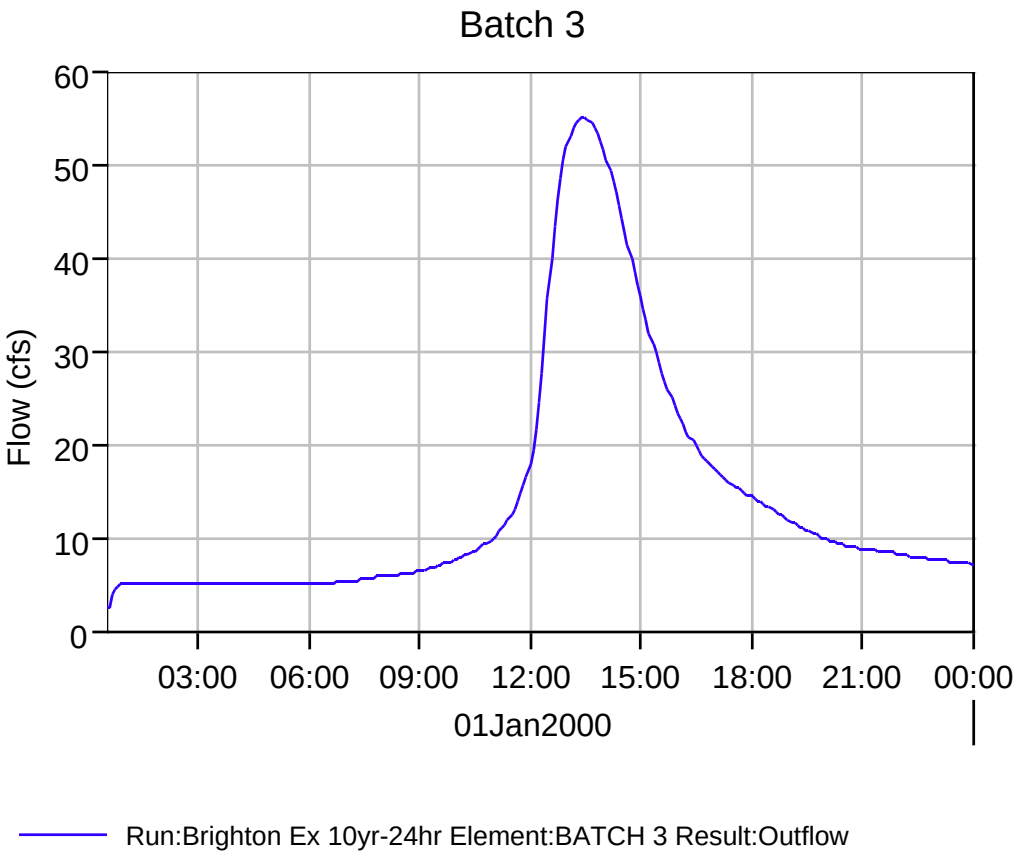
Volume Units: IN

Computed Results

Peak Discharge :	55.0 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:25
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.70 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	0.59 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.29 (IN)

Subbasin "Batch 3" Results for Run "Brighton Ex 10yr-24hr"




Batch 3
Flow (cfs)
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BATCH 3 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Batch 4

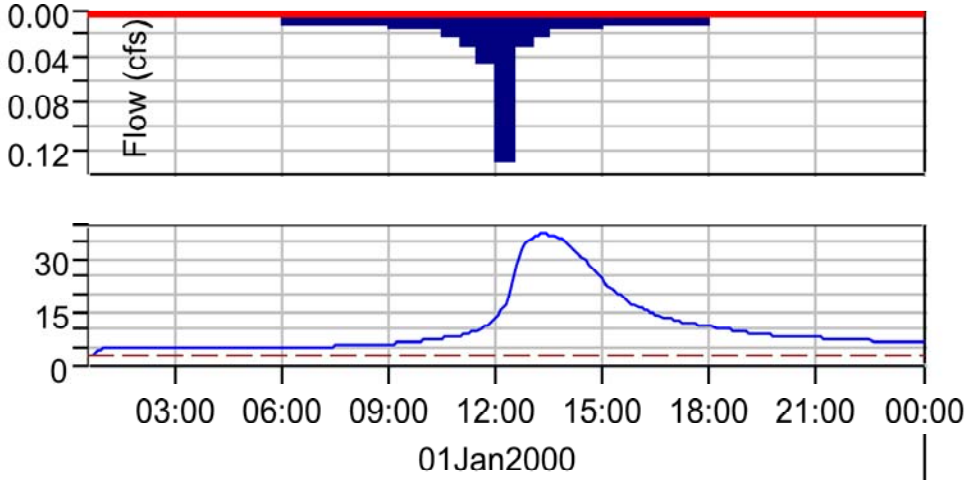
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	37.1 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:20
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	3.03 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	0.93 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.95 (IN)

Subbasin "Batch 4" Results for Run "Brighton Ex 10yr-24hr"

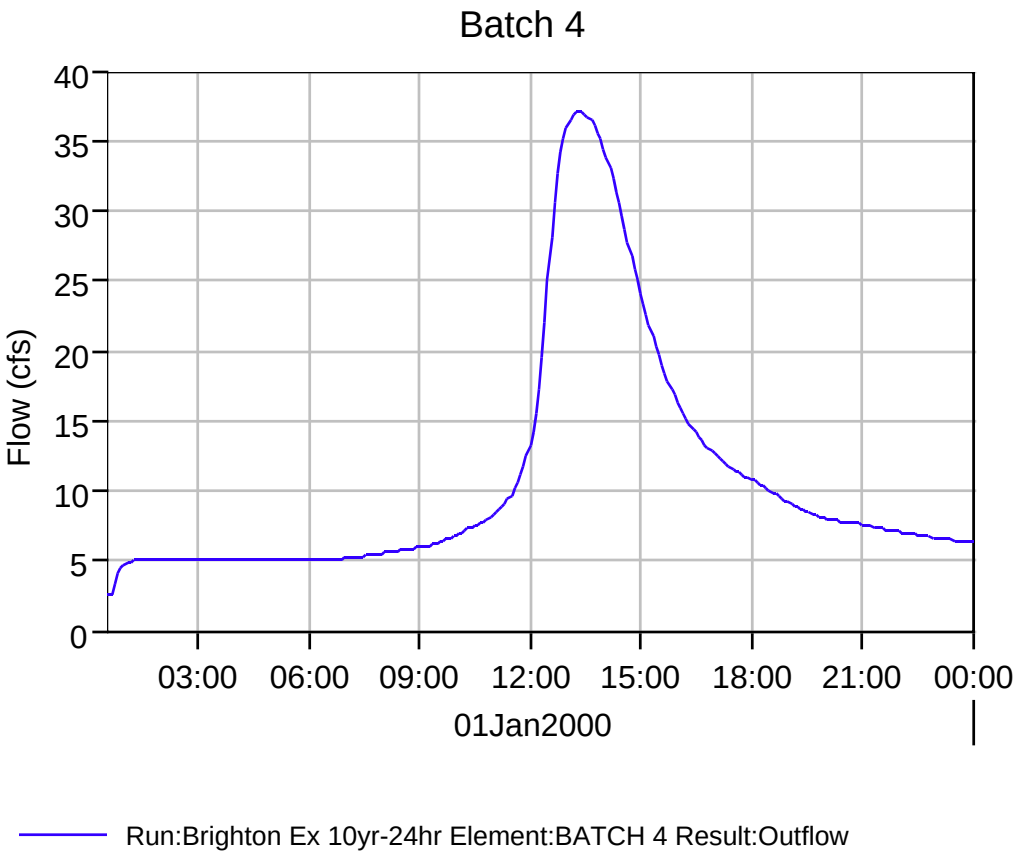


Run:Brighton Ex 10yr-24hr Element:BATCH 4 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BATCH 4-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BATCH 4 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 4 Result:Baseflow


Batch 4
Flow (cfs)
40
35
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BATCH 4 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Batch 5

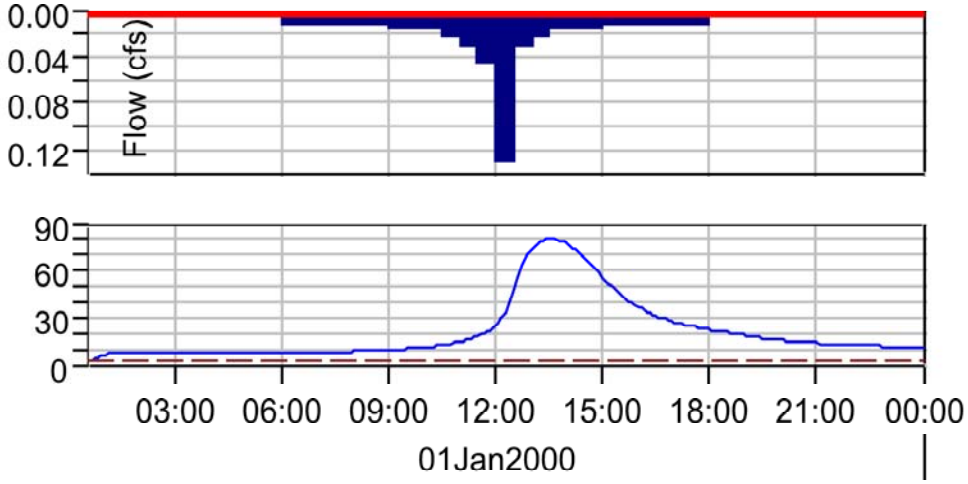
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	80.5 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:35
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.89 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	0.39 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.29 (IN)

Subbasin "Batch 5" Results for Run "Brighton Ex 10yr-24hr"

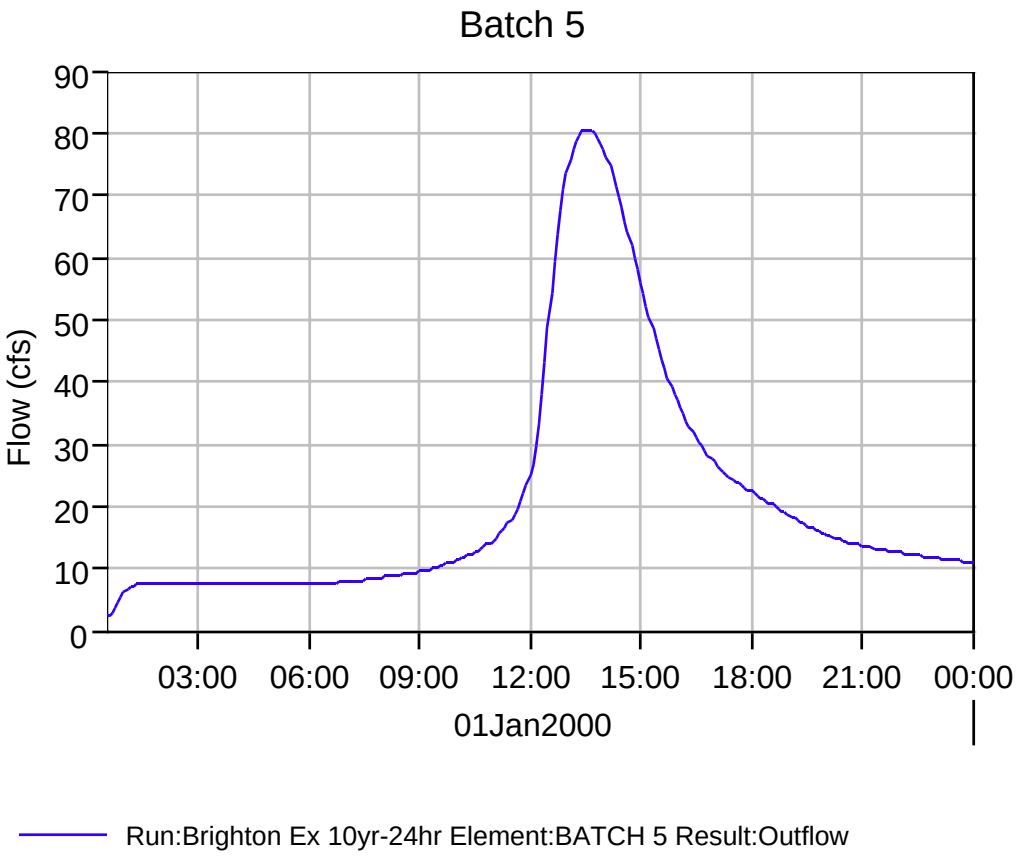


Run:Brighton Ex 10yr-24hr Element:BATCH 5 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BATCH 5-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BATCH 5 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 5 Result:Baseflow


Batch 5
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BATCH 5 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Batch 6

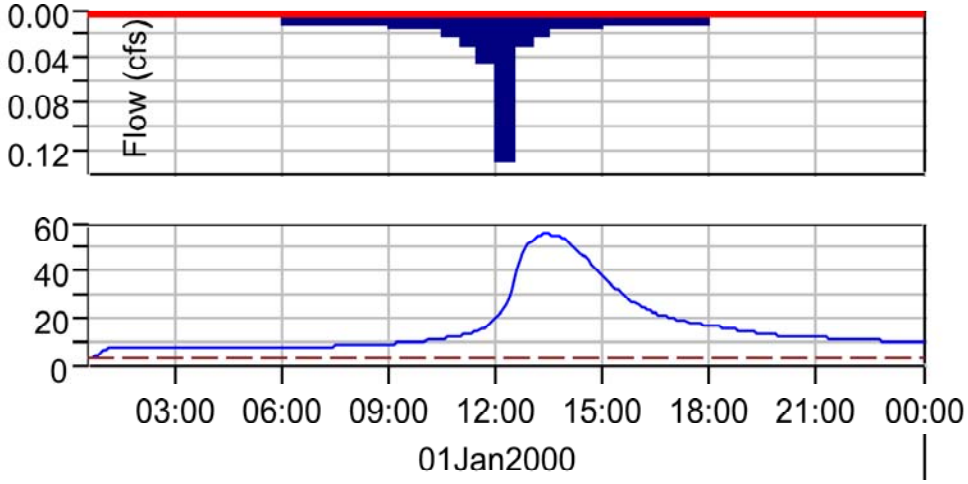
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	55.7 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:25
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	3.31 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	0.61 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.93 (IN)

Subbasin "Batch 6" Results for Run "Brighton Ex 10yr-24hr"

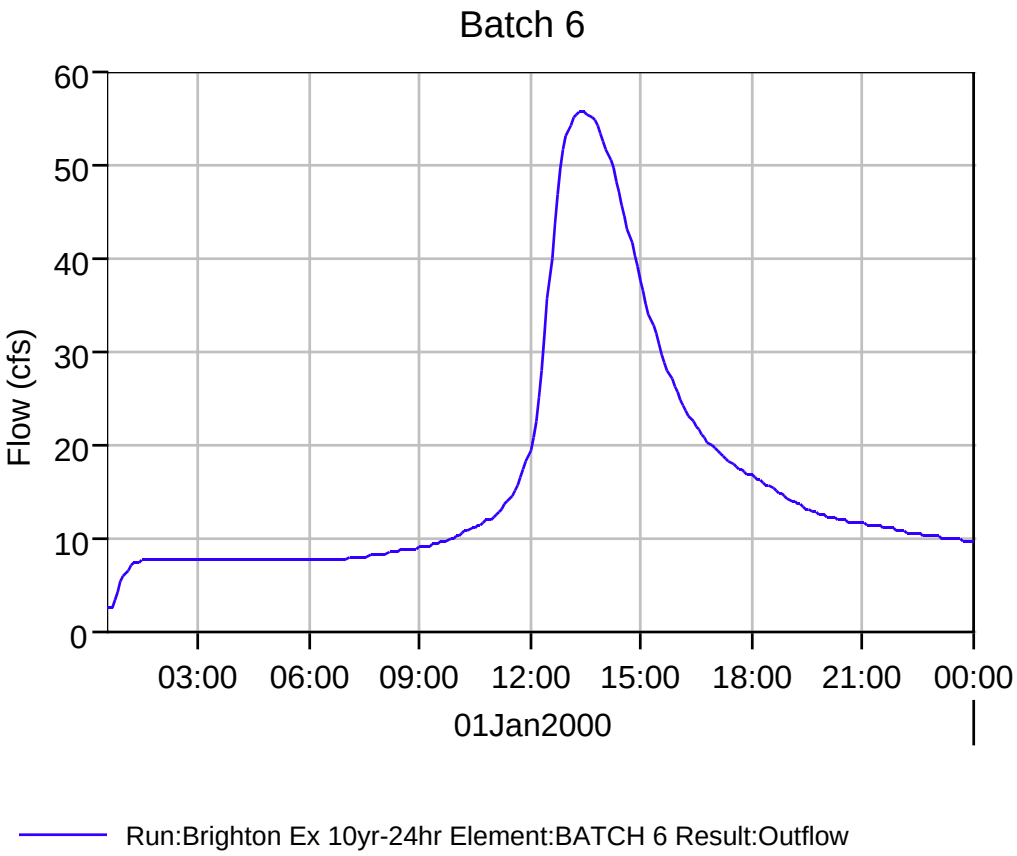


Run:Brighton Ex 10yr-24hr Element:BATCH 6 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BATCH 6-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BATCH 6 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 6 Result:Baseflow


Batch 6
Flow (cfs)
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BATCH 6 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Batch 7

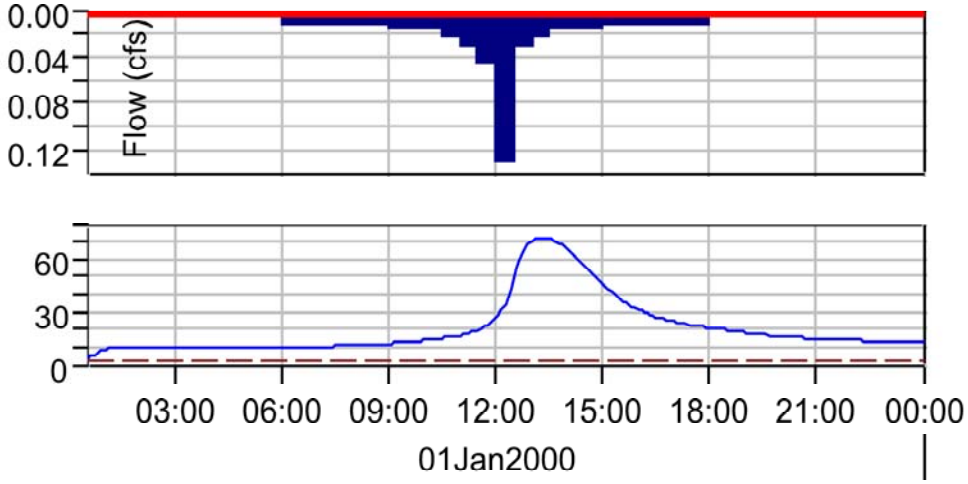
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	72.1 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:20
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	3.57 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	0.49 (IN)
Total Excess :	2.30 (IN)	Discharge :	4.06 (IN)

Subbasin "Batch 7" Results for Run "Brighton Ex 10yr-24hr"

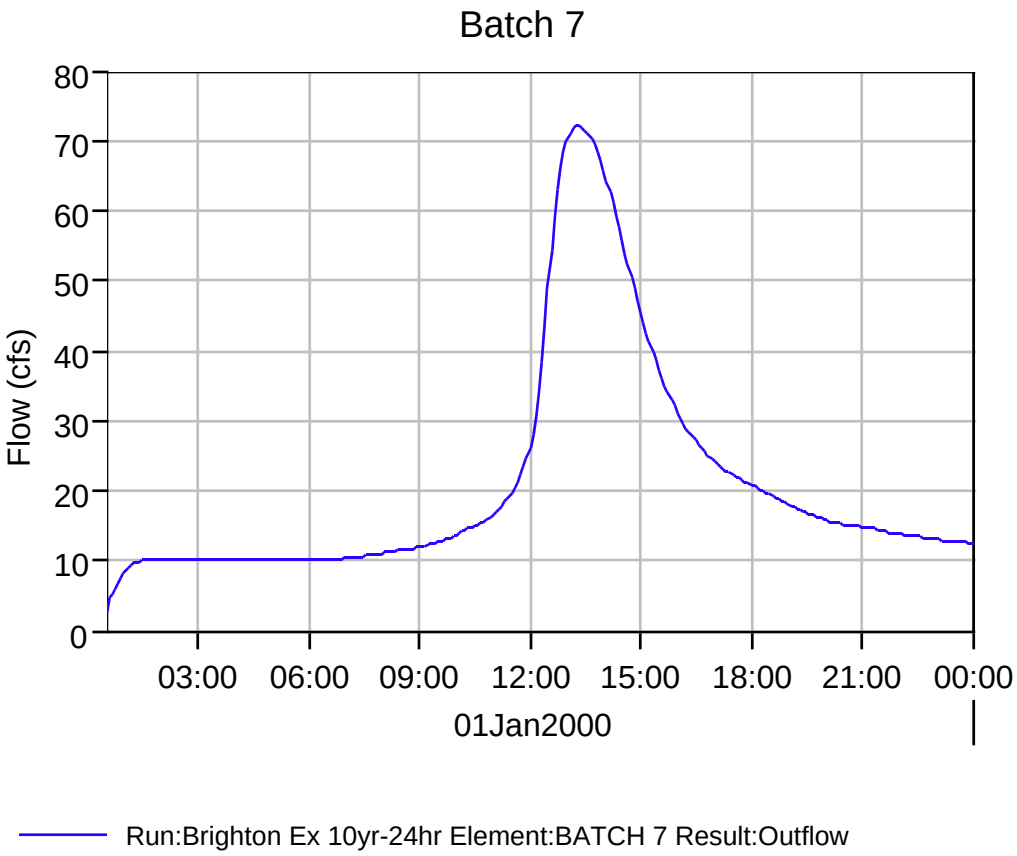


Run:Brighton Ex 10yr-24hr Element:BATCH 7 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BATCH 7-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BATCH 7 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 7 Result:Baseflow


Batch 7
Flow (cfs)
80
70
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BATCH 7 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Junction: Junction-8

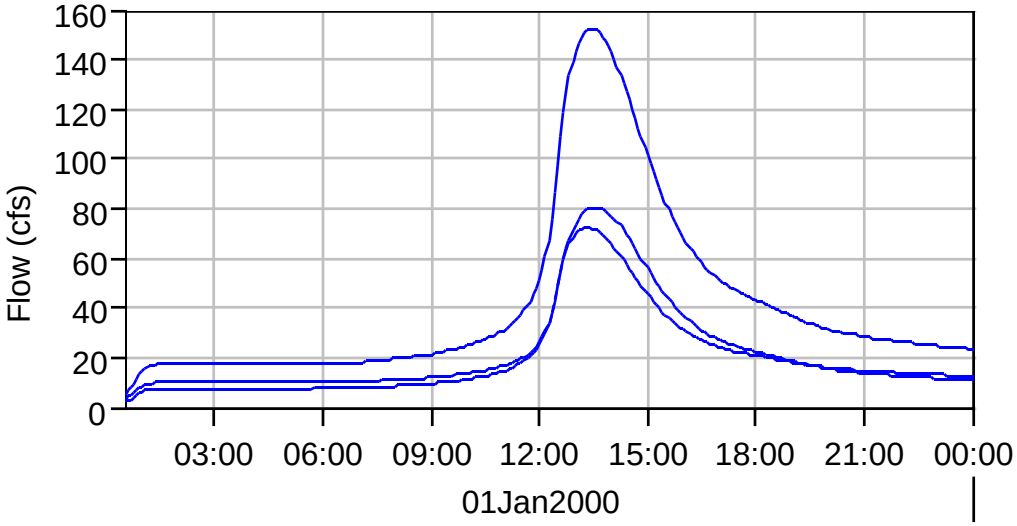
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Outflow :	152.1 (CFS)	Date/Time of Peak Outflow :	01Jan2000, 13:25
Total Outflow :	3.63 (IN)		

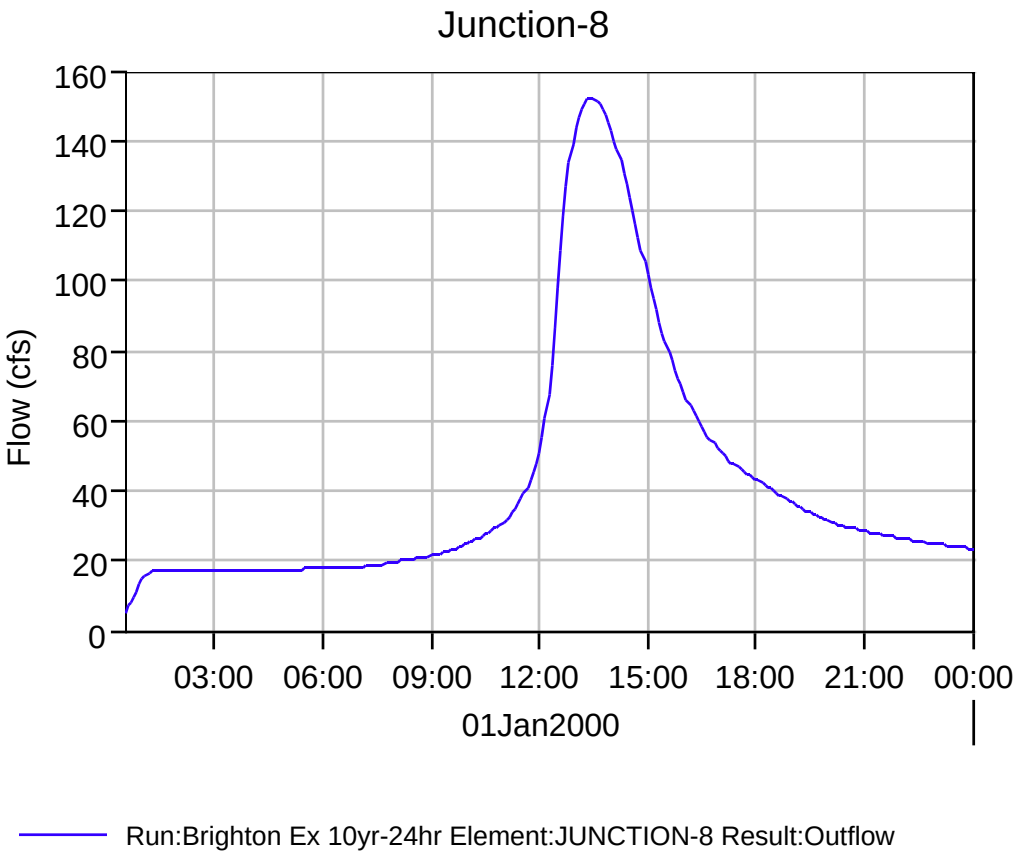
Junction "Junction-8" Results for Run "Brighton Ex 10yr-24hr"



Run:Brighton Ex 10yr-24hr Element:JUNCTION-8 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 5 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BATCH 7 Result:Outflow


Junction-8
Flow (cfs)
160
140
120
100
80
60
40
20
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:JUNCTION-8 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Brighton 1

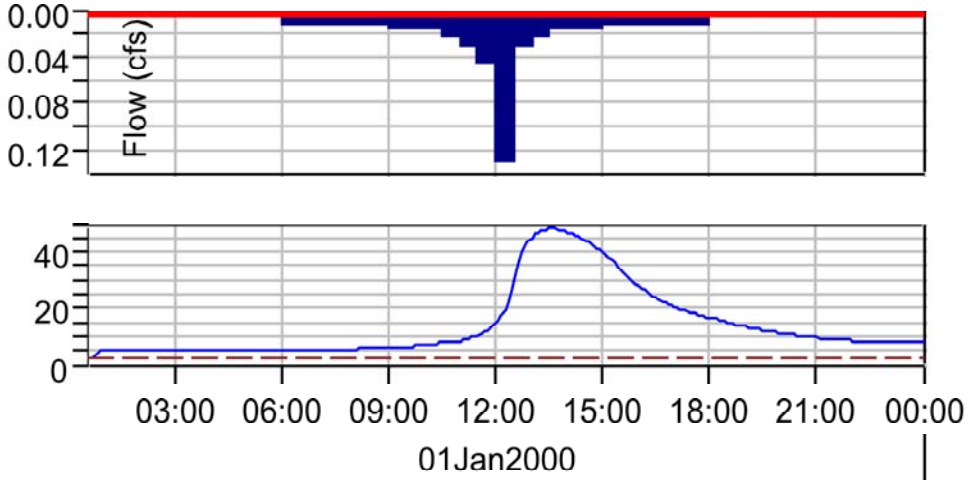
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	48.2 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:35
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.63 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	0.58 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.21 (IN)

Subbasin "Brighton 1" Results for Run "Brighton Ex 10yr-24hr"

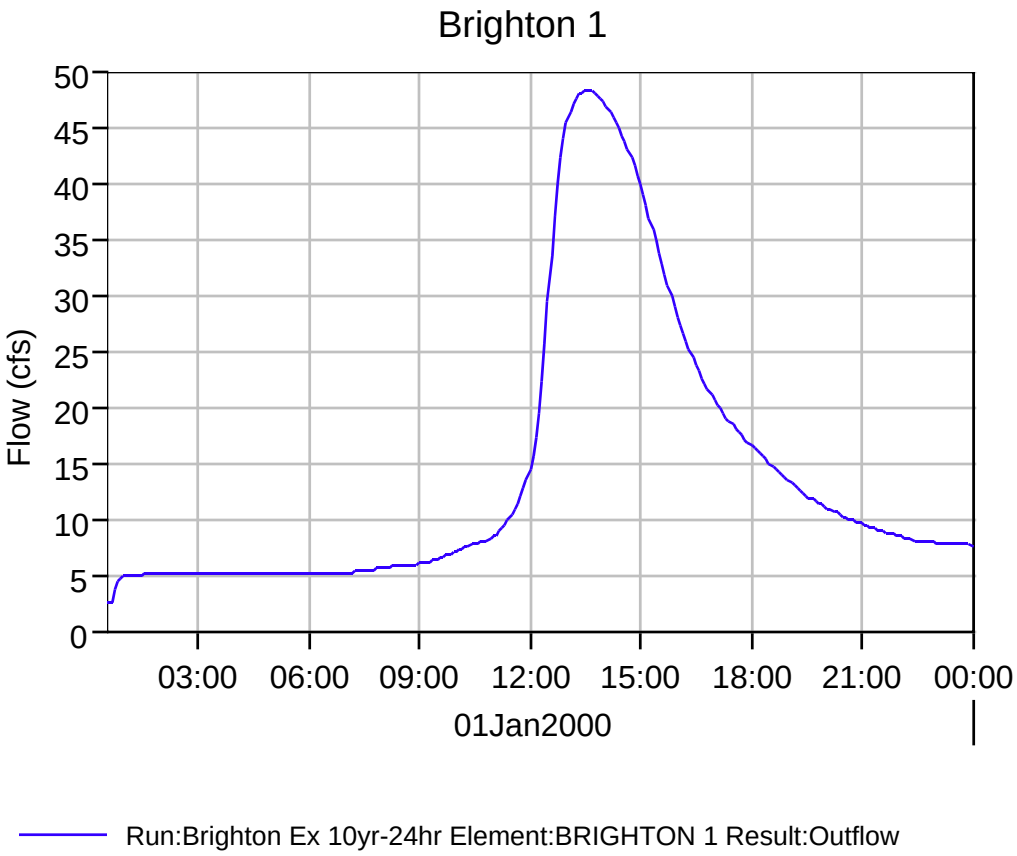


Run:Brighton Ex 10yr-24hr Element:BRIGHTON 1 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 1-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 1 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 1 Result:Baseflow


Brighton 1
Flow (cfs)
50
45
40
35
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BRIGHTON 1 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Brighton 2

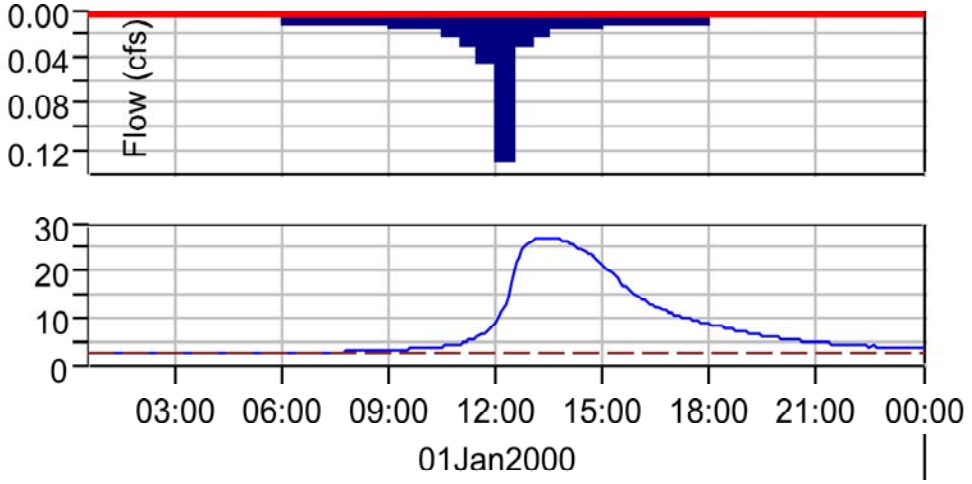
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	27.1 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:30
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.06 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	1.03 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.10 (IN)

Subbasin "Brighton 2" Results for Run "Brighton Ex 10yr-24hr"

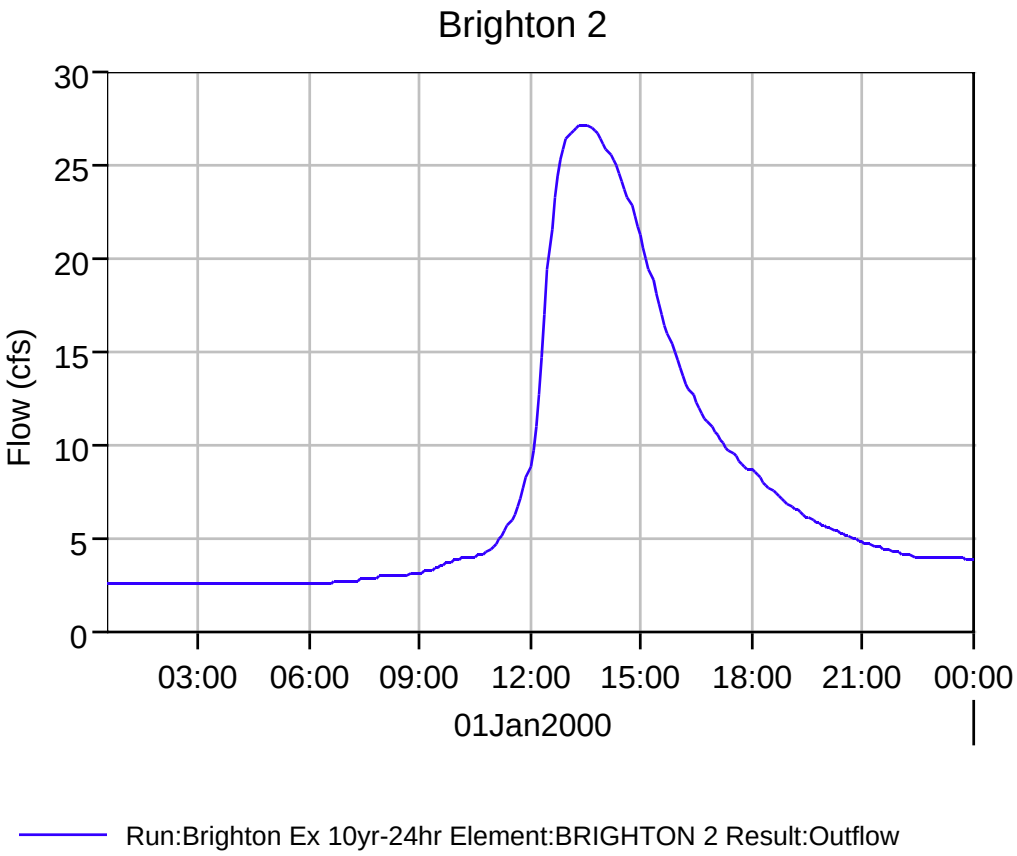


Run:Brighton Ex 10yr-24hr Element:BRIGHTON 2 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 2-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 2 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 2 Result:Baseflow


Brighton 2
Flow (cfs)
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BRIGHTON 2 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Brighton 3

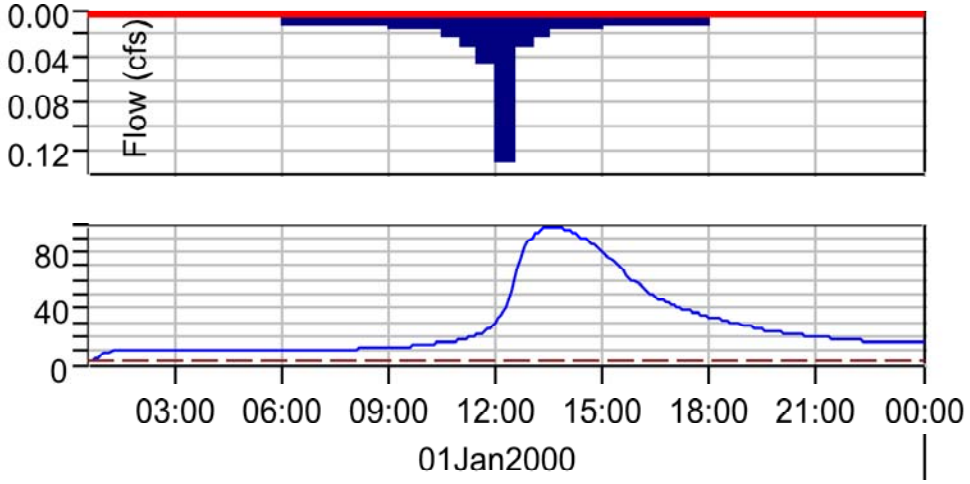
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	97.4 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:35
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.93 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	0.29 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.21 (IN)

Subbasin "Brighton 3" Results for Run "Brighton Ex 10yr-24hr"

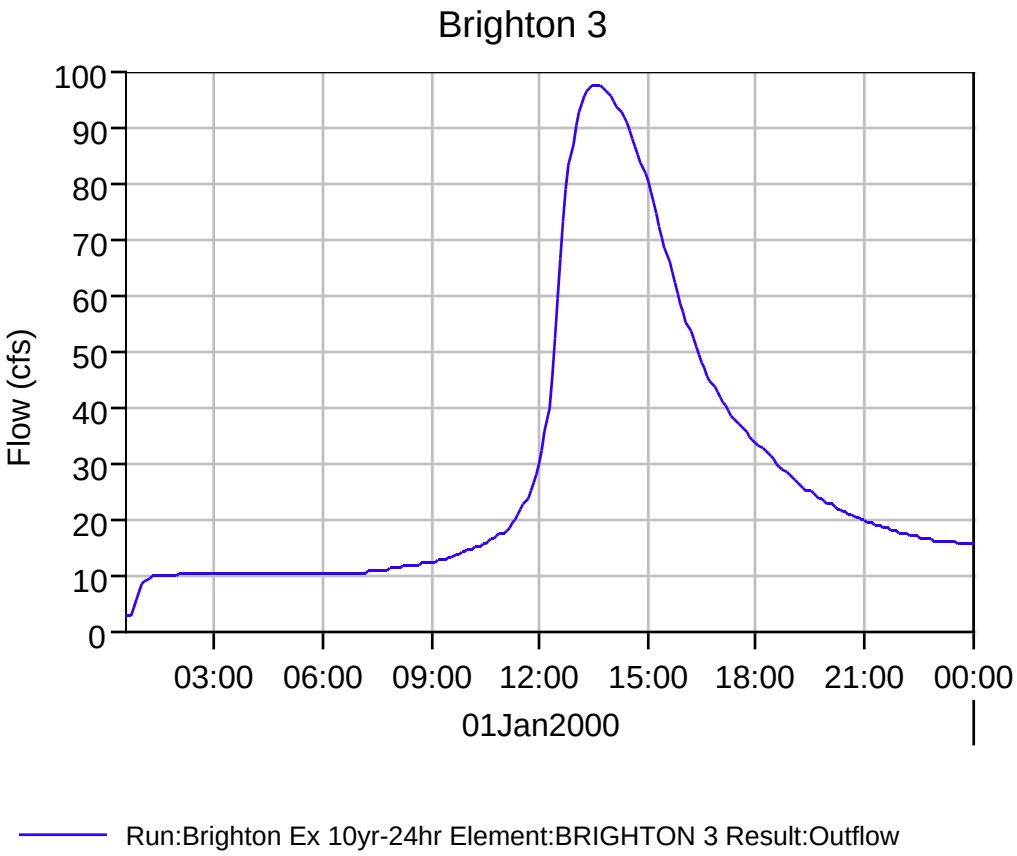


Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3 Result:Baseflow


Brighton 3
Flow (cfs)
100
90
80
70
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Subbasin: Brighton 4

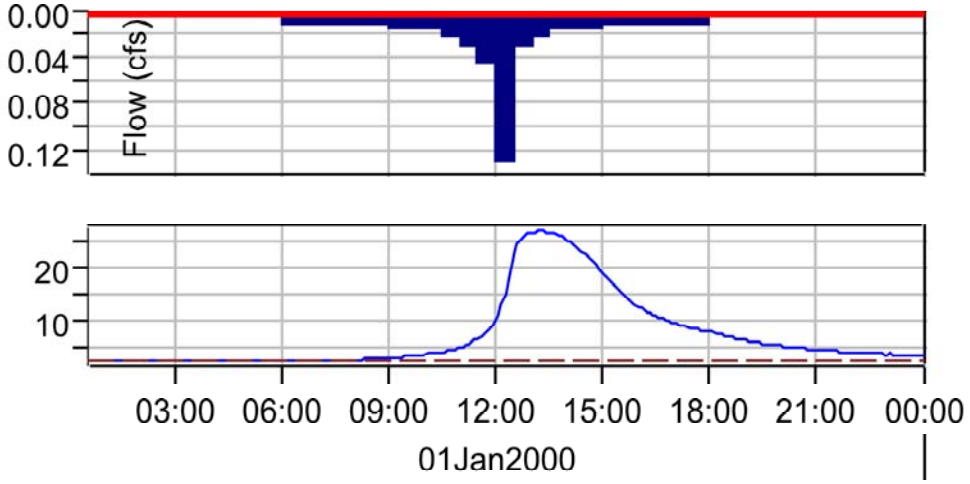
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	26.5 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:15
Total Precipitation :	3.97 (IN)	Total Direct Runoff :	2.12 (IN)
Total Loss :	1.67 (IN)	Total Baseflow :	1.10 (IN)
Total Excess :	2.30 (IN)	Discharge :	3.21 (IN)

Subbasin "Brighton 4" Results for Run "Brighton Ex 10yr-24hr"

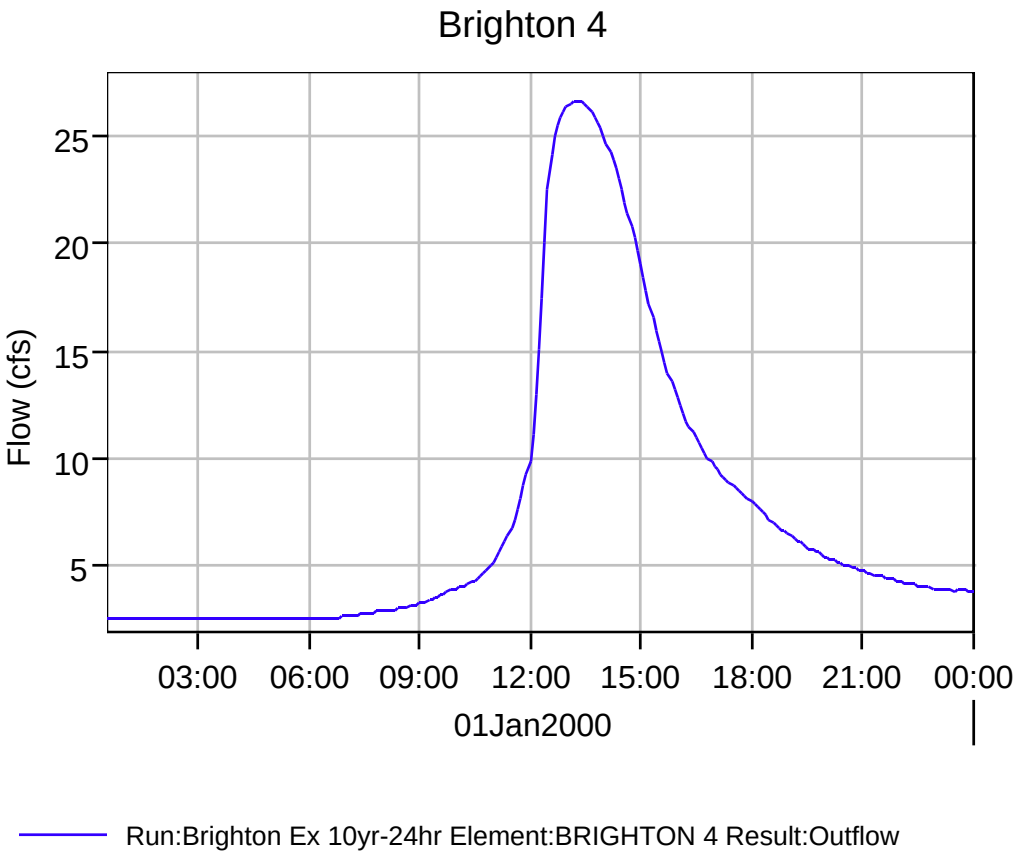


Run:Brighton Ex 10yr-24hr Element:BRIGHTON 4 Result:Precipitation

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 4-1 Result:Precipitation Loss

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 4 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 4 Result:Baseflow


Brighton 4
Flow (cfs)
25
20
15
10
5
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 10yr-24hr Element:BRIGHTON 4 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 10yr-24hr Junction: Junction-3

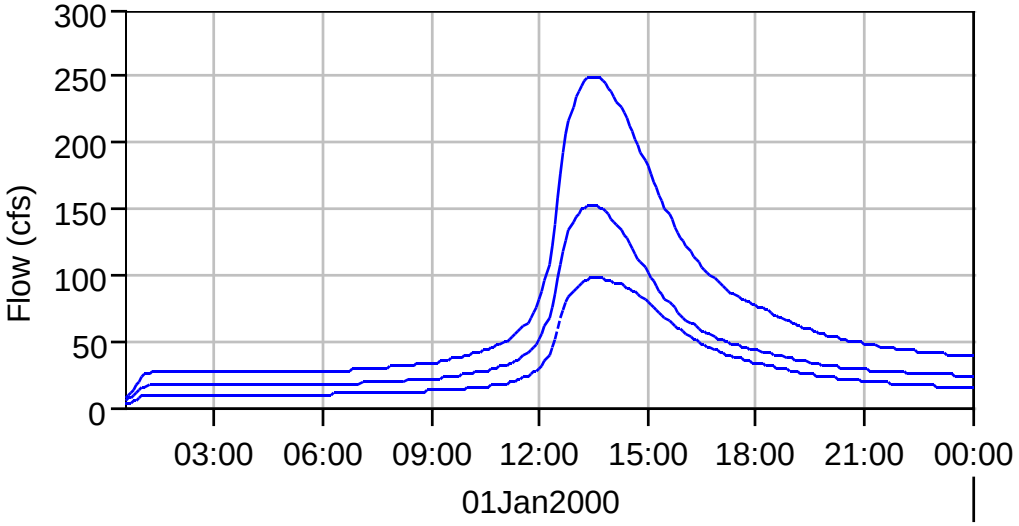
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 10yr
Compute Time:	02Mar2011, 11:38:00	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Outflow :	249.3 (CFS)	Date/Time of Peak Outflow :	01Jan2000, 13:30
Total Outflow :	3.45 (IN)		

Junction "Junction-3" Results for Run "Brighton Ex 10yr-24hr"

