Core Goals / Related Projects and Project Status

Core Goal: 1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

				Target	Planned		Actual		
Project ID	**Project Name**	**Project Leader**	**Stage**	**Build**	**Start:**	**End:**	**Start**	**End**	**Project Disposition**
P-2005-03	High-Resolution Precipitation Estimator (HPE)	Kitzmiller, David	5	Build: OB8.3	5/30/2008	9/5/2008	6/2/2008		Awaiting deployment

Core Goal	**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐

				Target	Planned		Actual		
P-2005-04	Radar Based Probabilistic Quantitative Precipitation Estimates (PQPE)	Kitzmiller, David	2	Build: .	2/23/2005	4/6/2005			Idle

Core Goal	**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
8. Quantify the uncertainty of our forecast information	1 - Blue	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

				Target	Planned		Actual		
P-2005-06	Dual-Polarization Radar Precip Estimates	Stein, Daniel	4	Build: XRAD	6/20/2007	10/6/2009			On-track or active

Core Goal	**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑

				Target	Planned		Actual		
P-2005-08	Next-Generation Multisensor Quantitative Precipitation Analysis (NMQ)	Kitzmiller, David	2	Build: .	7/3/2008	8/1/2008			On-track or active

Core Goal	**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Core Goals / Related Projects and Project Status

Core Goal: 1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-18	Data Assimilator for Research Dist. Hydrologic Model (RDHM)	Lee, Haksu	3	Build: .	7/31/2006	2/15/2008	7/1/2007		On-track or active

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-31	Daily QC into MPE	Lawrence, Bryon	5	Build: OB8.1	5/30/2008	9/5/2008			Awaiting deployment

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-35	High Resolution Precipitation Nowcaster (HPN)	Kitzmiller, David	4	Build: OB9	3/18/2008	9/30/2008	3/18/2008		On-track or active

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-36	Snow Modeling - Data Quality Research	Smith, Michael	2	Build: .	3/23/2007	4/18/2007	10/1/2007		Sr. Scientist Review

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

Core Goals / Related Projects and Project Status

Core Goal: 1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-38	Extrapolative Statistical Rainfall QPF 0-3 Hour Prediction	Kitzmiller, David	2	Build: .	12/14/2005				Idle

Core Goal			**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.			2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow			2 - Green	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-39	NWSRFS Gridded Temperature Forecast Input	Kitzmiller, David	1	Build: .	3/21/2005	4/6/2005			Idle

Core Goal			**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.			2 - Green	☑
10. Provide, then improve, gridded water resource data production capability			1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2006-01	Test Improvements to QPE in the TAR River Basin	Van Cooten, Suzanne	3	Build: .	1/10/2007	9/27/2007	1/10/2007		On-track or active

Core Goal			**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.			2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow			2 - Green	☐
21. Define and coordinate Hydrology Program requirements with other NOAA programs (conductive external project)			2 - Green	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-03	Dual-Polarization Solutions to Partial Radar Beam Blockage	Miller, Dennis	3	Build: .	6/4/2008	8/15/2008			On-track or active

Core Goal			**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.			1 - Blue	☑

Core Goals / Related Projects and Project Status

Core Goal: 1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-04	High Resolution Radar Precipitation Evaluation	Miller, Dennis	3	Build: .	8/1/2007	8/20/2008			On-track or active

Core Goal
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

Priority 1 - Blue   **Primary?** ☑

P-2008-05	Test Space-Based Radar Calibrated (GOES) Precipitation Impacts on Streamflow Forecasting	Zhang, Yu	3	Build: .	6/30/2007	8/30/2010	6/30/2007		On-track or active

Core Goal
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

Priority 1 - Blue   **Primary?** ☑

P-2008-07	Develop Requirements for Adding Wind Modeling Capabilities into HEC-RAS	Mashriqui, Hassan	2	Build: .	6/4/2008	8/30/2008	9/12/2008		On-track or active

Core Goal
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

Priority 1 - Blue   **Primary?** ☑

P-2008-09	2 Dimensional Modeling of River-Estuary-Ocean Interactions to Enhance Operational River Forecasting	Mashriqui, Hassan Hassan	2	Build: .	7/29/2008	9/30/2008	9/8/2008		On-track or active

Core Goal
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

Priority 1 - Blue   **Primary?** ☑

Core Goals / Related Projects and Project Status

Core Goal: 1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.

| | | | | Target | Planned | | Actual | | |
| | | | | **Build** | | | | | |
Project ID	**Project Name**	**Project Leader**	**Stage**		**Start:**	**End:**	**Start**	**End**	**Project Disposition**
P-2008-10	Update the High Resolution Precipitation Estimator (HPE) to use Dual-Polarization Products	Fresch, Mark	1	Build: .	9/2/2008	9/30/2008	9/2/2008		Gate Pending

Core Goal	**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐

Core Goals / Related Projects and Project Status

Core Goal: 2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)

Project ID	Project Name	Project Leader	Stage		Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-11	Interactive Calibration Program (ICP) Replacement	Vo, Ai	5	Build:	OB8.3	1/8/2008	6/15/2008	1/8/2008		Awaiting deployment

Core Goal   **Priority**   **Primary?**

2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)   3 - Yellow   ☐

13. Software refresh – enhance the usability and/or internal workings of existing software   1 - Blue   ☑

| P-2005-12 | Data Quality Model Calibration - IDMA | Smith, Michael | 2 | Build: | . | 3/16/2005 | | 3/16/2005 | | On-hold |

Core Goal   **Priority**   **Primary?**

2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)   3 - Yellow   ☑

| P-2005-13 | Snow Modeling Intercomparison II (Snow MIP II) | Smith, Michael | 2 | Build: | . | 3/23/2007 | 4/18/2007 | 3/23/2007 | | Waiting for input |

Core Goal   **Priority**   **Primary?**

2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)   3 - Yellow   ☐

10. Provide, then improve, gridded water resource data production capability   1 - Blue   ☑

| P-2005-15 | Distributed Model Intercomparison Project (DMIP) 2 | Smith, Michael | 3 | Build: | . | 11/15/2006 | 1/15/2008 | | | Waiting for input |

Core Goal   **Priority**   **Primary?**

2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)   3 - Yellow   ☐

3. Improve forecasts of fast response hydrologic events including debris flow   2 - Green   ☐

10. Provide, then improve, gridded water resource data production capability   1 - Blue   ☑

Core Goals / Related Projects and Project Status

Core Goal: 2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)

| | | | | Target | | Planned | | Actual | | |
| | | | | Build | | Start: | End: | Start | End | |
Project ID	**Project Name**	**Project Leader**	**Stage**							**Project Disposition**
P-2005-18	Data Assimilator for Research Dist. Hydrologic Model (RDHM)	Lee, Haksu	3	Build:	.	7/31/2006	2/15/2008	7/1/2007		On-track or active

Core Goal   **Priority**   **Primary?**

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

P-2005-22	VAR Verification, Validation & Enhancement	Seo, DongJun	3	Build:	.	9/26/2005	11/30/2007	9/26/2005		Re-work Requested

Core Goal	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
8. Quantify the uncertainty of our forecast information	1 - Blue	☑
16. Verify our forecast and uncertainty information	1 - Blue	☐

P-2005-36	Snow Modeling - Data Quality Research	Smith, Michael	2	Build:	.	3/23/2007	4/18/2007	10/1/2007		Sr. Scientist Review

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

Core Goals / Related Projects and Project Status

Core Goal: 2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)

				Target	Planned		Actual		
Project ID	**Project Name**	**Project Leader**	**Stage**	**Build**	**Start:**	**End:**	**Start**	**End**	**Project Disposition**
P-2007-10	Change HL-RDHM to Interpolate Inputs	Smith, Michael	2	Build: .	4/17/2007	6/16/2007			On-track or active

Core Goal

	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

P-2007-16	Modify HL-RDHM to Generate Lateral Inflows for FLDWAV	Smith, Michael	2	Build: .	10/1/2007	11/23/2007			On-hold

Core Goal

	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☑

P-2007-23	Lumped and Distributed Model Parameterization	Smith, Michael	3	Build: .	5/26/2007	5/30/2008	11/1/2007		On-track or active

Core Goal

	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

P-2008-01	Operational Distributed Hydrologic Modeling (DHM) Build 1 (Phase 3)	Vo, Ai	5	Build: OB8.3	5/30/2008	9/5/2008			Awaiting deployment