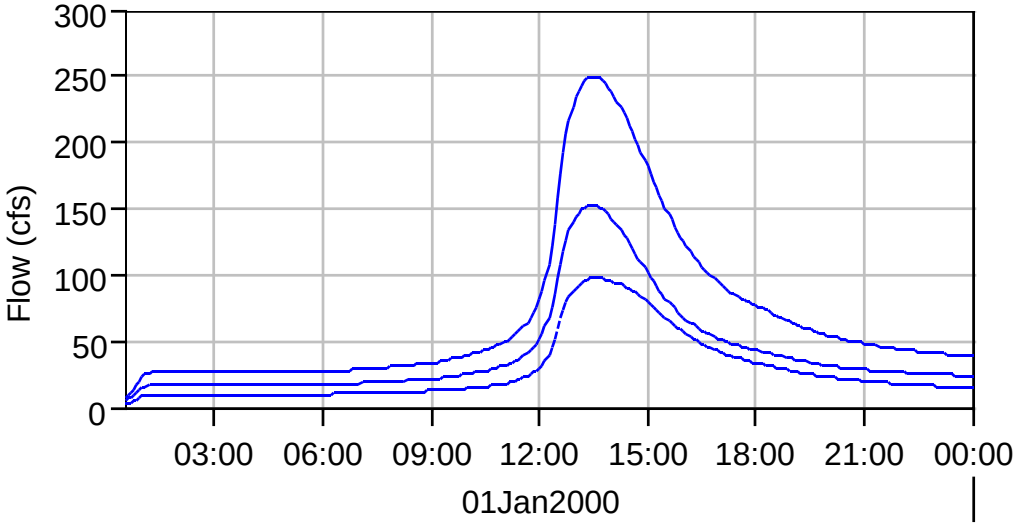


Run:Brighton Ex 10yr-24hr Element:JUNCTION-3 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:JUNCTION-8 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3 Result:Outflow

Junction "Junction-3" Results for Run "Brighton Ex 10yr-24hr"



Run:Brighton Ex 10yr-24hr Element:JUNCTION-3 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:JUNCTION-8 Result:Outflow

Run:Brighton Ex 10yr-24hr Element:BRIGHTON 3 Result:Outflow

Project: 250120 Dev
Simulation Run: Brighton-Batch 10yr-24hr Reservoir: Brighton Detention Pond

Start of Run: 01Jan2000, 00:30 Basin Model: Brighton Dev
End of Run: 03Jan2000, 00:00 Meteorologic Model: Brighton 10yr-24hr
Compute Time: 02Mar2011, 23:11:30 Control Specifications: Control 1

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	00:30	5.0	0.0	63.0	0.0	63.0
01Jan2000	00:35	11.8	0.1	63.0	1.4	63.0
01Jan2000	00:40	17.4	0.2	63.0	3.6	63.0
01Jan2000	00:45	21.4	0.3	63.1	6.2	63.1
01Jan2000	00:50	23.7	0.4	63.1	8.9	63.1
01Jan2000	00:55	25.1	0.5	63.1	11.5	63.1
01Jan2000	01:00	25.8	0.6	63.2	13.8	63.2
01Jan2000	01:05	26.2	0.6	63.2	15.8	63.2
01Jan2000	01:10	26.7	0.7	63.2	17.6	63.2
01Jan2000	01:15	27.1	0.8	63.2	19.1	63.2
01Jan2000	01:20	27.6	0.8	63.3	20.5	63.3
01Jan2000	01:25	28.2	0.9	63.3	21.7	63.3
01Jan2000	01:30	28.8	0.9	63.3	22.8	63.3
01Jan2000	01:35	29.3	0.9	63.3	23.9	63.3
01Jan2000	01:40	29.8	1.0	63.3	24.8	63.3
01Jan2000	01:45	30.2	1.0	63.3	25.7	63.3
01Jan2000	01:50	30.6	1.0	63.3	26.5	63.3
01Jan2000	01:55	31.1	1.1	63.3	27.2	63.3
01Jan2000	02:00	31.5	1.1	63.3	27.9	63.3
01Jan2000	02:05	31.9	1.1	63.4	28.5	63.4
01Jan2000	02:10	32.4	1.1	63.4	29.1	63.4
01Jan2000	02:15	32.9	1.2	63.4	29.7	63.4
01Jan2000	02:20	33.5	1.2	63.4	30.3	63.4
01Jan2000	02:25	34.1	1.2	63.4	30.9	63.4
01Jan2000	02:30	34.8	1.2	63.4	31.5	63.4

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	02:35	35.3	1.3	63.4	32.1	63.4
01Jan2000	02:40	36.1	1.3	63.4	32.7	63.4
01Jan2000	02:45	36.8	1.3	63.4	33.3	63.4
01Jan2000	02:50	37.6	1.3	63.4	33.9	63.4
01Jan2000	02:55	38.3	1.4	63.4	34.6	63.4
01Jan2000	03:00	39.1	1.4	63.4	35.3	63.4
01Jan2000	03:05	39.9	1.4	63.4	36.0	63.4
01Jan2000	03:10	40.8	1.4	63.5	36.7	63.5
01Jan2000	03:15	41.8	1.5	63.5	37.5	63.5
01Jan2000	03:20	43.1	1.5	63.5	38.3	63.5
01Jan2000	03:25	44.7	1.5	63.5	39.2	63.5
01Jan2000	03:30	46.8	1.6	63.5	40.3	63.5
01Jan2000	03:35	49.2	1.6	63.5	41.6	63.5
01Jan2000	03:40	52.0	1.7	63.5	43.1	63.5
01Jan2000	03:45	55.1	1.7	63.6	44.8	63.6
01Jan2000	03:50	58.4	1.8	63.6	46.8	63.6
01Jan2000	03:55	61.6	1.9	63.6	49.0	63.6
01Jan2000	04:00	64.9	2.0	63.6	51.4	63.6
01Jan2000	04:05	68.2	2.1	63.7	53.9	63.7
01Jan2000	04:10	71.5	2.2	63.7	56.5	63.7
01Jan2000	04:15	74.9	2.3	63.7	59.3	63.7
01Jan2000	04:20	78.4	2.4	63.8	62.2	63.8
01Jan2000	04:25	81.9	2.5	63.8	65.1	63.8
01Jan2000	04:30	85.3	2.6	63.9	68.2	63.9
01Jan2000	04:35	88.8	2.8	63.9	71.3	63.9
01Jan2000	04:40	92.2	2.9	63.9	74.5	63.9
01Jan2000	04:45	95.5	3.0	64.0	77.7	64.0
01Jan2000	04:50	98.8	3.1	64.0	80.0	64.0
01Jan2000	04:55	102.3	3.3	64.0	80.0	64.0
01Jan2000	05:00	105.9	3.4	64.0	80.0	64.0
01Jan2000	05:05	109.6	3.6	64.1	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	05:10	113.2	3.8	64.1	80.0	64.0
01Jan2000	05:15	116.7	4.1	64.1	80.0	64.0
01Jan2000	05:20	119.9	4.3	64.1	80.0	64.0
01Jan2000	05:25	123.0	4.6	64.2	80.0	64.0
01Jan2000	05:30	126.1	4.9	64.2	80.0	64.0
01Jan2000	05:35	129.7	5.3	64.2	80.0	64.0
01Jan2000	05:40	134.2	5.6	64.3	80.0	64.0
01Jan2000	05:45	139.8	6.0	64.3	80.0	64.0
01Jan2000	05:50	146.9	6.4	64.3	80.0	64.0
01Jan2000	05:55	155.7	6.9	64.4	80.0	64.0
01Jan2000	06:00	166.3	7.5	64.4	80.0	64.0
01Jan2000	06:05	179.6	8.1	64.5	80.0	64.0
01Jan2000	06:10	196.3	8.9	64.6	80.0	64.0
01Jan2000	06:15	219.8	9.8	64.7	80.0	64.0
01Jan2000	06:20	262.8	10.9	64.8	80.0	64.0
01Jan2000	06:25	332.1	12.4	64.9	80.0	64.0
01Jan2000	06:30	413.0	14.4	65.1	80.0	64.0
01Jan2000	06:35	468.6	16.9	65.4	80.0	64.0
01Jan2000	06:40	487.6	19.6	65.7	80.0	64.0
01Jan2000	06:45	485.9	22.4	65.9	80.0	64.0
01Jan2000	06:50	477.5	25.2	66.2	80.0	64.0
01Jan2000	06:55	467.9	27.9	66.5	80.0	64.0
01Jan2000	07:00	457.8	30.5	66.7	80.0	64.0
01Jan2000	07:05	445.9	33.1	67.0	80.0	64.0
01Jan2000	07:10	431.5	35.6	67.2	80.0	64.0
01Jan2000	07:15	414.6	37.9	67.5	80.0	64.0
01Jan2000	07:20	395.9	40.2	67.7	80.0	64.0
01Jan2000	07:25	375.9	42.3	67.9	80.0	64.0
01Jan2000	07:30	355.4	44.2	68.1	80.0	64.0
01Jan2000	07:35	335.1	46.1	68.3	80.0	64.0
01Jan2000	07:40	315.8	47.7	68.5	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	07:45	297.9	49.3	68.6	80.0	64.0
01Jan2000	07:50	281.2	50.8	68.8	80.0	64.0
01Jan2000	07:55	265.7	52.1	68.9	80.0	64.0
01Jan2000	08:00	251.5	53.3	69.0	80.0	64.0
01Jan2000	08:05	238.7	54.5	69.1	80.0	64.0
01Jan2000	08:10	227.2	55.5	69.2	80.0	64.0
01Jan2000	08:15	217.0	56.5	69.3	80.0	64.0
01Jan2000	08:20	208.0	57.4	69.4	80.0	64.0
01Jan2000	08:25	200.1	58.3	69.5	80.0	64.0
01Jan2000	08:30	193.1	59.1	69.6	80.0	64.0
01Jan2000	08:35	186.9	59.8	69.7	80.0	64.0
01Jan2000	08:40	181.4	60.5	69.7	80.0	64.0
01Jan2000	08:45	176.5	61.2	69.8	80.0	64.0
01Jan2000	08:50	172.1	61.9	69.9	80.0	64.0
01Jan2000	08:55	168.1	62.5	69.9	80.0	64.0
01Jan2000	09:00	164.5	63.1	70.0	80.0	64.0
01Jan2000	09:05	161.3	63.6	70.0	80.0	64.0
01Jan2000	09:10	158.3	64.2	70.1	80.0	64.0
01Jan2000	09:15	155.4	64.7	70.2	80.0	64.0
01Jan2000	09:20	152.2	65.2	70.2	80.0	64.0
01Jan2000	09:25	148.5	65.7	70.3	80.0	64.0
01Jan2000	09:30	144.4	66.2	70.3	80.0	64.0
01Jan2000	09:35	140.1	66.6	70.3	80.0	64.0
01Jan2000	09:40	136.0	67.0	70.4	80.0	64.0
01Jan2000	09:45	132.0	67.4	70.4	80.0	64.0
01Jan2000	09:50	128.3	67.7	70.5	80.0	64.0
01Jan2000	09:55	124.9	68.0	70.5	80.0	64.0
01Jan2000	10:00	121.8	68.3	70.5	80.0	64.0
01Jan2000	10:05	118.9	68.6	70.5	80.0	64.0
01Jan2000	10:10	116.2	68.9	70.6	80.0	64.0
01Jan2000	10:15	113.8	69.1	70.6	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	10:20	111.4	69.3	70.6	80.0	64.0
01Jan2000	10:25	109.3	69.6	70.6	80.0	64.0
01Jan2000	10:30	107.2	69.7	70.7	80.0	64.0
01Jan2000	10:35	105.3	69.9	70.7	80.0	64.0
01Jan2000	10:40	103.5	70.1	70.7	80.0	64.0
01Jan2000	10:45	101.7	70.3	70.7	80.0	64.0
01Jan2000	10:50	100.1	70.4	70.7	80.0	64.0
01Jan2000	10:55	98.6	70.5	70.7	80.0	64.0
01Jan2000	11:00	97.1	70.7	70.7	80.0	64.0
01Jan2000	11:05	95.7	70.8	70.8	80.0	64.0
01Jan2000	11:10	94.4	70.9	70.8	80.0	64.0
01Jan2000	11:15	93.2	71.0	70.8	80.0	64.0
01Jan2000	11:20	92.0	71.1	70.8	80.0	64.0
01Jan2000	11:25	90.9	71.1	70.8	80.0	64.0
01Jan2000	11:30	89.9	71.2	70.8	80.0	64.0
01Jan2000	11:35	88.9	71.3	70.8	80.0	64.0
01Jan2000	11:40	88.0	71.3	70.8	80.0	64.0
01Jan2000	11:45	87.1	71.4	70.8	80.0	64.0
01Jan2000	11:50	86.3	71.4	70.8	80.0	64.0
01Jan2000	11:55	85.6	71.5	70.8	80.0	64.0
01Jan2000	12:00	84.9	71.5	70.8	80.0	64.0
01Jan2000	12:05	84.2	71.5	70.8	80.0	64.0
01Jan2000	12:10	83.6	71.6	70.8	80.0	64.0
01Jan2000	12:15	83.1	71.6	70.8	80.0	64.0
01Jan2000	12:20	82.6	71.6	70.8	80.0	64.0
01Jan2000	12:25	82.1	71.6	70.8	80.0	64.0
01Jan2000	12:30	81.5	71.6	70.8	80.0	64.0
01Jan2000	12:35	80.6	71.6	70.8	80.0	64.0
01Jan2000	12:40	79.3	71.6	70.8	80.0	64.0
01Jan2000	12:45	77.4	71.6	70.8	80.0	64.0
01Jan2000	12:50	75.3	71.6	70.8	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	12:55	73.0	71.6	70.8	80.0	64.0
01Jan2000	13:00	70.6	71.5	70.8	80.0	64.0
01Jan2000	13:05	68.4	71.4	70.8	80.0	64.0
01Jan2000	13:10	66.3	71.3	70.8	80.0	64.0
01Jan2000	13:15	64.3	71.2	70.8	80.0	64.0
01Jan2000	13:20	62.5	71.1	70.8	80.0	64.0
01Jan2000	13:25	60.8	71.0	70.8	80.0	64.0
01Jan2000	13:30	59.2	70.9	70.8	80.0	64.0
01Jan2000	13:35	57.7	70.7	70.8	80.0	64.0
01Jan2000	13:40	56.3	70.6	70.7	80.0	64.0
01Jan2000	13:45	55.0	70.4	70.7	80.0	64.0
01Jan2000	13:50	53.8	70.2	70.7	80.0	64.0
01Jan2000	13:55	52.6	70.0	70.7	80.0	64.0
01Jan2000	14:00	51.4	69.8	70.7	80.0	64.0
01Jan2000	14:05	50.4	69.6	70.6	80.0	64.0
01Jan2000	14:10	49.3	69.4	70.6	80.0	64.0
01Jan2000	14:15	48.3	69.2	70.6	80.0	64.0
01Jan2000	14:20	47.3	69.0	70.6	80.0	64.0
01Jan2000	14:25	46.4	68.8	70.6	80.0	64.0
01Jan2000	14:30	45.5	68.5	70.5	80.0	64.0
01Jan2000	14:35	44.7	68.3	70.5	80.0	64.0
01Jan2000	14:40	43.9	68.0	70.5	80.0	64.0
01Jan2000	14:45	43.1	67.8	70.5	80.0	64.0
01Jan2000	14:50	42.4	67.5	70.4	80.0	64.0
01Jan2000	14:55	41.7	67.3	70.4	80.0	64.0
01Jan2000	15:00	41.1	67.0	70.4	80.0	64.0
01Jan2000	15:05	40.4	66.7	70.4	80.0	64.0
01Jan2000	15:10	39.8	66.5	70.3	80.0	64.0
01Jan2000	15:15	39.2	66.2	70.3	80.0	64.0
01Jan2000	15:20	38.7	65.9	70.3	80.0	64.0
01Jan2000	15:25	38.2	65.6	70.2	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	15:30	37.8	65.3	70.2	80.0	64.0
01Jan2000	15:35	37.4	65.0	70.2	80.0	64.0
01Jan2000	15:40	37.0	64.7	70.2	80.0	64.0
01Jan2000	15:45	36.5	64.4	70.1	80.0	64.0
01Jan2000	15:50	36.2	64.1	70.1	80.0	64.0
01Jan2000	15:55	35.9	63.8	70.1	80.0	64.0
01Jan2000	16:00	35.6	63.5	70.0	80.0	64.0
01Jan2000	16:05	35.3	63.2	70.0	80.0	64.0
01Jan2000	16:10	35.0	62.9	70.0	80.0	64.0
01Jan2000	16:15	34.7	62.6	69.9	80.0	64.0
01Jan2000	16:20	34.3	62.3	69.9	80.0	64.0
01Jan2000	16:25	34.0	62.0	69.9	80.0	64.0
01Jan2000	16:30	33.7	61.7	69.8	80.0	64.0
01Jan2000	16:35	33.5	61.3	69.8	80.0	64.0
01Jan2000	16:40	33.2	61.0	69.8	80.0	64.0
01Jan2000	16:45	32.9	60.7	69.8	80.0	64.0
01Jan2000	16:50	32.7	60.4	69.7	80.0	64.0
01Jan2000	16:55	32.4	60.0	69.7	80.0	64.0
01Jan2000	17:00	32.2	59.7	69.7	80.0	64.0
01Jan2000	17:05	31.9	59.4	69.6	80.0	64.0
01Jan2000	17:10	31.7	59.1	69.6	80.0	64.0
01Jan2000	17:15	31.5	58.7	69.6	80.0	64.0
01Jan2000	17:20	31.4	58.4	69.5	80.0	64.0
01Jan2000	17:25	31.2	58.0	69.5	80.0	64.0
01Jan2000	17:30	31.0	57.7	69.5	80.0	64.0
01Jan2000	17:35	30.8	57.4	69.4	80.0	64.0
01Jan2000	17:40	30.7	57.0	69.4	80.0	64.0
01Jan2000	17:45	30.5	56.7	69.4	80.0	64.0
01Jan2000	17:50	30.3	56.4	69.3	80.0	64.0
01Jan2000	17:55	30.2	56.0	69.3	80.0	64.0
01Jan2000	18:00	30.0	55.7	69.3	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	18:05	29.9	55.3	69.2	80.0	64.0
01Jan2000	18:10	29.7	55.0	69.2	80.0	64.0
01Jan2000	18:15	29.6	54.6	69.1	80.0	64.0
01Jan2000	18:20	29.5	54.3	69.1	80.0	64.0
01Jan2000	18:25	29.4	53.9	69.1	80.0	64.0
01Jan2000	18:30	29.3	53.6	69.0	80.0	64.0
01Jan2000	18:35	29.2	53.2	69.0	80.0	64.0
01Jan2000	18:40	29.1	52.9	69.0	80.0	64.0
01Jan2000	18:45	29.0	52.5	68.9	80.0	64.0
01Jan2000	18:50	29.0	52.2	68.9	80.0	64.0
01Jan2000	18:55	28.9	51.8	68.9	80.0	64.0
01Jan2000	19:00	28.8	51.5	68.8	80.0	64.0
01Jan2000	19:05	28.7	51.1	68.8	80.0	64.0
01Jan2000	19:10	28.6	50.8	68.8	80.0	64.0
01Jan2000	19:15	28.5	50.4	68.7	80.0	64.0
01Jan2000	19:20	28.4	50.1	68.7	80.0	64.0
01Jan2000	19:25	28.3	49.7	68.7	80.0	64.0
01Jan2000	19:30	28.3	49.4	68.6	80.0	64.0
01Jan2000	19:35	28.2	49.0	68.6	80.0	64.0
01Jan2000	19:40	28.1	48.6	68.5	80.0	64.0
01Jan2000	19:45	28.0	48.3	68.5	80.0	64.0
01Jan2000	19:50	28.0	47.9	68.5	80.0	64.0
01Jan2000	19:55	27.9	47.6	68.4	80.0	64.0
01Jan2000	20:00	27.8	47.2	68.4	80.0	64.0
01Jan2000	20:05	27.8	46.8	68.4	80.0	64.0
01Jan2000	20:10	27.7	46.5	68.3	80.0	64.0
01Jan2000	20:15	27.6	46.1	68.3	80.0	64.0
01Jan2000	20:20	27.6	45.8	68.3	80.0	64.0
01Jan2000	20:25	27.5	45.4	68.2	80.0	64.0
01Jan2000	20:30	27.5	45.0	68.2	80.0	64.0
01Jan2000	20:35	27.5	44.7	68.2	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	20:40	27.4	44.3	68.1	80.0	64.0
01Jan2000	20:45	27.4	44.0	68.1	80.0	64.0
01Jan2000	20:50	27.3	43.6	68.0	80.0	64.0
01Jan2000	20:55	27.3	43.2	68.0	80.0	64.0
01Jan2000	21:00	27.2	42.9	68.0	80.0	64.0
01Jan2000	21:05	27.2	42.5	67.9	80.0	64.0
01Jan2000	21:10	27.1	42.1	67.9	80.0	64.0
01Jan2000	21:15	27.1	41.8	67.9	80.0	64.0
01Jan2000	21:20	27.1	41.4	67.8	80.0	64.0
01Jan2000	21:25	27.0	41.0	67.8	80.0	64.0
01Jan2000	21:30	27.0	40.7	67.8	80.0	64.0
01Jan2000	21:35	27.0	40.3	67.7	80.0	64.0
01Jan2000	21:40	26.9	39.9	67.7	80.0	64.0
01Jan2000	21:45	26.9	39.6	67.6	80.0	64.0
01Jan2000	21:50	26.9	39.2	67.6	80.0	64.0
01Jan2000	21:55	26.8	38.9	67.6	80.0	64.0
01Jan2000	22:00	26.8	38.5	67.5	80.0	64.0
01Jan2000	22:05	26.8	38.1	67.5	80.0	64.0
01Jan2000	22:10	26.7	37.8	67.5	80.0	64.0
01Jan2000	22:15	26.7	37.4	67.4	80.0	64.0
01Jan2000	22:20	26.7	37.0	67.4	80.0	64.0
01Jan2000	22:25	26.6	36.7	67.4	80.0	64.0
01Jan2000	22:30	26.6	36.3	67.3	80.0	64.0
01Jan2000	22:35	26.6	35.9	67.3	80.0	64.0
01Jan2000	22:40	26.5	35.5	67.2	80.0	64.0
01Jan2000	22:45	26.5	35.2	67.2	80.0	64.0
01Jan2000	22:50	26.5	34.8	67.2	80.0	64.0
01Jan2000	22:55	26.5	34.4	67.1	80.0	64.0
01Jan2000	23:00	26.4	34.1	67.1	80.0	64.0
01Jan2000	23:05	26.4	33.7	67.1	80.0	64.0
01Jan2000	23:10	26.4	33.3	67.0	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	23:15	26.4	33.0	67.0	80.0	64.0
01Jan2000	23:20	26.3	32.6	66.9	80.0	64.0
01Jan2000	23:25	26.3	32.2	66.9	80.0	64.0
01Jan2000	23:30	26.3	31.9	66.9	80.0	64.0
01Jan2000	23:35	26.3	31.5	66.8	80.0	64.0
01Jan2000	23:40	26.3	31.1	66.8	80.0	64.0
01Jan2000	23:45	26.2	30.7	66.8	80.0	64.0
01Jan2000	23:50	26.2	30.4	66.7	80.0	64.0
01Jan2000	23:55	26.2	30.0	66.7	80.0	64.0
02Jan2000	00:00	26.2	29.6	66.7	80.0	64.0
02Jan2000	00:05	26.2	29.3	66.6	80.0	64.0
02Jan2000	00:10	26.1	28.9	66.6	80.0	64.0
02Jan2000	00:15	26.1	28.5	66.5	80.0	64.0
02Jan2000	00:20	26.1	28.2	66.5	80.0	64.0
02Jan2000	00:25	26.1	27.8	66.5	80.0	64.0
02Jan2000	00:30	26.1	27.4	66.4	80.0	64.0
02Jan2000	00:35	26.1	27.0	66.4	80.0	64.0
02Jan2000	00:40	26.0	26.7	66.4	80.0	64.0
02Jan2000	00:45	26.0	26.3	66.3	80.0	64.0
02Jan2000	00:50	26.0	25.9	66.3	80.0	64.0
02Jan2000	00:55	26.0	25.5	66.2	80.0	64.0
02Jan2000	01:00	26.0	25.2	66.2	80.0	64.0
02Jan2000	01:05	26.0	24.8	66.2	80.0	64.0
02Jan2000	01:10	25.9	24.4	66.1	80.0	64.0
02Jan2000	01:15	25.9	24.1	66.1	80.0	64.0
02Jan2000	01:20	25.9	23.7	66.1	80.0	64.0
02Jan2000	01:25	25.9	23.3	66.0	80.0	64.0
02Jan2000	01:30	25.9	22.9	66.0	80.0	64.0
02Jan2000	01:35	25.9	22.6	65.9	80.0	64.0
02Jan2000	01:40	25.9	22.2	65.9	80.0	64.0
02Jan2000	01:45	25.9	21.8	65.9	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	01:50	25.8	21.5	65.8	80.0	64.0
02Jan2000	01:55	25.8	21.1	65.8	80.0	64.0
02Jan2000	02:00	25.8	20.7	65.8	80.0	64.0
02Jan2000	02:05	25.8	20.3	65.7	80.0	64.0
02Jan2000	02:10	25.8	20.0	65.7	80.0	64.0
02Jan2000	02:15	25.8	19.6	65.6	80.0	64.0
02Jan2000	02:20	25.8	19.2	65.6	80.0	64.0
02Jan2000	02:25	25.8	18.8	65.6	80.0	64.0
02Jan2000	02:30	25.8	18.5	65.5	80.0	64.0
02Jan2000	02:35	25.7	18.1	65.5	80.0	64.0
02Jan2000	02:40	25.7	17.7	65.5	80.0	64.0
02Jan2000	02:45	25.7	17.3	65.4	80.0	64.0
02Jan2000	02:50	25.7	17.0	65.4	80.0	64.0
02Jan2000	02:55	25.7	16.6	65.3	80.0	64.0
02Jan2000	03:00	25.7	16.2	65.3	80.0	64.0
02Jan2000	03:05	25.7	15.8	65.3	80.0	64.0
02Jan2000	03:10	25.7	15.5	65.2	80.0	64.0
02Jan2000	03:15	25.7	15.1	65.2	80.0	64.0
02Jan2000	03:20	25.7	14.7	65.2	80.0	64.0
02Jan2000	03:25	25.7	14.4	65.1	80.0	64.0
02Jan2000	03:30	25.6	14.0	65.1	80.0	64.0
02Jan2000	03:35	25.6	13.6	65.1	80.0	64.0
02Jan2000	03:40	25.6	13.2	65.0	80.0	64.0
02Jan2000	03:45	25.6	12.9	65.0	80.0	64.0
02Jan2000	03:50	25.6	12.5	64.9	80.0	64.0
02Jan2000	03:55	25.6	12.1	64.9	80.0	64.0
02Jan2000	04:00	25.6	11.7	64.9	80.0	64.0
02Jan2000	04:05	25.6	11.4	64.8	80.0	64.0
02Jan2000	04:10	25.6	11.0	64.8	80.0	64.0
02Jan2000	04:15	25.6	10.6	64.8	80.0	64.0
02Jan2000	04:20	25.6	10.2	64.7	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	04:25	25.6	9.9	64.7	80.0	64.0
02Jan2000	04:30	25.6	9.5	64.6	80.0	64.0
02Jan2000	04:35	25.5	9.1	64.6	80.0	64.0
02Jan2000	04:40	25.5	8.7	64.6	80.0	64.0
02Jan2000	04:45	25.5	8.4	64.5	80.0	64.0
02Jan2000	04:50	25.5	8.0	64.5	80.0	64.0
02Jan2000	04:55	25.5	7.6	64.5	80.0	64.0
02Jan2000	05:00	25.5	7.2	64.4	80.0	64.0
02Jan2000	05:05	25.5	6.9	64.4	80.0	64.0
02Jan2000	05:10	25.5	6.5	64.3	80.0	64.0
02Jan2000	05:15	25.5	6.1	64.3	80.0	64.0
02Jan2000	05:20	25.5	5.7	64.3	80.0	64.0
02Jan2000	05:25	25.5	5.4	64.2	80.0	64.0
02Jan2000	05:30	25.5	5.0	64.2	80.0	64.0
02Jan2000	05:35	25.5	4.6	64.2	80.0	64.0
02Jan2000	05:40	25.5	4.2	64.1	80.0	64.0
02Jan2000	05:45	25.5	3.9	64.1	80.0	64.0
02Jan2000	05:50	25.5	3.5	64.0	80.0	64.0
02Jan2000	05:55	25.5	3.1	64.0	80.0	64.0
02Jan2000	06:00	25.4	2.8	63.9	71.4	63.9
02Jan2000	06:05	25.4	2.5	63.8	63.8	63.8
02Jan2000	06:10	25.4	2.2	63.7	57.5	63.7
02Jan2000	06:15	25.4	2.0	63.7	52.1	63.7
02Jan2000	06:20	25.4	1.9	63.6	47.7	63.6
02Jan2000	06:25	25.4	1.7	63.6	44.0	63.6
02Jan2000	06:30	25.4	1.6	63.5	40.9	63.5
02Jan2000	06:35	25.4	1.5	63.5	38.4	63.5
02Jan2000	06:40	25.4	1.4	63.5	36.2	63.5
02Jan2000	06:45	25.4	1.3	63.4	34.4	63.4
02Jan2000	06:50	25.4	1.3	63.4	32.9	63.4
02Jan2000	06:55	25.4	1.2	63.4	31.7	63.4

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	07:00	25.4	1.2	63.4	30.6	63.4
02Jan2000	07:05	25.4	1.2	63.4	29.8	63.4
02Jan2000	07:10	25.4	1.1	63.4	29.0	63.4
02Jan2000	07:15	25.4	1.1	63.4	28.4	63.4
02Jan2000	07:20	25.4	1.1	63.3	27.9	63.3
02Jan2000	07:25	25.4	1.1	63.3	27.5	63.3
02Jan2000	07:30	25.4	1.1	63.3	27.2	63.3
02Jan2000	07:35	25.4	1.1	63.3	26.9	63.3
02Jan2000	07:40	25.4	1.0	63.3	26.6	63.3
02Jan2000	07:45	25.4	1.0	63.3	26.4	63.3
02Jan2000	07:50	25.4	1.0	63.3	26.2	63.3
02Jan2000	07:55	25.4	1.0	63.3	26.1	63.3
02Jan2000	08:00	25.3	1.0	63.3	26.0	63.3
02Jan2000	08:05	25.3	1.0	63.3	25.9	63.3
02Jan2000	08:10	25.3	1.0	63.3	25.8	63.3
02Jan2000	08:15	25.3	1.0	63.3	25.7	63.3
02Jan2000	08:20	25.3	1.0	63.3	25.6	63.3
02Jan2000	08:25	25.3	1.0	63.3	25.6	63.3
02Jan2000	08:30	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:35	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:40	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:45	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:50	25.3	1.0	63.3	25.4	63.3
02Jan2000	08:55	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:00	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:05	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:10	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:15	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:20	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:25	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:30	25.3	1.0	63.3	25.3	63.3

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	09:35	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:40	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:45	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:50	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:55	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:00	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:05	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:10	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:15	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:20	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:25	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:30	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:35	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:40	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:45	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:50	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:55	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:00	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:05	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:10	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:15	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:20	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:05	25.2	1.0	63.3	25.2	63.3

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	12:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:40	25.2	1.0	63.3	25.2	63.3

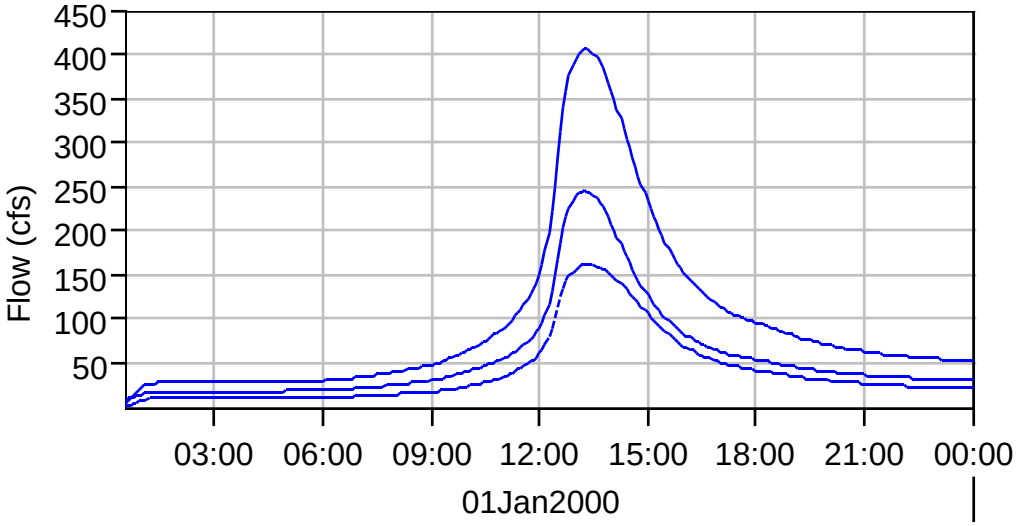
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	14:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:15	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:20	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:25	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:30	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:35	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:40	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:45	25.1	1.0	63.3	25.1	63.3
02Jan2000	16:50	25.1	1.0	63.3	25.1	63.3
02Jan2000	16:55	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:00	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:05	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:10	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:15	25.1	1.0	63.3	25.1	63.3

Project: 520120 EX Simulation Run: Brighton Ex 100yr-24hr

Start of Run: 01Jan2000, 00:30 Basin Model: Existing
End of Run: 02Jan2000, 00:00 Meteorologic Model: Brighton 100yr
Compute Time: 02Mar2011, 11:37:32 Control Specifications: Brighton Landing

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Batch 1	0.077	44.4	01Jan2000, 13:20	4.70
Batch 3	0.154	89.5	01Jan2000, 13:15	4.69
Batch 5	0.231	130.9	01Jan2000, 13:20	4.69
Batch 2	0.048	29.2	01Jan2000, 13:05	5.12
Batch 4	0.098	59.5	01Jan2000, 13:10	5.23
Batch 6	0.149	89.3	01Jan2000, 13:15	5.25
Batch 7	0.186	115.0	01Jan2000, 13:10	5.39
Junction-8	0.417	245.1	01Jan2000, 13:15	5.00
Brighton 2	0.088	45.0	01Jan2000, 13:10	4.50
Brighton 1	0.158	79.8	01Jan2000, 13:20	4.61
Brighton 4	0.083	44.1	01Jan2000, 13:05	4.63
Brighton 3	0.319	161.1	01Jan2000, 13:20	4.61
Junction-3	0.736	406.0	01Jan2000, 13:15	4.83

Junction "Junction-3" Results for Run "Brighton Ex 100yr-24hr"



Run:Brighton Ex 100yr-24hr Element:JUNCTION-3 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:JUNCTION-8 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 3 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Batch 1

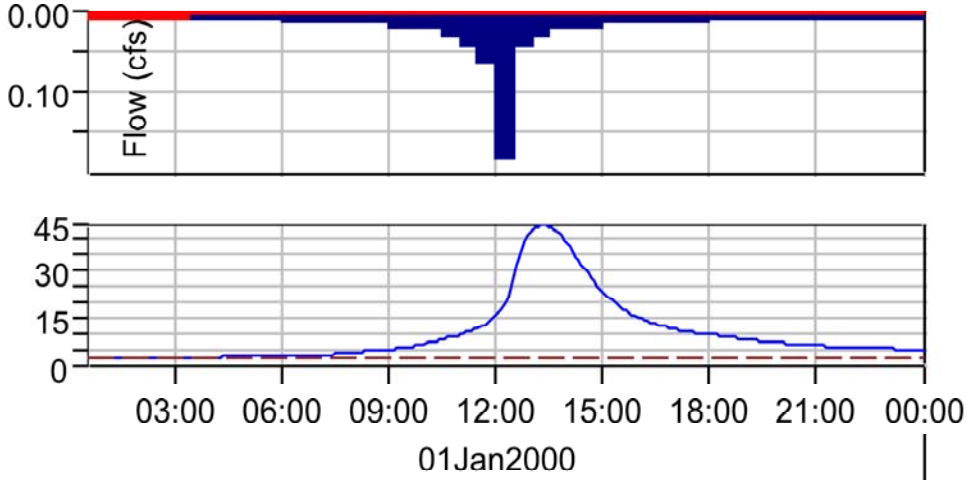
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	44.4 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:20
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	3.52 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	1.18 (IN)
Total Excess :	3.85 (IN)	Discharge :	4.70 (IN)

Subbasin "Batch 1" Results for Run "Brighton Ex 100yr-24hr"

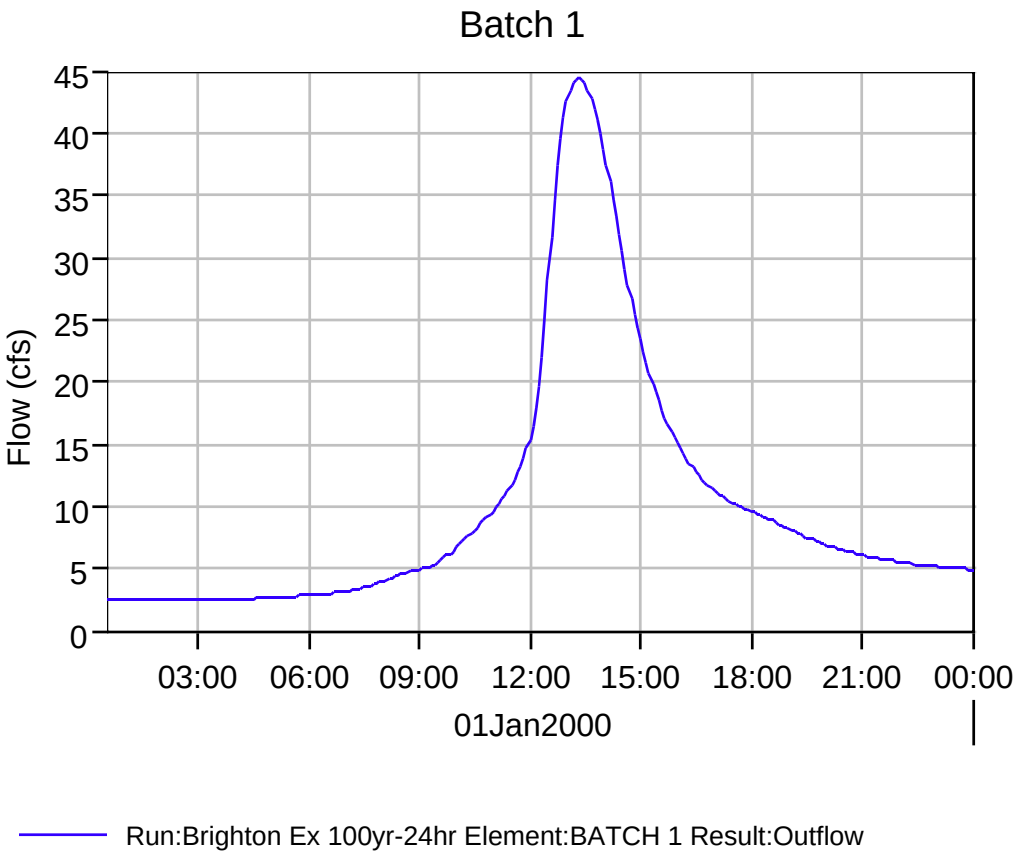


Run:Brighton Ex 100yr-24hr Element:BATCH 1 Result:Precipitation

Run:BRIGHTON EX 100YR-24HR Element:BATCH 1-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BATCH 1 Result:Outflow

Run:BRIGHTON EX 100YR-24HR Element:BATCH 1 Result:Baseflow


Batch 1
Flow (cfs)
45
40
35
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BATCH 1 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Batch 2

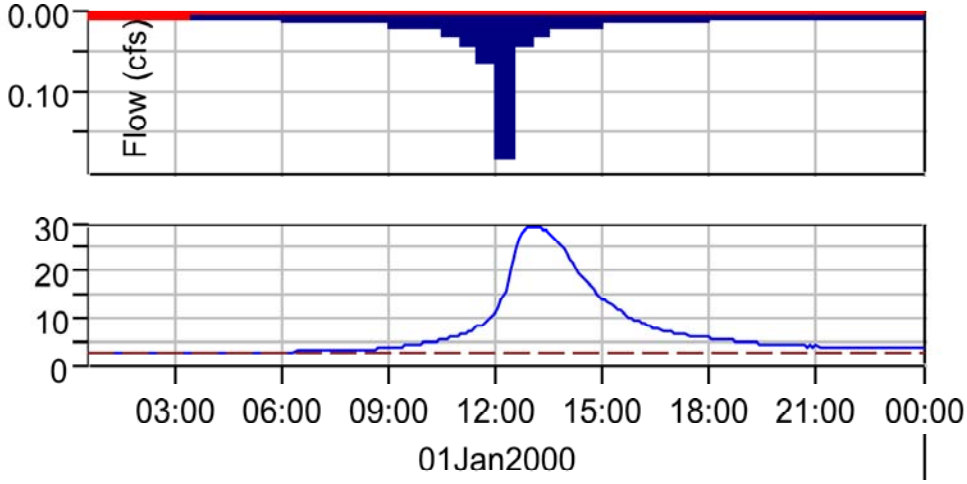
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	29.2 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:05
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	3.22 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	1.90 (IN)
Total Excess :	3.85 (IN)	Discharge :	5.12 (IN)

Subbasin "Batch 2" Results for Run "Brighton Ex 100yr-24hr"

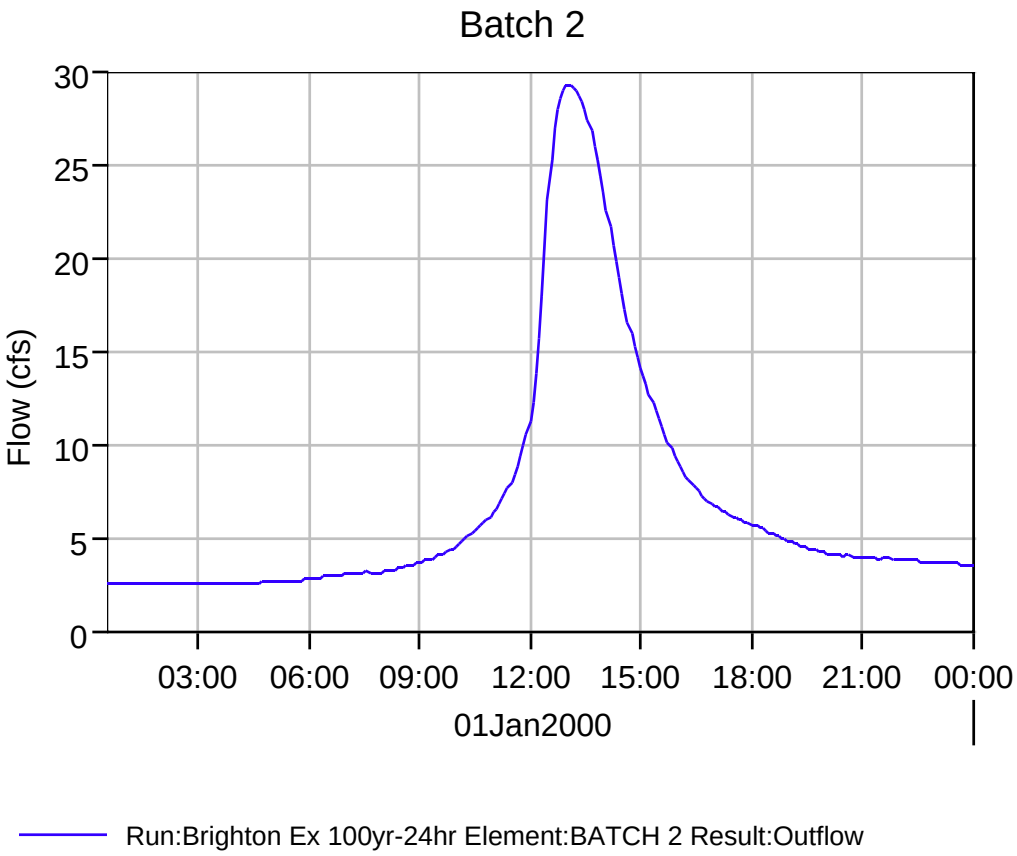


Run:Brighton Ex 100yr-24hr Element:BATCH 2 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BATCH 2-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BATCH 2 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BATCH 2 Result:Baseflow


Batch 2
Flow (cfs)
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BATCH 2 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Batch 3

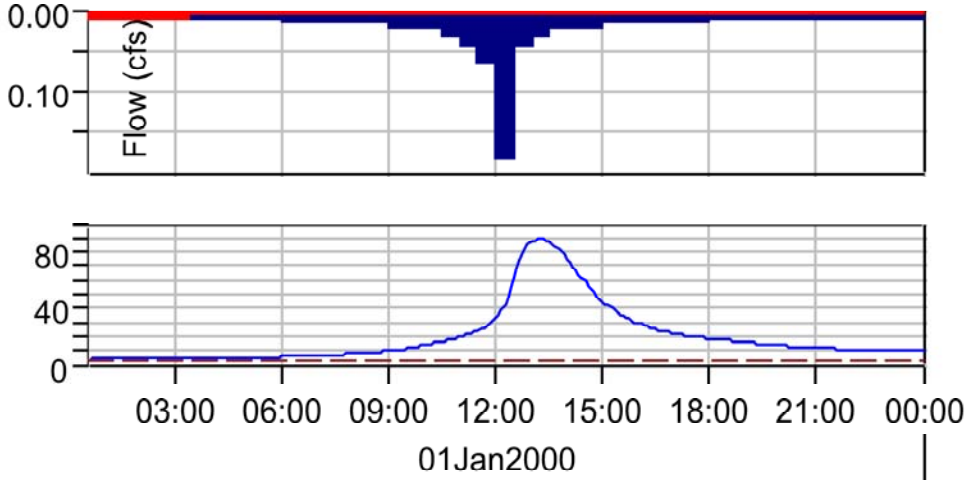
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	89.5 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:15
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	4.10 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.59 (IN)
Total Excess :	3.85 (IN)	Discharge :	4.69 (IN)

Subbasin "Batch 3" Results for Run "Brighton Ex 100yr-24hr"

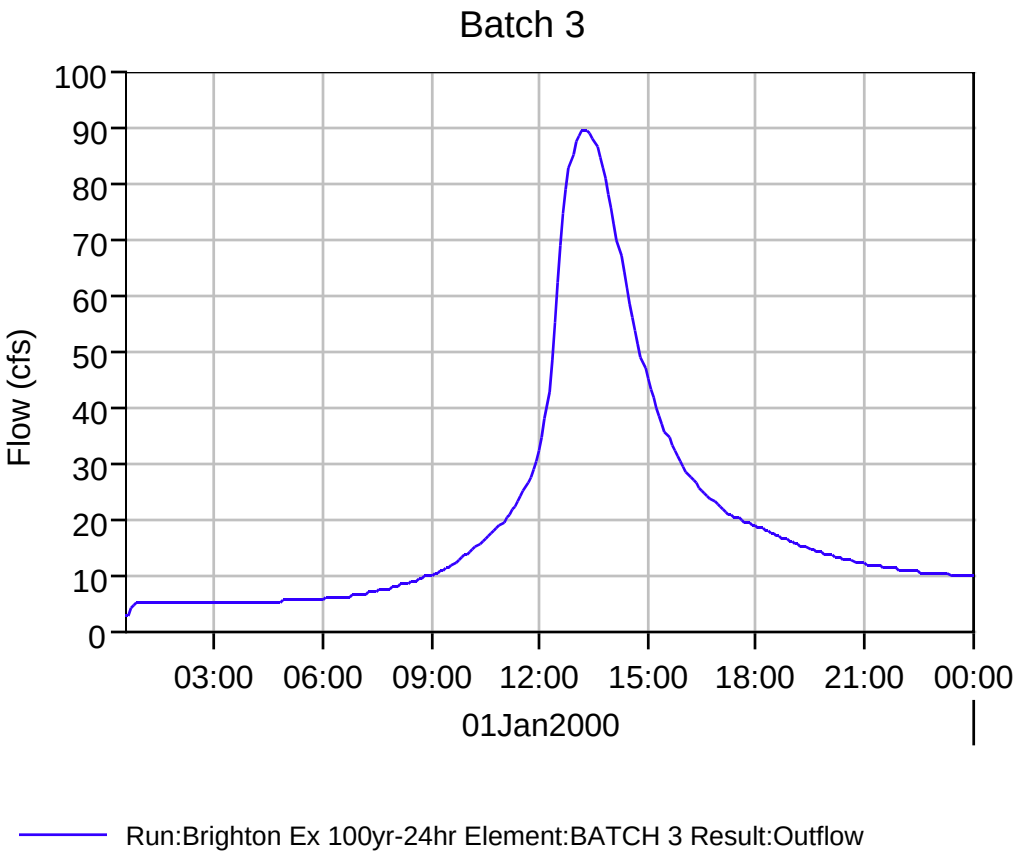


Run:Brighton Ex 100yr-24hr Element:BATCH 3 Result:Precipitation

Run:BRIGHTON EX 100YR-24HR Element:BATCH 3-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BATCH 3 Result:Outflow

Run:BRIGHTON EX 100YR-24HR Element:BATCH 3 Result:Baseflow


Batch 3
Flow (cfs)
100
90
80
70
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BATCH 3 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Batch 4

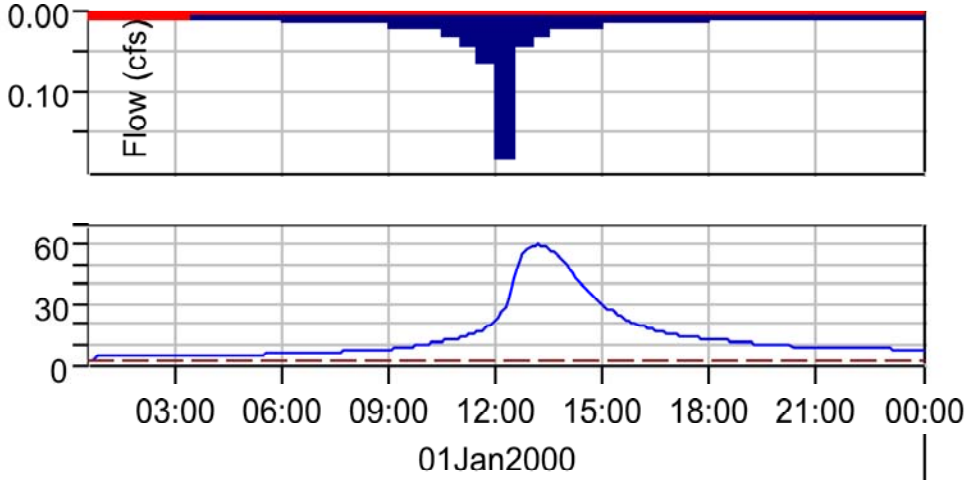
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	59.5 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:10
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	4.30 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.93 (IN)
Total Excess :	3.85 (IN)	Discharge :	5.23 (IN)

Subbasin "Batch 4" Results for Run "Brighton Ex 100yr-24hr"

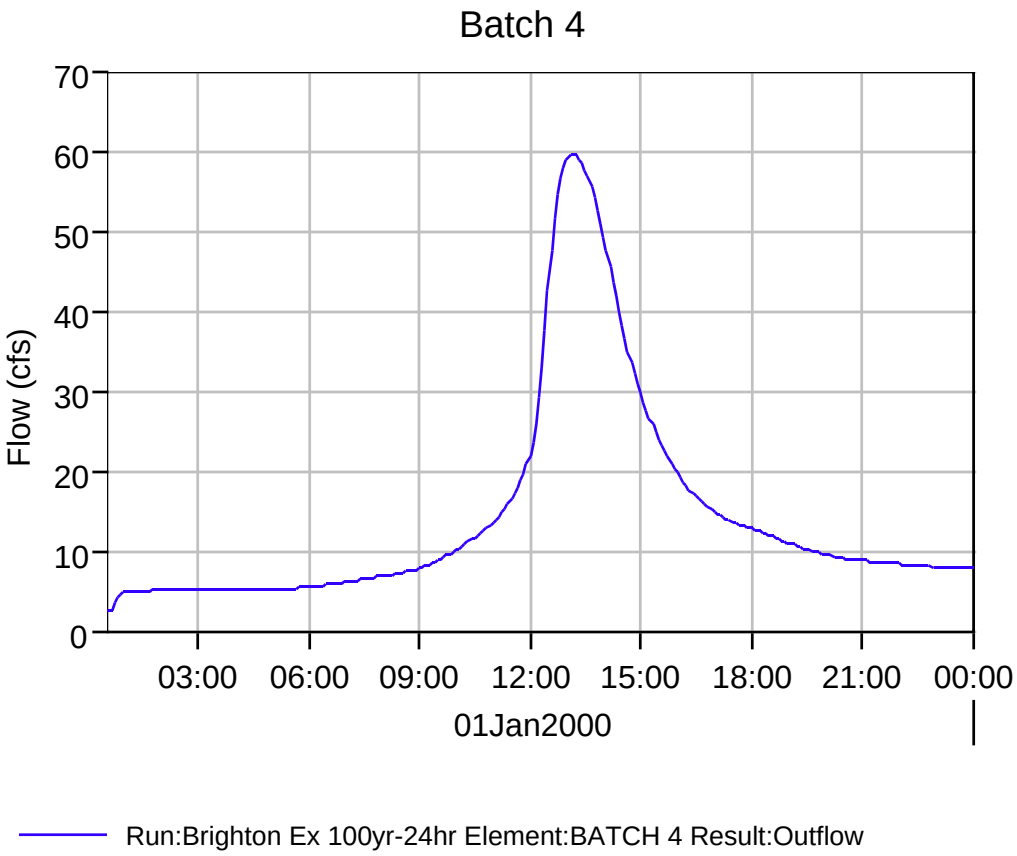


Run:Brighton Ex 100yr-24hr Element:BATCH 4 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BATCH 4-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BATCH 4 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BATCH 4 Result:Baseflow


Batch 4
Flow (cfs)
70
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BATCH 4 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Batch 5

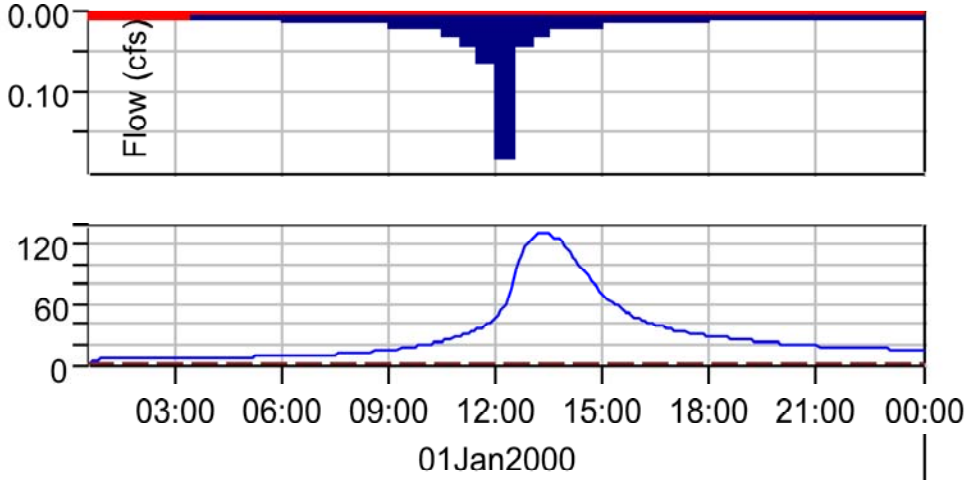
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	130.9 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:20
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	4.29 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.39 (IN)
Total Excess :	3.85 (IN)	Discharge :	4.69 (IN)

Subbasin "Batch 5" Results for Run "Brighton Ex 100yr-24hr"

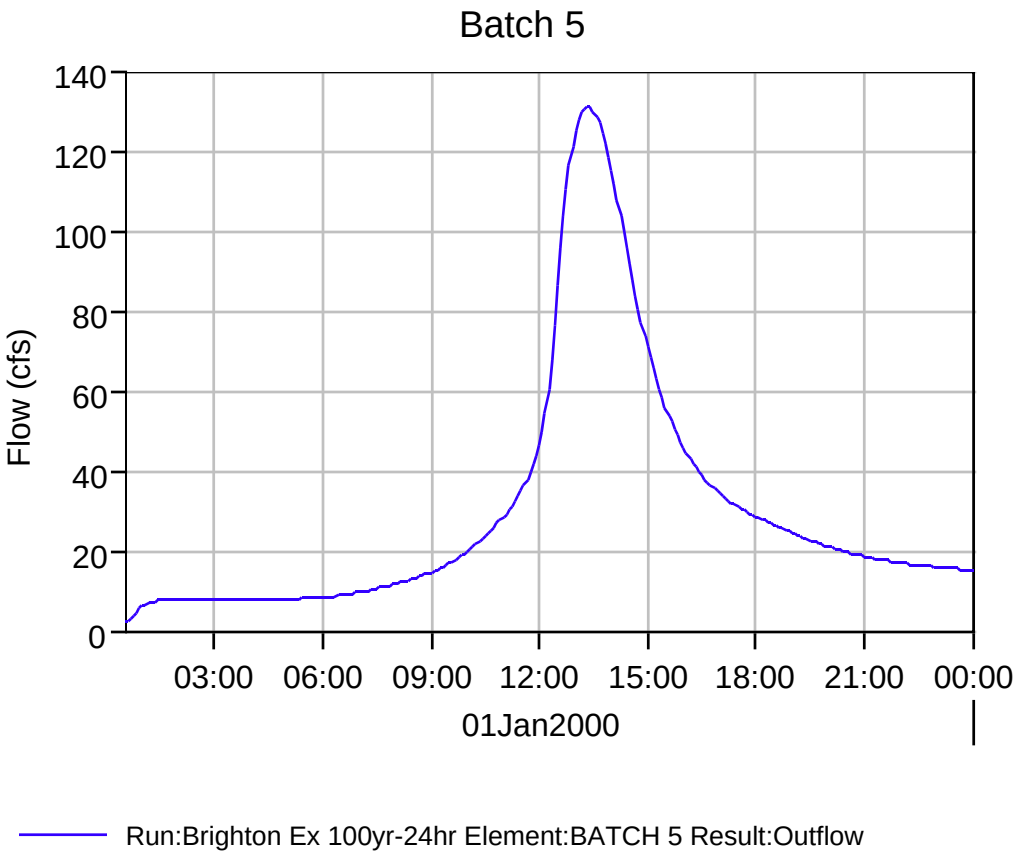


Run:Brighton Ex 100yr-24hr Element:BATCH 5 Result:Precipitation

Run:BRIGHTON EX 100YR-24HR Element:BATCH 5-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BATCH 5 Result:Outflow

Run:BRIGHTON EX 100YR-24HR Element:BATCH 5 Result:Baseflow


Batch 5
Flow (cfs)
140
120
100
80
60
40
20
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BATCH 5 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Batch 6

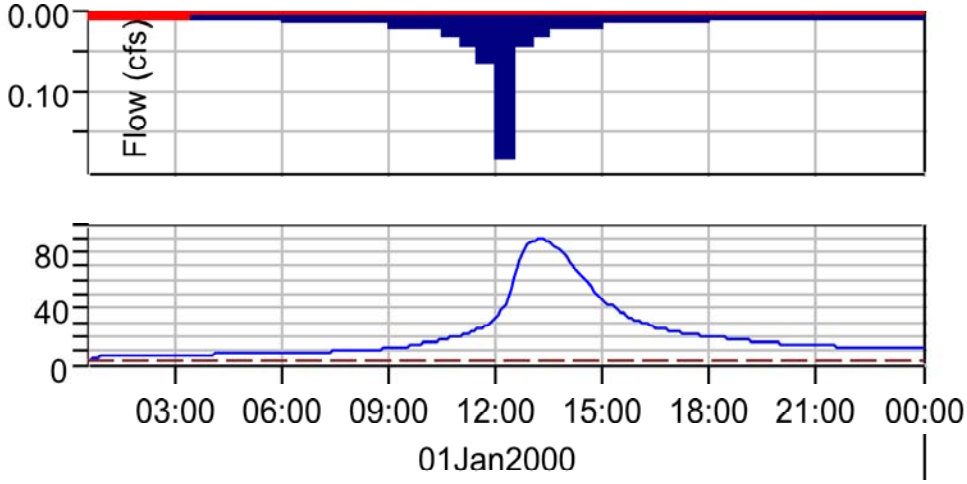
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	89.3 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:15
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	4.64 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.61 (IN)
Total Excess :	3.85 (IN)	Discharge :	5.25 (IN)

Subbasin "Batch 6" Results for Run "Brighton Ex 100yr-24hr"

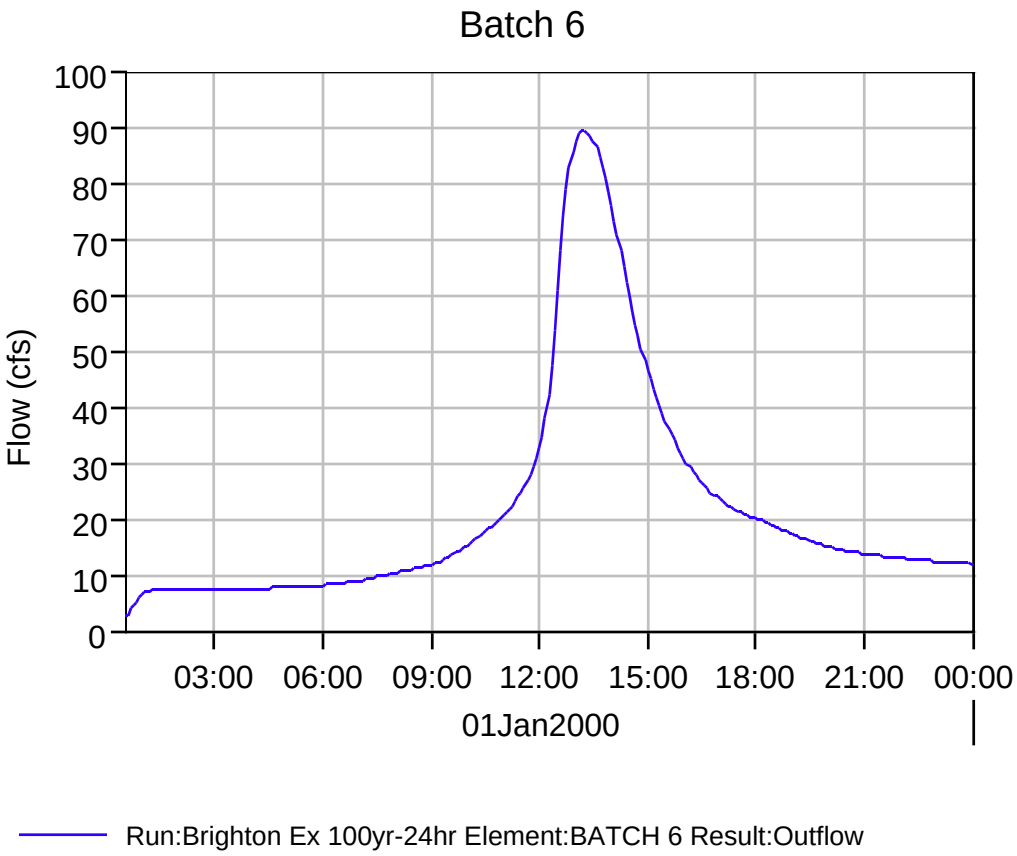


Run:Brighton Ex 100yr-24hr Element:BATCH 6 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BATCH 6-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BATCH 6 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BATCH 6 Result:Baseflow


Batch 6
Flow (cfs)
100
90
80
70
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BATCH 6 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Batch 7

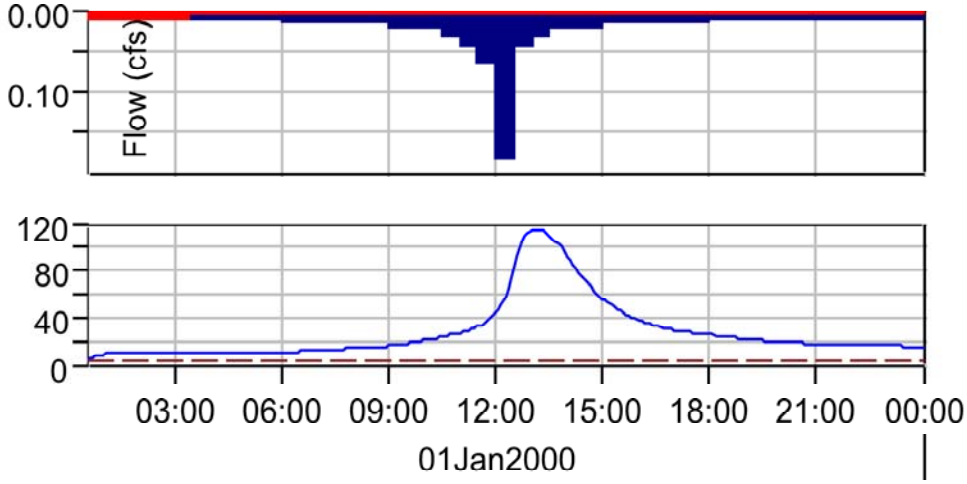
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	115.0 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:10
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	4.91 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.49 (IN)
Total Excess :	3.85 (IN)	Discharge :	5.39 (IN)

Subbasin "Batch 7" Results for Run "Brighton Ex 100yr-24hr"

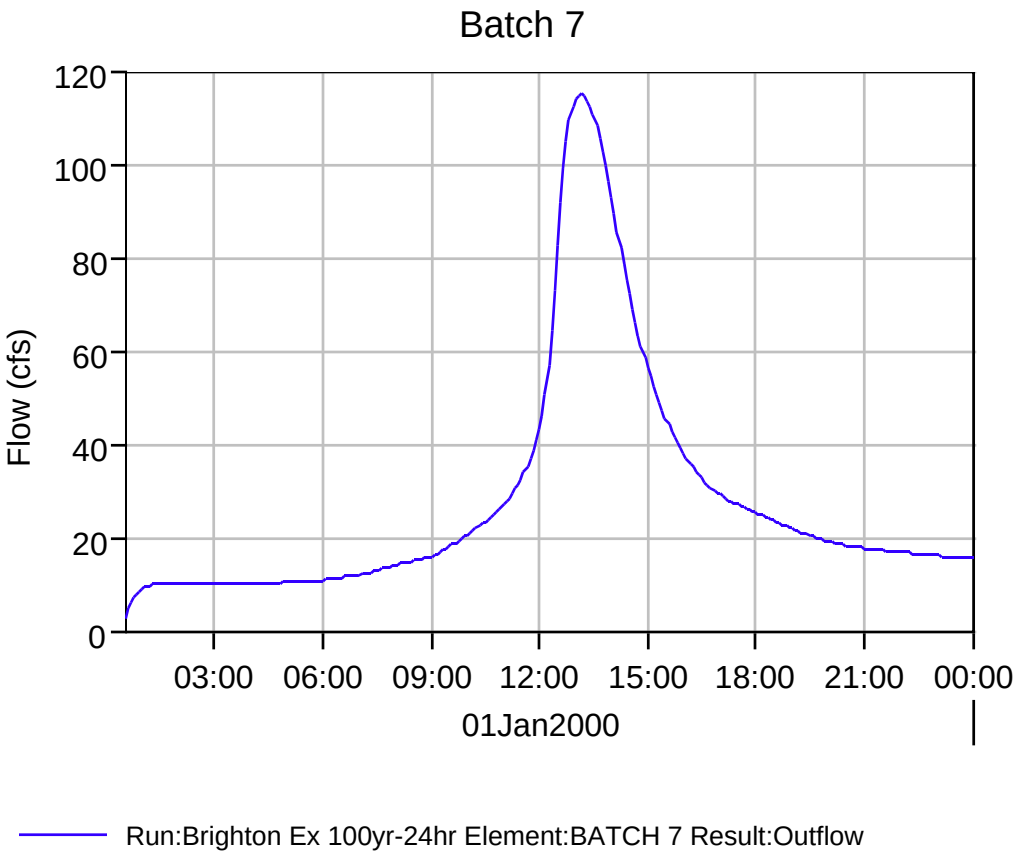


Run:Brighton Ex 100yr-24hr Element:BATCH 7 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BATCH 7-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BATCH 7 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BATCH 7 Result:Baseflow


Batch 7
Flow (cfs)
120
100
80
60
40
20
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BATCH 7 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Junction: Junction-8

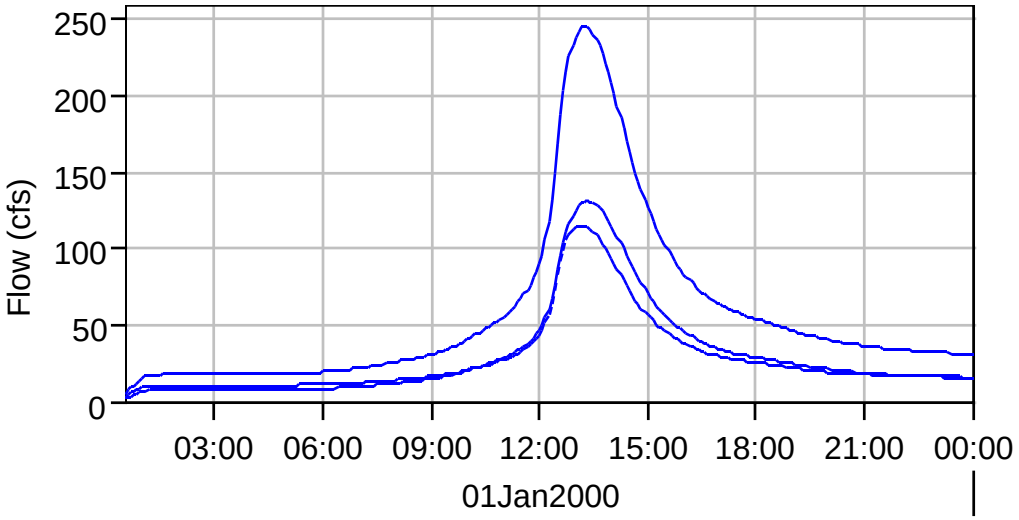
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Outflow :	245.1 (CFS)	Date/Time of Peak Outflow :	01Jan2000, 13:15
Total Outflow :	5.00 (IN)		

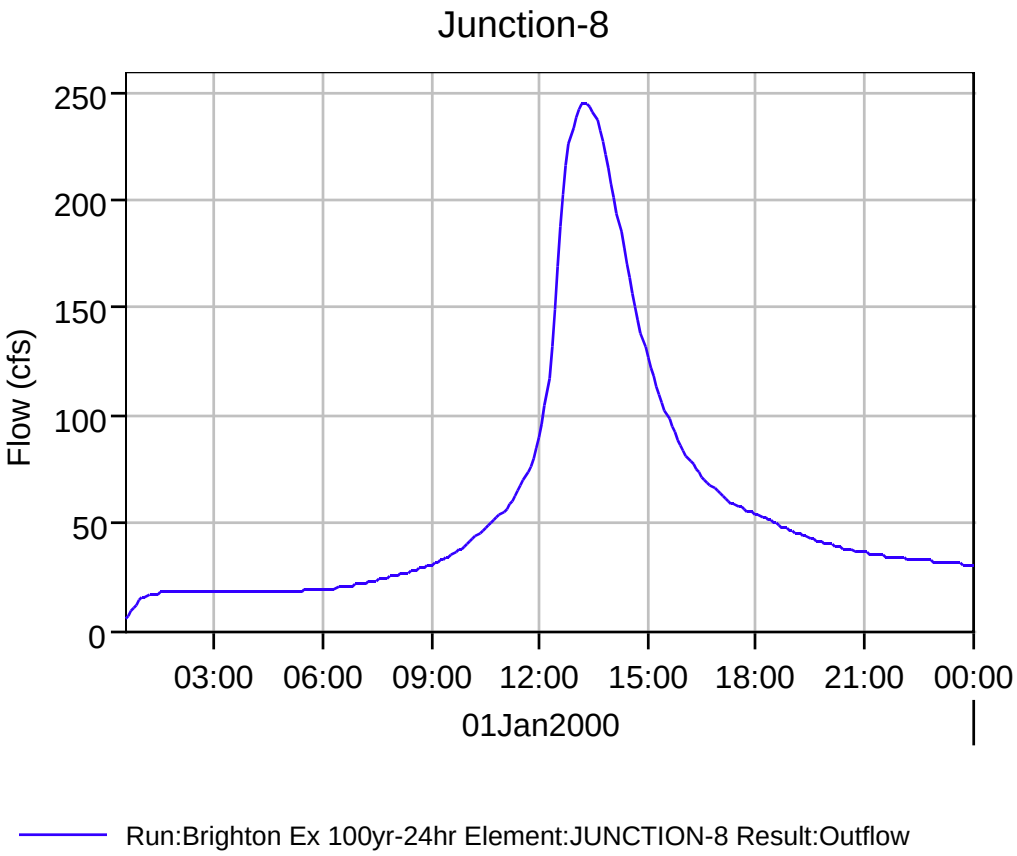
Junction "Junction-8" Results for Run "Brighton Ex 100yr-24hr"



Run:Brighton Ex 100yr-24hr Element:JUNCTION-8 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BATCH 5 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BATCH 7 Result:Outflow


Junction-8
Flow (cfs)
250
200
150
100
50
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:JUNCTION-8 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Brighton 1

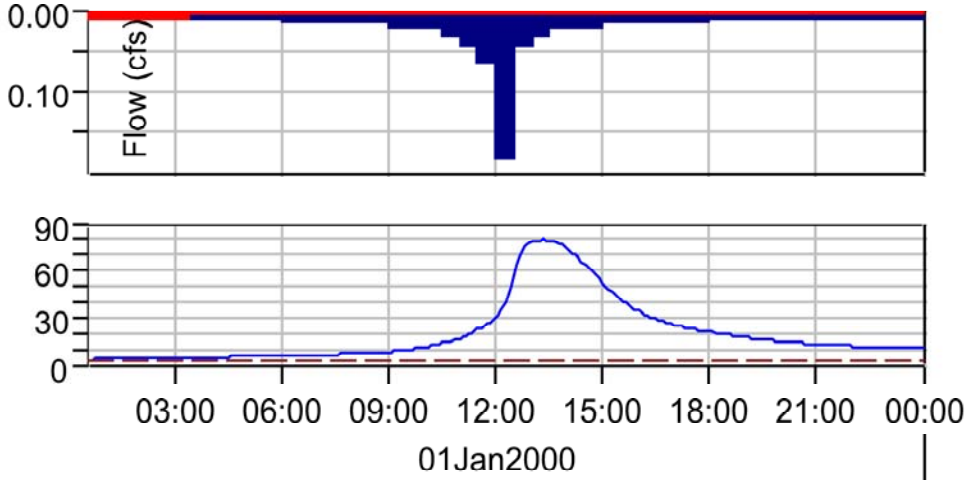
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	79.8 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:20
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	4.03 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.58 (IN)
Total Excess :	3.85 (IN)	Discharge :	4.61 (IN)

Subbasin "Brighton 1" Results for Run "Brighton Ex 100yr-24hr"

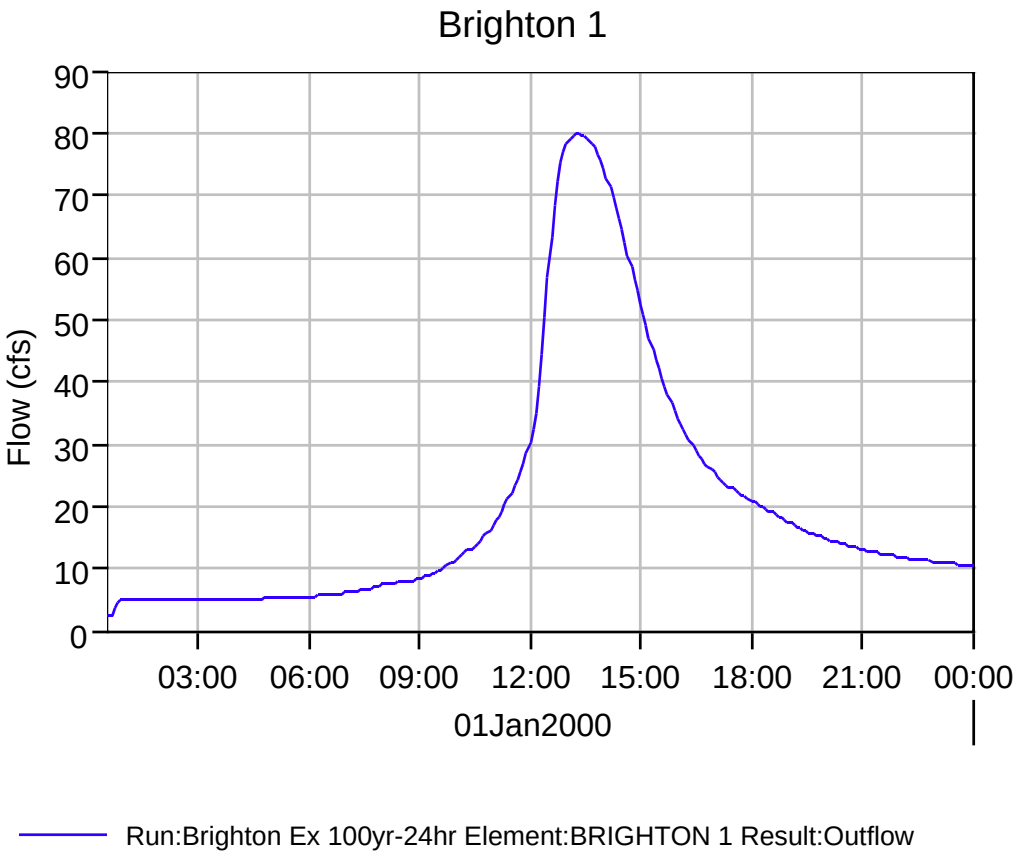


Run:Brighton Ex 100yr-24hr Element:BRIGHTON 1 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 1-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 1 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 1 Result:Baseflow


Brighton 1
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BRIGHTON 1 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Brighton 2

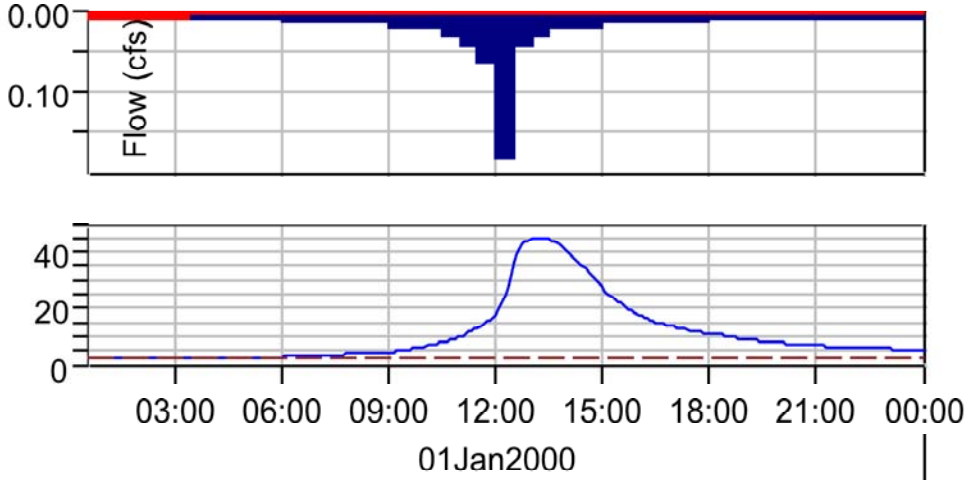
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	45.0 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:10
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	3.47 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	1.03 (IN)
Total Excess :	3.85 (IN)	Discharge :	4.50 (IN)

Subbasin "Brighton 2" Results for Run "Brighton Ex 100yr-24hr"

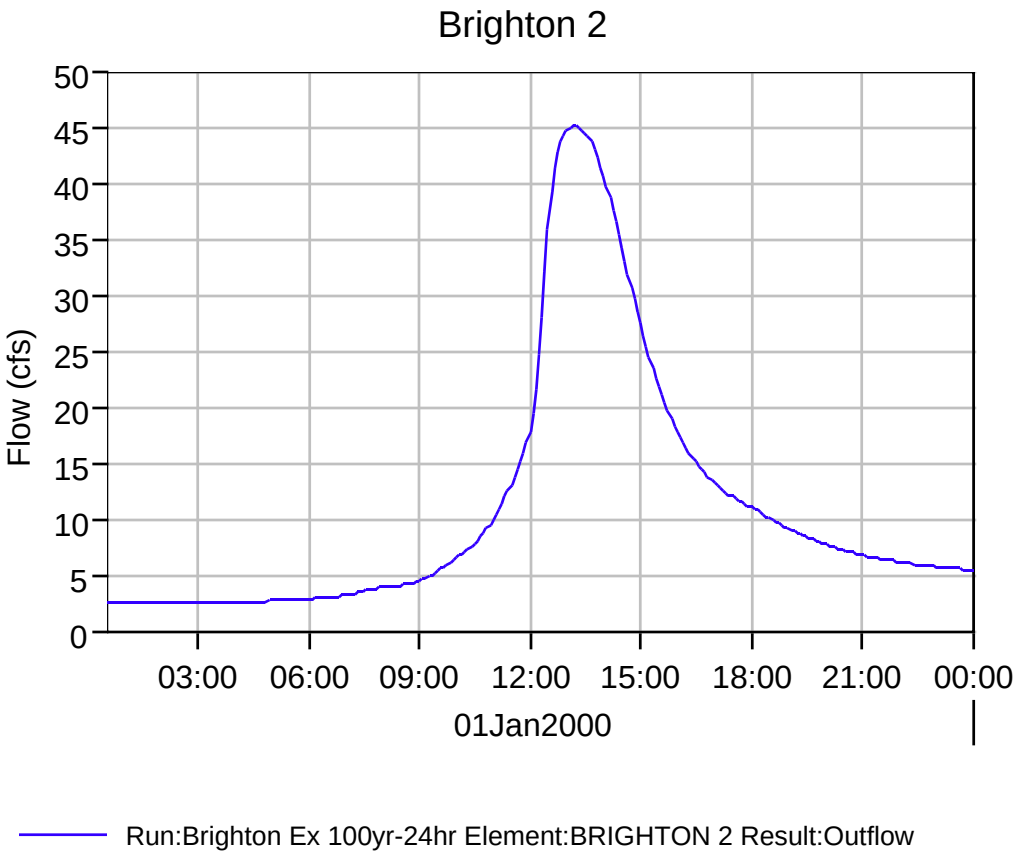


Run:Brighton Ex 100yr-24hr Element:BRIGHTON 2 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 2-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 2 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 2 Result:Baseflow


Brighton 2
Flow (cfs)
50
45
40
35
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BRIGHTON 2 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Brighton 3

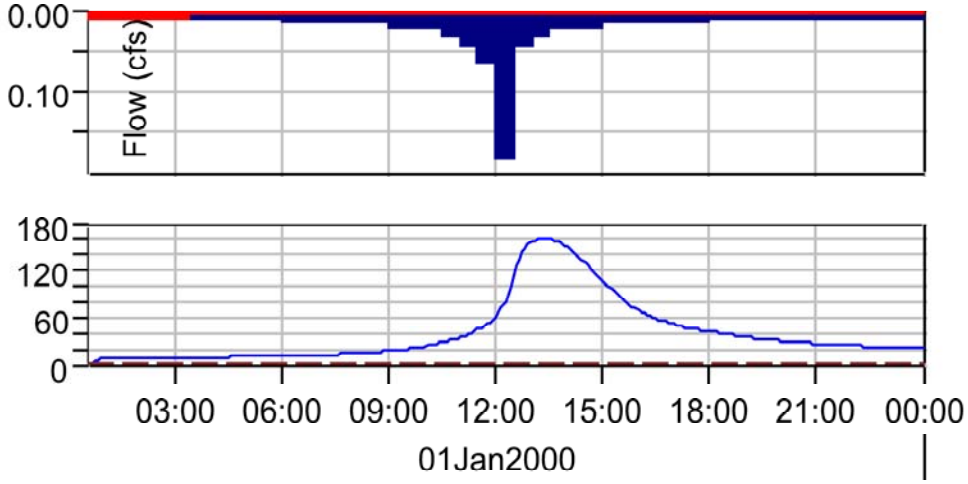
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	161.1 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:20
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	4.32 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	0.29 (IN)
Total Excess :	3.85 (IN)	Discharge :	4.61 (IN)

Subbasin "Brighton 3" Results for Run "Brighton Ex 100yr-24hr"

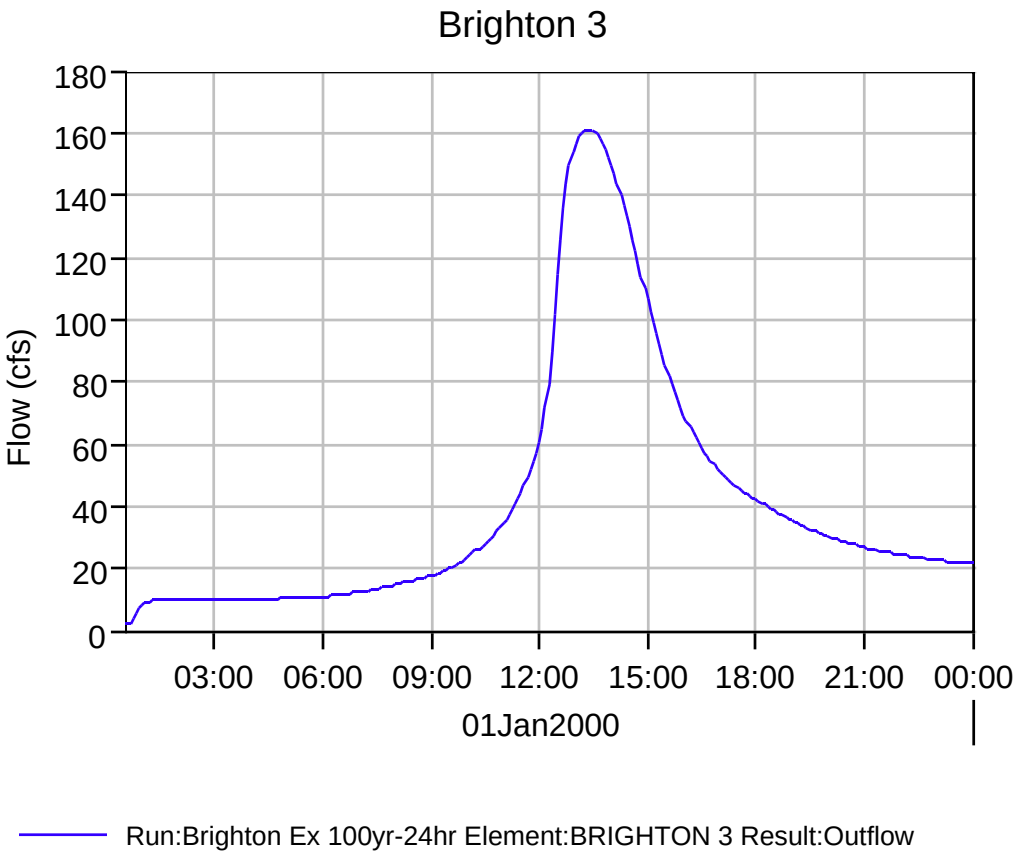


Run:Brighton Ex 100yr-24hr Element:BRIGHTON 3 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 3-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 3 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 3 Result:Baseflow


Brighton 3
Flow (cfs)
180
160
140
120
100
80
60
40
20
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BRIGHTON 3 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Subbasin: Brighton 4

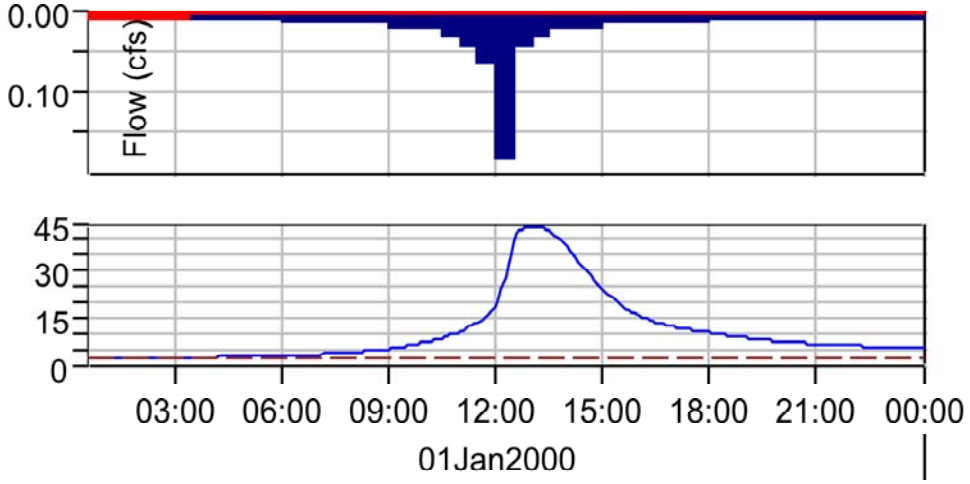
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Discharge :	44.1 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 13:05
Total Precipitation :	5.62 (IN)	Total Direct Runoff :	3.53 (IN)
Total Loss :	1.77 (IN)	Total Baseflow :	1.10 (IN)
Total Excess :	3.85 (IN)	Discharge :	4.63 (IN)

Subbasin "Brighton 4" Results for Run "Brighton Ex 100yr-24hr"

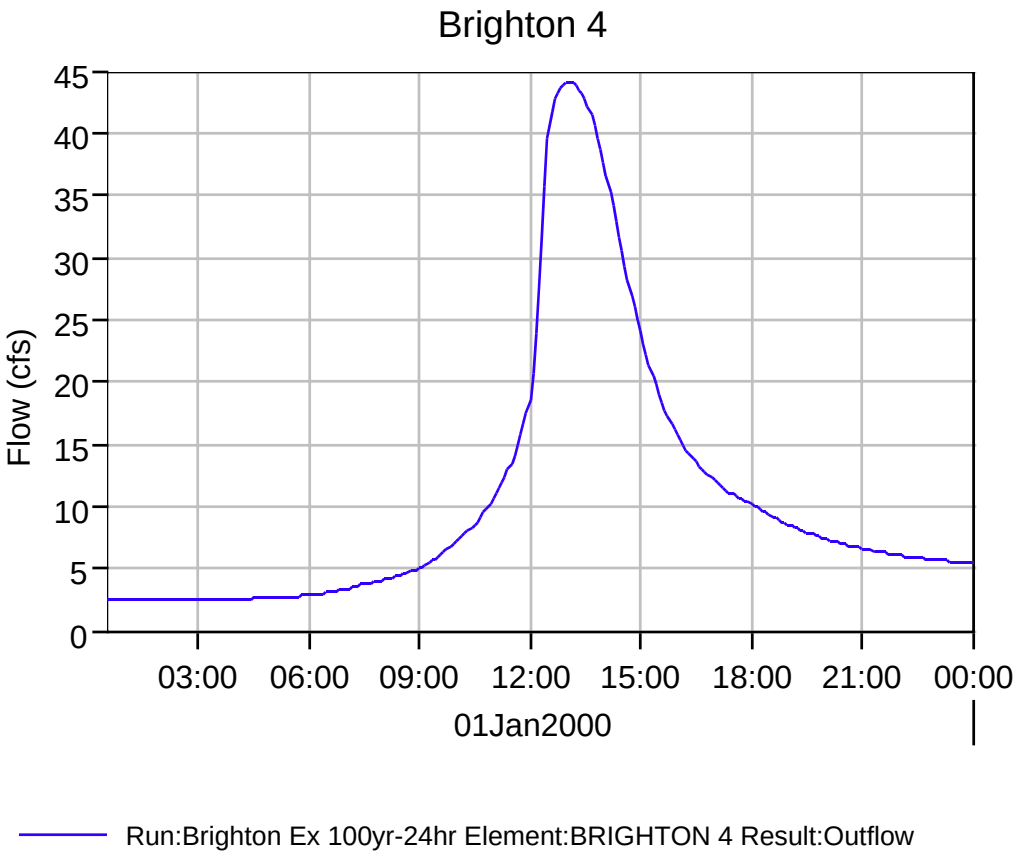


Run:Brighton Ex 100yr-24hr Element:BRIGHTON 4 Result:Precipitation

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 4-1 Result:Precipitation Loss

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 4 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 4 Result:Baseflow


Brighton 4
Flow (cfs)
45
40
35
30
25
20
15
10
5
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:BRIGHTON 4 Result:Outflow

Project: 520120 EX

Simulation Run: Brighton Ex 100yr-24hr Junction: Junction-3

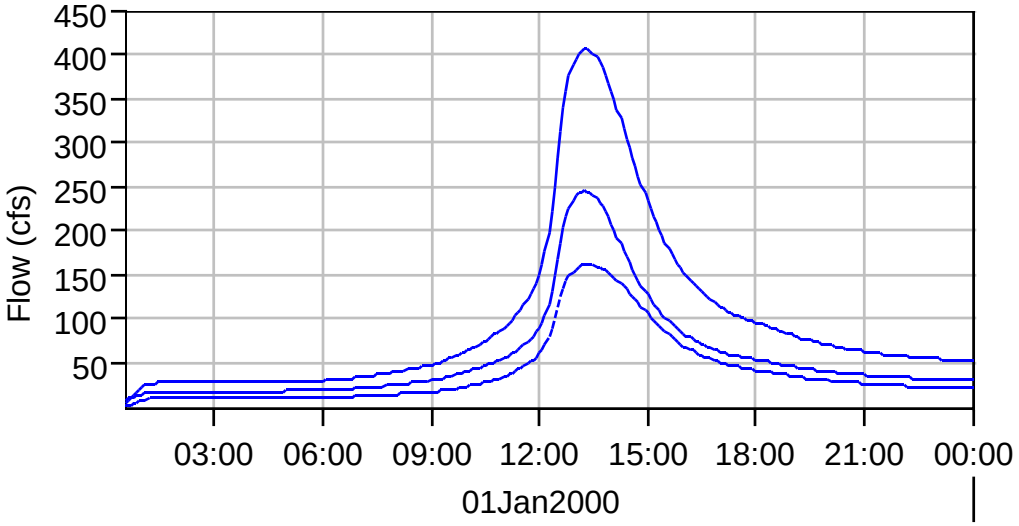
Start of Run:	01Jan2000, 00:30	Basin Model:	Existing
End of Run:	02Jan2000, 00:00	Meteorologic Model:	Brighton 100yr
Compute Time:	02Mar2011, 11:37:32	Control Specifications:	Brighton Landing

Volume Units: IN

Computed Results

Peak Outflow :	406.0 (CFS)	Date/Time of Peak Outflow :	01Jan2000, 13:15
Total Outflow :	4.83 (IN)		