Core Goal

	Priority	Primary?
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑
13. Software refresh – enhance the usability and/or internal workings of existing software	1 - Blue	☐
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐

Core Goals / Related Projects and Project Status

Core Goal: 3. Improve forecasts of fast response hydrologic events including debris flow

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-03	High-Resolution Precipitation Estimator (HPE)	Kitzmiller, David	5	Build: OB8.3	5/30/2008	9/5/2008	6/2/2008		Awaiting deployment

Core Goal

	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-15	Distributed Model Intercomparison Project (DMIP) 2	Smith, Michael	3	Build: .	11/15/2006	1/15/2008			Waiting for input

Core Goal

	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-23	Implementation of VAR into Site Specific Hydrologic Predictor (SSHP)	Gobs, Chip	3	Build: OB9	7/11/2007	11/21/2007	7/11/2007		Re-work Requested

Core Goal

	Priority	Primary?
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-27	Evaluation of Hydrologic Forecasts in Puerto Rico based on the use of USGS	Smith, Michael	2	Build: .	12/28/2005	1/30/2006	1/18/2006		Idle

Core Goal

	Priority	Primary?
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☑

Core Goals / Related Projects and Project Status

Core Goal: 3. Improve forecasts of fast response hydrologic events including debris flow

Project ID	Project Name	Project Leader	Stage		Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-35	High Resolution Precipitation Nowcaster (HPN)	Kitzmiller, David	4	Build:	OB9	3/18/2008	9/30/2008	3/18/2008		On-track or active

Core Goal | | | **Priority** | **Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

| P-2005-38 | Extrapolative Statistical Rainfall QPF 0-3 Hour Prediction | Kitzmiller, David | 2 | Build: | . | 12/14/2005 | | | | Idle |

Core Goal | | | **Priority** | **Primary?**
| 1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc. | 2 - Green | ☑ |
| 3. Improve forecasts of fast response hydrologic events including debris flow | 2 - Green | ☐ |

| P-2006-01 | Test Improvements to QPE in the TAR River Basin | Van Cooten, Suzanne | 3 | Build: | . | 1/10/2007 | 9/27/2007 | 1/10/2007 | | On-track or active |

Core Goal | | | **Priority** | **Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
21. Define and coordinate Hydrology Program requirements with other NOAA programs (conductive external project)	2 - Green	☐

| P-2006-15 | Flash Flood Monitoring and Prediction (FFMP) - Advance Design | Mullusky, Mary | 4 | Build: | OB8.3 | 1/2/2008 | 4/2/2008 | | | On-track or active |

Core Goal | | | **Priority** | **Primary?**
| 3. Improve forecasts of fast response hydrologic events including debris flow | 2 - Green | ☑ |

Core Goals / Related Projects and Project Status

Core Goal: 3. Improve forecasts of fast response hydrologic events including debris flow

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-01	Operational Distributed Hydrologic Modeling (DHM) Build 1 (Phase 3)	Vo, Ai	5	Build: OB8.3	5/30/2008	9/5/2008			Awaiting deployment

Core Goal	**Priority**	**Primary?**
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑
13. Software refresh – enhance the usability and/or internal workings of existing software	1 - Blue	☐
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-10	Update the High Resolution Precipitation Estimator (HPE) to use Dual-Polarization Products	Fresch, Mark	1	Build: .	9/2/2008	9/30/2008	9/2/2008		Gate Pending

Core Goal	**Priority**	**Primary?**
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐

Core Goals / Related Projects and Project Status

Core Goal: 4. Improve forecasts based on the effect of dam failures

					Target	Planned		Actual		
Project ID	**Project Name**	**Project Leader**	**Stage**		**Build**	**Start:**	**End:**	**Start**	**End**	**Project Disposition**
P-2008-08	Develop Improved Guidance for Dam Break Forecasting	Moreda, Fekadu	2	Build:	.	3/15/2008	9/30/2008			On-track or active

Core Goal   **Priority** **Primary?**

4. Improve forecasts based on the effect of dam failures   3 - Yellow   ☑

Core Goals / Related Projects and Project Status

Core Goal: 5. Improve hydrologic forecasts impacted by reservoirs and regulation (outsource)