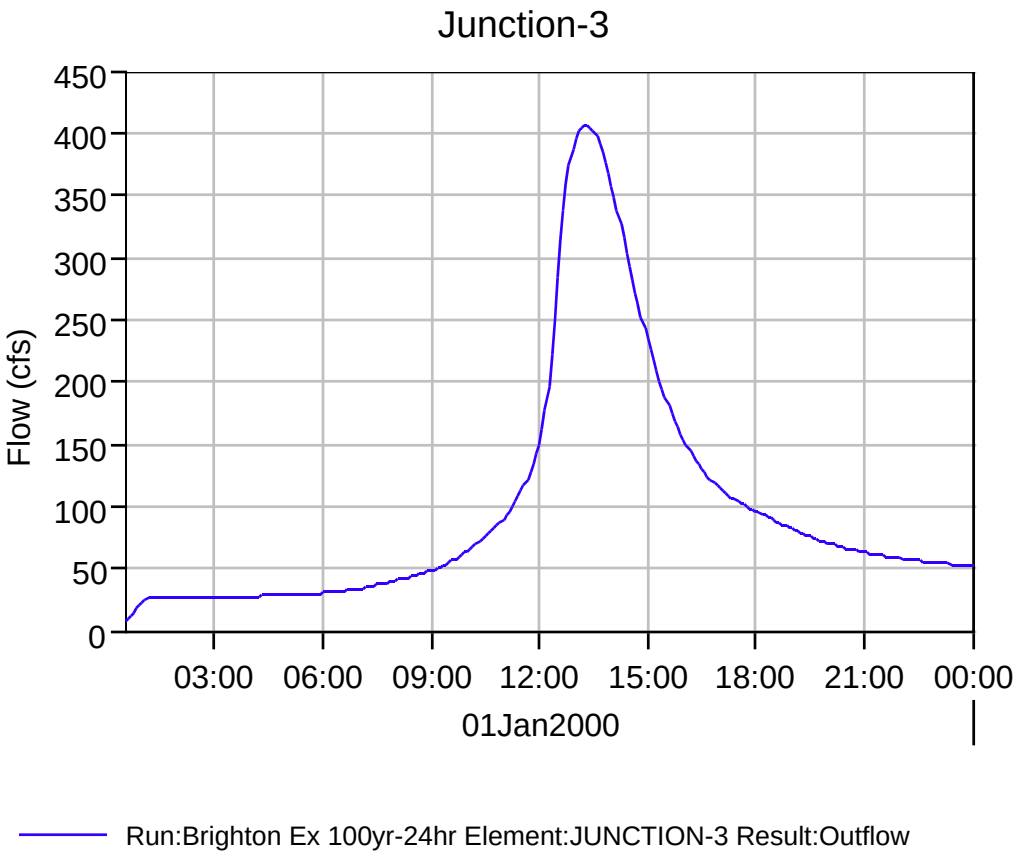
Junction "Junction-3" Results for Run "Brighton Ex 100yr-24hr"



Run:Brighton Ex 100yr-24hr Element:JUNCTION-3 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:JUNCTION-8 Result:Outflow

Run:Brighton Ex 100yr-24hr Element:BRIGHTON 3 Result:Outflow


Junction-3
Flow (cfs)
450
400
350
300
250
200
150
100
50
0
03:00
06:00
09:00
12:00
15:00
18:00
21:00
00:00
01Jan2000
Run:Brighton Ex 100yr-24hr Element:JUNCTION-3 Result:Outflow

Project: 520120 EX
Simulation Run: Brighton Ex 100yr-24hr Junction: Junction-3

Start of Run: 01Jan2000, 00:30 Basin Model: Existing
End of Run: 02Jan2000, 00:00 Meteorologic Model: Brighton 10
Compute Time: 02Mar2011, 11:37:32 Control Specifications: Brighto

01Jan2000	00:30	5.0	2.5	7.5
01Jan2000	00:35	7.4	2.5	9.9
01Jan2000	00:40	9.2	2.5	11.7
01Jan2000	00:45	10.4	4.1	14.5
01Jan2000	00:50	12.1	5.6	17.8
01Jan2000	00:55	13.8	7.0	20.8
01Jan2000	01:00	15.1	8.2	23.2
01Jan2000	01:05	16.0	8.9	24.9
01Jan2000	01:10	16.6	9.4	26.0
01Jan2000	01:15	17.0	9.7	26.6
01Jan2000	01:20	17.2	9.8	27.0
01Jan2000	01:25	17.3	9.9	27.2
01Jan2000	01:30	17.4	10.0	27.4
01Jan2000	01:35	17.5	10.0	27.4
01Jan2000	01:40	17.5	10.0	27.5
01Jan2000	01:45	17.5	10.0	27.5
01Jan2000	01:50	17.5	10.0	27.5
01Jan2000	01:55	17.5	10.0	27.5
01Jan2000	02:00	17.5	10.0	27.5
01Jan2000	02:05	17.5	10.0	27.5
01Jan2000	02:10	17.5	10.0	27.5
01Jan2000	02:15	17.5	10.0	27.5
01Jan2000	02:20	17.5	10.0	27.5
01Jan2000	02:25	17.5	10.0	27.5
01Jan2000	02:30	17.5	10.0	27.5

01Jan2000	02:35	17.5	10.0	27.5
01Jan2000	02:40	17.5	10.0	27.5
01Jan2000	02:45	17.5	10.0	27.5
01Jan2000	02:50	17.5	10.0	27.5
01Jan2000	02:55	17.5	10.0	27.5
01Jan2000	03:00	17.5	10.0	27.5
01Jan2000	03:05	17.5	10.0	27.5
01Jan2000	03:10	17.5	10.0	27.5
01Jan2000	03:15	17.5	10.0	27.5
01Jan2000	03:20	17.5	10.0	27.5
01Jan2000	03:25	17.5	10.0	27.5
01Jan2000	03:30	17.5	10.0	27.5
01Jan2000	03:35	17.5	10.0	27.5
01Jan2000	03:40	17.5	10.0	27.5
01Jan2000	03:45	17.5	10.0	27.6
01Jan2000	03:50	17.6	10.0	27.6
01Jan2000	03:55	17.6	10.0	27.6
01Jan2000	04:00	17.6	10.1	27.7
01Jan2000	04:05	17.6	10.1	27.7
01Jan2000	04:10	17.7	10.1	27.8
01Jan2000	04:15	17.7	10.1	27.8
01Jan2000	04:20	17.7	10.1	27.9
01Jan2000	04:25	17.8	10.2	27.9
01Jan2000	04:30	17.8	10.2	28.0
01Jan2000	04:35	17.9	10.2	28.1
01Jan2000	04:40	17.9	10.2	28.2
01Jan2000	04:45	18.0	10.3	28.2
01Jan2000	04:50	18.0	10.3	28.3
01Jan2000	04:55	18.1	10.3	28.4
01Jan2000	05:00	18.2	10.4	28.5
01Jan2000	05:05	18.2	10.4	28.6

01Jan2000	05:10	18.3	10.4	28.8
01Jan2000	05:15	18.4	10.5	28.9
01Jan2000	05:20	18.5	10.5	29.0
01Jan2000	05:25	18.5	10.6	29.1
01Jan2000	05:30	18.6	10.6	29.2
01Jan2000	05:35	18.7	10.7	29.4
01Jan2000	05:40	18.8	10.7	29.5
01Jan2000	05:45	18.9	10.8	29.7
01Jan2000	05:50	19.0	10.8	29.8
01Jan2000	05:55	19.1	10.9	30.0
01Jan2000	06:00	19.2	11.0	30.2
01Jan2000	06:05	19.3	11.0	30.4
01Jan2000	06:10	19.5	11.1	30.6
01Jan2000	06:15	19.6	11.2	30.8
01Jan2000	06:20	19.8	11.3	31.1
01Jan2000	06:25	20.0	11.4	31.4
01Jan2000	06:30	20.2	11.5	31.7
01Jan2000	06:35	20.4	11.6	32.0
01Jan2000	06:40	20.6	11.8	32.3
01Jan2000	06:45	20.8	11.9	32.7
01Jan2000	06:50	21.0	12.0	33.0
01Jan2000	06:55	21.2	12.2	33.4
01Jan2000	07:00	21.5	12.3	33.8
01Jan2000	07:05	21.8	12.4	34.2
01Jan2000	07:10	22.1	12.6	34.7
01Jan2000	07:15	22.4	12.8	35.1
01Jan2000	07:20	22.7	12.9	35.7
01Jan2000	07:25	23.0	13.1	36.2
01Jan2000	07:30	23.4	13.4	36.7
01Jan2000	07:35	23.7	13.6	37.3
01Jan2000	07:40	24.1	13.8	37.9

01Jan2000	07:45	24.5	14.0	38.5
01Jan2000	07:50	24.8	14.3	39.1
01Jan2000	07:55	25.2	14.5	39.7
01Jan2000	08:00	25.6	14.7	40.3
01Jan2000	08:05	25.9	15.0	40.9
01Jan2000	08:10	26.3	15.2	41.5
01Jan2000	08:15	26.7	15.4	42.1
01Jan2000	08:20	27.1	15.7	42.8
01Jan2000	08:25	27.5	15.9	43.4
01Jan2000	08:30	27.9	16.1	44.0
01Jan2000	08:35	28.3	16.3	44.6
01Jan2000	08:40	28.7	16.6	45.3
01Jan2000	08:45	29.1	16.8	45.9
01Jan2000	08:50	29.6	17.0	46.6
01Jan2000	08:55	30.0	17.2	47.3
01Jan2000	09:00	30.5	17.5	48.0
01Jan2000	09:05	31.1	17.8	48.9
01Jan2000	09:10	31.7	18.1	49.8
01Jan2000	09:15	32.3	18.5	50.8
01Jan2000	09:20	33.1	18.9	52.0
01Jan2000	09:25	33.8	19.4	53.2
01Jan2000	09:30	34.6	19.9	54.5
01Jan2000	09:35	35.5	20.5	55.9
01Jan2000	09:40	36.4	21.0	57.4
01Jan2000	09:45	37.3	21.6	59.0
01Jan2000	09:50	38.3	22.3	60.6
01Jan2000	09:55	39.3	22.9	62.2
01Jan2000	10:00	40.3	23.6	63.9
01Jan2000	10:05	41.4	24.3	65.7
01Jan2000	10:10	42.5	25.0	67.5
01Jan2000	10:15	43.7	25.7	69.4

01Jan2000	10:20	44.8	26.5	71.3
01Jan2000	10:25	46.0	27.2	73.2
01Jan2000	10:30	47.1	28.0	75.2
01Jan2000	10:35	48.3	28.9	77.2
01Jan2000	10:40	49.6	29.8	79.4
01Jan2000	10:45	50.9	30.8	81.7
01Jan2000	10:50	52.3	31.9	84.2
01Jan2000	10:55	53.7	33.0	86.8
01Jan2000	11:00	55.2	34.3	89.5
01Jan2000	11:05	56.8	35.7	92.5
01Jan2000	11:10	58.6	37.2	95.8
01Jan2000	11:15	60.6	38.8	99.4
01Jan2000	11:20	62.7	40.6	103.3
01Jan2000	11:25	64.9	42.4	107.4
01Jan2000	11:30	67.3	44.4	111.7
01Jan2000	11:35	70.1	46.5	116.6
01Jan2000	11:40	73.2	48.9	122.1
01Jan2000	11:45	76.6	51.5	128.1
01Jan2000	11:50	80.5	54.2	134.7
01Jan2000	11:55	84.6	57.1	141.7
01Jan2000	12:00	89.2	60.5	149.7
01Jan2000	12:05	95.7	65.1	160.8
01Jan2000	12:10	104.9	71.4	176.3
01Jan2000	12:15	117.0	79.6	196.5
01Jan2000	12:20	131.8	89.6	221.4
01Jan2000	12:25	149.3	101.3	250.7
01Jan2000	12:30	168.9	114.2	283.1
01Jan2000	12:35	187.2	125.9	313.1
01Jan2000	12:40	202.9	135.7	338.5
01Jan2000	12:45	215.6	143.3	359.0
01Jan2000	12:50	225.7	149.2	374.8

01Jan2000	12:55	233.3	153.5	386.8
01Jan2000	13:00	238.8	156.7	395.5
01Jan2000	13:05	242.5	158.8	401.3
01Jan2000	13:10	244.5	160.2	404.7
01Jan2000	13:15	245.1	160.9	406.0
01Jan2000	13:20	244.5	161.1	405.6
01Jan2000	13:25	242.9	161.0	403.9
01Jan2000	13:30	240.4	160.5	400.9
01Jan2000	13:35	236.9	159.6	396.5
01Jan2000	13:40	232.4	158.3	390.8
01Jan2000	13:45	227.2	156.7	383.8
01Jan2000	13:50	221.3	154.6	375.9
01Jan2000	13:55	214.8	152.3	367.1
01Jan2000	14:00	207.9	149.7	357.6
01Jan2000	14:05	200.7	146.9	347.5
01Jan2000	14:10	193.2	143.8	337.0
01Jan2000	14:15	185.7	140.5	326.2
01Jan2000	14:20	178.2	137.0	315.2
01Jan2000	14:25	170.8	133.4	304.2
01Jan2000	14:30	163.6	129.6	293.2
01Jan2000	14:35	156.6	125.8	282.4
01Jan2000	14:40	150.0	121.9	271.9
01Jan2000	14:45	143.8	117.9	261.7
01Jan2000	14:50	137.9	114.0	251.9
01Jan2000	14:55	132.4	110.1	242.5
01Jan2000	15:00	127.3	106.3	233.6
01Jan2000	15:05	122.4	102.6	225.0
01Jan2000	15:10	117.8	98.9	216.7
01Jan2000	15:15	113.4	95.3	208.7
01Jan2000	15:20	109.2	91.8	201.0
01Jan2000	15:25	105.3	88.5	193.7

01Jan2000	15:30	101.6	85.3	186.8
01Jan2000	15:35	98.1	82.2	180.3
01Jan2000	15:40	94.8	79.3	174.1
01Jan2000	15:45	91.7	76.6	168.3
01Jan2000	15:50	88.8	74.1	162.9
01Jan2000	15:55	86.1	71.7	157.8
01Jan2000	16:00	83.6	69.4	153.0
01Jan2000	16:05	81.2	67.3	148.5
01Jan2000	16:10	79.0	65.3	144.3
01Jan2000	16:15	76.9	63.5	140.4
01Jan2000	16:20	75.0	61.7	136.7
01Jan2000	16:25	73.2	60.1	133.3
01Jan2000	16:30	71.5	58.6	130.1
01Jan2000	16:35	69.9	57.1	127.0
01Jan2000	16:40	68.4	55.8	124.2
01Jan2000	16:45	67.0	54.5	121.5
01Jan2000	16:50	65.7	53.3	119.0
01Jan2000	16:55	64.5	52.2	116.7
01Jan2000	17:00	63.3	51.1	114.5
01Jan2000	17:05	62.3	50.1	112.4
01Jan2000	17:10	61.3	49.2	110.4
01Jan2000	17:15	60.3	48.3	108.6
01Jan2000	17:20	59.4	47.4	106.9
01Jan2000	17:25	58.6	46.6	105.2
01Jan2000	17:30	57.8	45.9	103.7
01Jan2000	17:35	57.0	45.2	102.2
01Jan2000	17:40	56.3	44.5	100.9
01Jan2000	17:45	55.7	43.9	99.6
01Jan2000	17:50	55.1	43.3	98.3
01Jan2000	17:55	54.5	42.7	97.2
01Jan2000	18:00	53.9	42.2	96.1

01Jan2000	18:05	53.3	41.6	95.0
01Jan2000	18:10	52.8	41.1	93.8
01Jan2000	18:15	52.2	40.5	92.6
01Jan2000	18:20	51.5	39.9	91.4
01Jan2000	18:25	50.9	39.3	90.2
01Jan2000	18:30	50.2	38.7	89.0
01Jan2000	18:35	49.6	38.1	87.7
01Jan2000	18:40	48.9	37.6	86.5
01Jan2000	18:45	48.3	37.0	85.3
01Jan2000	18:50	47.6	36.4	84.1
01Jan2000	18:55	47.0	35.9	82.9
01Jan2000	19:00	46.4	35.4	81.8
01Jan2000	19:05	45.8	34.9	80.6
01Jan2000	19:10	45.2	34.4	79.5
01Jan2000	19:15	44.6	33.9	78.5
01Jan2000	19:20	44.0	33.4	77.5
01Jan2000	19:25	43.5	33.0	76.5
01Jan2000	19:30	43.0	32.6	75.5
01Jan2000	19:35	42.5	32.1	74.6
01Jan2000	19:40	42.0	31.7	73.7
01Jan2000	19:45	41.5	31.3	72.8
01Jan2000	19:50	41.0	31.0	72.0
01Jan2000	19:55	40.6	30.6	71.2
01Jan2000	20:00	40.2	30.2	70.4
01Jan2000	20:05	39.7	29.9	69.6
01Jan2000	20:10	39.3	29.6	68.9
01Jan2000	20:15	39.0	29.2	68.2
01Jan2000	20:20	38.6	28.9	67.5
01Jan2000	20:25	38.2	28.6	66.9
01Jan2000	20:30	37.9	28.3	66.2
01Jan2000	20:35	37.6	28.0	65.7

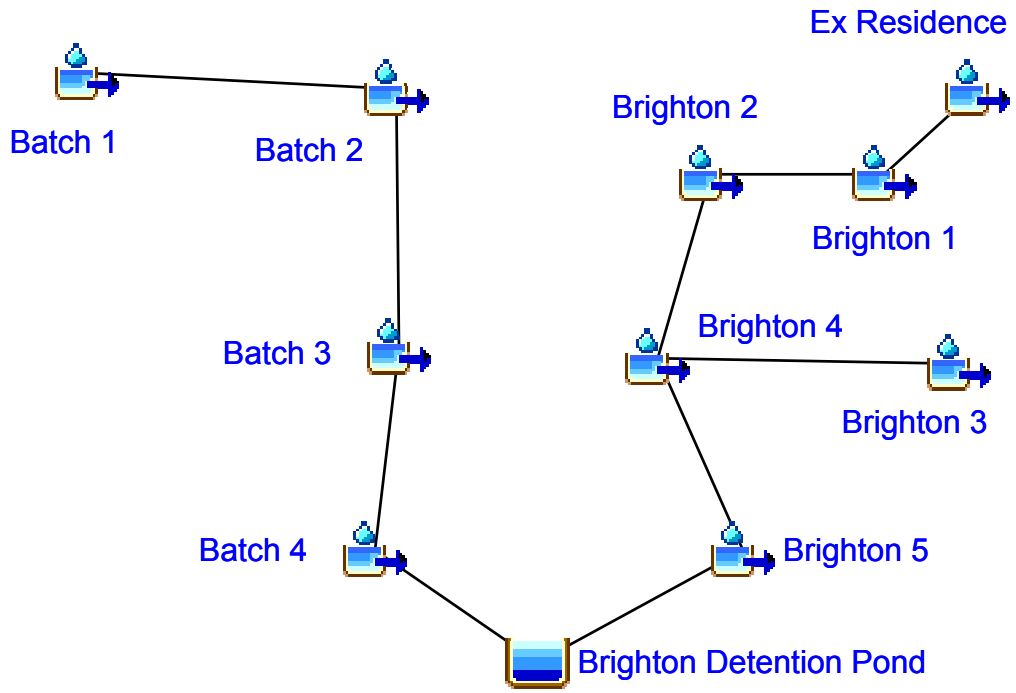
Post-Development Condition Calculations

HEC-HMS

Project : 250120 Dev

Basin Model : Brighton Dev

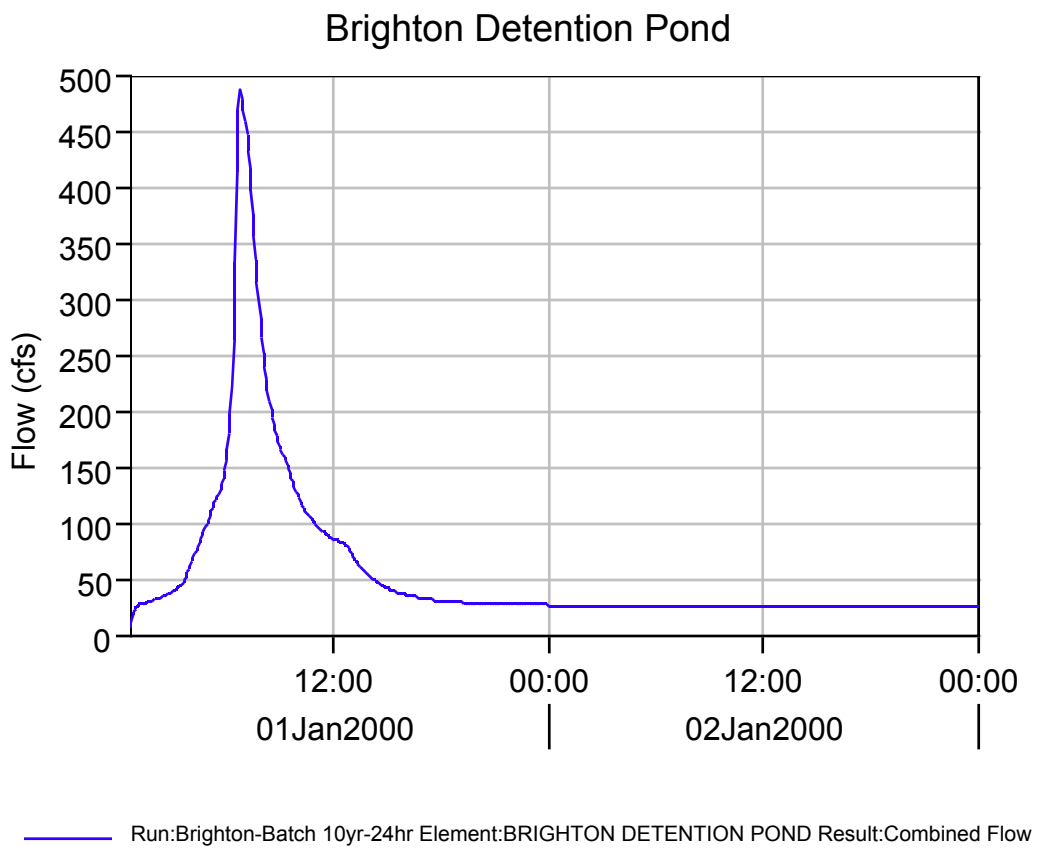
Mar 03 01:11:58 PST 2011

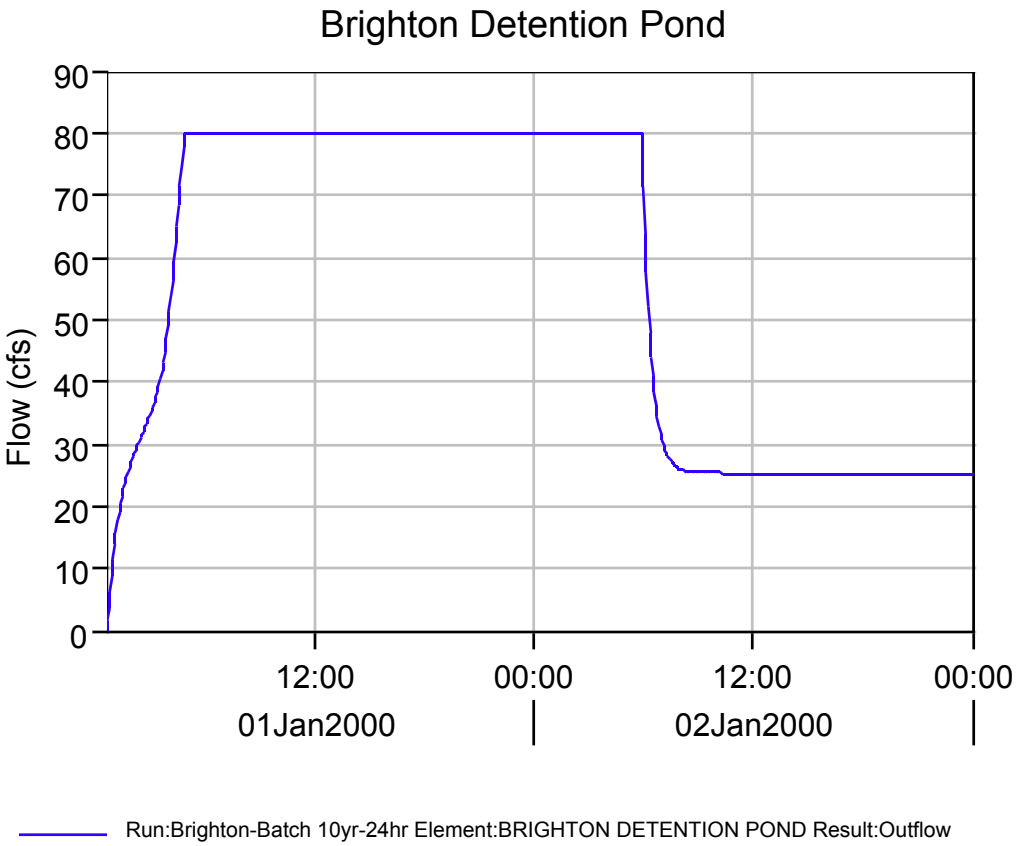


Project: 250120 Dev Simulation Run: Brighton-Batch 10yr-24hr

Start of Run: 01Jan2000, 00:30 Basin Model: Brighton Dev
End of Run: 03Jan2000, 00:00 Meteorologic Model: Brighton 10yr-24hr
Compute Time: 02Mar2011, 23:11:30 Control Specifications: Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Ex Residence	0.0102	10.9	01Jan2000, 06:45	21.30
Brighton 1	0.0882	80.8	01Jan2000, 06:30	7.47
Brighton 2	0.1657	134.1	01Jan2000, 06:35	6.70
Brighton 3	0.0480	37.9	01Jan2000, 06:45	7.35
Brighton 4	0.2410	193.9	01Jan2000, 06:35	7.25
Brighton 5	0.3371	265.2	01Jan2000, 06:40	6.72
Batch 1	0.1160	88.0	01Jan2000, 06:50	5.15
Batch 2	0.1616	123.6	01Jan2000, 06:50	5.81
Batch 3	0.1866	137.1	01Jan2000, 06:50	6.52
Batch 4	0.3156	233.9	01Jan2000, 06:50	5.85
Detention Pond	0.6527	80.0	01Jan2000, 04:50	6.27


Brighton Detention Pond
Flow (cfs)
500
450
400
350
300
250
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Combined Flow


Brighton Detention Pond
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Batch 1

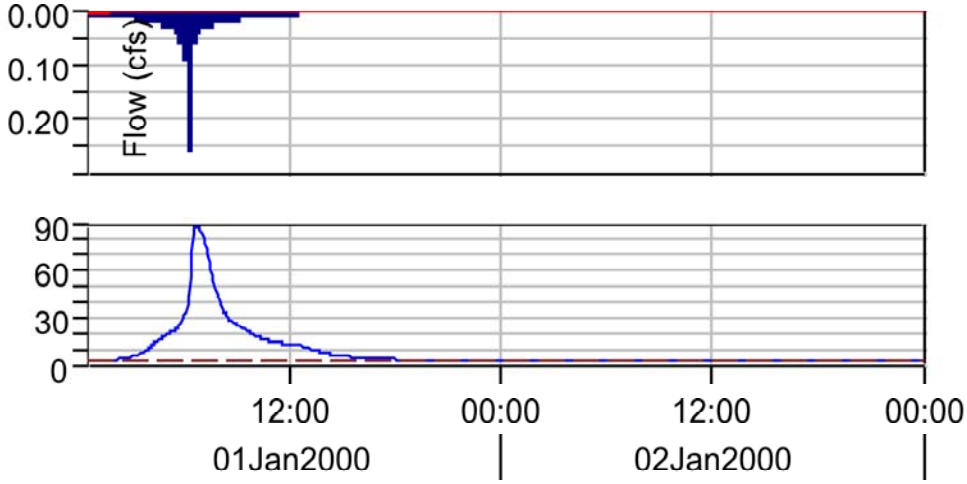
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	88.0 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:50
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	3.56 (IN)
Total Loss :	0.44 (IN)	Total Baseflow :	1.59 (IN)
Total Excess :	3.57 (IN)	Discharge :	5.15 (IN)

Subbasin "Batch 1" Results for Run "Brighton-Batch 10yr-24hr"

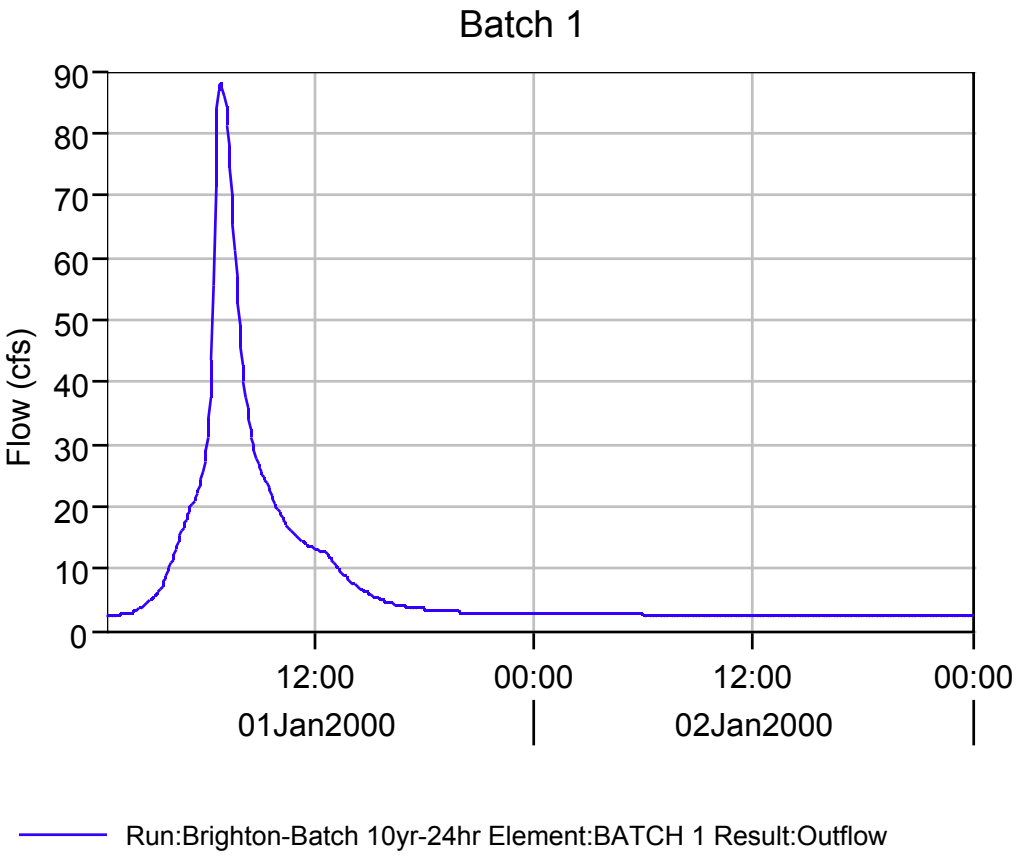


Run:Brighton-Batch 10yr-24hr Element:BATCH 1 Result:Precipitation

Run:Brighton-Batch 10yr-24hr Element:BATCH 1-1 Result:Precipitation Loss

Run:Brighton-Batch 10yr-24hr Element:BATCH 1 Result:Outflow

Run:Brighton-Batch 10yr-24hr Element:BATCH 1 Result:Baseflow


Batch 1
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BATCH 1 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Batch 2

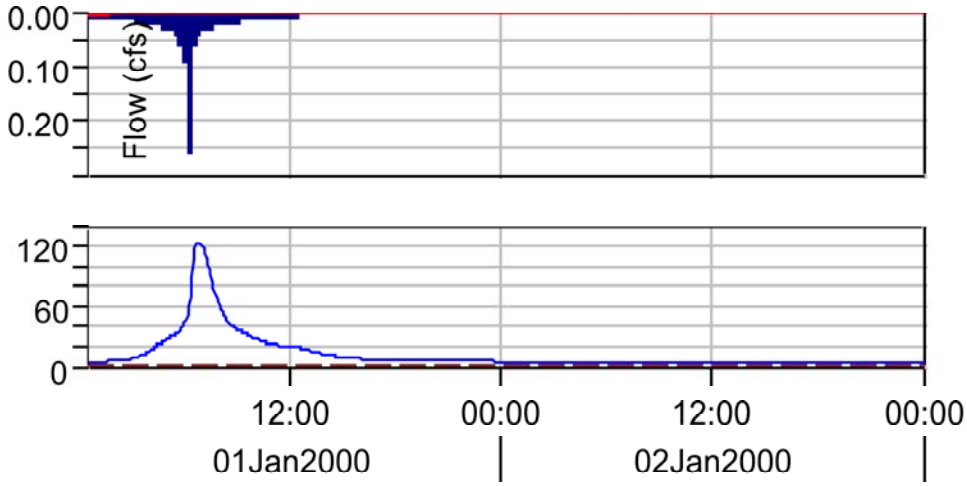
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	123.6 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:50
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	4.67 (IN)
Total Loss :	0.44 (IN)	Total Baseflow :	1.14 (IN)
Total Excess :	3.57 (IN)	Discharge :	5.81 (IN)

Subbasin "Batch 2" Results for Run "Brighton-Batch 10yr-24hr"

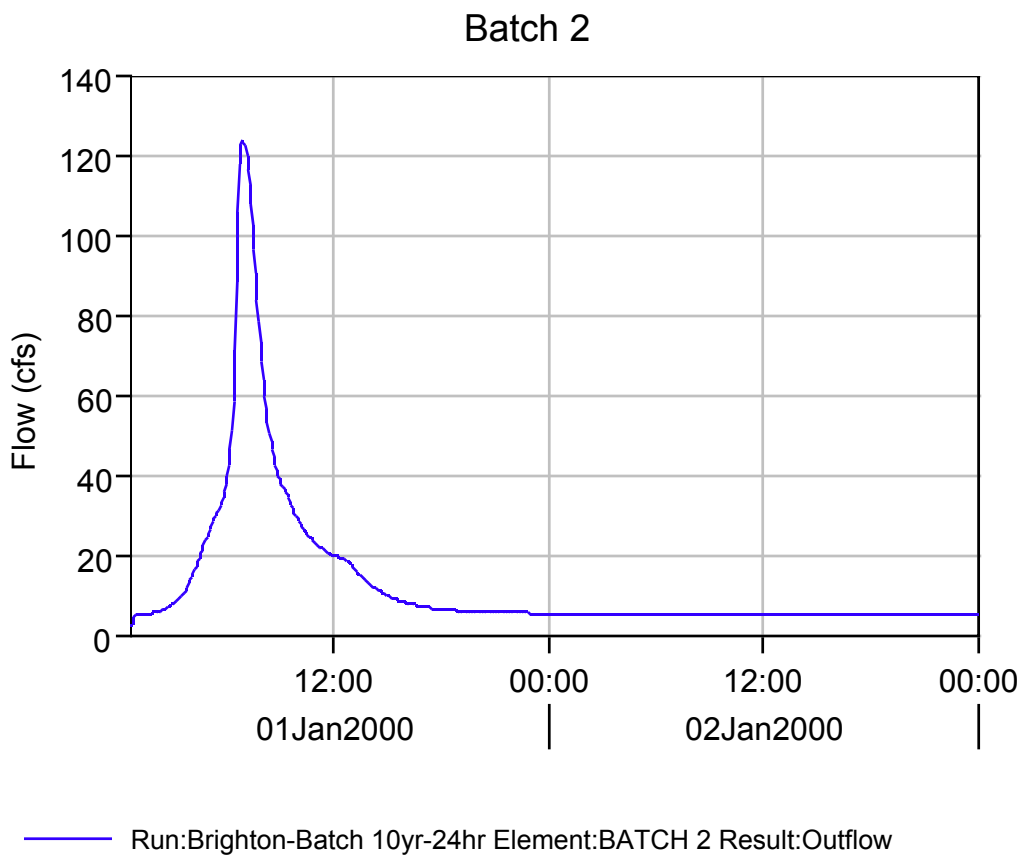


Run:Brighton-Batch 10yr-24hr Element:BATCH 2 Result:Precipitation

Run:Brighton-Batch 10yr-24hr Element:BATCH 2-1 Result:Precipitation Loss

Run:Brighton-Batch 10yr-24hr Element:BATCH 2 Result:Outflow

Run:Brighton-Batch 10yr-24hr Element:BATCH 2 Result:Baseflow


Batch 2
Flow (cfs)
140
120
100
80
60
40
20
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BATCH 2 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Batch 3

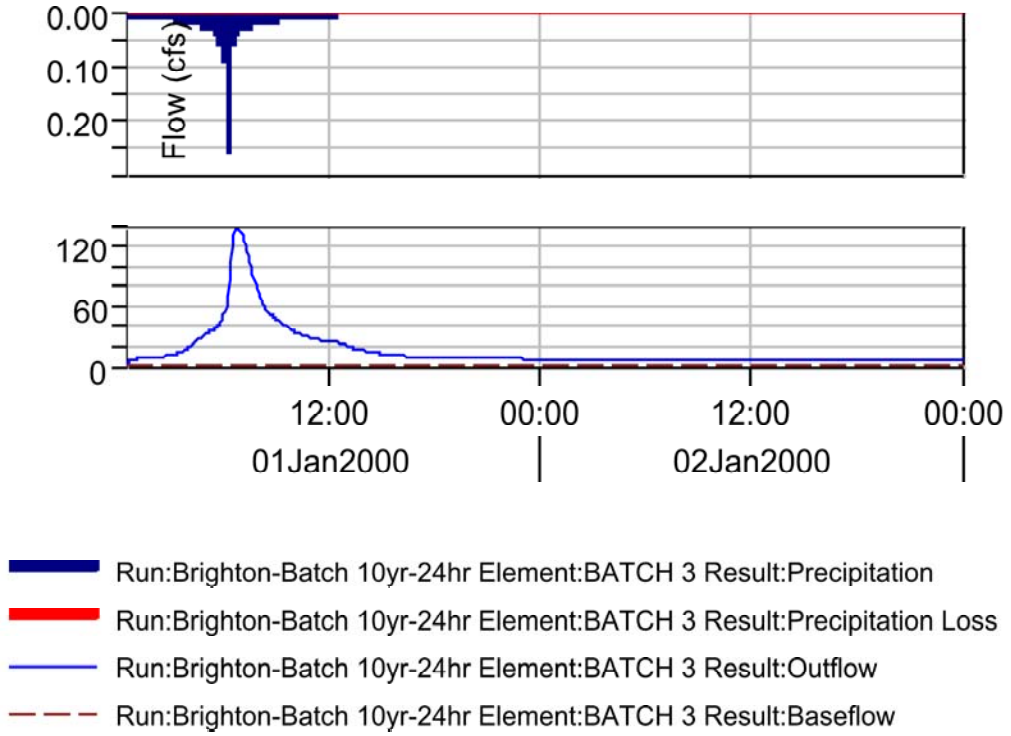
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

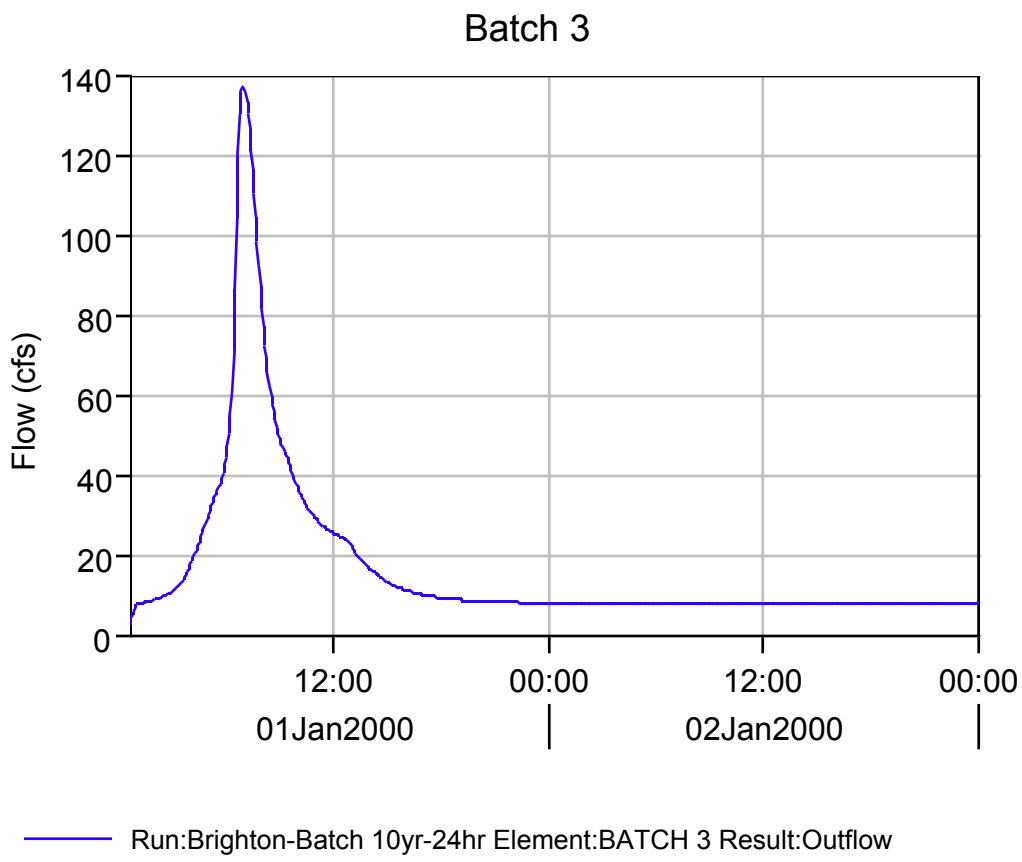
Volume Units: IN

Computed Results

Peak Discharge :	137.1 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:50
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	5.53 (IN)
Total Loss :	0.16 (IN)	Total Baseflow :	0.99 (IN)
Total Excess :	0.15 (IN)	Discharge :	6.52 (IN)

Subbasin "Batch 3" Results for Run "Brighton-Batch 10yr-24hr"




Batch 3
Flow (cfs)
140
120
100
80
60
40
20
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BATCH 3 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Batch 4

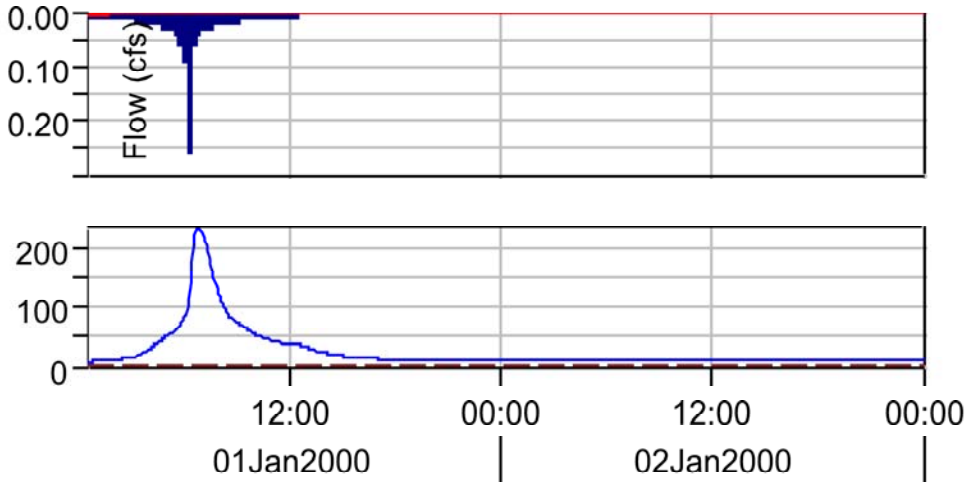
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	233.9 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:50
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	5.26 (IN)
Total Loss :	0.44 (IN)	Total Baseflow :	0.58 (IN)
Total Excess :	3.57 (IN)	Discharge :	5.85 (IN)

Subbasin "Batch 4" Results for Run "Brighton-Batch 10yr-24hr"

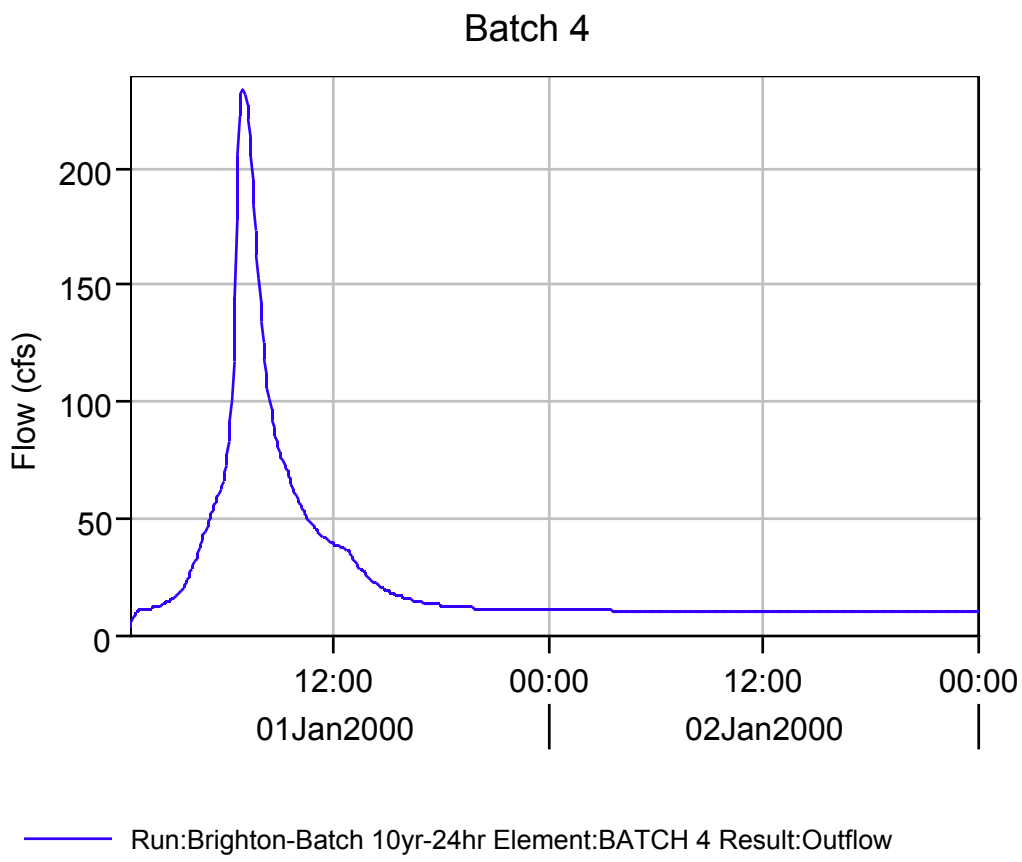


Run:Brighton-Batch 10yr-24hr Element:BATCH 4 Result:Precipitation

Run:Brighton-Batch 10yr-24hr Element:BATCH 4-1 Result:Precipitation Loss

Run:Brighton-Batch 10yr-24hr Element:BATCH 4 Result:Outflow

Run:Brighton-Batch 10yr-24hr Element:BATCH 4 Result:Baseflow


Batch 4
Flow (cfs)
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BATCH 4 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Ex Residence

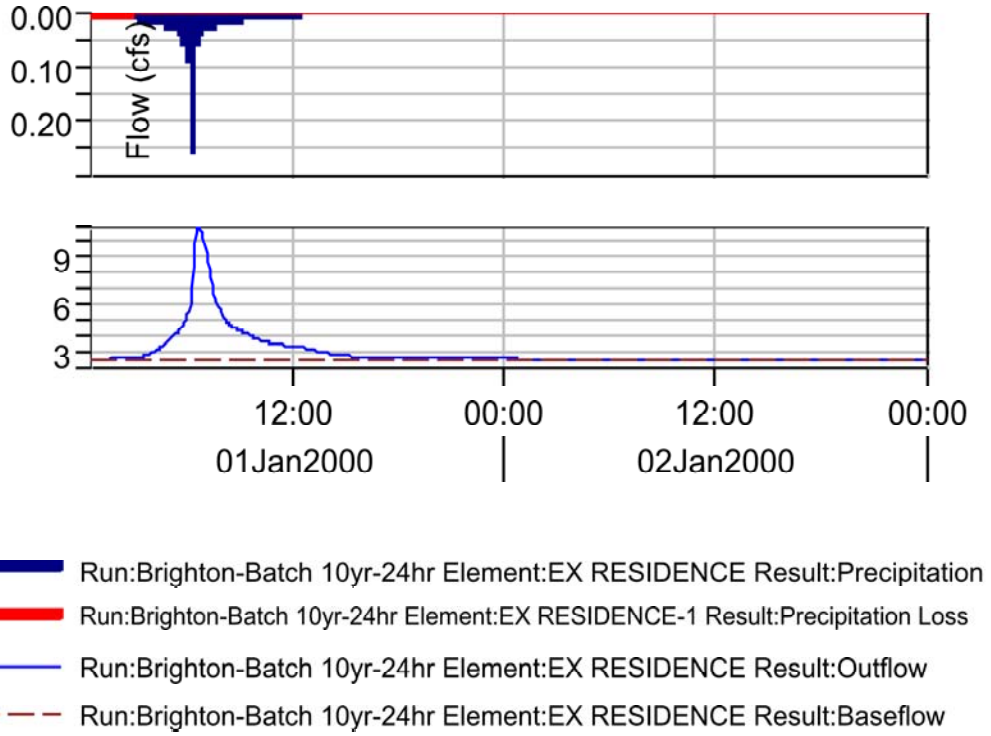
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

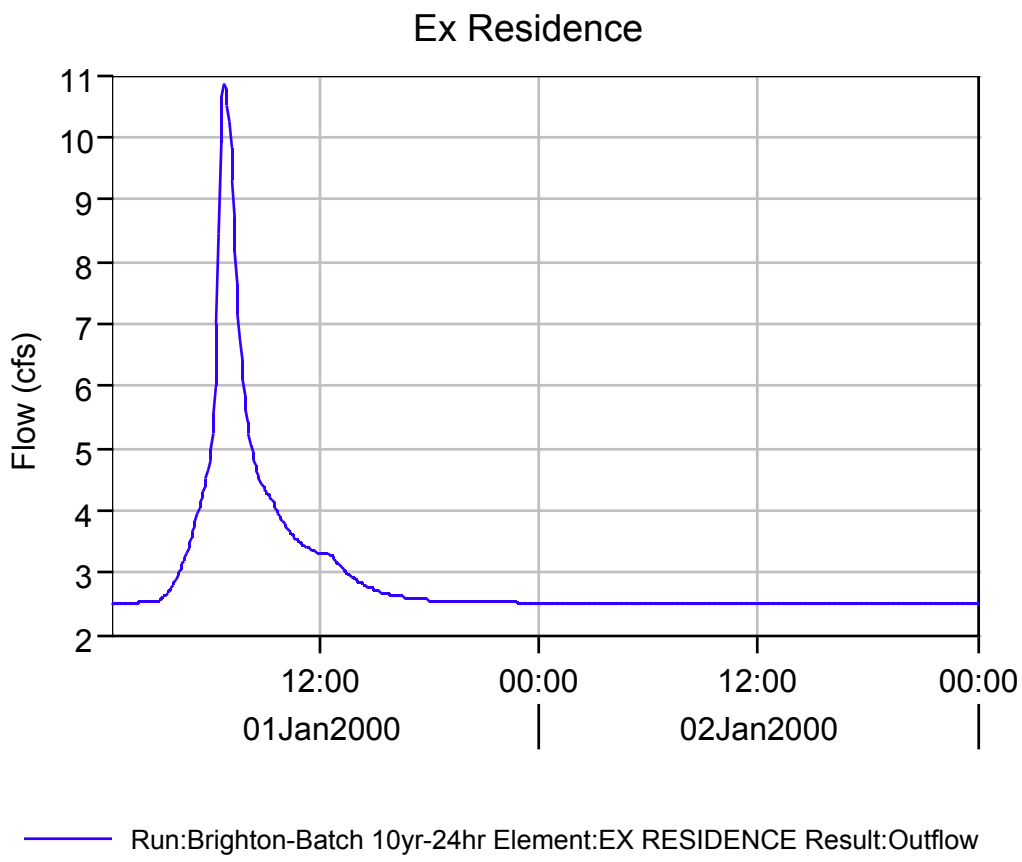
Volume Units: IN

Computed Results

Peak Discharge :	10.9 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:45
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	3.26 (IN)
Total Loss :	0.74 (IN)	Total Baseflow :	18.04 (IN)
Total Excess :	3.27 (IN)	Discharge :	21.30 (IN)

Subbasin "Ex Residence" Results for Run "Brighton-Batch 10yr-24hr"




Ex Residence
Flow (cfs)
11
10
9
8
7
6
5
4
3
2
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:EX RESIDENCE Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Brighton 1

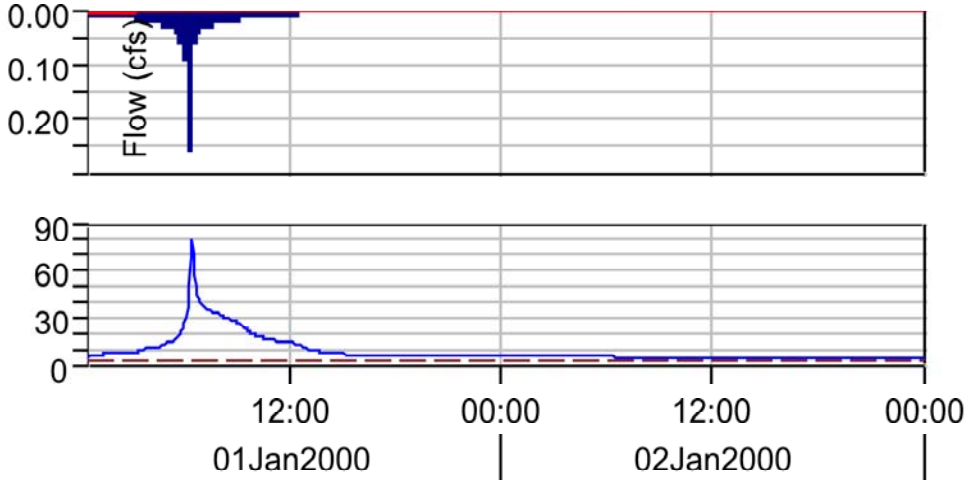
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	80.8 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:30
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	5.39 (IN)
Total Loss :	0.61 (IN)	Total Baseflow :	2.09 (IN)
Total Excess :	0.13 (IN)	Discharge :	7.47 (IN)

Subbasin "Brighton 1" Results for Run "Brighton-Batch 10yr-24hr"

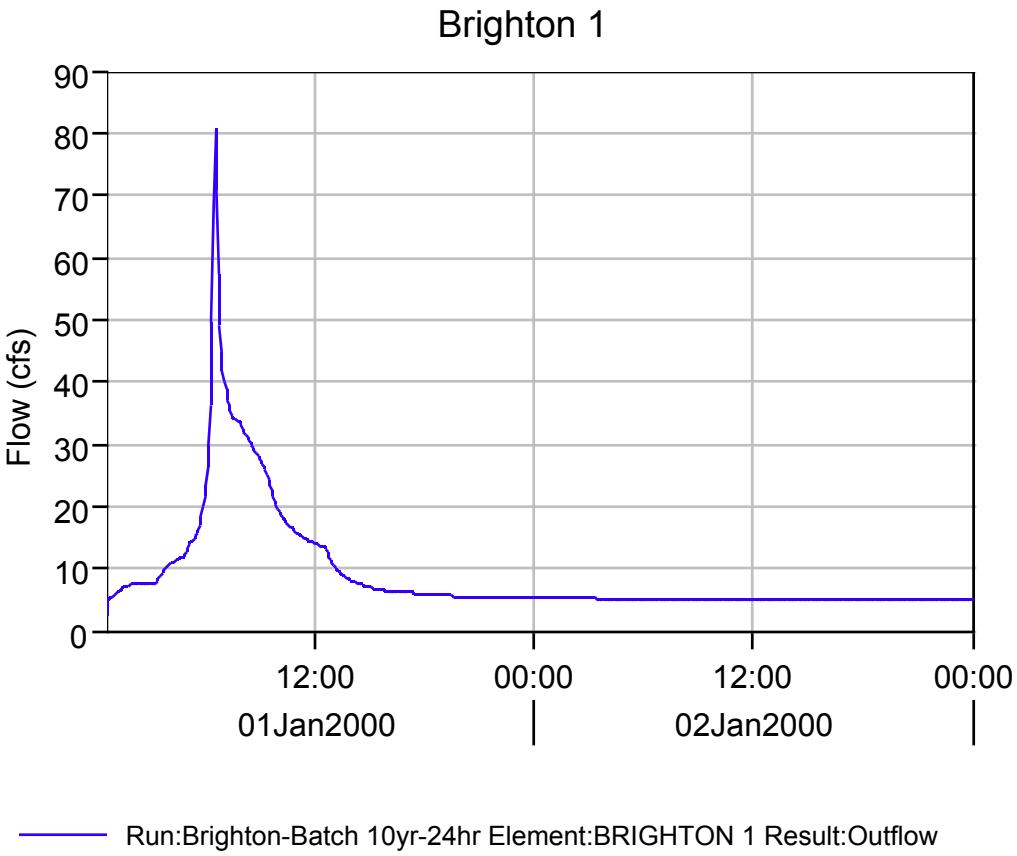


Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 1 Result:Precipitation

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 1 Result:Precipitation Loss

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 1 Result:Outflow

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 1 Result:Baseflow


Brighton 1
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 1 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Brighton 2

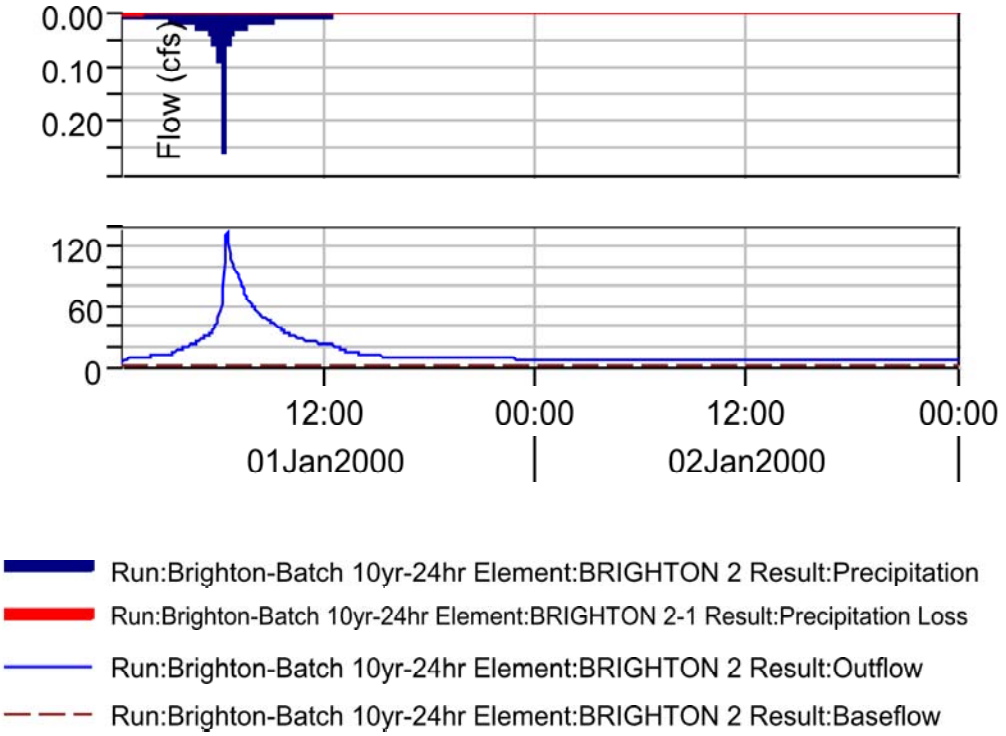
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

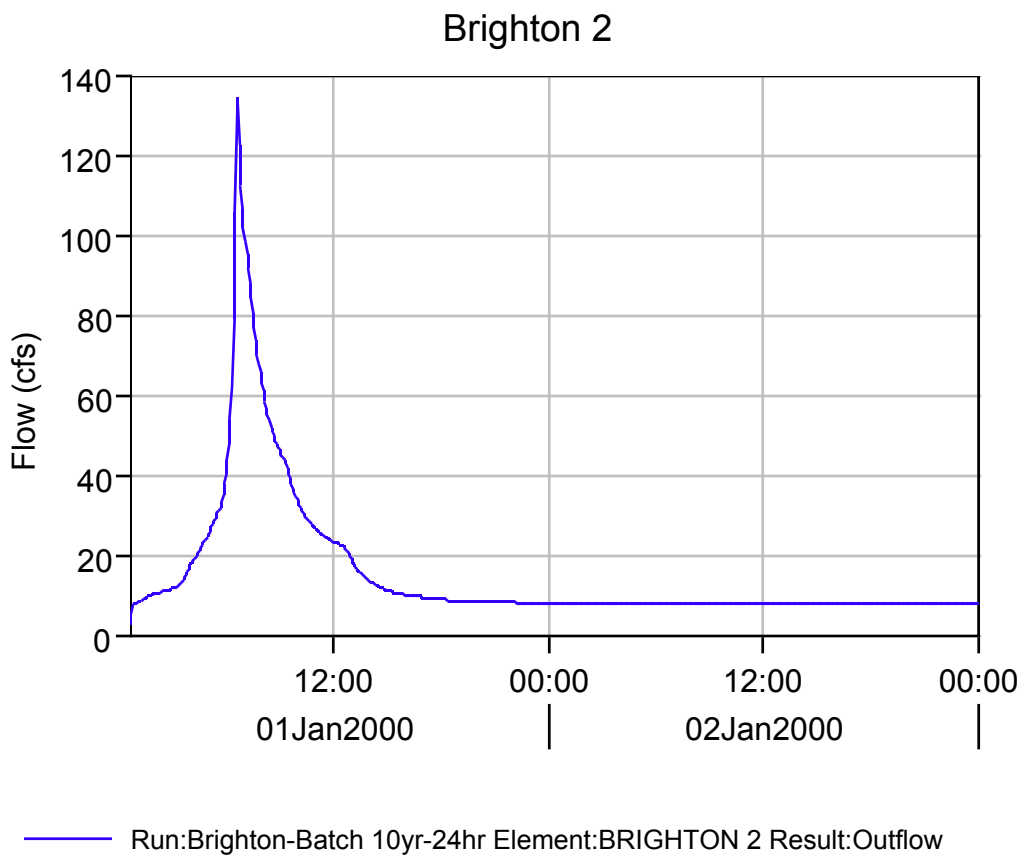
Volume Units: IN

Computed Results

Peak Discharge :	134.1 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:35
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	5.59 (IN)
Total Loss :	0.44 (IN)	Total Baseflow :	1.11 (IN)
Total Excess :	3.57 (IN)	Discharge :	6.70 (IN)

Subbasin "Brighton 2" Results for Run "Brighton-Batch 10yr-24hr"




Brighton 2
Flow (cfs)
140
120
100
80
60
40
20
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 2 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Brighton 3

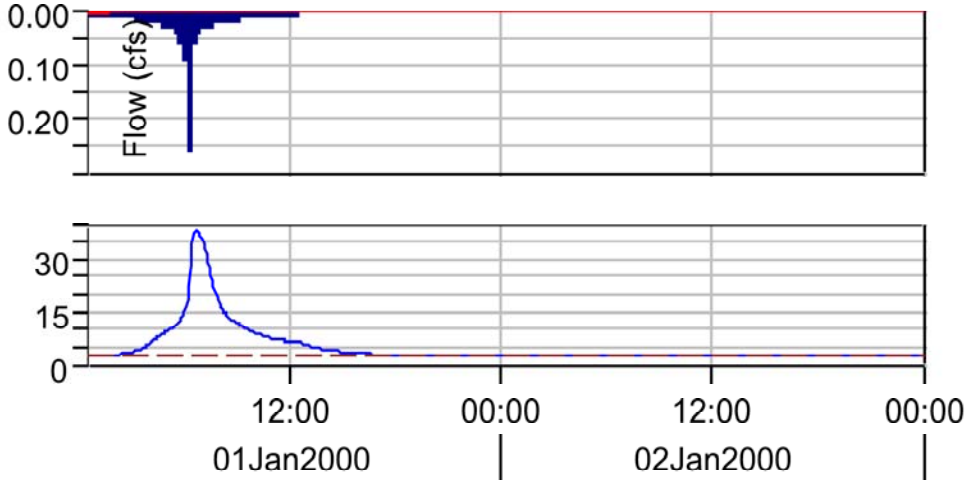
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	37.9 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:45
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	3.51 (IN)
Total Loss :	0.44 (IN)	Total Baseflow :	3.83 (IN)
Total Excess :	3.57 (IN)	Discharge :	7.35 (IN)

Subbasin "Brighton 3" Results for Run "Brighton-Batch 10yr-24hr"

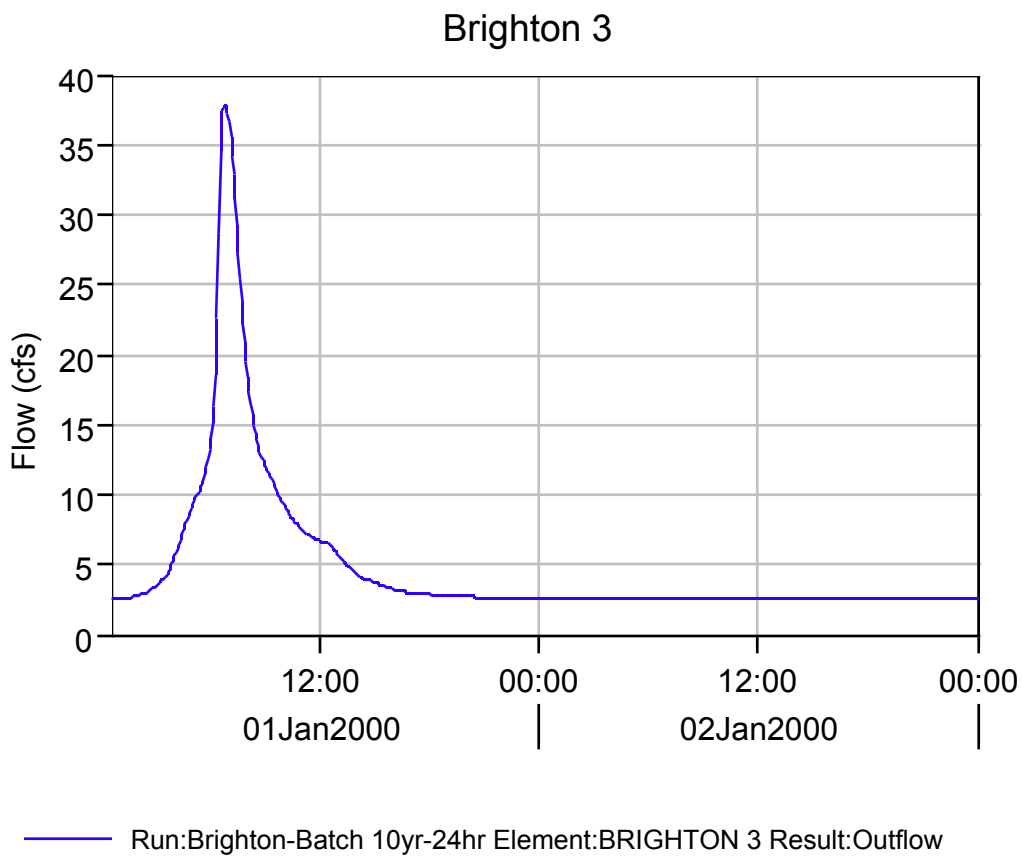


Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 3 Result:Precipitation

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 3-1 Result:Precipitation Loss

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 3 Result:Outflow

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 3 Result:Baseflow


Brighton 3
Flow (cfs)
40
35
30
25
20
15
10
5
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 3 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Brighton 4

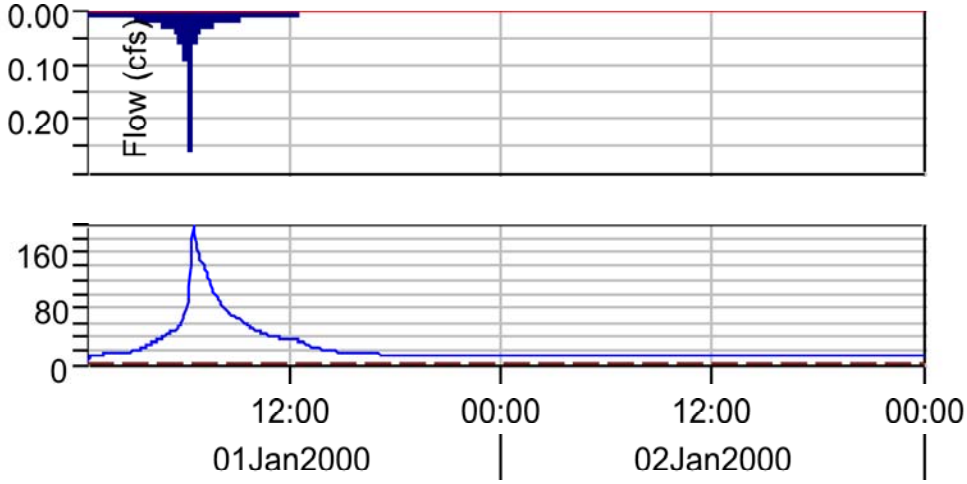
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	193.9 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:35
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	6.49 (IN)
Total Loss :	0.15 (IN)	Total Baseflow :	0.76 (IN)
Total Excess :	0.15 (IN)	Discharge :	7.25 (IN)

Subbasin "Brighton 4" Results for Run "Brighton-Batch 10yr-24hr"

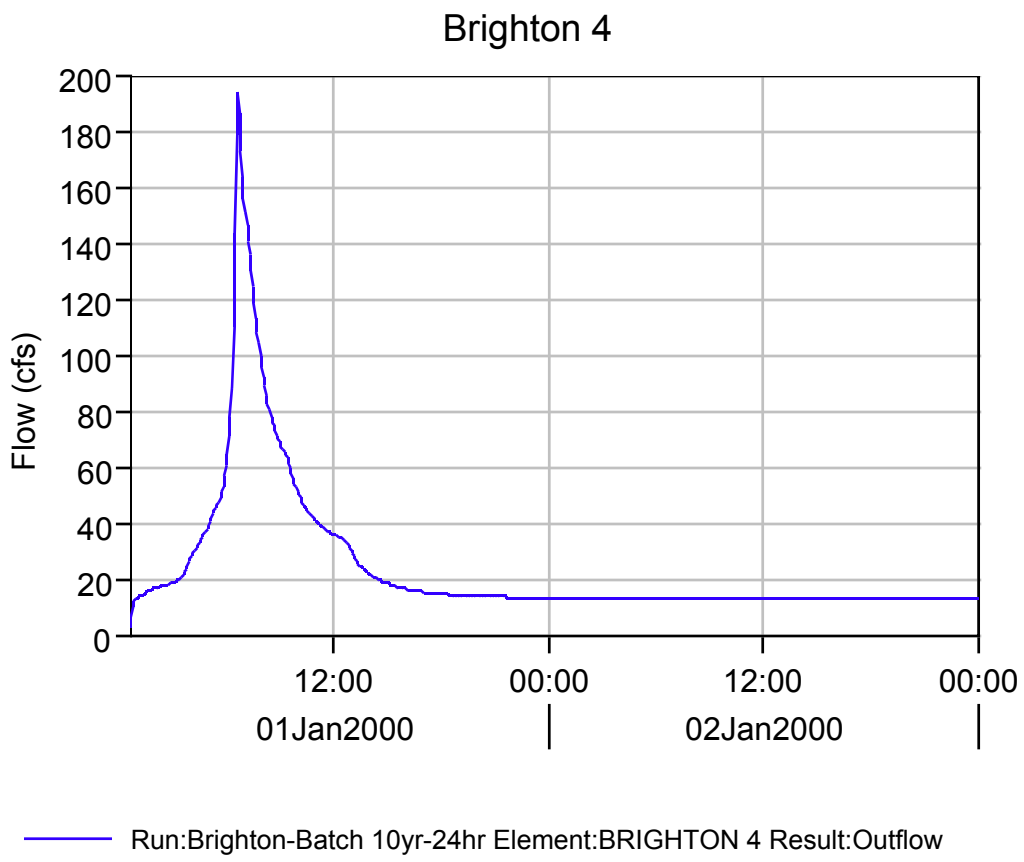


Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 4 Result:Precipitation

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 4 Result:Precipitation Loss

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 4 Result:Outflow

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 4 Result:Baseflow


Brighton 4
Flow (cfs)
200
180
160
140
120
100
80
60
40
20
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 4 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Subbasin: Brighton 5

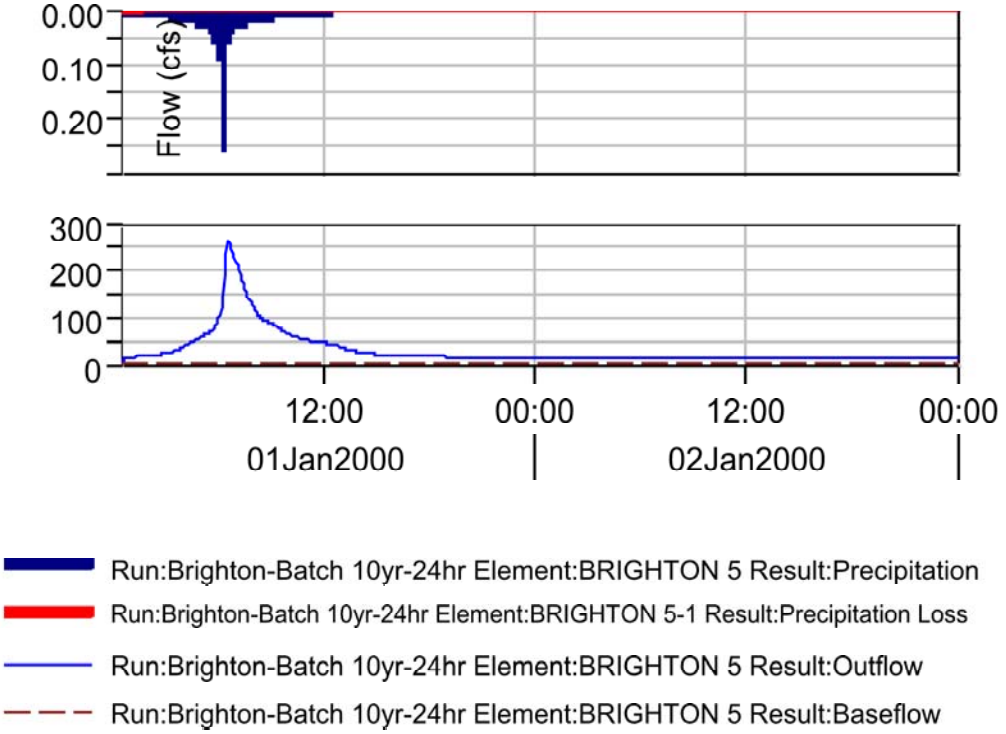
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

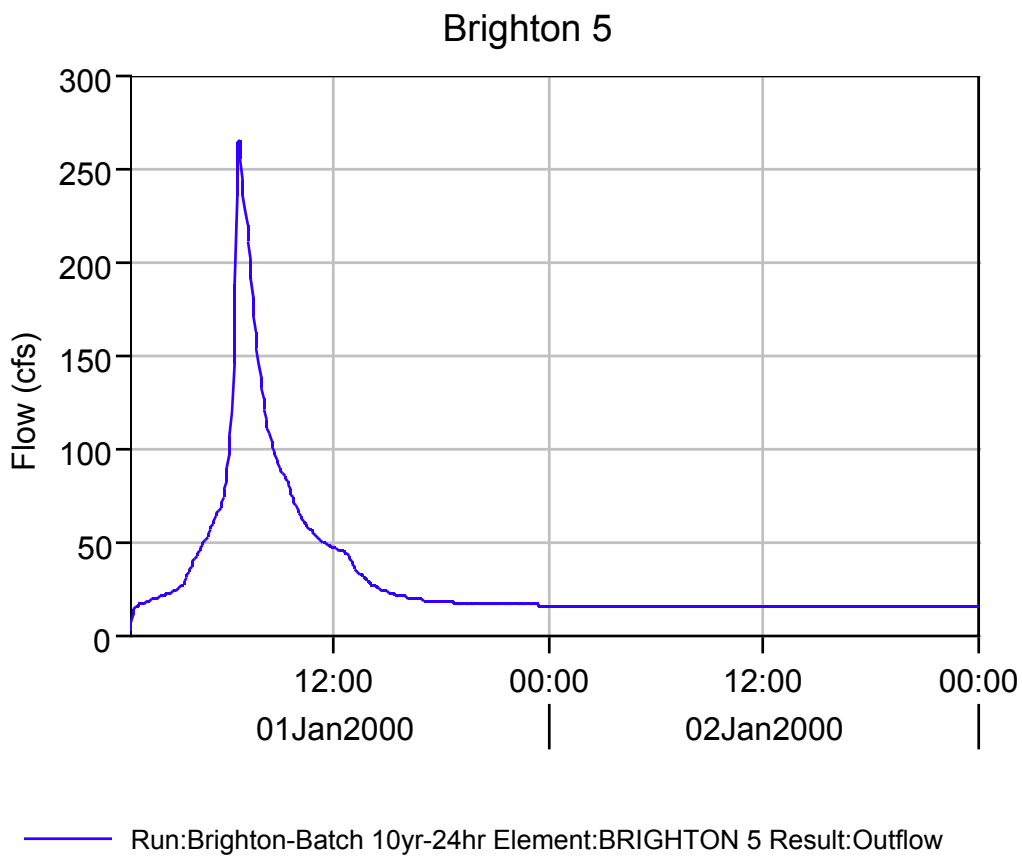
Volume Units: IN

Computed Results

Peak Discharge :	265.2 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:40
Total Precipitation :	4.01 (IN)	Total Direct Runoff :	6.17 (IN)
Total Loss :	0.44 (IN)	Total Baseflow :	0.55 (IN)
Total Excess :	3.57 (IN)	Discharge :	6.72 (IN)

Subbasin "Brighton 5" Results for Run "Brighton-Batch 10yr-24hr"




Brighton 5
Flow (cfs)
300
250
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON 5 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 10yr-24hr Reservoir: Brighton Detention Pond

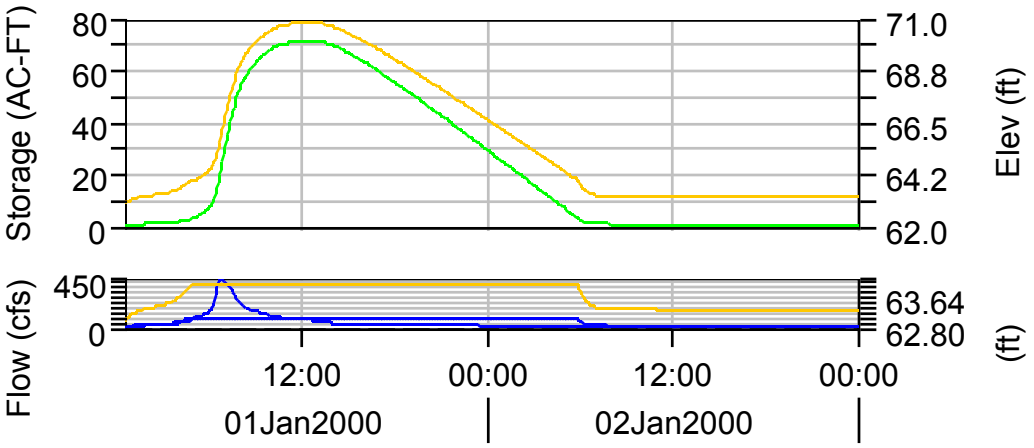
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 10yr-24hr
Compute Time:	02Mar2011, 23:11:30	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Inflow :	487.6 (CFS)	Date/Time of Peak Inflow :	01Jan2000, 06:40
Peak Outflow :	80.0 (CFS)	Date/Time of Peak Outflow :	01Jan2000, 04:50
Total Inflow :	6.30 (IN)	Peak Storage :	71.6 (AC-FT)
Total Outflow :	6.27 (IN)	Peak Elevation :	70.8 (FT)

Reservoir "Brighton Detention Pond" Results for Run "Brighton-Batch 10yr-24hr"



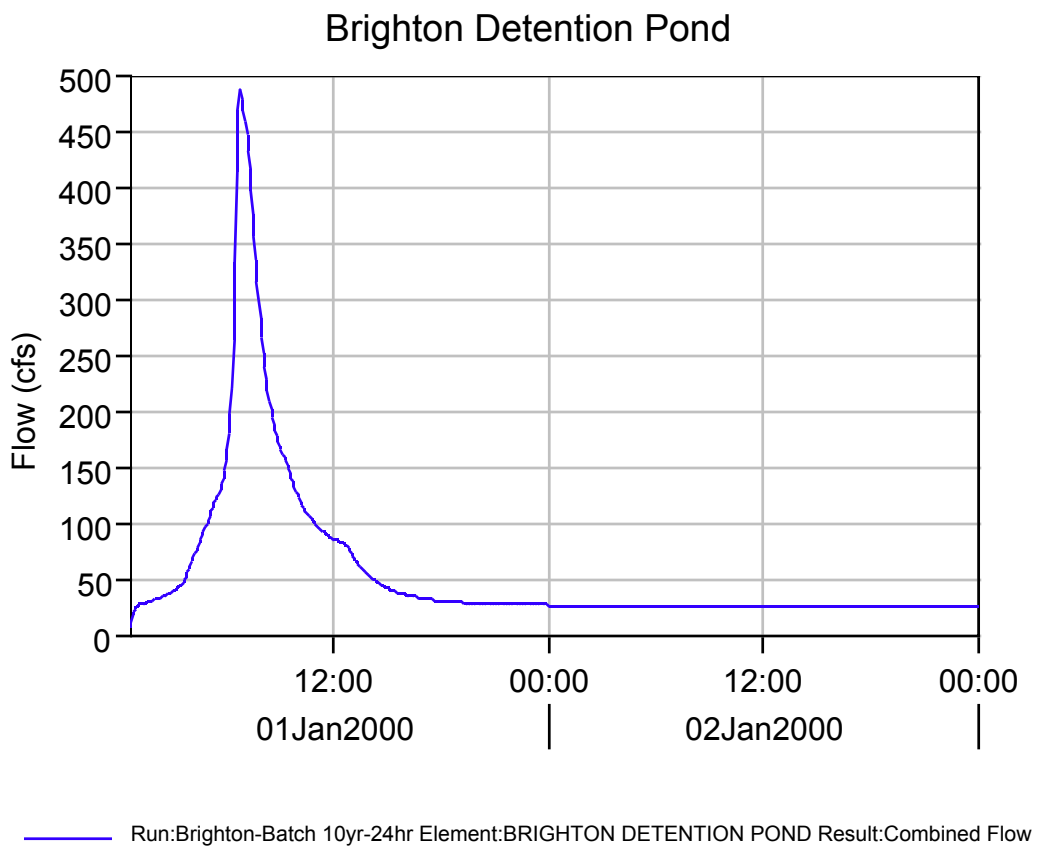
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Storage

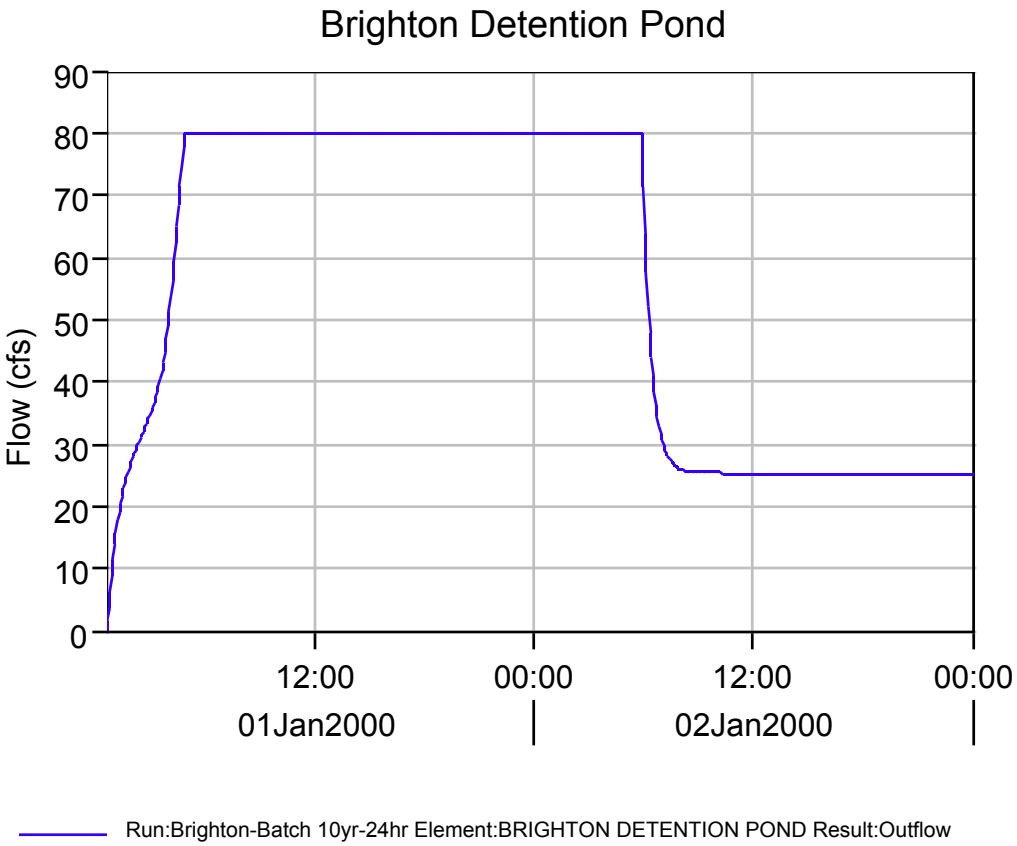
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Pool Elevation

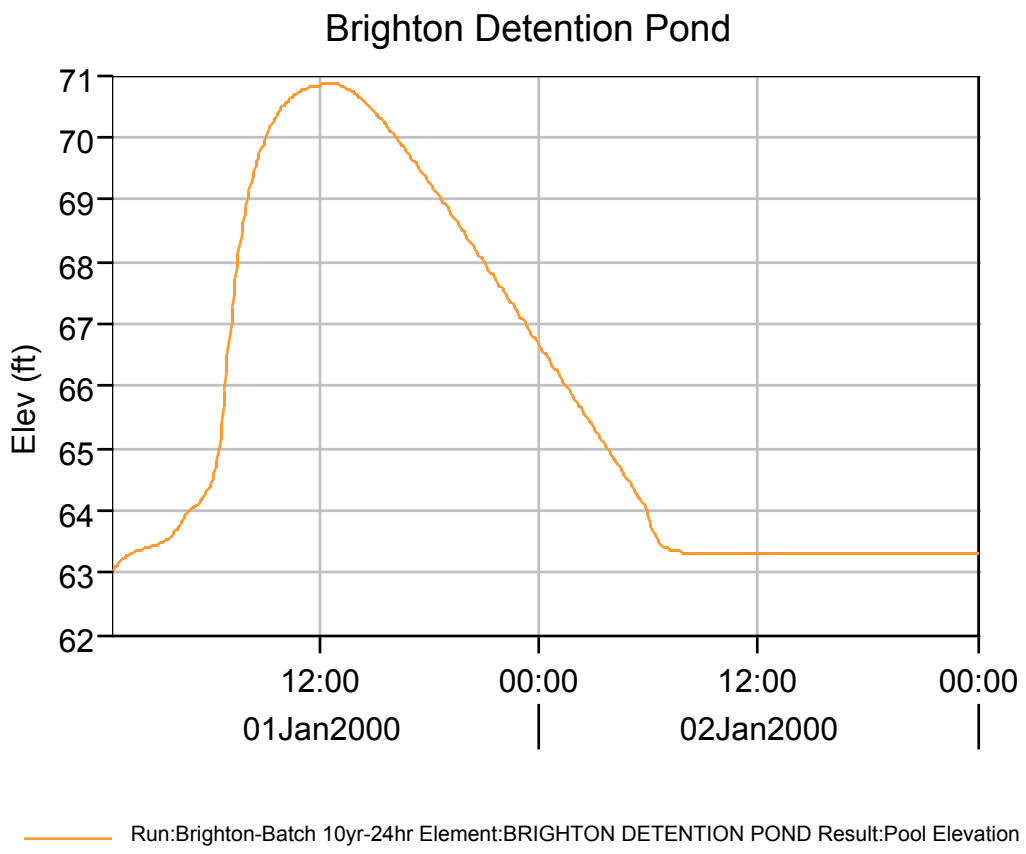
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Outflow

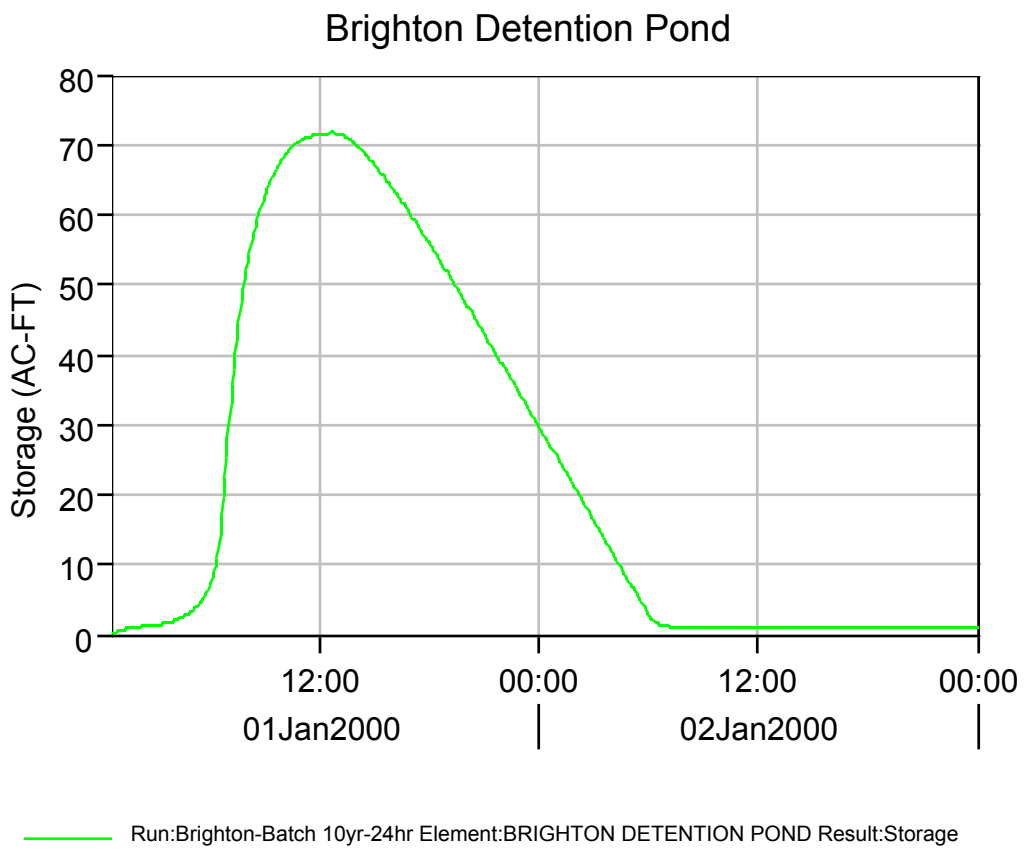
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Combined Flow

Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Stage


Brighton Detention Pond
Flow (cfs)
500
450
400
350
300
250
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Combined Flow


Brighton Detention Pond
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Outflow


Brighton Detention Pond
Elev (ft)
71
70
69
68
67
66
65
64
63
62
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Pool Elevation


Brighton Detention Pond
Storage (AC-FT)
80
70
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 10yr-24hr Element:BRIGHTON DETENTION POND Result:Storage

Project: 250120 Dev
Simulation Run: Brighton-Batch 10yr-24hr Reservoir: Brighton Detention Pond

Start of Run: 01Jan2000, 00:30 Basin Model: Brighton Dev
End of Run: 03Jan2000, 00:00 Meteorologic Model: Brighton 10yr-24hr
Compute Time: 02Mar2011, 23:11:30 Control Specifications: Control 1

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	00:30	5.0	0.0	63.0	0.0	63.0
01Jan2000	00:35	11.8	0.1	63.0	1.4	63.0
01Jan2000	00:40	17.4	0.2	63.0	3.6	63.0
01Jan2000	00:45	21.4	0.3	63.1	6.2	63.1
01Jan2000	00:50	23.7	0.4	63.1	8.9	63.1
01Jan2000	00:55	25.1	0.5	63.1	11.5	63.1
01Jan2000	01:00	25.8	0.6	63.2	13.8	63.2
01Jan2000	01:05	26.2	0.6	63.2	15.8	63.2
01Jan2000	01:10	26.7	0.7	63.2	17.6	63.2
01Jan2000	01:15	27.1	0.8	63.2	19.1	63.2
01Jan2000	01:20	27.6	0.8	63.3	20.5	63.3
01Jan2000	01:25	28.2	0.9	63.3	21.7	63.3
01Jan2000	01:30	28.8	0.9	63.3	22.8	63.3
01Jan2000	01:35	29.3	0.9	63.3	23.9	63.3
01Jan2000	01:40	29.8	1.0	63.3	24.8	63.3
01Jan2000	01:45	30.2	1.0	63.3	25.7	63.3
01Jan2000	01:50	30.6	1.0	63.3	26.5	63.3
01Jan2000	01:55	31.1	1.1	63.3	27.2	63.3
01Jan2000	02:00	31.5	1.1	63.3	27.9	63.3
01Jan2000	02:05	31.9	1.1	63.4	28.5	63.4
01Jan2000	02:10	32.4	1.1	63.4	29.1	63.4
01Jan2000	02:15	32.9	1.2	63.4	29.7	63.4
01Jan2000	02:20	33.5	1.2	63.4	30.3	63.4
01Jan2000	02:25	34.1	1.2	63.4	30.9	63.4
01Jan2000	02:30	34.8	1.2	63.4	31.5	63.4

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	02:35	35.3	1.3	63.4	32.1	63.4
01Jan2000	02:40	36.1	1.3	63.4	32.7	63.4
01Jan2000	02:45	36.8	1.3	63.4	33.3	63.4
01Jan2000	02:50	37.6	1.3	63.4	33.9	63.4
01Jan2000	02:55	38.3	1.4	63.4	34.6	63.4
01Jan2000	03:00	39.1	1.4	63.4	35.3	63.4
01Jan2000	03:05	39.9	1.4	63.4	36.0	63.4
01Jan2000	03:10	40.8	1.4	63.5	36.7	63.5
01Jan2000	03:15	41.8	1.5	63.5	37.5	63.5
01Jan2000	03:20	43.1	1.5	63.5	38.3	63.5
01Jan2000	03:25	44.7	1.5	63.5	39.2	63.5
01Jan2000	03:30	46.8	1.6	63.5	40.3	63.5
01Jan2000	03:35	49.2	1.6	63.5	41.6	63.5
01Jan2000	03:40	52.0	1.7	63.5	43.1	63.5
01Jan2000	03:45	55.1	1.7	63.6	44.8	63.6
01Jan2000	03:50	58.4	1.8	63.6	46.8	63.6
01Jan2000	03:55	61.6	1.9	63.6	49.0	63.6
01Jan2000	04:00	64.9	2.0	63.6	51.4	63.6
01Jan2000	04:05	68.2	2.1	63.7	53.9	63.7
01Jan2000	04:10	71.5	2.2	63.7	56.5	63.7
01Jan2000	04:15	74.9	2.3	63.7	59.3	63.7
01Jan2000	04:20	78.4	2.4	63.8	62.2	63.8
01Jan2000	04:25	81.9	2.5	63.8	65.1	63.8
01Jan2000	04:30	85.3	2.6	63.9	68.2	63.9
01Jan2000	04:35	88.8	2.8	63.9	71.3	63.9
01Jan2000	04:40	92.2	2.9	63.9	74.5	63.9
01Jan2000	04:45	95.5	3.0	64.0	77.7	64.0
01Jan2000	04:50	98.8	3.1	64.0	80.0	64.0
01Jan2000	04:55	102.3	3.3	64.0	80.0	64.0
01Jan2000	05:00	105.9	3.4	64.0	80.0	64.0
01Jan2000	05:05	109.6	3.6	64.1	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	05:10	113.2	3.8	64.1	80.0	64.0
01Jan2000	05:15	116.7	4.1	64.1	80.0	64.0
01Jan2000	05:20	119.9	4.3	64.1	80.0	64.0
01Jan2000	05:25	123.0	4.6	64.2	80.0	64.0
01Jan2000	05:30	126.1	4.9	64.2	80.0	64.0
01Jan2000	05:35	129.7	5.3	64.2	80.0	64.0
01Jan2000	05:40	134.2	5.6	64.3	80.0	64.0
01Jan2000	05:45	139.8	6.0	64.3	80.0	64.0
01Jan2000	05:50	146.9	6.4	64.3	80.0	64.0
01Jan2000	05:55	155.7	6.9	64.4	80.0	64.0
01Jan2000	06:00	166.3	7.5	64.4	80.0	64.0
01Jan2000	06:05	179.6	8.1	64.5	80.0	64.0
01Jan2000	06:10	196.3	8.9	64.6	80.0	64.0
01Jan2000	06:15	219.8	9.8	64.7	80.0	64.0
01Jan2000	06:20	262.8	10.9	64.8	80.0	64.0
01Jan2000	06:25	332.1	12.4	64.9	80.0	64.0
01Jan2000	06:30	413.0	14.4	65.1	80.0	64.0
01Jan2000	06:35	468.6	16.9	65.4	80.0	64.0
01Jan2000	06:40	487.6	19.6	65.7	80.0	64.0
01Jan2000	06:45	485.9	22.4	65.9	80.0	64.0
01Jan2000	06:50	477.5	25.2	66.2	80.0	64.0
01Jan2000	06:55	467.9	27.9	66.5	80.0	64.0
01Jan2000	07:00	457.8	30.5	66.7	80.0	64.0
01Jan2000	07:05	445.9	33.1	67.0	80.0	64.0
01Jan2000	07:10	431.5	35.6	67.2	80.0	64.0
01Jan2000	07:15	414.6	37.9	67.5	80.0	64.0
01Jan2000	07:20	395.9	40.2	67.7	80.0	64.0
01Jan2000	07:25	375.9	42.3	67.9	80.0	64.0
01Jan2000	07:30	355.4	44.2	68.1	80.0	64.0
01Jan2000	07:35	335.1	46.1	68.3	80.0	64.0
01Jan2000	07:40	315.8	47.7	68.5	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	07:45	297.9	49.3	68.6	80.0	64.0
01Jan2000	07:50	281.2	50.8	68.8	80.0	64.0
01Jan2000	07:55	265.7	52.1	68.9	80.0	64.0
01Jan2000	08:00	251.5	53.3	69.0	80.0	64.0
01Jan2000	08:05	238.7	54.5	69.1	80.0	64.0
01Jan2000	08:10	227.2	55.5	69.2	80.0	64.0
01Jan2000	08:15	217.0	56.5	69.3	80.0	64.0
01Jan2000	08:20	208.0	57.4	69.4	80.0	64.0
01Jan2000	08:25	200.1	58.3	69.5	80.0	64.0
01Jan2000	08:30	193.1	59.1	69.6	80.0	64.0
01Jan2000	08:35	186.9	59.8	69.7	80.0	64.0
01Jan2000	08:40	181.4	60.5	69.7	80.0	64.0
01Jan2000	08:45	176.5	61.2	69.8	80.0	64.0
01Jan2000	08:50	172.1	61.9	69.9	80.0	64.0
01Jan2000	08:55	168.1	62.5	69.9	80.0	64.0
01Jan2000	09:00	164.5	63.1	70.0	80.0	64.0
01Jan2000	09:05	161.3	63.6	70.0	80.0	64.0
01Jan2000	09:10	158.3	64.2	70.1	80.0	64.0
01Jan2000	09:15	155.4	64.7	70.2	80.0	64.0
01Jan2000	09:20	152.2	65.2	70.2	80.0	64.0
01Jan2000	09:25	148.5	65.7	70.3	80.0	64.0
01Jan2000	09:30	144.4	66.2	70.3	80.0	64.0
01Jan2000	09:35	140.1	66.6	70.3	80.0	64.0
01Jan2000	09:40	136.0	67.0	70.4	80.0	64.0
01Jan2000	09:45	132.0	67.4	70.4	80.0	64.0
01Jan2000	09:50	128.3	67.7	70.5	80.0	64.0
01Jan2000	09:55	124.9	68.0	70.5	80.0	64.0
01Jan2000	10:00	121.8	68.3	70.5	80.0	64.0
01Jan2000	10:05	118.9	68.6	70.5	80.0	64.0
01Jan2000	10:10	116.2	68.9	70.6	80.0	64.0
01Jan2000	10:15	113.8	69.1	70.6	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	10:20	111.4	69.3	70.6	80.0	64.0
01Jan2000	10:25	109.3	69.6	70.6	80.0	64.0
01Jan2000	10:30	107.2	69.7	70.7	80.0	64.0
01Jan2000	10:35	105.3	69.9	70.7	80.0	64.0
01Jan2000	10:40	103.5	70.1	70.7	80.0	64.0
01Jan2000	10:45	101.7	70.3	70.7	80.0	64.0
01Jan2000	10:50	100.1	70.4	70.7	80.0	64.0
01Jan2000	10:55	98.6	70.5	70.7	80.0	64.0
01Jan2000	11:00	97.1	70.7	70.7	80.0	64.0
01Jan2000	11:05	95.7	70.8	70.8	80.0	64.0
01Jan2000	11:10	94.4	70.9	70.8	80.0	64.0
01Jan2000	11:15	93.2	71.0	70.8	80.0	64.0
01Jan2000	11:20	92.0	71.1	70.8	80.0	64.0
01Jan2000	11:25	90.9	71.1	70.8	80.0	64.0
01Jan2000	11:30	89.9	71.2	70.8	80.0	64.0
01Jan2000	11:35	88.9	71.3	70.8	80.0	64.0
01Jan2000	11:40	88.0	71.3	70.8	80.0	64.0
01Jan2000	11:45	87.1	71.4	70.8	80.0	64.0
01Jan2000	11:50	86.3	71.4	70.8	80.0	64.0
01Jan2000	11:55	85.6	71.5	70.8	80.0	64.0
01Jan2000	12:00	84.9	71.5	70.8	80.0	64.0
01Jan2000	12:05	84.2	71.5	70.8	80.0	64.0
01Jan2000	12:10	83.6	71.6	70.8	80.0	64.0
01Jan2000	12:15	83.1	71.6	70.8	80.0	64.0
01Jan2000	12:20	82.6	71.6	70.8	80.0	64.0
01Jan2000	12:25	82.1	71.6	70.8	80.0	64.0
01Jan2000	12:30	81.5	71.6	70.8	80.0	64.0
01Jan2000	12:35	80.6	71.6	70.8	80.0	64.0
01Jan2000	12:40	79.3	71.6	70.8	80.0	64.0
01Jan2000	12:45	77.4	71.6	70.8	80.0	64.0
01Jan2000	12:50	75.3	71.6	70.8	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	12:55	73.0	71.6	70.8	80.0	64.0
01Jan2000	13:00	70.6	71.5	70.8	80.0	64.0
01Jan2000	13:05	68.4	71.4	70.8	80.0	64.0
01Jan2000	13:10	66.3	71.3	70.8	80.0	64.0
01Jan2000	13:15	64.3	71.2	70.8	80.0	64.0
01Jan2000	13:20	62.5	71.1	70.8	80.0	64.0
01Jan2000	13:25	60.8	71.0	70.8	80.0	64.0
01Jan2000	13:30	59.2	70.9	70.8	80.0	64.0
01Jan2000	13:35	57.7	70.7	70.8	80.0	64.0
01Jan2000	13:40	56.3	70.6	70.7	80.0	64.0
01Jan2000	13:45	55.0	70.4	70.7	80.0	64.0
01Jan2000	13:50	53.8	70.2	70.7	80.0	64.0
01Jan2000	13:55	52.6	70.0	70.7	80.0	64.0
01Jan2000	14:00	51.4	69.8	70.7	80.0	64.0
01Jan2000	14:05	50.4	69.6	70.6	80.0	64.0
01Jan2000	14:10	49.3	69.4	70.6	80.0	64.0
01Jan2000	14:15	48.3	69.2	70.6	80.0	64.0
01Jan2000	14:20	47.3	69.0	70.6	80.0	64.0
01Jan2000	14:25	46.4	68.8	70.6	80.0	64.0
01Jan2000	14:30	45.5	68.5	70.5	80.0	64.0
01Jan2000	14:35	44.7	68.3	70.5	80.0	64.0
01Jan2000	14:40	43.9	68.0	70.5	80.0	64.0
01Jan2000	14:45	43.1	67.8	70.5	80.0	64.0
01Jan2000	14:50	42.4	67.5	70.4	80.0	64.0
01Jan2000	14:55	41.7	67.3	70.4	80.0	64.0
01Jan2000	15:00	41.1	67.0	70.4	80.0	64.0
01Jan2000	15:05	40.4	66.7	70.4	80.0	64.0
01Jan2000	15:10	39.8	66.5	70.3	80.0	64.0
01Jan2000	15:15	39.2	66.2	70.3	80.0	64.0
01Jan2000	15:20	38.7	65.9	70.3	80.0	64.0
01Jan2000	15:25	38.2	65.6	70.2	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	15:30	37.8	65.3	70.2	80.0	64.0
01Jan2000	15:35	37.4	65.0	70.2	80.0	64.0
01Jan2000	15:40	37.0	64.7	70.2	80.0	64.0
01Jan2000	15:45	36.5	64.4	70.1	80.0	64.0
01Jan2000	15:50	36.2	64.1	70.1	80.0	64.0
01Jan2000	15:55	35.9	63.8	70.1	80.0	64.0
01Jan2000	16:00	35.6	63.5	70.0	80.0	64.0
01Jan2000	16:05	35.3	63.2	70.0	80.0	64.0
01Jan2000	16:10	35.0	62.9	70.0	80.0	64.0
01Jan2000	16:15	34.7	62.6	69.9	80.0	64.0
01Jan2000	16:20	34.3	62.3	69.9	80.0	64.0
01Jan2000	16:25	34.0	62.0	69.9	80.0	64.0
01Jan2000	16:30	33.7	61.7	69.8	80.0	64.0
01Jan2000	16:35	33.5	61.3	69.8	80.0	64.0
01Jan2000	16:40	33.2	61.0	69.8	80.0	64.0
01Jan2000	16:45	32.9	60.7	69.8	80.0	64.0
01Jan2000	16:50	32.7	60.4	69.7	80.0	64.0
01Jan2000	16:55	32.4	60.0	69.7	80.0	64.0
01Jan2000	17:00	32.2	59.7	69.7	80.0	64.0
01Jan2000	17:05	31.9	59.4	69.6	80.0	64.0
01Jan2000	17:10	31.7	59.1	69.6	80.0	64.0
01Jan2000	17:15	31.5	58.7	69.6	80.0	64.0
01Jan2000	17:20	31.4	58.4	69.5	80.0	64.0
01Jan2000	17:25	31.2	58.0	69.5	80.0	64.0
01Jan2000	17:30	31.0	57.7	69.5	80.0	64.0
01Jan2000	17:35	30.8	57.4	69.4	80.0	64.0
01Jan2000	17:40	30.7	57.0	69.4	80.0	64.0
01Jan2000	17:45	30.5	56.7	69.4	80.0	64.0
01Jan2000	17:50	30.3	56.4	69.3	80.0	64.0
01Jan2000	17:55	30.2	56.0	69.3	80.0	64.0
01Jan2000	18:00	30.0	55.7	69.3	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	18:05	29.9	55.3	69.2	80.0	64.0
01Jan2000	18:10	29.7	55.0	69.2	80.0	64.0
01Jan2000	18:15	29.6	54.6	69.1	80.0	64.0
01Jan2000	18:20	29.5	54.3	69.1	80.0	64.0
01Jan2000	18:25	29.4	53.9	69.1	80.0	64.0
01Jan2000	18:30	29.3	53.6	69.0	80.0	64.0
01Jan2000	18:35	29.2	53.2	69.0	80.0	64.0
01Jan2000	18:40	29.1	52.9	69.0	80.0	64.0
01Jan2000	18:45	29.0	52.5	68.9	80.0	64.0
01Jan2000	18:50	29.0	52.2	68.9	80.0	64.0
01Jan2000	18:55	28.9	51.8	68.9	80.0	64.0
01Jan2000	19:00	28.8	51.5	68.8	80.0	64.0
01Jan2000	19:05	28.7	51.1	68.8	80.0	64.0
01Jan2000	19:10	28.6	50.8	68.8	80.0	64.0
01Jan2000	19:15	28.5	50.4	68.7	80.0	64.0
01Jan2000	19:20	28.4	50.1	68.7	80.0	64.0
01Jan2000	19:25	28.3	49.7	68.7	80.0	64.0
01Jan2000	19:30	28.3	49.4	68.6	80.0	64.0
01Jan2000	19:35	28.2	49.0	68.6	80.0	64.0
01Jan2000	19:40	28.1	48.6	68.5	80.0	64.0
01Jan2000	19:45	28.0	48.3	68.5	80.0	64.0
01Jan2000	19:50	28.0	47.9	68.5	80.0	64.0
01Jan2000	19:55	27.9	47.6	68.4	80.0	64.0
01Jan2000	20:00	27.8	47.2	68.4	80.0	64.0
01Jan2000	20:05	27.8	46.8	68.4	80.0	64.0
01Jan2000	20:10	27.7	46.5	68.3	80.0	64.0
01Jan2000	20:15	27.6	46.1	68.3	80.0	64.0
01Jan2000	20:20	27.6	45.8	68.3	80.0	64.0
01Jan2000	20:25	27.5	45.4	68.2	80.0	64.0
01Jan2000	20:30	27.5	45.0	68.2	80.0	64.0
01Jan2000	20:35	27.5	44.7	68.2	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	20:40	27.4	44.3	68.1	80.0	64.0
01Jan2000	20:45	27.4	44.0	68.1	80.0	64.0
01Jan2000	20:50	27.3	43.6	68.0	80.0	64.0
01Jan2000	20:55	27.3	43.2	68.0	80.0	64.0
01Jan2000	21:00	27.2	42.9	68.0	80.0	64.0
01Jan2000	21:05	27.2	42.5	67.9	80.0	64.0
01Jan2000	21:10	27.1	42.1	67.9	80.0	64.0
01Jan2000	21:15	27.1	41.8	67.9	80.0	64.0
01Jan2000	21:20	27.1	41.4	67.8	80.0	64.0
01Jan2000	21:25	27.0	41.0	67.8	80.0	64.0
01Jan2000	21:30	27.0	40.7	67.8	80.0	64.0
01Jan2000	21:35	27.0	40.3	67.7	80.0	64.0
01Jan2000	21:40	26.9	39.9	67.7	80.0	64.0
01Jan2000	21:45	26.9	39.6	67.6	80.0	64.0
01Jan2000	21:50	26.9	39.2	67.6	80.0	64.0
01Jan2000	21:55	26.8	38.9	67.6	80.0	64.0
01Jan2000	22:00	26.8	38.5	67.5	80.0	64.0
01Jan2000	22:05	26.8	38.1	67.5	80.0	64.0
01Jan2000	22:10	26.7	37.8	67.5	80.0	64.0
01Jan2000	22:15	26.7	37.4	67.4	80.0	64.0
01Jan2000	22:20	26.7	37.0	67.4	80.0	64.0
01Jan2000	22:25	26.6	36.7	67.4	80.0	64.0
01Jan2000	22:30	26.6	36.3	67.3	80.0	64.0
01Jan2000	22:35	26.6	35.9	67.3	80.0	64.0
01Jan2000	22:40	26.5	35.5	67.2	80.0	64.0
01Jan2000	22:45	26.5	35.2	67.2	80.0	64.0
01Jan2000	22:50	26.5	34.8	67.2	80.0	64.0
01Jan2000	22:55	26.5	34.4	67.1	80.0	64.0
01Jan2000	23:00	26.4	34.1	67.1	80.0	64.0
01Jan2000	23:05	26.4	33.7	67.1	80.0	64.0
01Jan2000	23:10	26.4	33.3	67.0	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
01Jan2000	23:15	26.4	33.0	67.0	80.0	64.0
01Jan2000	23:20	26.3	32.6	66.9	80.0	64.0
01Jan2000	23:25	26.3	32.2	66.9	80.0	64.0
01Jan2000	23:30	26.3	31.9	66.9	80.0	64.0
01Jan2000	23:35	26.3	31.5	66.8	80.0	64.0
01Jan2000	23:40	26.3	31.1	66.8	80.0	64.0
01Jan2000	23:45	26.2	30.7	66.8	80.0	64.0
01Jan2000	23:50	26.2	30.4	66.7	80.0	64.0
01Jan2000	23:55	26.2	30.0	66.7	80.0	64.0
02Jan2000	00:00	26.2	29.6	66.7	80.0	64.0
02Jan2000	00:05	26.2	29.3	66.6	80.0	64.0
02Jan2000	00:10	26.1	28.9	66.6	80.0	64.0
02Jan2000	00:15	26.1	28.5	66.5	80.0	64.0
02Jan2000	00:20	26.1	28.2	66.5	80.0	64.0
02Jan2000	00:25	26.1	27.8	66.5	80.0	64.0
02Jan2000	00:30	26.1	27.4	66.4	80.0	64.0
02Jan2000	00:35	26.1	27.0	66.4	80.0	64.0
02Jan2000	00:40	26.0	26.7	66.4	80.0	64.0
02Jan2000	00:45	26.0	26.3	66.3	80.0	64.0
02Jan2000	00:50	26.0	25.9	66.3	80.0	64.0
02Jan2000	00:55	26.0	25.5	66.2	80.0	64.0
02Jan2000	01:00	26.0	25.2	66.2	80.0	64.0
02Jan2000	01:05	26.0	24.8	66.2	80.0	64.0
02Jan2000	01:10	25.9	24.4	66.1	80.0	64.0
02Jan2000	01:15	25.9	24.1	66.1	80.0	64.0
02Jan2000	01:20	25.9	23.7	66.1	80.0	64.0
02Jan2000	01:25	25.9	23.3	66.0	80.0	64.0
02Jan2000	01:30	25.9	22.9	66.0	80.0	64.0
02Jan2000	01:35	25.9	22.6	65.9	80.0	64.0
02Jan2000	01:40	25.9	22.2	65.9	80.0	64.0
02Jan2000	01:45	25.9	21.8	65.9	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	01:50	25.8	21.5	65.8	80.0	64.0
02Jan2000	01:55	25.8	21.1	65.8	80.0	64.0
02Jan2000	02:00	25.8	20.7	65.8	80.0	64.0
02Jan2000	02:05	25.8	20.3	65.7	80.0	64.0
02Jan2000	02:10	25.8	20.0	65.7	80.0	64.0
02Jan2000	02:15	25.8	19.6	65.6	80.0	64.0
02Jan2000	02:20	25.8	19.2	65.6	80.0	64.0
02Jan2000	02:25	25.8	18.8	65.6	80.0	64.0
02Jan2000	02:30	25.8	18.5	65.5	80.0	64.0
02Jan2000	02:35	25.7	18.1	65.5	80.0	64.0
02Jan2000	02:40	25.7	17.7	65.5	80.0	64.0
02Jan2000	02:45	25.7	17.3	65.4	80.0	64.0
02Jan2000	02:50	25.7	17.0	65.4	80.0	64.0
02Jan2000	02:55	25.7	16.6	65.3	80.0	64.0
02Jan2000	03:00	25.7	16.2	65.3	80.0	64.0
02Jan2000	03:05	25.7	15.8	65.3	80.0	64.0
02Jan2000	03:10	25.7	15.5	65.2	80.0	64.0
02Jan2000	03:15	25.7	15.1	65.2	80.0	64.0
02Jan2000	03:20	25.7	14.7	65.2	80.0	64.0
02Jan2000	03:25	25.7	14.4	65.1	80.0	64.0
02Jan2000	03:30	25.6	14.0	65.1	80.0	64.0
02Jan2000	03:35	25.6	13.6	65.1	80.0	64.0
02Jan2000	03:40	25.6	13.2	65.0	80.0	64.0
02Jan2000	03:45	25.6	12.9	65.0	80.0	64.0
02Jan2000	03:50	25.6	12.5	64.9	80.0	64.0
02Jan2000	03:55	25.6	12.1	64.9	80.0	64.0
02Jan2000	04:00	25.6	11.7	64.9	80.0	64.0
02Jan2000	04:05	25.6	11.4	64.8	80.0	64.0
02Jan2000	04:10	25.6	11.0	64.8	80.0	64.0
02Jan2000	04:15	25.6	10.6	64.8	80.0	64.0
02Jan2000	04:20	25.6	10.2	64.7	80.0	64.0

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	04:25	25.6	9.9	64.7	80.0	64.0
02Jan2000	04:30	25.6	9.5	64.6	80.0	64.0
02Jan2000	04:35	25.5	9.1	64.6	80.0	64.0
02Jan2000	04:40	25.5	8.7	64.6	80.0	64.0
02Jan2000	04:45	25.5	8.4	64.5	80.0	64.0
02Jan2000	04:50	25.5	8.0	64.5	80.0	64.0
02Jan2000	04:55	25.5	7.6	64.5	80.0	64.0
02Jan2000	05:00	25.5	7.2	64.4	80.0	64.0
02Jan2000	05:05	25.5	6.9	64.4	80.0	64.0
02Jan2000	05:10	25.5	6.5	64.3	80.0	64.0
02Jan2000	05:15	25.5	6.1	64.3	80.0	64.0
02Jan2000	05:20	25.5	5.7	64.3	80.0	64.0
02Jan2000	05:25	25.5	5.4	64.2	80.0	64.0
02Jan2000	05:30	25.5	5.0	64.2	80.0	64.0
02Jan2000	05:35	25.5	4.6	64.2	80.0	64.0
02Jan2000	05:40	25.5	4.2	64.1	80.0	64.0
02Jan2000	05:45	25.5	3.9	64.1	80.0	64.0
02Jan2000	05:50	25.5	3.5	64.0	80.0	64.0
02Jan2000	05:55	25.5	3.1	64.0	80.0	64.0
02Jan2000	06:00	25.4	2.8	63.9	71.4	63.9
02Jan2000	06:05	25.4	2.5	63.8	63.8	63.8
02Jan2000	06:10	25.4	2.2	63.7	57.5	63.7
02Jan2000	06:15	25.4	2.0	63.7	52.1	63.7
02Jan2000	06:20	25.4	1.9	63.6	47.7	63.6
02Jan2000	06:25	25.4	1.7	63.6	44.0	63.6
02Jan2000	06:30	25.4	1.6	63.5	40.9	63.5
02Jan2000	06:35	25.4	1.5	63.5	38.4	63.5
02Jan2000	06:40	25.4	1.4	63.5	36.2	63.5
02Jan2000	06:45	25.4	1.3	63.4	34.4	63.4
02Jan2000	06:50	25.4	1.3	63.4	32.9	63.4
02Jan2000	06:55	25.4	1.2	63.4	31.7	63.4

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	07:00	25.4	1.2	63.4	30.6	63.4
02Jan2000	07:05	25.4	1.2	63.4	29.8	63.4
02Jan2000	07:10	25.4	1.1	63.4	29.0	63.4
02Jan2000	07:15	25.4	1.1	63.4	28.4	63.4
02Jan2000	07:20	25.4	1.1	63.3	27.9	63.3
02Jan2000	07:25	25.4	1.1	63.3	27.5	63.3
02Jan2000	07:30	25.4	1.1	63.3	27.2	63.3
02Jan2000	07:35	25.4	1.1	63.3	26.9	63.3
02Jan2000	07:40	25.4	1.0	63.3	26.6	63.3
02Jan2000	07:45	25.4	1.0	63.3	26.4	63.3
02Jan2000	07:50	25.4	1.0	63.3	26.2	63.3
02Jan2000	07:55	25.4	1.0	63.3	26.1	63.3
02Jan2000	08:00	25.3	1.0	63.3	26.0	63.3
02Jan2000	08:05	25.3	1.0	63.3	25.9	63.3
02Jan2000	08:10	25.3	1.0	63.3	25.8	63.3
02Jan2000	08:15	25.3	1.0	63.3	25.7	63.3
02Jan2000	08:20	25.3	1.0	63.3	25.6	63.3
02Jan2000	08:25	25.3	1.0	63.3	25.6	63.3
02Jan2000	08:30	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:35	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:40	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:45	25.3	1.0	63.3	25.5	63.3
02Jan2000	08:50	25.3	1.0	63.3	25.4	63.3
02Jan2000	08:55	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:00	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:05	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:10	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:15	25.3	1.0	63.3	25.4	63.3
02Jan2000	09:20	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:25	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:30	25.3	1.0	63.3	25.3	63.3

Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	09:35	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:40	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:45	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:50	25.3	1.0	63.3	25.3	63.3
02Jan2000	09:55	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:00	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:05	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:10	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:15	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:20	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:25	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:30	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:35	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:40	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:45	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:50	25.3	1.0	63.3	25.3	63.3
02Jan2000	10:55	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:00	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:05	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:10	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:15	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:20	25.2	1.0	63.3	25.3	63.3
02Jan2000	11:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	11:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:05	25.2	1.0	63.3	25.2	63.3

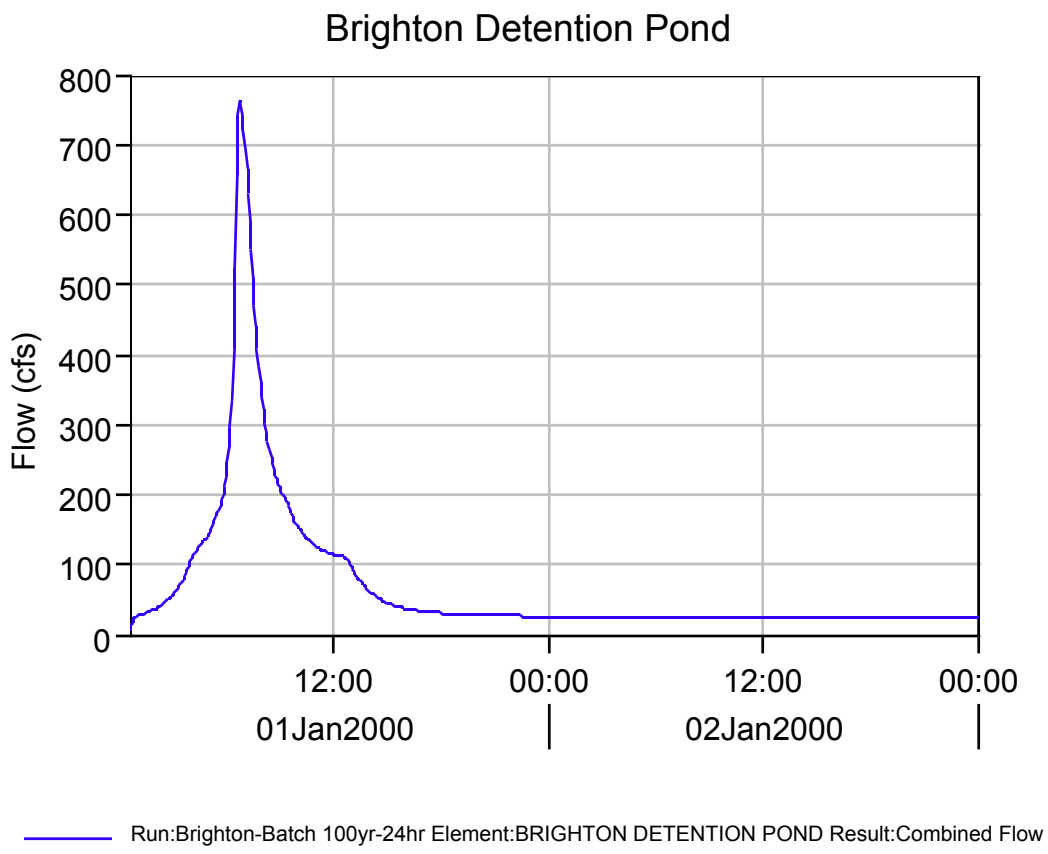
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	12:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	12:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	13:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:40	25.2	1.0	63.3	25.2	63.3

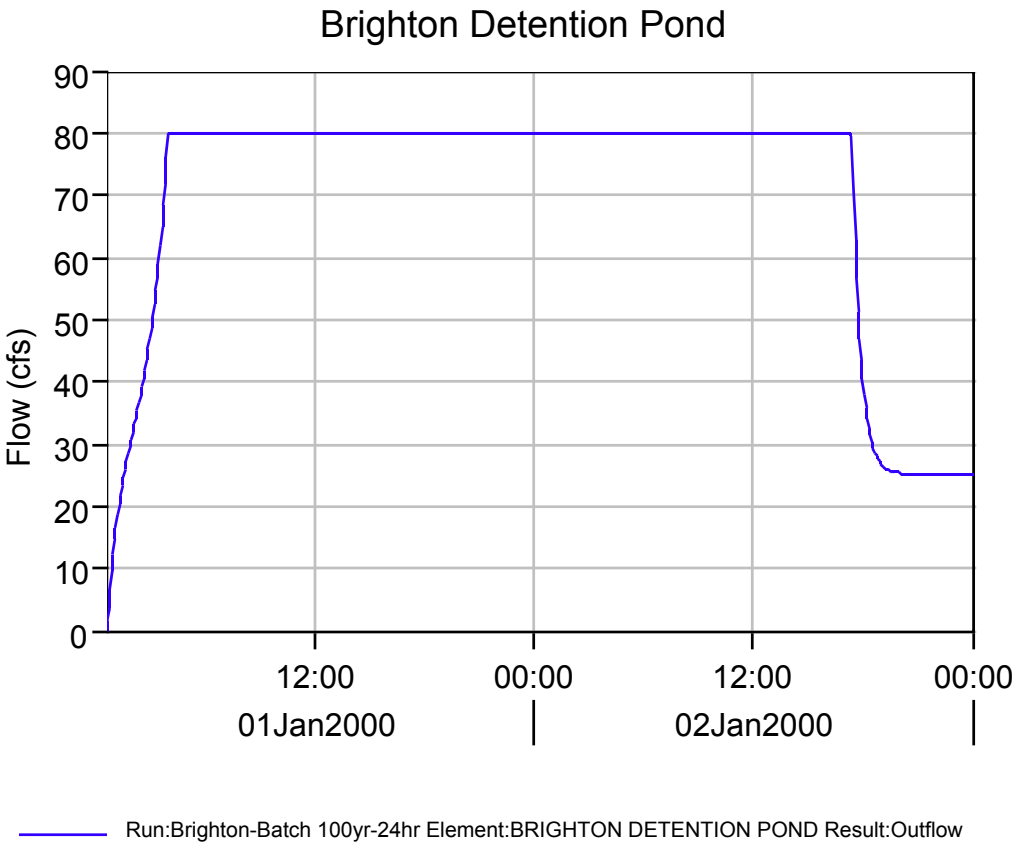
Date	Time	Inflow (CFS)	Storage (AC-FT)	Elevation (FT)	Outflow (CFS)	Stage (FT)
02Jan2000	14:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	14:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:15	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:20	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:25	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:30	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:35	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:40	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:45	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:50	25.2	1.0	63.3	25.2	63.3
02Jan2000	15:55	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:00	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:05	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:10	25.2	1.0	63.3	25.2	63.3
02Jan2000	16:15	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:20	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:25	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:30	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:35	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:40	25.1	1.0	63.3	25.2	63.3
02Jan2000	16:45	25.1	1.0	63.3	25.1	63.3
02Jan2000	16:50	25.1	1.0	63.3	25.1	63.3
02Jan2000	16:55	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:00	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:05	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:10	25.1	1.0	63.3	25.1	63.3
02Jan2000	17:15	25.1	1.0	63.3	25.1	63.3

Project: 250120 Dev Simulation Run: Brighton-Batch 100yr-24hr

Start of Run: 01Jan2000, 00:30 Basin Model: Brighton Dev
End of Run: 03Jan2000, 00:00 Meteorologic Model: Brighton 100yr-24hr
Compute Time: 02Mar2011, 23:11:21 Control Specifications: Control 1

Hydrologic Element	Drainage Area (MI2)	Peak Discharge (CFS)	Time of Peak	Volume (IN)
Ex Residence	0.0102	15.9	01Jan2000, 06:40	22.72
Brighton 1	0.0882	119.9	01Jan2000, 06:30	9.05
Brighton 2	0.1657	203.3	01Jan2000, 06:35	8.29
Brighton 3	0.0480	59.2	01Jan2000, 06:40	8.99
Brighton 4	0.2410	294.7	01Jan2000, 06:35	8.86
Brighton 5	0.3371	408.4	01Jan2000, 06:35	8.34
Batch 1	0.1160	139.8	01Jan2000, 06:45	6.81
Batch 2	0.1616	195.3	01Jan2000, 06:45	7.38
Batch 3	0.1866	215.0	01Jan2000, 06:50	8.03
Batch 4	0.3156	368.3	01Jan2000, 06:50	7.42
Detention Pond	0.6527	80.0	01Jan2000, 03:55	7.87


Brighton Detention Pond
Flow (cfs)
800
700
600
500
400
300
200
100
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Combined Flow


Brighton Detention Pond
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Batch 1

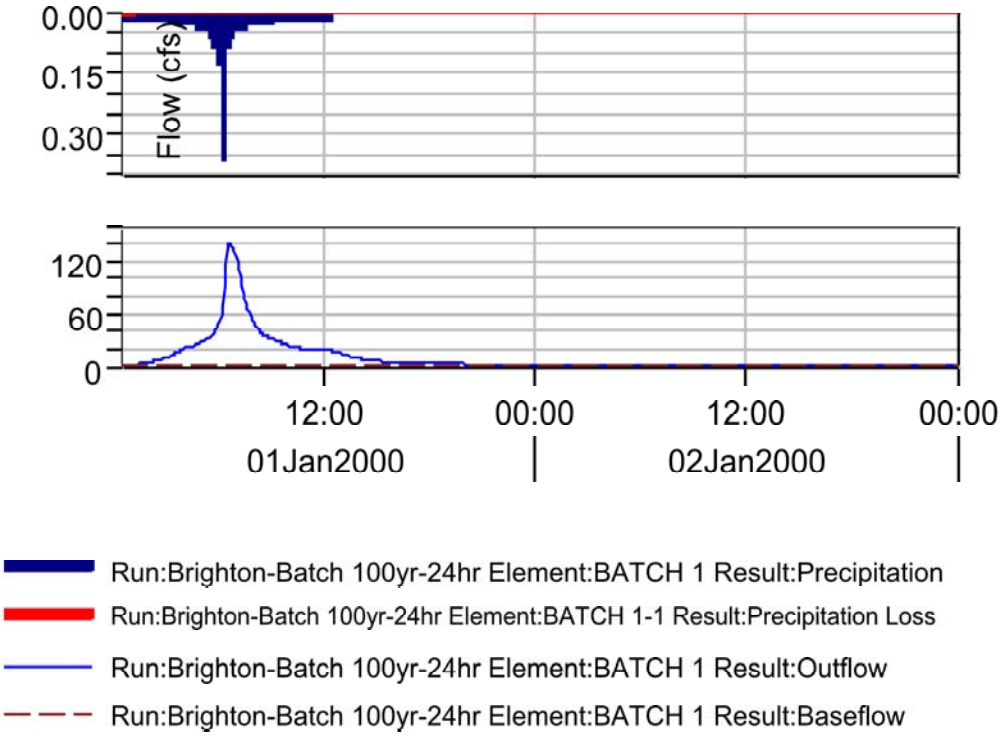
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

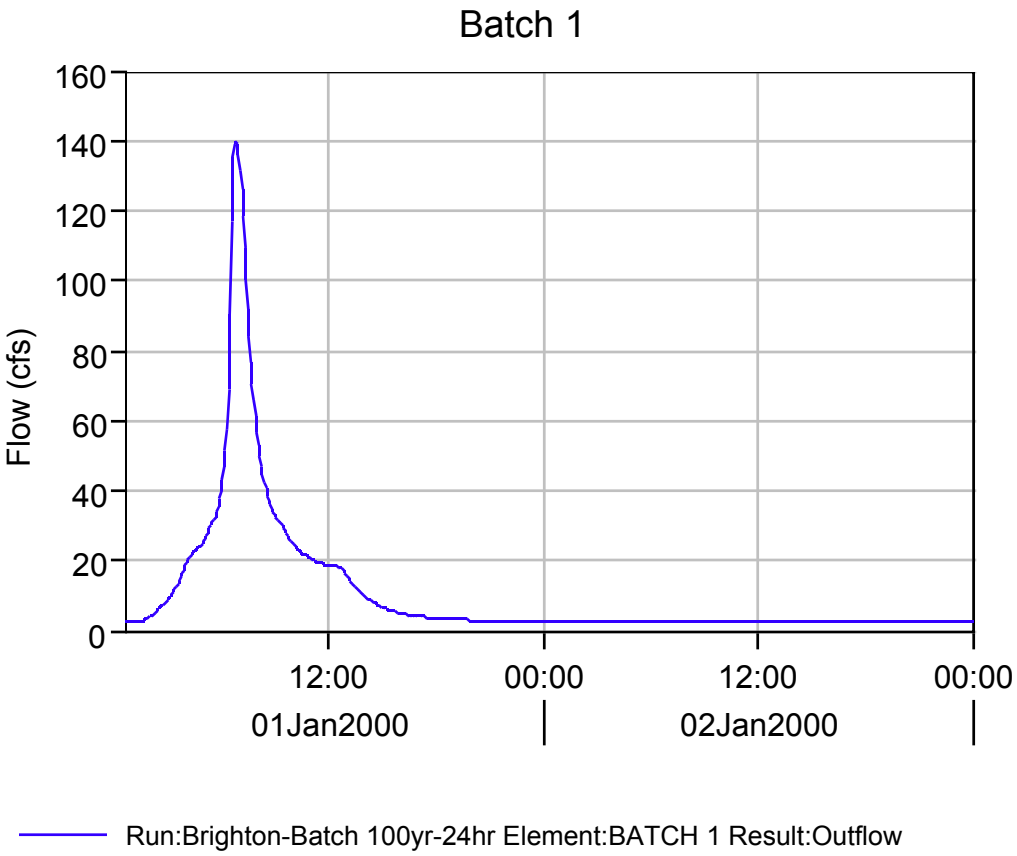
Volume Units: IN

Computed Results

Peak Discharge :	139.8 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:45
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	5.22 (IN)
Total Loss :	0.46 (IN)	Total Baseflow :	1.59 (IN)
Total Excess :	5.23 (IN)	Discharge :	6.81 (IN)

Subbasin "Batch 1" Results for Run "Brighton-Batch 100yr-24hr"




Batch 1
Flow (cfs)
160
140
120
100
80
60
40
20
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BATCH 1 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Batch 2

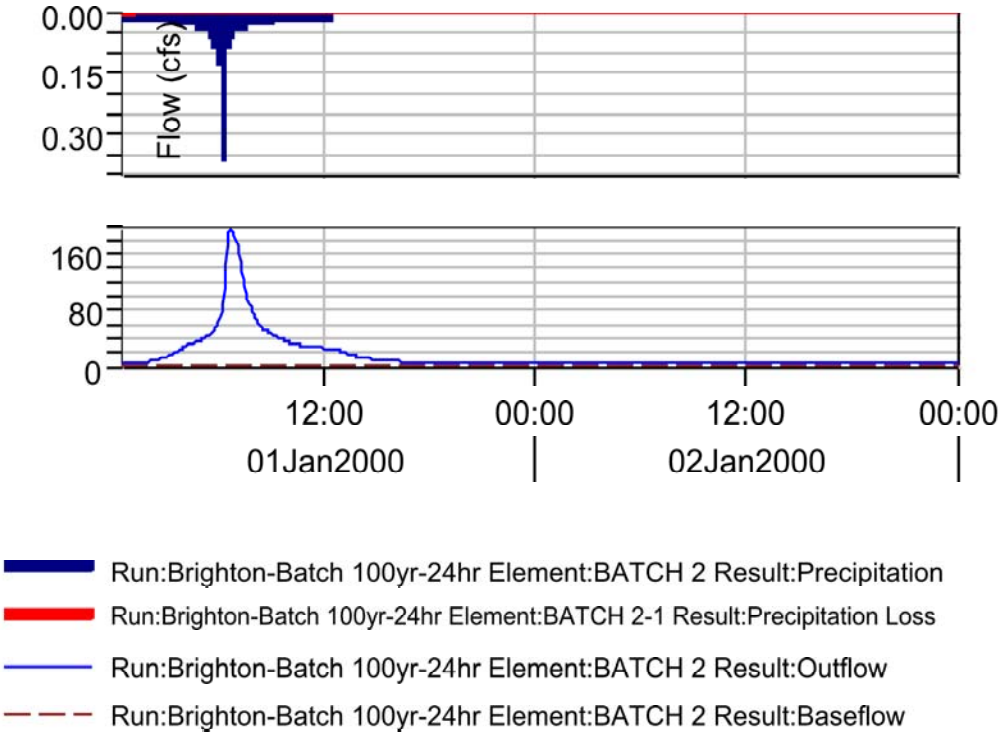
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

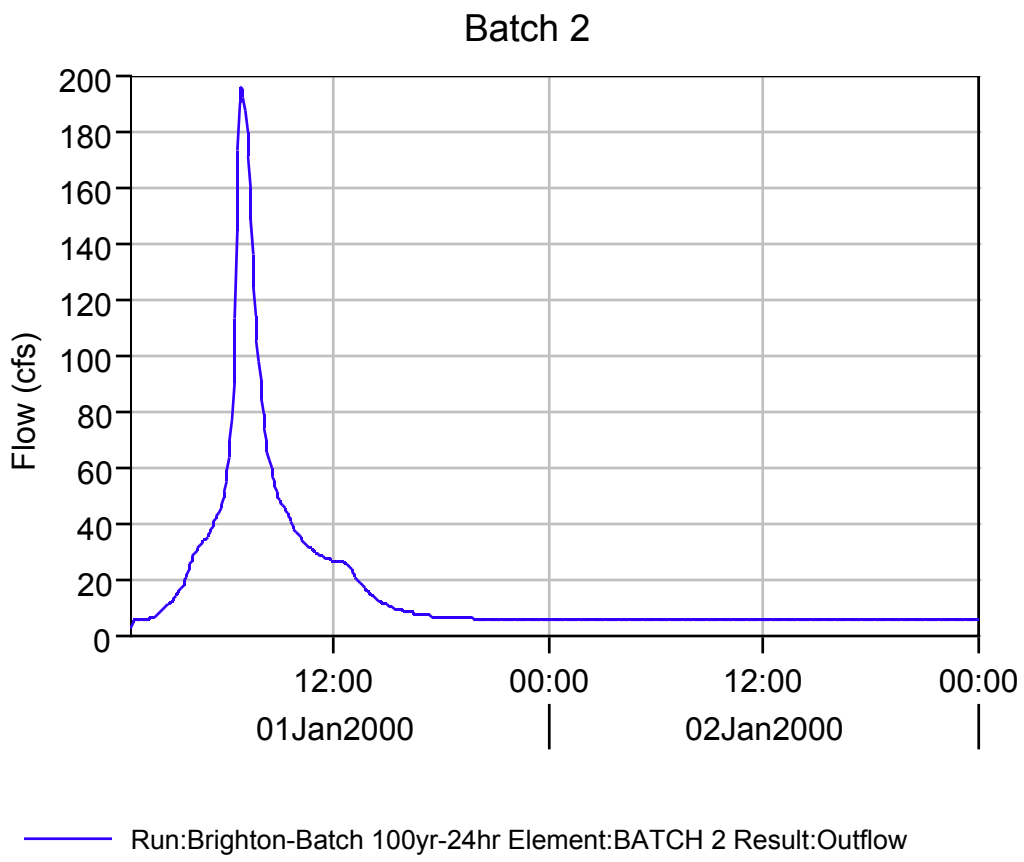
Volume Units: IN

Computed Results

Peak Discharge :	195.3 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:45
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	6.24 (IN)
Total Loss :	0.46 (IN)	Total Baseflow :	1.14 (IN)
Total Excess :	5.23 (IN)	Discharge :	7.38 (IN)

Subbasin "Batch 2" Results for Run "Brighton-Batch 100yr-24hr"




Batch 2
Flow (cfs)
200
180
160
140
120
100
80
60
40
20
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BATCH 2 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Batch 3

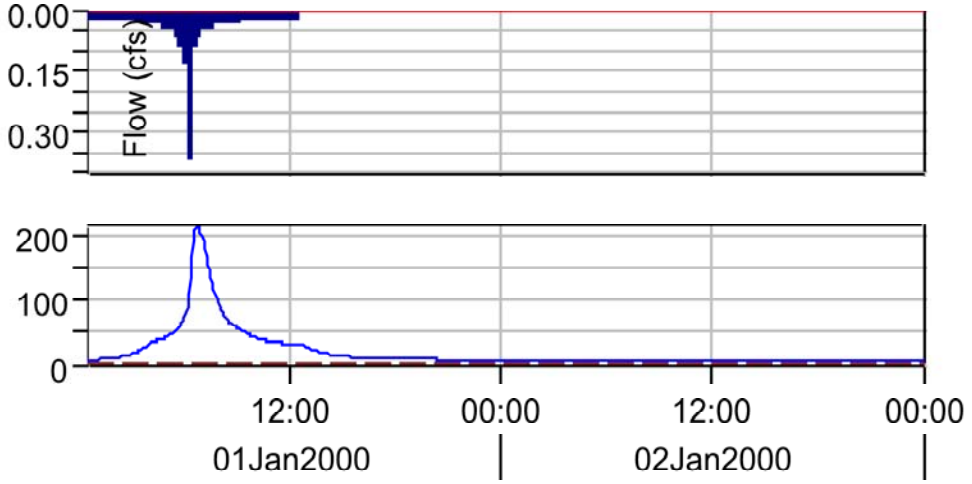
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	215.0 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:50
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	7.05 (IN)
Total Loss :	0.17 (IN)	Total Baseflow :	0.99 (IN)
Total Excess :	0.22 (IN)	Discharge :	8.03 (IN)

Subbasin "Batch 3" Results for Run "Brighton-Batch 100yr-24hr"

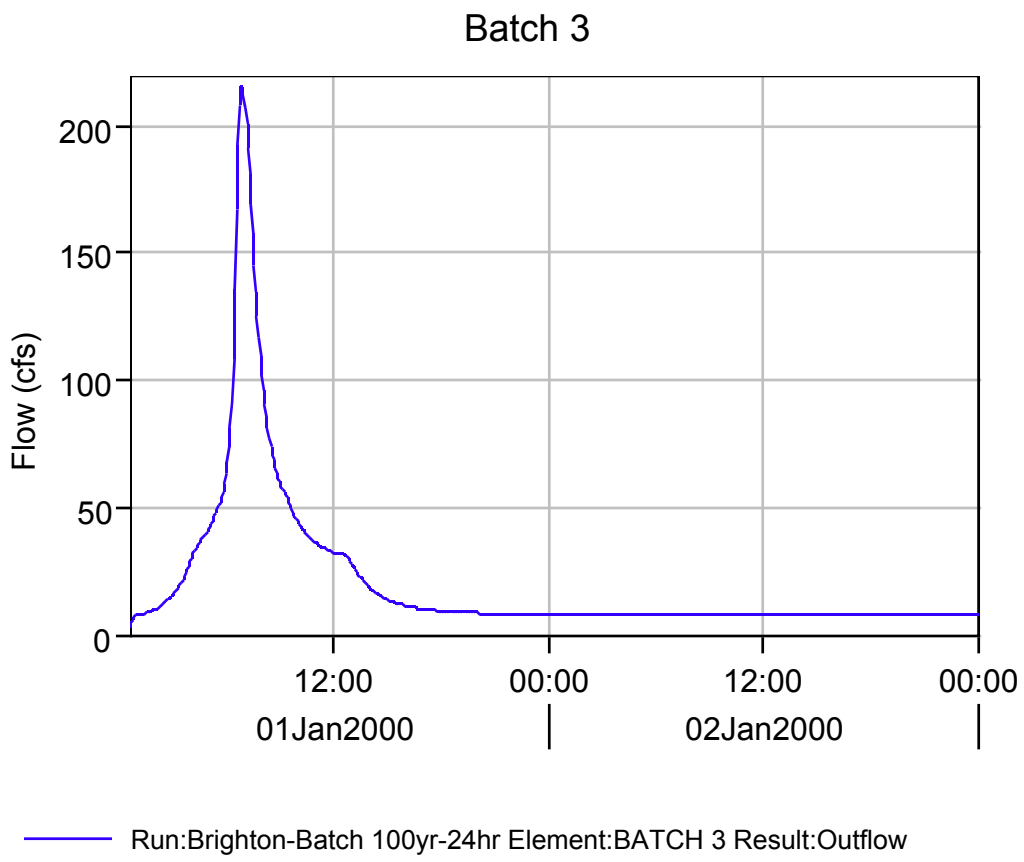


Run:Brighton-Batch 100yr-24hr Element:BATCH 3 Result:Precipitation

Run:Brighton-Batch 100yr-24hr Element:BATCH 3 Result:Precipitation Loss

Run:Brighton-Batch 100yr-24hr Element:BATCH 3 Result:Outflow

Run:Brighton-Batch 100yr-24hr Element:BATCH 3 Result:Baseflow


Batch 3
Flow (cfs)
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BATCH 3 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Batch 4

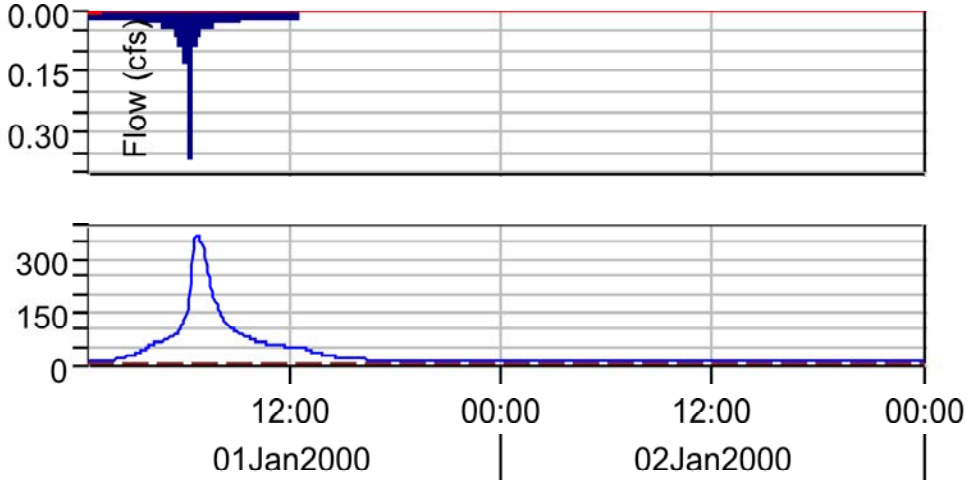
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	368.3 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:50
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	6.84 (IN)
Total Loss :	0.46 (IN)	Total Baseflow :	0.58 (IN)
Total Excess :	5.23 (IN)	Discharge :	7.42 (IN)

Subbasin "Batch 4" Results for Run "Brighton-Batch 100yr-24hr"

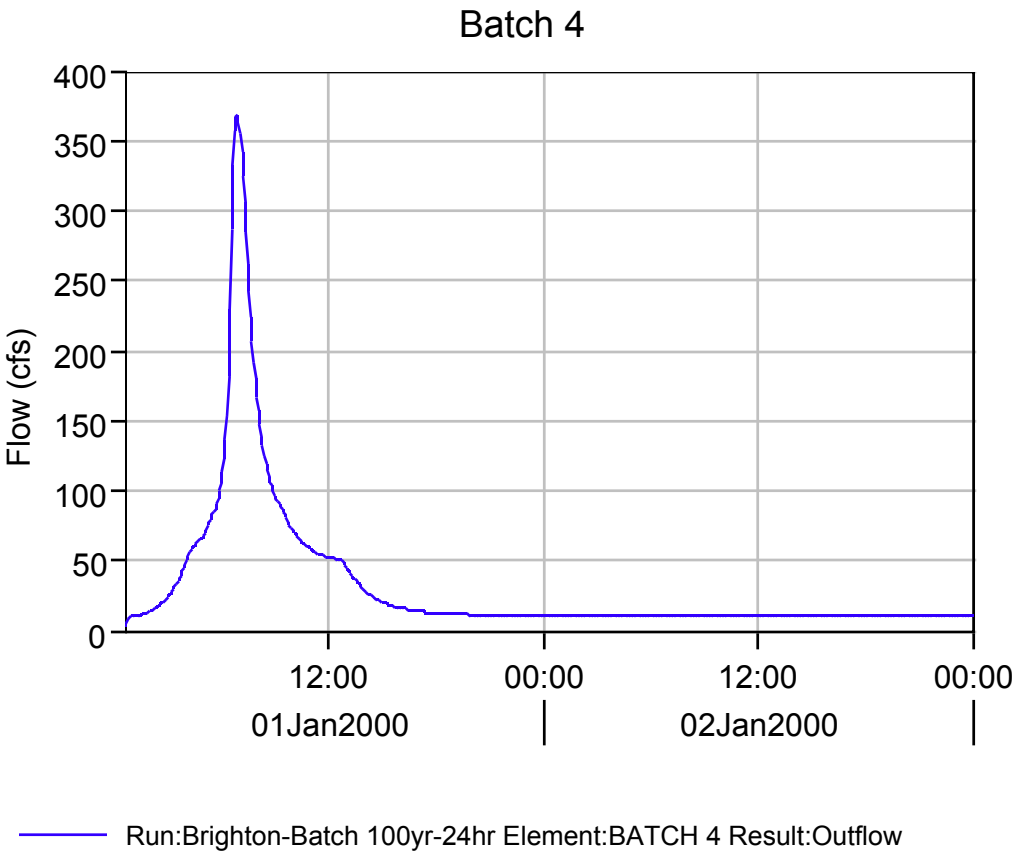


Run:Brighton-Batch 100yr-24hr Element:BATCH 4 Result:Precipitation

Run:Brighton-Batch 100yr-24hr Element:BATCH 4-1 Result:Precipitation Loss

Run:Brighton-Batch 100yr-24hr Element:BATCH 4 Result:Outflow

Run:Brighton-Batch 100yr-24hr Element:BATCH 4 Result:Baseflow


Batch 4
Flow (cfs)
400
350
300
250
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BATCH 4 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Ex Residence

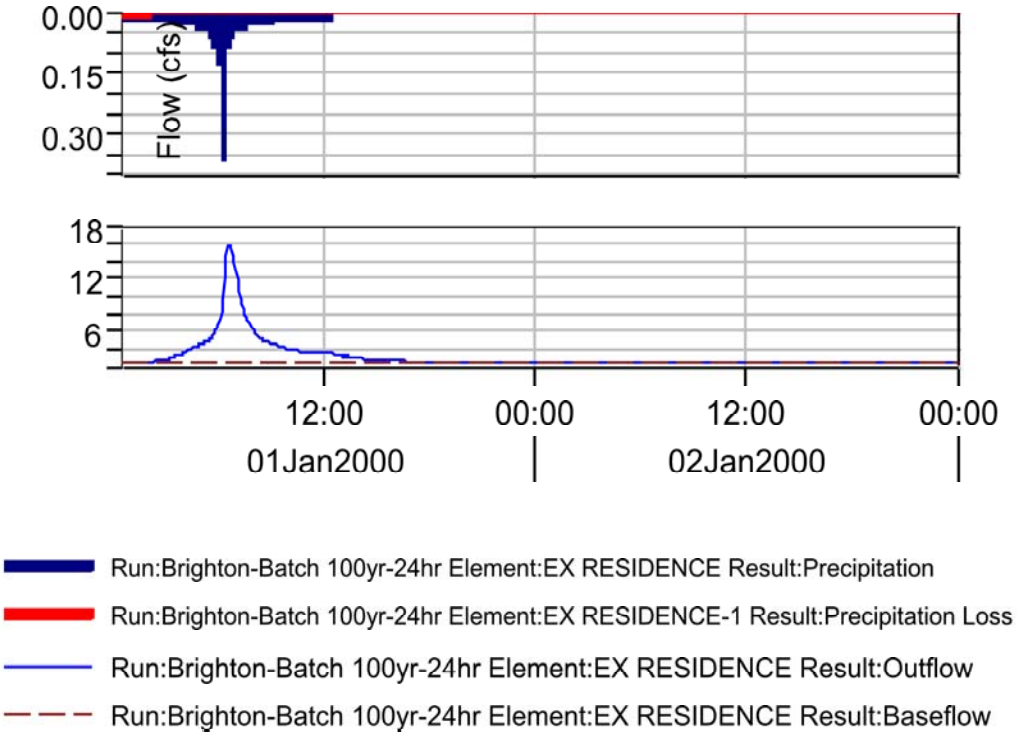
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

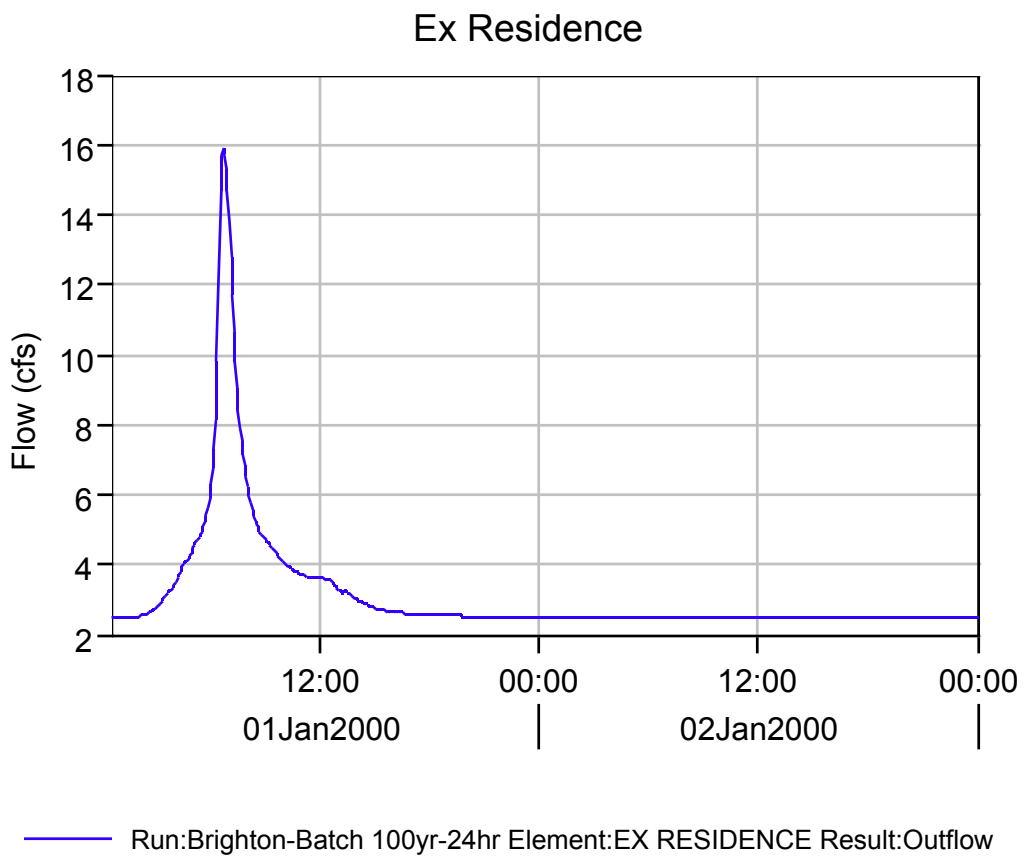
Volume Units: IN

Computed Results

Peak Discharge :	15.9 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:40
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	4.68 (IN)
Total Loss :	0.78 (IN)	Total Baseflow :	18.04 (IN)
Total Excess :	4.90 (IN)	Discharge :	22.72 (IN)

Subbasin "Ex Residence" Results for Run "Brighton-Batch 100yr-24hr"




Ex Residence
Flow (cfs)
18
16
14
12
10
8
6
4
2
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:EX RESIDENCE Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Brighton 1

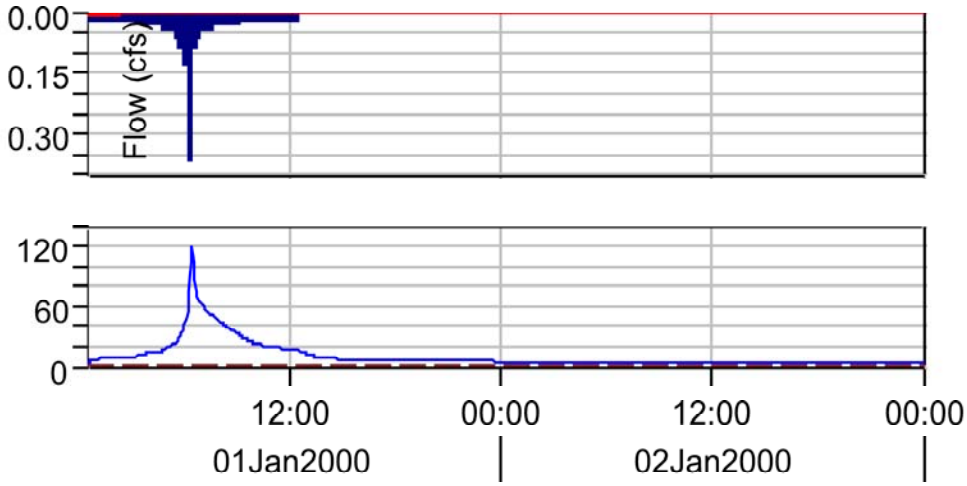
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	119.9 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:30
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	6.97 (IN)
Total Loss :	0.64 (IN)	Total Baseflow :	2.09 (IN)
Total Excess :	0.20 (IN)	Discharge :	9.05 (IN)

Subbasin "Brighton 1" Results for Run "Brighton-Batch 100yr-24hr"

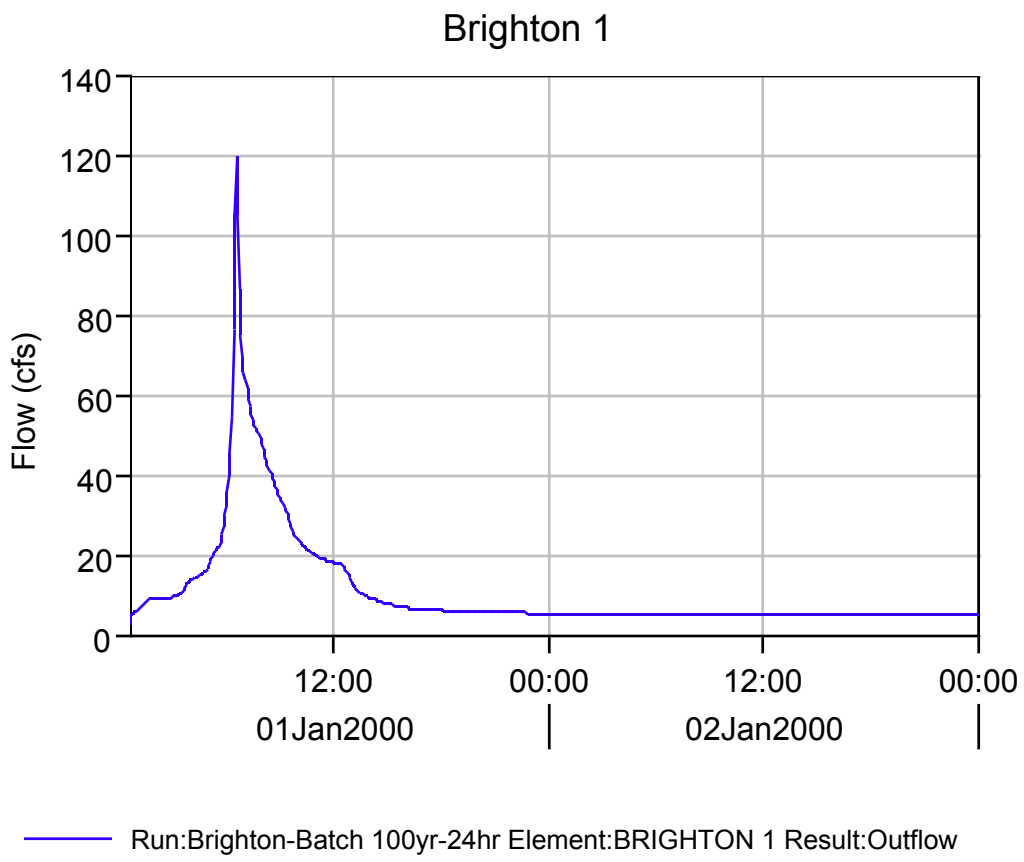


Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 1 Result:Precipitation

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 1 Result:Precipitation Loss

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 1 Result:Outflow

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 1 Result:Baseflow


Brighton 1
Flow (cfs)
140
120
100
80
60
40
20
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 1 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Brighton 2

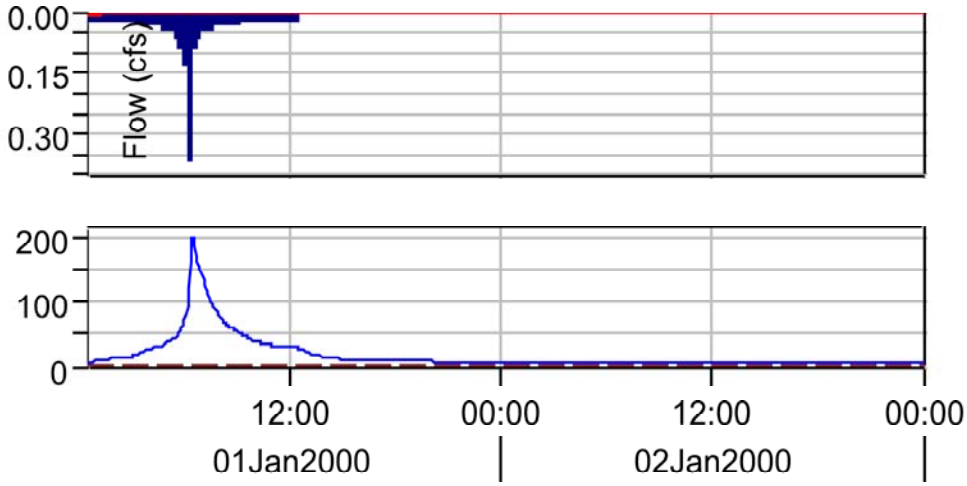
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	203.3 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:35
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	7.18 (IN)
Total Loss :	0.46 (IN)	Total Baseflow :	1.11 (IN)
Total Excess :	5.23 (IN)	Discharge :	8.29 (IN)

Subbasin "Brighton 2" Results for Run "Brighton-Batch 100yr-24hr"

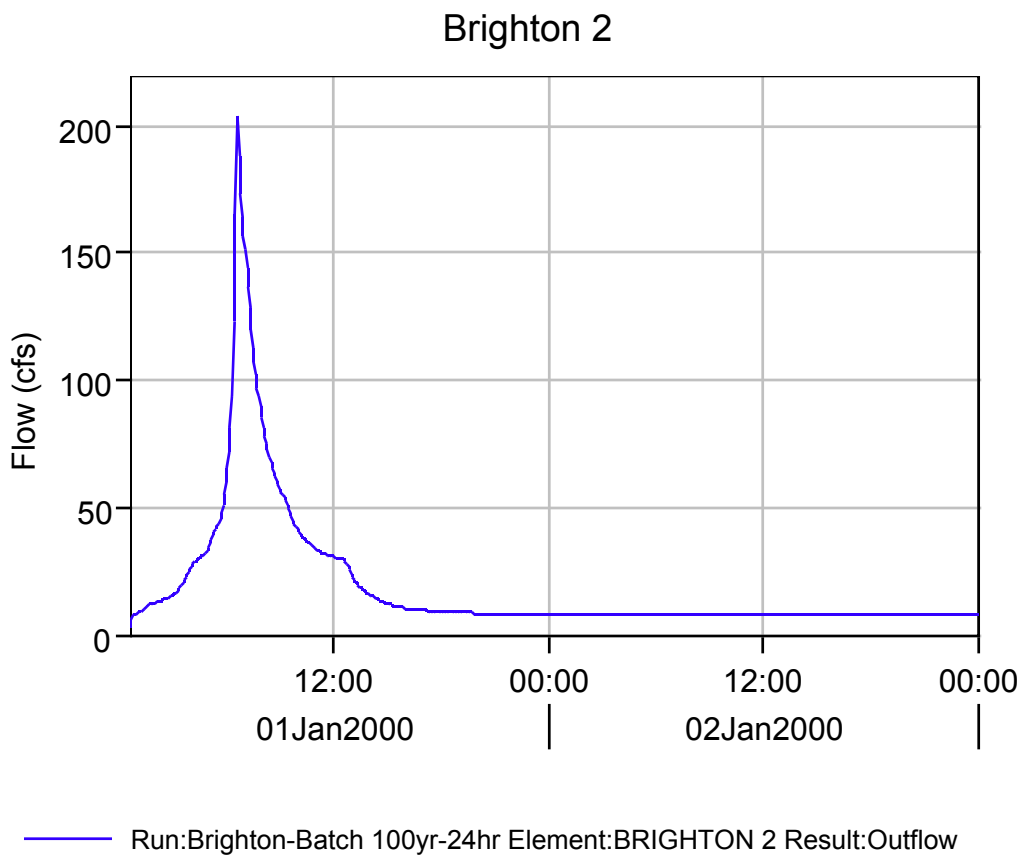


Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 2 Result:Precipitation

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 2-1 Result:Precipitation Loss

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 2 Result:Outflow

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 2 Result:Baseflow


Brighton 2
Flow (cfs)
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 2 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Brighton 3

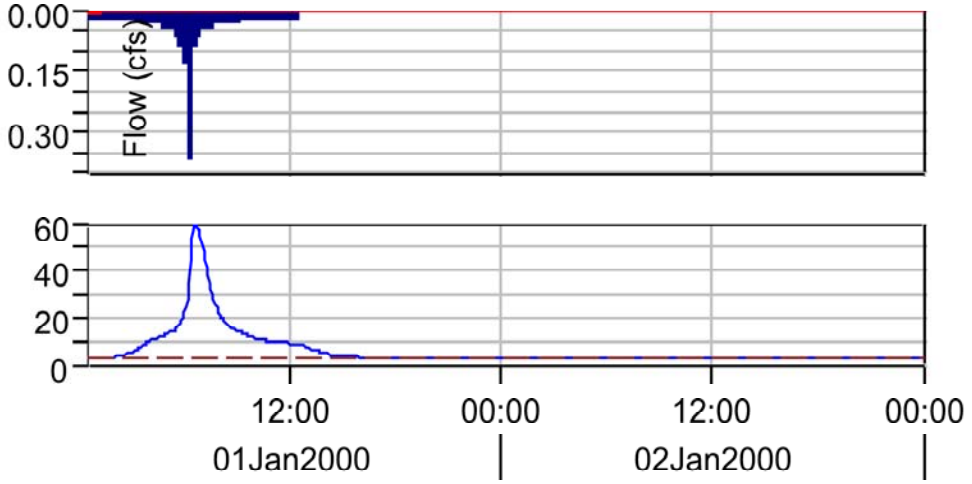
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	59.2 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:40
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	5.15 (IN)
Total Loss :	0.46 (IN)	Total Baseflow :	3.83 (IN)
Total Excess :	5.23 (IN)	Discharge :	8.99 (IN)

Subbasin "Brighton 3" Results for Run "Brighton-Batch 100yr-24hr"

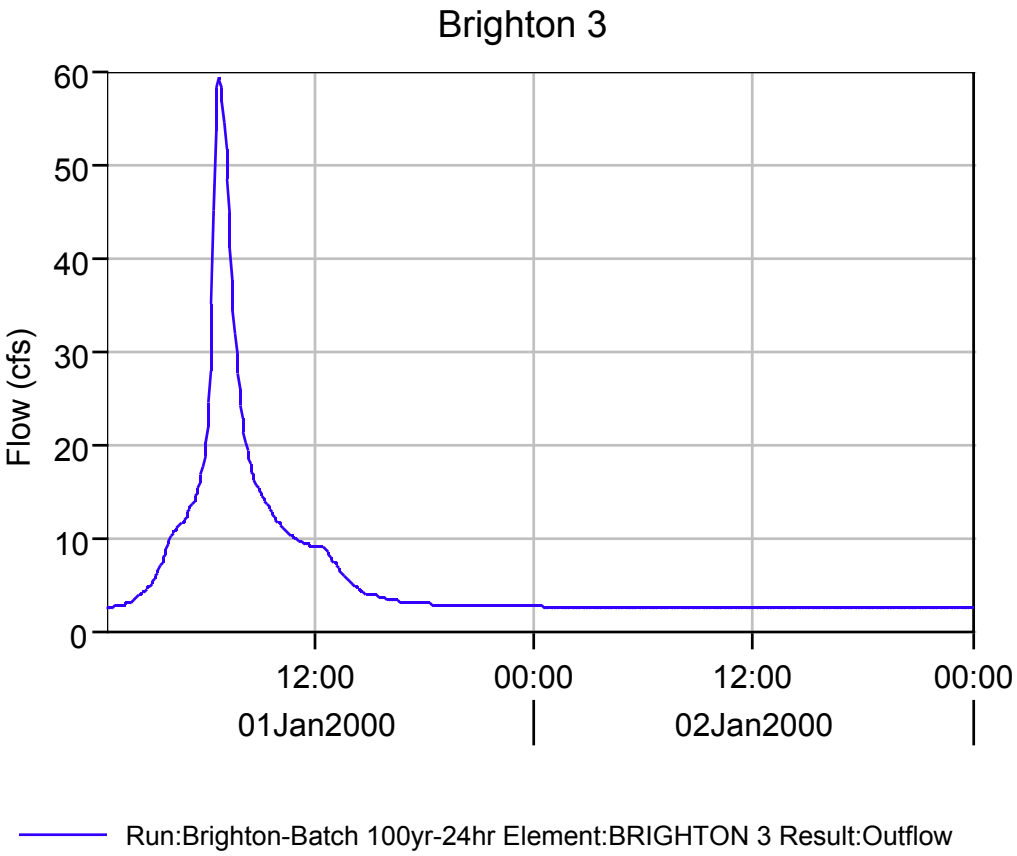


Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 3 Result:Precipitation

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 3-1 Result:Precipitation Loss

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 3 Result:Outflow

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 3 Result:Baseflow


Brighton 3
Flow (cfs)
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 3 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Brighton 4

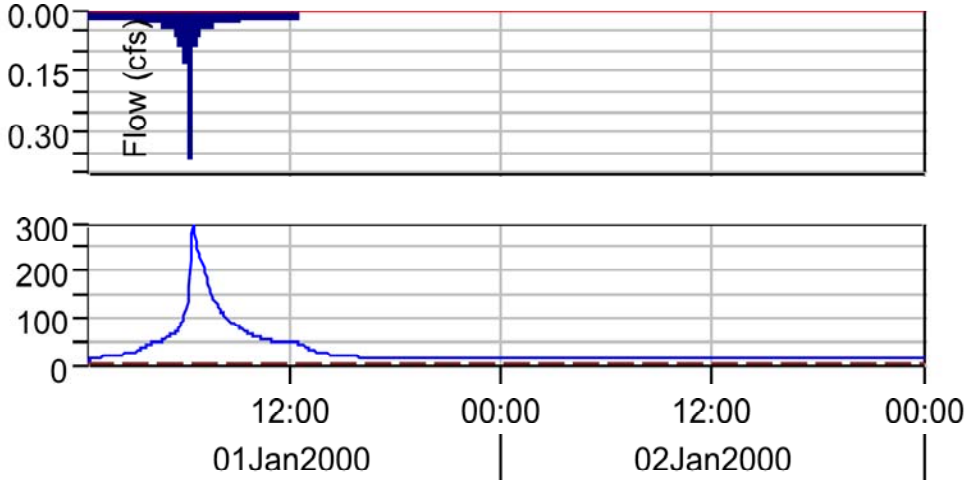
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Discharge :	294.7 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:35
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	8.09 (IN)
Total Loss :	0.16 (IN)	Total Baseflow :	0.76 (IN)
Total Excess :	0.22 (IN)	Discharge :	8.86 (IN)

Subbasin "Brighton 4" Results for Run "Brighton-Batch 100yr-24hr"

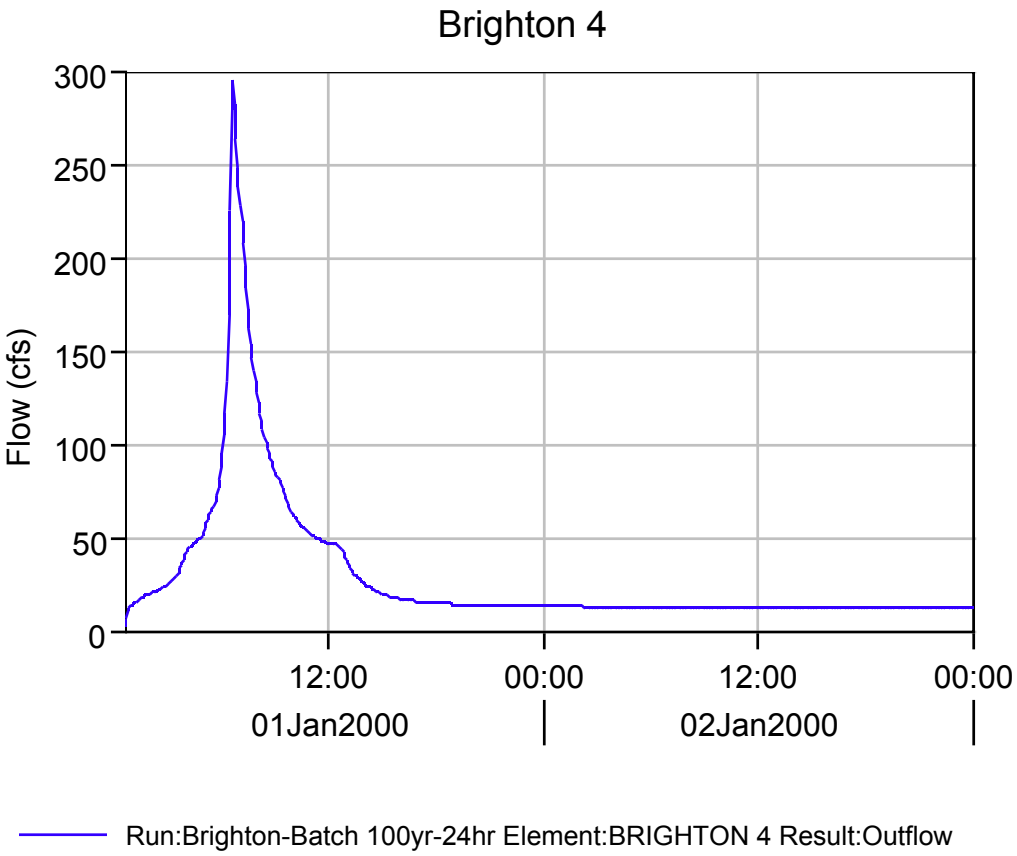


Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 4 Result:Precipitation

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 4 Result:Precipitation Loss

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 4 Result:Outflow

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 4 Result:Baseflow


Brighton 4
Flow (cfs)
300
250
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 4 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Subbasin: Brighton 5

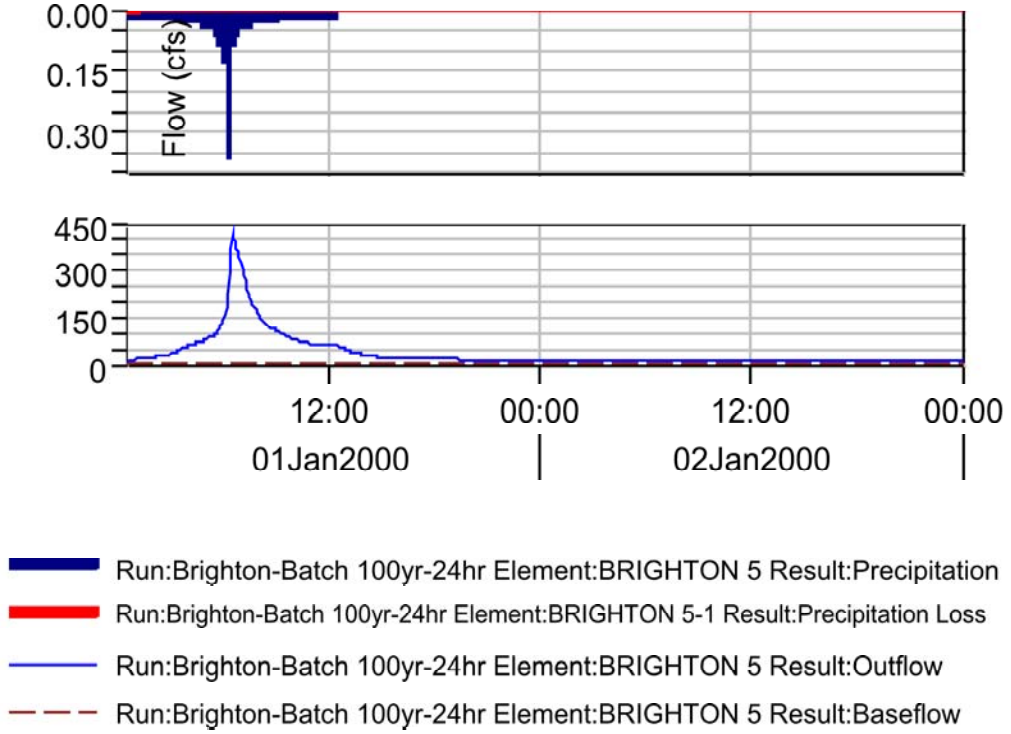
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

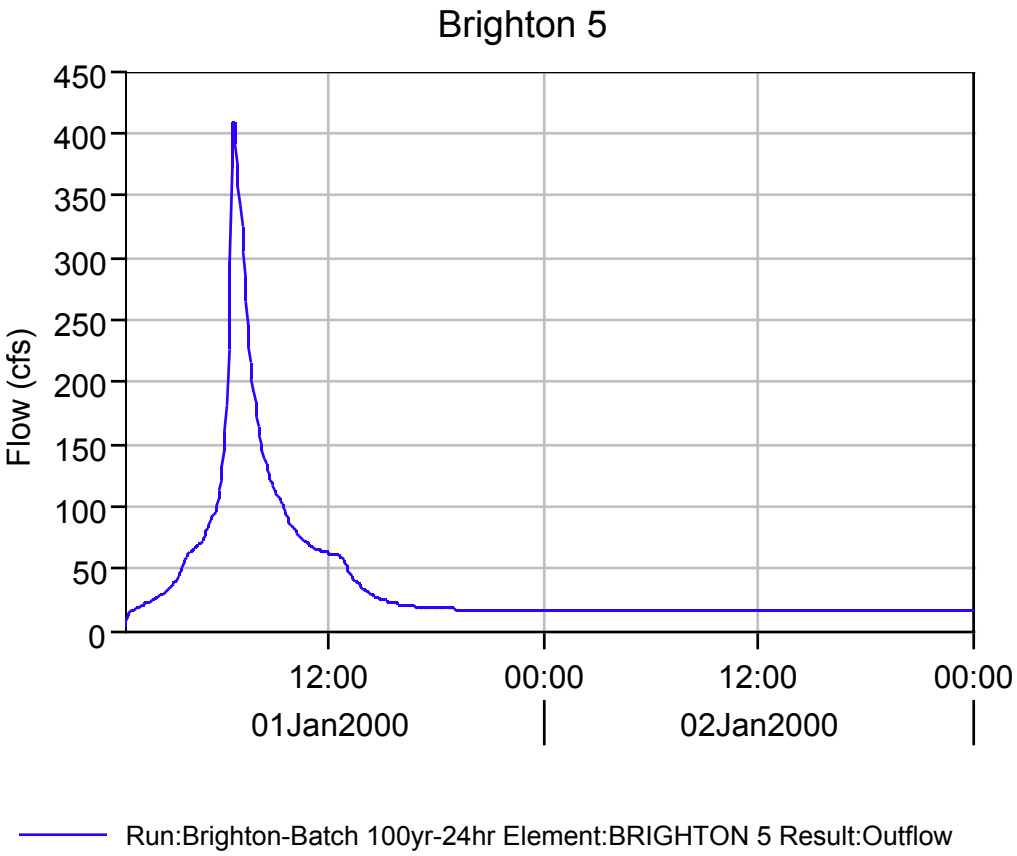
Volume Units: IN

Computed Results

Peak Discharge :	408.4 (CFS)	Date/Time of Peak Discharge :	01Jan2000, 06:35
Total Precipitation :	5.68 (IN)	Total Direct Runoff :	7.79 (IN)
Total Loss :	0.46 (IN)	Total Baseflow :	0.55 (IN)
Total Excess :	5.23 (IN)	Discharge :	8.34 (IN)

Subbasin "Brighton 5" Results for Run "Brighton-Batch 100yr-24hr"




Brighton 5
Flow (cfs)
450
400
350
300
250
200
150
100
50
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON 5 Result:Outflow

Project: 250120 Dev

Simulation Run: Brighton-Batch 100yr-24hr Reservoir: Brighton Detention Pond

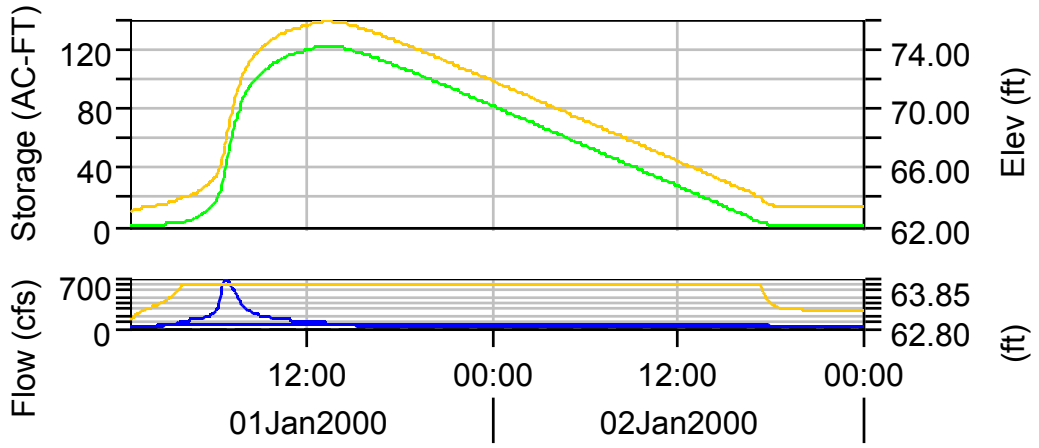
Start of Run:	01Jan2000, 00:30	Basin Model:	Brighton Dev
End of Run:	03Jan2000, 00:00	Meteorologic Model:	Brighton 100yr-24hr
Compute Time:	02Mar2011, 23:11:21	Control Specifications:	Control 1

Volume Units: IN

Computed Results

Peak Inflow :	764.3 (CFS)	Date/Time of Peak Inflow :	01Jan2000, 06:40
Peak Outflow :	80.0 (CFS)	Date/Time of Peak Outflow :	01Jan2000, 03:55
Total Inflow :	7.90 (IN)	Peak Storage :	121.6 (AC-FT)
Total Outflow :	7.87 (IN)	Peak Elevation :	75.8 (FT)

Reservoir "Brighton Detention Pond" Results for Run "Brighton-Batch 100yr-24hr"



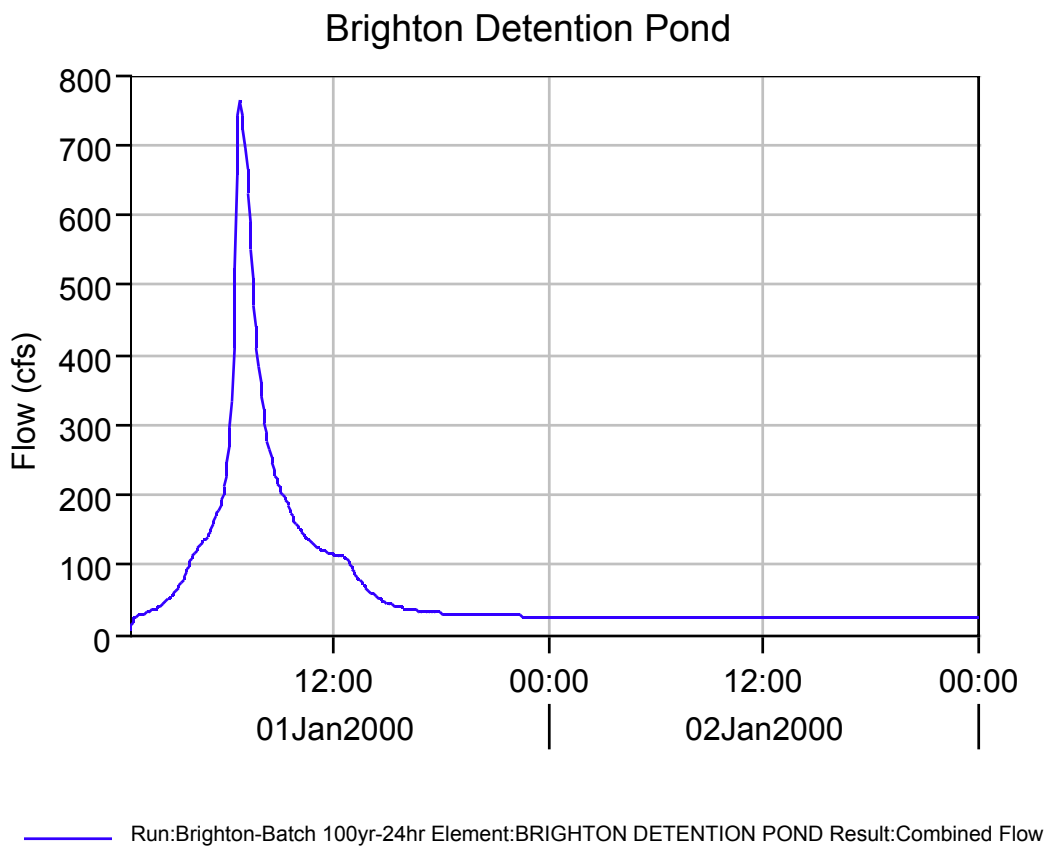
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Storage

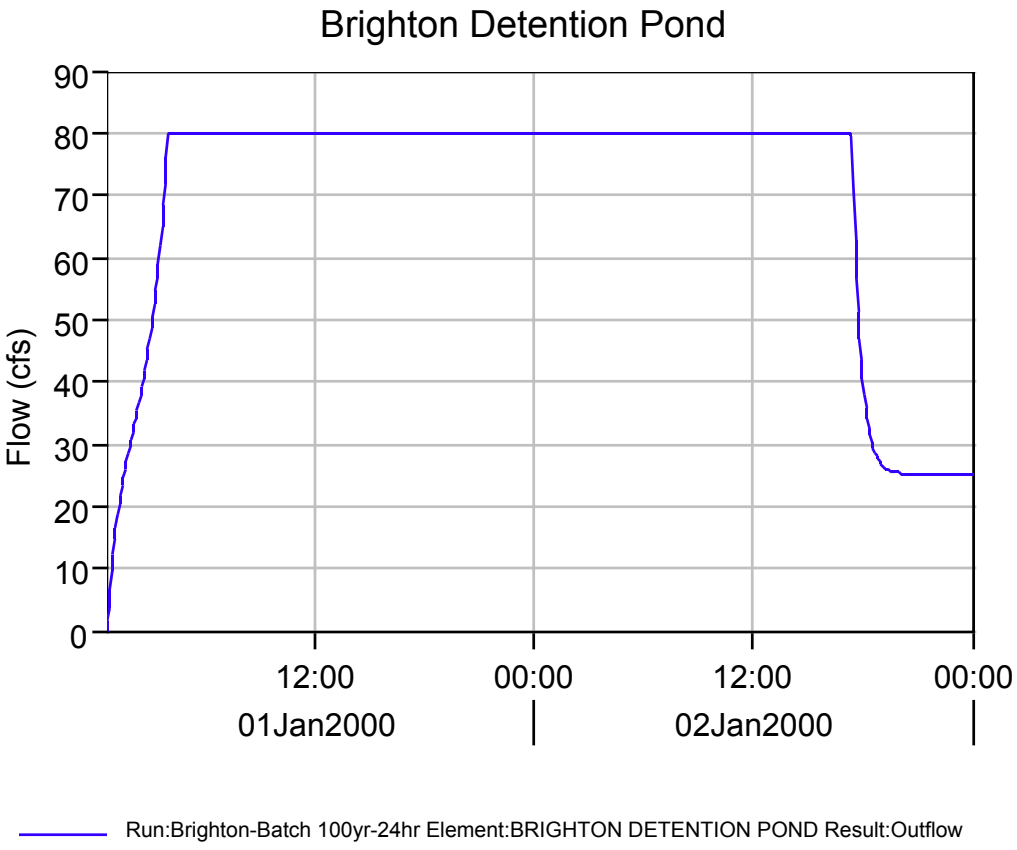
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Pool Elevation

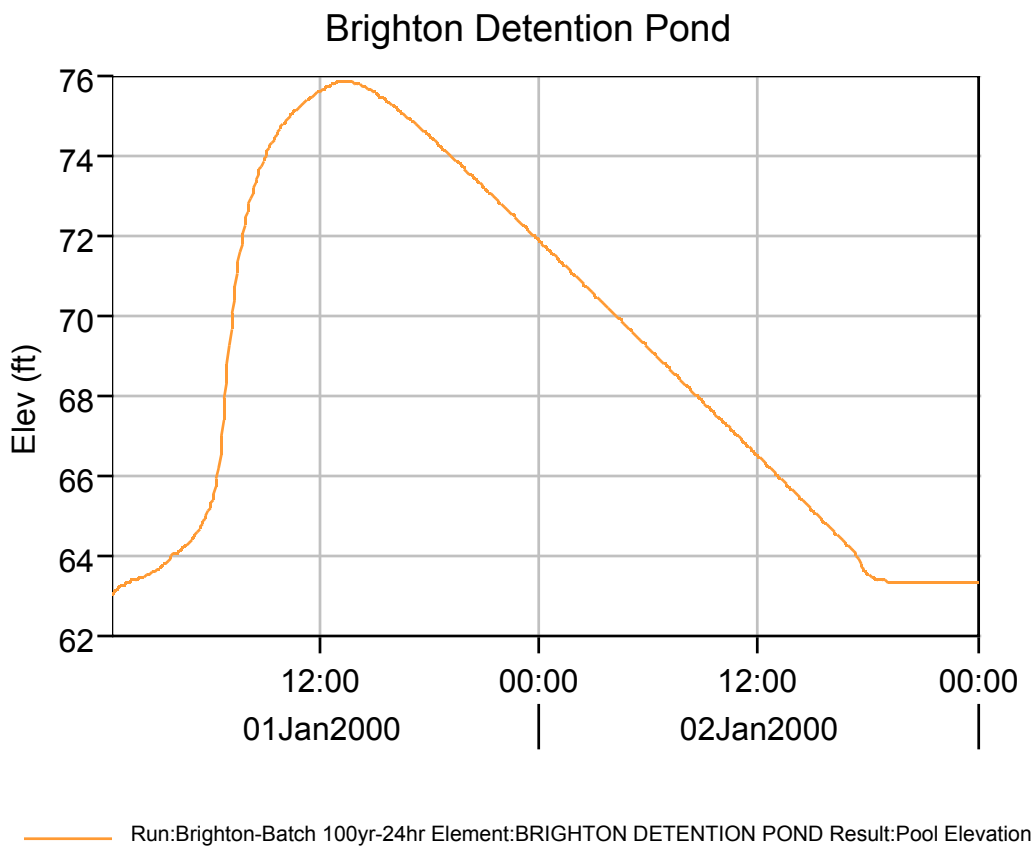
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Outflow

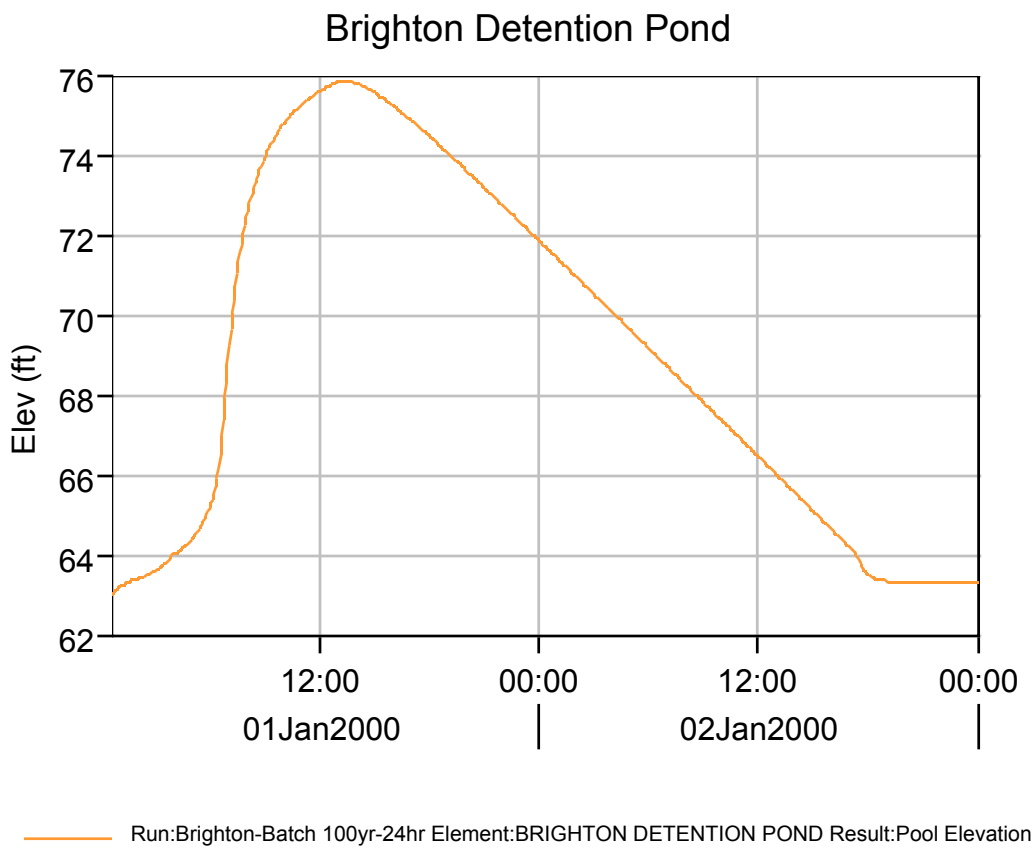
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Combined Flow

Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Stage


Brighton Detention Pond
Flow (cfs)
800
700
600
500
400
300
200
100
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Combined Flow


Brighton Detention Pond
Flow (cfs)
90
80
70
60
50
40
30
20
10
0
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Outflow


Brighton Detention Pond
Elev (ft)
76
74
72
70
68
66
64
62
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Pool Elevation


Brighton Detention Pond
Elev (ft)
76
74
72
70
68
66
64
62
12:00
00:00
12:00
00:00
01Jan2000
02Jan2000
Run:Brighton-Batch 100yr-24hr Element:BRIGHTON DETENTION POND Result:Pool Elevation

Project: 250120 Dev
Simulation Run: Brighton-Batch 100yr-24hr Reservoir: Brighton Detention Pond

Start of Run: 01Jan2000, 00:30 Basin Model: Brighton Dev
End of Run: 03Jan2000, 00:00 Meteorologic Model: Brighton 100yr-24hr
Compute Time: 02Mar2011, 23:11:21 Control Specifications: Control 1

01Jan2000	00:30	5.0	0.0	63.0	0.0	63.0
01Jan2000	00:35	12.7	0.1	63.0	1.5	63.0
01Jan2000	00:40	18.8	0.2	63.0	3.8	63.0
01Jan2000	00:45	23.0	0.3	63.1	6.7	63.1
01Jan2000	00:50	25.2	0.4	63.1	9.6	63.1
01Jan2000	00:55	26.1	0.5	63.2	12.2	63.2
01Jan2000	01:00	26.8	0.6	63.2	14.6	63.2
01Jan2000	01:05	27.5	0.7	63.2	16.7	63.2
01Jan2000	01:10	28.2	0.7	63.2	18.5	63.2
01Jan2000	01:15	29.1	0.8	63.3	20.2	63.3
01Jan2000	01:20	30.1	0.9	63.3	21.8	63.3
01Jan2000	01:25	31.2	0.9	63.3	23.2	63.3
01Jan2000	01:30	32.2	1.0	63.3	24.6	63.3
01Jan2000	01:35	33.1	1.0	63.3	26.0	63.3
01Jan2000	01:40	34.0	1.1	63.3	27.2	63.3
01Jan2000	01:45	35.0	1.1	63.4	28.4	63.4
01Jan2000	01:50	36.0	1.2	63.4	29.6	63.4
01Jan2000	01:55	37.0	1.2	63.4	30.7	63.4
01Jan2000	02:00	38.1	1.2	63.4	31.9	63.4
01Jan2000	02:05	39.3	1.3	63.4	33.0	63.4
01Jan2000	02:10	40.5	1.3	63.4	34.1	63.4
01Jan2000	02:15	41.9	1.4	63.4	35.3	63.4
01Jan2000	02:20	43.4	1.4	63.5	36.5	63.5
01Jan2000	02:25	45.0	1.5	63.5	37.8	63.5
01Jan2000	02:30	46.6	1.5	63.5	39.1	63.5

01Jan2000	02:35	48.4	1.6	63.5	40.5	63.5
01Jan2000	02:40	50.2	1.6	63.5	42.0	63.5
01Jan2000	02:45	52.1	1.7	63.5	43.5	63.5
01Jan2000	02:50	54.2	1.8	63.6	45.1	63.6
01Jan2000	02:55	56.4	1.8	63.6	46.8	63.6
01Jan2000	03:00	58.7	1.9	63.6	48.6	63.6
01Jan2000	03:05	61.1	2.0	63.6	50.4	63.6
01Jan2000	03:10	63.6	2.0	63.7	52.4	63.7
01Jan2000	03:15	66.3	2.1	63.7	54.5	63.7
01Jan2000	03:20	69.4	2.2	63.7	56.7	63.7
01Jan2000	03:25	73.1	2.3	63.7	59.1	63.7
01Jan2000	03:30	77.5	2.4	63.8	61.8	63.8
01Jan2000	03:35	82.5	2.5	63.8	64.8	63.8
01Jan2000	03:40	87.9	2.6	63.9	68.2	63.9
01Jan2000	03:45	93.4	2.8	63.9	71.9	63.9
01Jan2000	03:50	98.8	2.9	63.9	75.9	63.9
01Jan2000	03:55	104.0	3.1	64.0	80.0	64.0
01Jan2000	04:00	109.0	3.3	64.0	80.0	64.0
01Jan2000	04:05	113.5	3.5	64.0	80.0	64.0
01Jan2000	04:10	117.5	3.7	64.1	80.0	64.0
01Jan2000	04:15	121.1	4.0	64.1	80.0	64.0
01Jan2000	04:20	124.1	4.3	64.1	80.0	64.0
01Jan2000	04:25	126.8	4.6	64.2	80.0	64.0
01Jan2000	04:30	129.2	4.9	64.2	80.0	64.0
01Jan2000	04:35	131.3	5.3	64.2	80.0	64.0
01Jan2000	04:40	133.4	5.6	64.3	80.0	64.0
01Jan2000	04:45	135.5	6.0	64.3	80.0	64.0
01Jan2000	04:50	138.2	6.4	64.3	80.0	64.0
01Jan2000	04:55	142.0	6.8	64.4	80.0	64.0
01Jan2000	05:00	146.8	7.3	64.4	80.0	64.0
01Jan2000	05:05	152.2	7.7	64.5	80.0	64.0

01Jan2000	05:10	157.7	8.3	64.5	80.0	64.0
01Jan2000	05:15	163.0	8.8	64.6	80.0	64.0
01Jan2000	05:20	167.9	9.4	64.6	80.0	64.0
01Jan2000	05:25	172.6	10.0	64.7	80.0	64.0
01Jan2000	05:30	177.3	10.7	64.8	80.0	64.0
01Jan2000	05:35	183.1	11.4	64.8	80.0	64.0
01Jan2000	05:40	190.8	12.1	64.9	80.0	64.0
01Jan2000	05:45	200.5	12.9	65.0	80.0	64.0
01Jan2000	05:50	212.7	13.8	65.1	80.0	64.0
01Jan2000	05:55	227.7	14.7	65.2	80.0	64.0
01Jan2000	06:00	245.3	15.8	65.3	80.0	64.0
01Jan2000	06:05	267.5	17.0	65.4	80.0	64.0
01Jan2000	06:10	295.5	18.4	65.5	80.0	64.0
01Jan2000	06:15	334.6	20.0	65.7	80.0	64.0
01Jan2000	06:20	408.1	22.0	65.9	80.0	64.0
01Jan2000	06:25	525.5	24.7	66.2	80.0	64.0
01Jan2000	06:30	657.7	28.2	66.5	80.0	64.0
01Jan2000	06:35	740.1	32.5	66.9	80.0	64.0
01Jan2000	06:40	764.3	37.1	67.4	80.0	64.0
01Jan2000	06:45	758.5	41.8	67.9	80.0	64.0
01Jan2000	06:50	741.6	46.4	68.3	80.0	64.0
01Jan2000	06:55	720.5	50.9	68.8	80.0	64.0
01Jan2000	07:00	696.3	55.2	69.2	80.0	64.0
01Jan2000	07:05	666.6	59.4	69.6	80.0	64.0
01Jan2000	07:10	630.6	63.3	70.0	80.0	64.0
01Jan2000	07:15	590.3	67.0	70.4	80.0	64.0
01Jan2000	07:20	548.6	70.3	70.7	80.0	64.0
01Jan2000	07:25	508.2	73.4	71.0	80.0	64.0
01Jan2000	07:30	471.1	76.2	71.3	80.0	64.0
01Jan2000	07:35	438.1	78.8	71.6	80.0	64.0
01Jan2000	07:40	409.4	81.2	71.8	80.0	64.0

01Jan2000	07:45	384.3	83.4	72.0	80.0	64.0
01Jan2000	07:50	361.7	85.4	72.2	80.0	64.0
01Jan2000	07:55	340.7	87.2	72.4	80.0	64.0
01Jan2000	08:00	321.4	89.0	72.6	80.0	64.0
01Jan2000	08:05	304.0	90.6	72.7	80.0	64.0
01Jan2000	08:10	288.7	92.1	72.9	80.0	64.0
01Jan2000	08:15	275.3	93.5	73.0	80.0	64.0
01Jan2000	08:20	263.5	94.8	73.2	80.0	64.0
01Jan2000	08:25	253.2	96.0	73.3	80.0	64.0
01Jan2000	08:30	244.0	97.2	73.4	80.0	64.0
01Jan2000	08:35	235.8	98.3	73.5	80.0	64.0
01Jan2000	08:40	228.4	99.3	73.6	80.0	64.0
01Jan2000	08:45	221.7	100.3	73.7	80.0	64.0
01Jan2000	08:50	215.6	101.3	73.8	80.0	64.0
01Jan2000	08:55	210.0	102.2	73.9	80.0	64.0
01Jan2000	09:00	205.0	103.0	74.0	80.0	64.0
01Jan2000	09:05	200.5	103.9	74.1	80.0	64.0
01Jan2000	09:10	196.3	104.7	74.1	80.0	64.0
01Jan2000	09:15	192.3	105.5	74.2	80.0	64.0
01Jan2000	09:20	188.1	106.3	74.3	80.0	64.0
01Jan2000	09:25	183.4	107.0	74.4	80.0	64.0
01Jan2000	09:30	178.3	107.7	74.4	80.0	64.0
01Jan2000	09:35	173.1	108.3	74.5	80.0	64.0
01Jan2000	09:40	168.2	109.0	74.6	80.0	64.0
01Jan2000	09:45	163.6	109.6	74.6	80.0	64.0
01Jan2000	09:50	159.4	110.1	74.7	80.0	64.0
01Jan2000	09:55	155.5	110.6	74.7	80.0	64.0
01Jan2000	10:00	152.0	111.2	74.8	80.0	64.0
01Jan2000	10:05	148.8	111.6	74.8	80.0	64.0
01Jan2000	10:10	145.8	112.1	74.9	80.0	64.0
01Jan2000	10:15	143.1	112.5	74.9	80.0	64.0

01Jan2000	10:20	140.6	113.0	75.0	80.0	64.0
01Jan2000	10:25	138.2	113.4	75.0	80.0	64.0
01Jan2000	10:30	136.0	113.8	75.1	80.0	64.0
01Jan2000	10:35	133.9	114.2	75.1	80.0	64.0
01Jan2000	10:40	132.0	114.5	75.1	80.0	64.0
01Jan2000	10:45	130.2	114.9	75.2	80.0	64.0
01Jan2000	10:50	128.5	115.2	75.2	80.0	64.0
01Jan2000	10:55	126.9	115.5	75.2	80.0	64.0
01Jan2000	11:00	125.4	115.9	75.3	80.0	64.0
01Jan2000	11:05	124.0	116.2	75.3	80.0	64.0
01Jan2000	11:10	122.7	116.5	75.3	80.0	64.0
01Jan2000	11:15	121.4	116.8	75.4	80.0	64.0
01Jan2000	11:20	120.3	117.0	75.4	80.0	64.0
01Jan2000	11:25	119.3	117.3	75.4	80.0	64.0
01Jan2000	11:30	118.3	117.6	75.4	80.0	64.0
01Jan2000	11:35	117.4	117.8	75.5	80.0	64.0
01Jan2000	11:40	116.6	118.1	75.5	80.0	64.0
01Jan2000	11:45	115.9	118.3	75.5	80.0	64.0
01Jan2000	11:50	115.2	118.6	75.5	80.0	64.0
01Jan2000	11:55	114.7	118.8	75.6	80.0	64.0
01Jan2000	12:00	114.1	119.1	75.6	80.0	64.0
01Jan2000	12:05	113.7	119.3	75.6	80.0	64.0
01Jan2000	12:10	113.2	119.5	75.6	80.0	64.0
01Jan2000	12:15	112.9	119.8	75.7	80.0	64.0
01Jan2000	12:20	112.5	120.0	75.7	80.0	64.0
01Jan2000	12:25	112.2	120.2	75.7	80.0	64.0
01Jan2000	12:30	111.6	120.4	75.7	80.0	64.0
01Jan2000	12:35	110.4	120.6	75.7	80.0	64.0
01Jan2000	12:40	108.0	120.8	75.8	80.0	64.0
01Jan2000	12:45	104.8	121.0	75.8	80.0	64.0
01Jan2000	12:50	100.9	121.2	75.8	80.0	64.0

01Jan2000	12:55	96.9	121.3	75.8	80.0	64.0
01Jan2000	13:00	93.0	121.4	75.8	80.0	64.0
01Jan2000	13:05	89.2	121.5	75.8	80.0	64.0
01Jan2000	13:10	85.6	121.5	75.8	80.0	64.0
01Jan2000	13:15	82.3	121.6	75.8	80.0	64.0
01Jan2000	13:20	79.3	121.6	75.8	80.0	64.0
01Jan2000	13:25	76.4	121.6	75.8	80.0	64.0
01Jan2000	13:30	73.8	121.5	75.8	80.0	64.0
01Jan2000	13:35	71.3	121.5	75.8	80.0	64.0
01Jan2000	13:40	68.9	121.4	75.8	80.0	64.0
01Jan2000	13:45	66.7	121.3	75.8	80.0	64.0
01Jan2000	13:50	64.6	121.2	75.8	80.0	64.0
01Jan2000	13:55	62.6	121.1	75.8	80.0	64.0
01Jan2000	14:00	60.7	121.0	75.8	80.0	64.0
01Jan2000	14:05	58.9	120.8	75.8	80.0	64.0
01Jan2000	14:10	57.1	120.7	75.7	80.0	64.0
01Jan2000	14:15	55.5	120.5	75.7	80.0	64.0
01Jan2000	14:20	54.0	120.4	75.7	80.0	64.0
01Jan2000	14:25	52.5	120.2	75.7	80.0	64.0
01Jan2000	14:30	51.1	120.0	75.7	80.0	64.0
01Jan2000	14:35	49.8	119.8	75.7	80.0	64.0
01Jan2000	14:40	48.6	119.6	75.6	80.0	64.0
01Jan2000	14:45	47.4	119.3	75.6	80.0	64.0
01Jan2000	14:50	46.4	119.1	75.6	80.0	64.0
01Jan2000	14:55	45.4	118.9	75.6	80.0	64.0
01Jan2000	15:00	44.5	118.6	75.5	80.0	64.0
01Jan2000	15:05	43.6	118.4	75.5	80.0	64.0
01Jan2000	15:10	42.8	118.1	75.5	80.0	64.0
01Jan2000	15:15	42.0	117.9	75.5	80.0	64.0
01Jan2000	15:20	41.3	117.6	75.4	80.0	64.0
01Jan2000	15:25	40.7	117.3	75.4	80.0	64.0

01Jan2000	15:30	40.0	117.1	75.4	80.0	64.0
01Jan2000	15:35	39.3	116.8	75.4	80.0	64.0
01Jan2000	15:40	38.7	116.5	75.3	80.0	64.0
01Jan2000	15:45	38.1	116.2	75.3	80.0	64.0
01Jan2000	15:50	37.8	115.9	75.3	80.0	64.0
01Jan2000	15:55	37.3	115.6	75.2	80.0	64.0
01Jan2000	16:00	36.9	115.3	75.2	80.0	64.0
01Jan2000	16:05	36.4	115.0	75.2	80.0	64.0
01Jan2000	16:10	36.0	114.7	75.2	80.0	64.0
01Jan2000	16:15	35.7	114.4	75.1	80.0	64.0
01Jan2000	16:20	35.4	114.1	75.1	80.0	64.0
01Jan2000	16:25	35.1	113.8	75.1	80.0	64.0
01Jan2000	16:30	34.7	113.5	75.0	80.0	64.0
01Jan2000	16:35	34.4	113.2	75.0	80.0	64.0
01Jan2000	16:40	34.0	112.9	75.0	80.0	64.0
01Jan2000	16:45	33.7	112.6	74.9	80.0	64.0
01Jan2000	16:50	33.3	112.2	74.9	80.0	64.0
01Jan2000	16:55	33.0	111.9	74.9	80.0	64.0
01Jan2000	17:00	32.8	111.6	74.8	80.0	64.0
01Jan2000	17:05	32.5	111.3	74.8	80.0	64.0
01Jan2000	17:10	32.3	110.9	74.8	80.0	64.0
01Jan2000	17:15	32.0	110.6	74.7	80.0	64.0
01Jan2000	17:20	31.8	110.3	74.7	80.0	64.0
01Jan2000	17:25	31.7	110.0	74.7	80.0	64.0
01Jan2000	17:30	31.5	109.6	74.6	80.0	64.0
01Jan2000	17:35	31.3	109.3	74.6	80.0	64.0
01Jan2000	17:40	31.2	109.0	74.6	80.0	64.0
01Jan2000	17:45	31.0	108.6	74.5	80.0	64.0
01Jan2000	17:50	30.8	108.3	74.5	80.0	64.0
01Jan2000	17:55	30.6	107.9	74.5	80.0	64.0
01Jan2000	18:00	30.5	107.6	74.4	80.0	64.0

01Jan2000	18:05	30.3	107.3	74.4	80.0	64.0
01Jan2000	18:10	30.1	106.9	74.4	80.0	64.0
01Jan2000	18:15	30.0	106.6	74.3	80.0	64.0
01Jan2000	18:20	29.8	106.2	74.3	80.0	64.0
01Jan2000	18:25	29.7	105.9	74.3	80.0	64.0
01Jan2000	18:30	29.6	105.5	74.2	80.0	64.0
01Jan2000	18:35	29.4	105.2	74.2	80.0	64.0
01Jan2000	18:40	29.3	104.8	74.2	80.0	64.0
01Jan2000	18:45	29.2	104.5	74.1	80.0	64.0
01Jan2000	18:50	29.1	104.1	74.1	80.0	64.0
01Jan2000	18:55	29.1	103.8	74.1	80.0	64.0
01Jan2000	19:00	29.0	103.4	74.0	80.0	64.0
01Jan2000	19:05	28.9	103.1	74.0	80.0	64.0
01Jan2000	19:10	28.8	102.7	74.0	80.0	64.0
01Jan2000	19:15	28.7	102.4	73.9	80.0	64.0
01Jan2000	19:20	28.6	102.0	73.9	80.0	64.0
01Jan2000	19:25	28.5	101.7	73.8	80.0	64.0
01Jan2000	19:30	28.5	101.3	73.8	80.0	64.0
01Jan2000	19:35	28.4	101.0	73.8	80.0	64.0
01Jan2000	19:40	28.3	100.6	73.7	80.0	64.0
01Jan2000	19:45	28.2	100.2	73.7	80.0	64.0
01Jan2000	19:50	28.1	99.9	73.7	80.0	64.0
01Jan2000	19:55	28.0	99.5	73.6	80.0	64.0
01Jan2000	20:00	28.0	99.2	73.6	80.0	64.0
01Jan2000	20:05	27.9	98.8	73.6	80.0	64.0
01Jan2000	20:10	27.8	98.5	73.5	80.0	64.0
01Jan2000	20:15	27.8	98.1	73.5	80.0	64.0
01Jan2000	20:20	27.7	97.7	73.5	80.0	64.0
01Jan2000	20:25	27.6	97.4	73.4	80.0	64.0
01Jan2000	20:30	27.6	97.0	73.4	80.0	64.0
01Jan2000	20:35	27.5	96.7	73.3	80.0	64.0

01Jan2000	20:40	27.5	96.3	73.3	80.0	64.0
01Jan2000	20:45	27.4	95.9	73.3	80.0	64.0
01Jan2000	20:50	27.4	95.6	73.2	80.0	64.0
01Jan2000	20:55	27.3	95.2	73.2	80.0	64.0
01Jan2000	21:00	27.3	94.8	73.2	80.0	64.0
01Jan2000	21:05	27.2	94.5	73.1	80.0	64.0
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01Jan2000	21:15	27.2	93.8	73.1	80.0	64.0
01Jan2000	21:20	27.1	93.4	73.0	80.0	64.0
01Jan2000	21:25	27.1	93.0	73.0	80.0	64.0
01Jan2000	21:30	27.0	92.7	72.9	80.0	64.0
01Jan2000	21:35	27.0	92.3	72.9	80.0	64.0
01Jan2000	21:40	26.9	91.9	72.9	80.0	64.0
01Jan2000	21:45	26.9	91.6	72.8	80.0	64.0
01Jan2000	21:50	26.9	91.2	72.8	80.0	64.0
01Jan2000	21:55	26.9	90.8	72.8	80.0	64.0
01Jan2000	22:00	26.8	90.5	72.7	80.0	64.0
01Jan2000	22:05	26.8	90.1	72.7	80.0	64.0
01Jan2000	22:10	26.8	89.7	72.7	80.0	64.0
01Jan2000	22:15	26.7	89.4	72.6	80.0	64.0
01Jan2000	22:20	26.7	89.0	72.6	80.0	64.0
01Jan2000	22:25	26.7	88.6	72.5	80.0	64.0
01Jan2000	22:30	26.6	88.3	72.5	80.0	64.0
01Jan2000	22:35	26.6	87.9	72.5	80.0	64.0
01Jan2000	22:40	26.6	87.5	72.4	80.0	64.0
01Jan2000	22:45	26.5	87.2	72.4	80.0	64.0
01Jan2000	22:50	26.5	86.8	72.4	80.0	64.0
01Jan2000	22:55	26.5	86.4	72.3	80.0	64.0
01Jan2000	23:00	26.5	86.1	72.3	80.0	64.0
01Jan2000	23:05	26.4	85.7	72.2	80.0	64.0
01Jan2000	23:10	26.4	85.3	72.2	80.0	64.0

01Jan2000	23:15	26.4	85.0	72.2	80.0	64.0
01Jan2000	23:20	26.4	84.6	72.1	80.0	64.0
01Jan2000	23:25	26.3	84.2	72.1	80.0	64.0
01Jan2000	23:30	26.3	83.8	72.1	80.0	64.0
01Jan2000	23:35	26.3	83.5	72.0	80.0	64.0
01Jan2000	23:40	26.3	83.1	72.0	80.0	64.0
01Jan2000	23:45	26.3	82.7	72.0	80.0	64.0
01Jan2000	23:50	26.2	82.4	71.9	80.0	64.0
01Jan2000	23:55	26.2	82.0	71.9	80.0	64.0
02Jan2000	00:00	26.2	81.6	71.8	80.0	64.0
02Jan2000	00:05	26.2	81.3	71.8	80.0	64.0
02Jan2000	00:10	26.2	80.9	71.8	80.0	64.0
02Jan2000	00:15	26.1	80.5	71.7	80.0	64.0
02Jan2000	00:20	26.1	80.1	71.7	80.0	64.0
02Jan2000	00:25	26.1	79.8	71.7	80.0	64.0
02Jan2000	00:30	26.1	79.4	71.6	80.0	64.0
02Jan2000	00:35	26.1	79.0	71.6	80.0	64.0
02Jan2000	00:40	26.0	78.7	71.5	80.0	64.0
02Jan2000	00:45	26.0	78.3	71.5	80.0	64.0
02Jan2000	00:50	26.0	77.9	71.5	80.0	64.0
02Jan2000	00:55	26.0	77.5	71.4	80.0	64.0
02Jan2000	01:00	26.0	77.2	71.4	80.0	64.0
02Jan2000	01:05	26.0	76.8	71.4	80.0	64.0
02Jan2000	01:10	26.0	76.4	71.3	80.0	64.0
02Jan2000	01:15	25.9	76.0	71.3	80.0	64.0
02Jan2000	01:20	25.9	75.7	71.2	80.0	64.0
02Jan2000	01:25	25.9	75.3	71.2	80.0	64.0
02Jan2000	01:30	25.9	74.9	71.2	80.0	64.0
02Jan2000	01:35	25.9	74.6	71.1	80.0	64.0
02Jan2000	01:40	25.9	74.2	71.1	80.0	64.0
02Jan2000	01:45	25.9	73.8	71.1	80.0	64.0

02Jan2000	01:50	25.8	73.4	71.0	80.0	64.0
02Jan2000	01:55	25.8	73.1	71.0	80.0	64.0
02Jan2000	02:00	25.8	72.7	71.0	80.0	64.0
02Jan2000	02:05	25.8	72.3	70.9	80.0	64.0
02Jan2000	02:10	25.8	71.9	70.9	80.0	64.0
02Jan2000	02:15	25.8	71.6	70.8	80.0	64.0
02Jan2000	02:20	25.8	71.2	70.8	80.0	64.0
02Jan2000	02:25	25.8	70.8	70.8	80.0	64.0
02Jan2000	02:30	25.8	70.5	70.7	80.0	64.0
02Jan2000	02:35	25.7	70.1	70.7	80.0	64.0
02Jan2000	02:40	25.7	69.7	70.7	80.0	64.0
02Jan2000	02:45	25.7	69.3	70.6	80.0	64.0
02Jan2000	02:50	25.7	69.0	70.6	80.0	64.0
02Jan2000	02:55	25.7	68.6	70.5	80.0	64.0
02Jan2000	03:00	25.7	68.2	70.5	80.0	64.0
02Jan2000	03:05	25.7	67.8	70.5	80.0	64.0
02Jan2000	03:10	25.7	67.5	70.4	80.0	64.0
02Jan2000	03:15	25.7	67.1	70.4	80.0	64.0
02Jan2000	03:20	25.7	66.7	70.4	80.0	64.0
02Jan2000	03:25	25.7	66.3	70.3	80.0	64.0
02Jan2000	03:30	25.6	66.0	70.3	80.0	64.0
02Jan2000	03:35	25.6	65.6	70.2	80.0	64.0
02Jan2000	03:40	25.6	65.2	70.2	80.0	64.0
02Jan2000	03:45	25.6	64.8	70.2	80.0	64.0
02Jan2000	03:50	25.6	64.5	70.1	80.0	64.0
02Jan2000	03:55	25.6	64.1	70.1	80.0	64.0
02Jan2000	04:00	25.6	63.7	70.1	80.0	64.0
02Jan2000	04:05	25.6	63.3	70.0	80.0	64.0
02Jan2000	04:10	25.6	63.0	70.0	80.0	64.0
02Jan2000	04:15	25.6	62.6	69.9	80.0	64.0
02Jan2000	04:20	25.6	62.2	69.9	80.0	64.0

02Jan2000	04:25	25.6	61.8	69.9	80.0	64.0
02Jan2000	04:30	25.6	61.5	69.8	80.0	64.0
02Jan2000	04:35	25.5	61.1	69.8	80.0	64.0
02Jan2000	04:40	25.5	60.7	69.8	80.0	64.0
02Jan2000	04:45	25.5	60.3	69.7	80.0	64.0
02Jan2000	04:50	25.5	60.0	69.7	80.0	64.0
02Jan2000	04:55	25.5	59.6	69.6	80.0	64.0
02Jan2000	05:00	25.5	59.2	69.6	80.0	64.0
02Jan2000	05:05	25.5	58.8	69.6	80.0	64.0
02Jan2000	05:10	25.5	58.5	69.5	80.0	64.0
02Jan2000	05:15	25.5	58.1	69.5	80.0	64.0
02Jan2000	05:20	25.5	57.7	69.5	80.0	64.0
02Jan2000	05:25	25.5	57.3	69.4	80.0	64.0
02Jan2000	05:30	25.5	57.0	69.4	80.0	64.0
02Jan2000	05:35	25.5	56.6	69.3	80.0	64.0
02Jan2000	05:40	25.5	56.2	69.3	80.0	64.0
02Jan2000	05:45	25.5	55.8	69.3	80.0	64.0
02Jan2000	05:50	25.5	55.5	69.2	80.0	64.0
02Jan2000	05:55	25.5	55.1	69.2	80.0	64.0
02Jan2000	06:00	25.4	54.7	69.2	80.0	64.0
02Jan2000	06:05	25.4	54.3	69.1	80.0	64.0
02Jan2000	06:10	25.4	54.0	69.1	80.0	64.0
02Jan2000	06:15	25.4	53.6	69.0	80.0	64.0
02Jan2000	06:20	25.4	53.2	69.0	80.0	64.0
02Jan2000	06:25	25.4	52.8	69.0	80.0	64.0
02Jan2000	06:30	25.4	52.5	68.9	80.0	64.0
02Jan2000	06:35	25.4	52.1	68.9	80.0	64.0
02Jan2000	06:40	25.4	51.7	68.9	80.0	64.0
02Jan2000	06:45	25.4	51.3	68.8	80.0	64.0
02Jan2000	06:50	25.4	51.0	68.8	80.0	64.0
02Jan2000	06:55	25.4	50.6	68.7	80.0	64.0

02Jan2000	07:00	25.4	50.2	68.7	80.0	64.0
02Jan2000	07:05	25.4	49.8	68.7	80.0	64.0
02Jan2000	07:10	25.4	49.5	68.6	80.0	64.0
02Jan2000	07:15	25.4	49.1	68.6	80.0	64.0
02Jan2000	07:20	25.4	48.7	68.6	80.0	64.0
02Jan2000	07:25	25.4	48.3	68.5	80.0	64.0
02Jan2000	07:30	25.4	47.9	68.5	80.0	64.0
02Jan2000	07:35	25.4	47.6	68.4	80.0	64.0
02Jan2000	07:40	25.4	47.2	68.4	80.0	64.0
02Jan2000	07:45	25.4	46.8	68.4	80.0	64.0
02Jan2000	07:50	25.4	46.4	68.3	80.0	64.0
02Jan2000	07:55	25.3	46.1	68.3	80.0	64.0
02Jan2000	08:00	25.3	45.7	68.3	80.0	64.0
02Jan2000	08:05	25.3	45.3	68.2	80.0	64.0
02Jan2000	08:10	25.3	44.9	68.2	80.0	64.0
02Jan2000	08:15	25.3	44.6	68.1	80.0	64.0
02Jan2000	08:20	25.3	44.2	68.1	80.0	64.0
02Jan2000	08:25	25.3	43.8	68.1	80.0	64.0
02Jan2000	08:30	25.3	43.4	68.0	80.0	64.0
02Jan2000	08:35	25.3	43.1	68.0	80.0	64.0
02Jan2000	08:40	25.3	42.7	68.0	80.0	64.0
02Jan2000	08:45	25.3	42.3	67.9	80.0	64.0
02Jan2000	08:50	25.3	41.9	67.9	80.0	64.0
02Jan2000	08:55	25.3	41.5	67.8	80.0	64.0
02Jan2000	09:00	25.3	41.2	67.8	80.0	64.0
02Jan2000	09:05	25.3	40.8	67.8	80.0	64.0
02Jan2000	09:10	25.3	40.4	67.7	80.0	64.0
02Jan2000	09:15	25.3	40.0	67.7	80.0	64.0
02Jan2000	09:20	25.3	39.7	67.7	80.0	64.0
02Jan2000	09:25	25.3	39.3	67.6	80.0	64.0
02Jan2000	09:30	25.3	38.9	67.6	80.0	64.0

02Jan2000	09:35	25.3	38.5	67.5	80.0	64.0
02Jan2000	09:40	25.3	38.2	67.5	80.0	64.0
02Jan2000	09:45	25.3	37.8	67.5	80.0	64.0
02Jan2000	09:50	25.3	37.4	67.4	80.0	64.0
02Jan2000	09:55	25.3	37.0	67.4	80.0	64.0
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02Jan2000	10:10	25.3	35.9	67.3	80.0	64.0
02Jan2000	10:15	25.3	35.5	67.2	80.0	64.0
02Jan2000	10:20	25.3	35.1	67.2	80.0	64.0
02Jan2000	10:25	25.3	34.8	67.2	80.0	64.0
02Jan2000	10:30	25.3	34.4	67.1	80.0	64.0
02Jan2000	10:35	25.3	34.0	67.1	80.0	64.0
02Jan2000	10:40	25.3	33.6	67.1	80.0	64.0
02Jan2000	10:45	25.3	33.3	67.0	80.0	64.0
02Jan2000	10:50	25.2	32.9	67.0	80.0	64.0
02Jan2000	10:55	25.2	32.5	66.9	80.0	64.0
02Jan2000	11:00	25.2	32.1	66.9	80.0	64.0
02Jan2000	11:05	25.2	31.7	66.9	80.0	64.0
02Jan2000	11:10	25.2	31.4	66.8	80.0	64.0
02Jan2000	11:15	25.2	31.0	66.8	80.0	64.0
02Jan2000	11:20	25.2	30.6	66.7	80.0	64.0
02Jan2000	11:25	25.2	30.2	66.7	80.0	64.0
02Jan2000	11:30	25.2	29.9	66.7	80.0	64.0
02Jan2000	11:35	25.2	29.5	66.6	80.0	64.0
02Jan2000	11:40	25.2	29.1	66.6	80.0	64.0
02Jan2000	11:45	25.2	28.7	66.6	80.0	64.0
02Jan2000	11:50	25.2	28.4	66.5	80.0	64.0
02Jan2000	11:55	25.2	28.0	66.5	80.0	64.0
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02Jan2000	12:05	25.2	27.2	66.4	80.0	64.0

02Jan2000	12:10	25.2	26.8	66.4	80.0	64.0
02Jan2000	12:15	25.2	26.5	66.3	80.0	64.0
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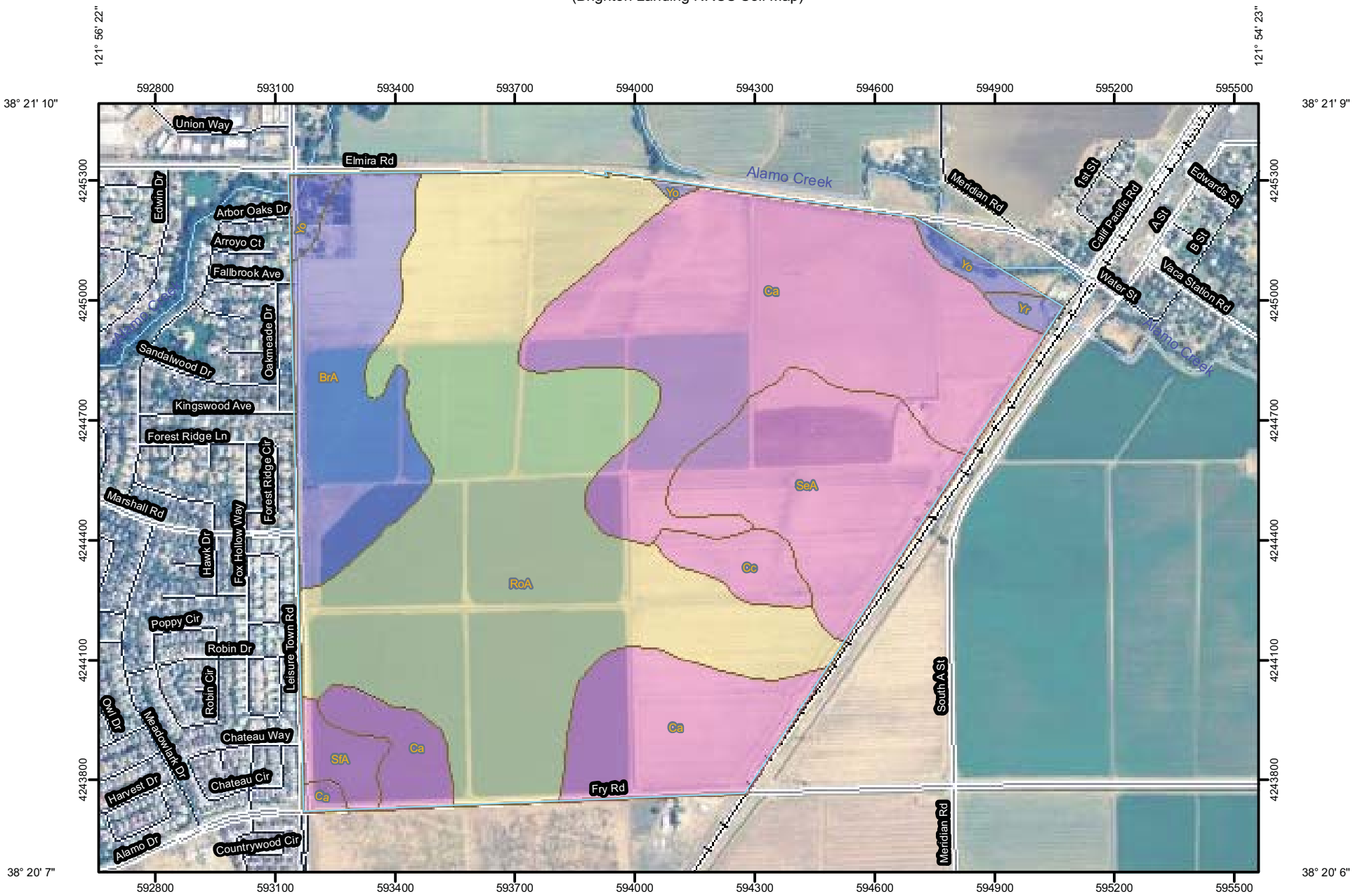
02Jan2000	12:25	25.2	25.7	66.3	80.0	64.0
02Jan2000	12:30	25.2	25.3	66.2	80.0	64.0
02Jan2000	12:35	25.2	25.0	66.2	80.0	64.0
02Jan2000	12:40	25.2	24.6	66.1	80.0	64.0
02Jan2000	12:45	25.2	24.2	66.1	80.0	64.0
02Jan2000	12:50	25.2	23.8	66.1	80.0	64.0
02Jan2000	12:55	25.2	23.4	66.0	80.0	64.0
02Jan2000	13:00	25.2	23.1	66.0	80.0	64.0
02Jan2000	13:05	25.2	22.7	66.0	80.0	64.0
02Jan2000	13:10	25.2	22.3	65.9	80.0	64.0
02Jan2000	13:15	25.2	21.9	65.9	80.0	64.0
02Jan2000	13:20	25.2	21.6	65.8	80.0	64.0
02Jan2000	13:25	25.2	21.2	65.8	80.0	64.0
02Jan2000	13:30	25.2	20.8	65.8	80.0	64.0
02Jan2000	13:35	25.2	20.4	65.7	80.0	64.0
02Jan2000	13:40	25.2	20.0	65.7	80.0	64.0
02Jan2000	13:45	25.2	19.7	65.7	80.0	64.0
02Jan2000	13:50	25.2	19.3	65.6	80.0	64.0
02Jan2000	13:55	25.2	18.9	65.6	80.0	64.0
02Jan2000	14:00	25.2	18.5	65.5	80.0	64.0
02Jan2000	14:05	25.2	18.2	65.5	80.0	64.0
02Jan2000	14:10	25.2	17.8	65.5	80.0	64.0
02Jan2000	14:15	25.2	17.4	65.4	80.0	64.0
02Jan2000	14:20	25.2	17.0	65.4	80.0	64.0
02Jan2000	14:25	25.2	16.7	65.4	80.0	64.0
02Jan2000	14:30	25.2	16.3	65.3	80.0	64.0
02Jan2000	14:35	25.2	15.9	65.3	80.0	64.0
02Jan2000	14:40	25.2	15.5	65.2	80.0	64.0

02Jan2000	14:45	25.2	15.1	65.2	80.0	64.0
02Jan2000	14:50	25.2	14.8	65.2	80.0	64.0
02Jan2000	14:55	25.2	14.4	65.1	80.0	64.0
02Jan2000	15:00	25.2	14.0	65.1	80.0	64.0
02Jan2000	15:05	25.2	13.6	65.1	80.0	64.0
02Jan2000	15:10	25.2	13.3	65.0	80.0	64.0
02Jan2000	15:15	25.2	12.9	65.0	80.0	64.0
02Jan2000	15:20	25.2	12.5	64.9	80.0	64.0
02Jan2000	15:25	25.2	12.1	64.9	80.0	64.0
02Jan2000	15:30	25.2	11.7	64.9	80.0	64.0
02Jan2000	15:35	25.2	11.4	64.8	80.0	64.0
02Jan2000	15:40	25.2	11.0	64.8	80.0	64.0
02Jan2000	15:45	25.2	10.6	64.8	80.0	64.0
02Jan2000	15:50	25.2	10.2	64.7	80.0	64.0
02Jan2000	15:55	25.2	9.9	64.7	80.0	64.0
02Jan2000	16:00	25.2	9.5	64.6	80.0	64.0
02Jan2000	16:05	25.1	9.1	64.6	80.0	64.0
02Jan2000	16:10	25.1	8.7	64.6	80.0	64.0
02Jan2000	16:15	25.1	8.3	64.5	80.0	64.0
02Jan2000	16:20	25.1	8.0	64.5	80.0	64.0
02Jan2000	16:25	25.1	7.6	64.4	80.0	64.0
02Jan2000	16:30	25.1	7.2	64.4	80.0	64.0
02Jan2000	16:35	25.1	6.8	64.4	80.0	64.0
02Jan2000	16:40	25.1	6.5	64.3	80.0	64.0
02Jan2000	16:45	25.1	6.1	64.3	80.0	64.0
02Jan2000	16:50	25.1	5.7	64.3	80.0	64.0
02Jan2000	16:55	25.1	5.3	64.2	80.0	64.0
02Jan2000	17:00	25.1	4.9	64.2	80.0	64.0
02Jan2000	17:05	25.1	4.6	64.1	80.0	64.0
02Jan2000	17:10	25.1	4.2	64.1	80.0	64.0
02Jan2000	17:15	25.1	3.8	64.1	80.0	64.0

Hydrologic Soil Group—Solano County, California
(Brighton Landing NRCS Soil Map)



Map Scale: 1:13,800 if printed on A size (8.5" x 11") sheet.

N

Meters: 0 150 300 600 900

Feet: 0 500 1,000 2,000 3,000

MAP LEGEND

Area of Interest (AOI)

Area of Interest (AOI)

Soils

Soil Map Units

Soil Ratings

A

A/D

B

B/D

C

C/D

D

Not rated or not available

Political Features

Cities

Water Features

Streams and Canals

Transportation

Rails

Interstate Highways

US Routes

Major Roads

Local Roads

MAP INFORMATION

Map Scale: 1:13,800 if printed on A size (8.5" × 11") sheet.

The soil surveys that comprise your AOI were mapped at 1:24,000.

Please rely on the bar scale on each map sheet for accurate map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL: http://websoilsurvey.nrcs.usda.gov
Coordinate System: UTM Zone 10N NAD83

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Solano County, California
Survey Area Data: Version 5, Dec 12, 2007

Date(s) aerial images were photographed: 6/30/2005

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Hydrologic Soil Group

Hydrologic Soil Group— Summary by Map Unit — Solano County, California (CA095)				
Map unit symbol	**Map unit name**	**Rating**	**Acres in AOI**	**Percent of AOI**
BrA	Brentwood clay loam, 0 to 2 percent slopes	B	62.2	10.5%
Ca	Capay silty clay loam	D	200.6	33.9%
Cc	Capay clay	D	11.6	2.0%
RoA	Rincon clay loam, 0 to 2 percent slope	C	232.7	39.3%
SeA	San Ysidro sandy loam, 0 to 2 percent slopes	D	63.9	10.8%
SfA	San Ysidro sandy loam, thick surface , 0 to 2 percent slopes	D	8.7	1.5%
Yo	Yolo loam	B	9.8	1.7%
Yr	Yolo loam, clay substratum	B	3.2	0.5%
Totals for Area of Interest			**592.7**	**100.0%**

Description

Hydrologic soil groups are based on estimates of runoff potential. Soils are assigned to one of four groups according to the rate of water infiltration when the soils are not protected by vegetation, are thoroughly wet, and receive precipitation from long-duration storms.

The soils in the United States are assigned to four groups (A, B, C, and D) and three dual classes (A/D, B/D, and C/D). The groups are defined as follows:

Group A. Soils having a high infiltration rate (low runoff potential) when thoroughly wet. These consist mainly of deep, well drained to excessively drained sands or gravelly sands. These soils have a high rate of water transmission.

Group B. Soils having a moderate infiltration rate when thoroughly wet. These consist chiefly of moderately deep or deep, moderately well drained or well drained soils that have moderately fine texture to moderately coarse texture. These soils have a moderate rate of water transmission.

Group C. Soils having a slow infiltration rate when thoroughly wet. These consist chiefly of soils having a layer that impedes the downward movement of water or soils of moderately fine texture or fine texture. These soils have a slow rate of water transmission.

Group D. Soils having a very slow infiltration rate (high runoff potential) when thoroughly wet. These consist chiefly of clays that have a high shrink-swell potential, soils that have a high water table, soils that have a claypan or clay layer at or near the surface, and soils that are shallow over nearly impervious material. These soils have a very slow rate of water transmission.

If a soil is assigned to a dual hydrologic group (A/D, B/D, or C/D), the first letter is for drained areas and the second is for undrained areas. Only the soils that in their natural condition are in group D are assigned to dual classes.

Rating Options

Aggregation Method: Dominant Condition

Component Percent Cutoff: *None Specified*

Tie-break Rule: Higher