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-34	NWSRFS Reservoir Tools Enhancement	Hsu, Kuang-shen	5	Build: OB8.3	1/8/2008	6/15/2008	1/8/2008		Awaiting deployment

Core Goal

	Priority	Primary?
5. Improve hydrologic forecasts impacted by reservoirs and regulation (outsource)	1 - Blue	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-04	Integration of HEC ResSim Model into NWSRFS	Hsu, Kuang-shen	4	Build: .	3/27/2007	10/1/2007	3/27/2007	5/14/2008	Conditional Approval

Core Goal

	Priority	Primary?
5. Improve hydrologic forecasts impacted by reservoirs and regulation (outsource)	1 - Blue	☐
13. Software refresh – enhance the usability and/or internal workings of existing software	1 - Blue	☑

Core Goals / Related Projects and Project Status

Core Goal: 6. Improve the routing techniques used to connect forecast locations (includes coastal effects) - Hydraulics Models

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-26	Simple Hydraulic Routing Technique (SHRT)	Reed, Seann	3	Build: .	9/29/2005	9/30/2005			On-hold

Core Goal

	Priority	Primary?
6. Improve the routing techniques used to connect forecast locations (includes coastal effects) - Hydraulics Models	2 - Green	☑
7. Improve flood forecast inundation maps	3 - Yellow	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-07	Deriving Improved & Higher Resolution Slope & Flow Direction Grids for DHM	Reed, Seann	2	Build: .	11/13/2007				On-hold

Core Goal

	Priority	Primary?
6. Improve the routing techniques used to connect forecast locations (includes coastal effects) - Hydraulics Models	2 - Green	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-21	Transition from FLDWAV to HEC-RAS; Forecast Implications & Transition Tools	Gutierrez, Angelica	3	Build: .	5/21/2008	8/15/2009			On-track or active

Core Goal

	Priority	Primary?
6. Improve the routing techniques used to connect forecast locations (includes coastal effects) - Hydraulics Models	2 - Green	☑

Core Goals / Related Projects and Project Status

Core Goal: 7. Improve flood forecast inundation maps

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-26	Simple Hydraulic Routing Technique (SHRT)	Reed, Seann	3	Build: .	9/29/2005	9/30/2005			On-hold

Core Goal   **Priority**   **Primary?**

6. Improve the routing techniques used to connect forecast locations (includes coastal effects) - Hydraulics Models   2 - Green   ☑

7. Improve flood forecast inundation maps   3 - Yellow   ☐

| P-2007-08 | Dynamic Inundation Mapping Evaluation | Reed, Seann | 3 | Build: . | 10/1/2006 | 11/30/2007 | | | Sr. Scientist Review |

Core Goal   **Priority**   **Primary?**

7. Improve flood forecast inundation maps   3 - Yellow   ☑

| P-2008-11 | Develop Database of NWS Forecast Point Characteristics for Hydraulic Model & Inundation Mapping | Aschwanden, Cecil | 2 | Build: . | 6/1/2008 | 10/8/2008 | | | On-track or active |

Core Goal   **Priority**   **Primary?**

7. Improve flood forecast inundation maps   3 - Yellow   ☑

Core Goals / Related Projects and Project Status

Core Goal: 8. Quantify the uncertainty of our forecast information

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-04	Radar Based Probabilistic Quantitative Precipitation Estimates (PQPE)	Kitzmiller, David	2	Build: .	2/23/2005	4/6/2005			Idle

Core Goal | | | | | | | | | **Priority** / **Primary?**

1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc. — 2 - Green ☑

8. Quantify the uncertainty of our forecast information — 1 - Blue ☐

10. Provide, then improve, gridded water resource data production capability — 1 - Blue ☐

P-2005-05	Ensemble Post Processor Evaluation	Regonda, Satish	3	Build: .	12/12/2006	12/31/2007			On-track or active

Core Goal | | | | | | | | | **Priority** / **Primary?**

8. Quantify the uncertainty of our forecast information — 1 - Blue ☑

13. Software refresh – enhance the usability and/or internal workings of existing software — 1 - Blue ☐

P-2005-19	Hydrologic Ensemble Hindcaster	Demargne, Julie	3	Build: .	9/15/2005	7/31/2007	9/15/2005	7/9/2008	Conditional Approval

Core Goal | | | | | | | | | **Priority** / **Primary?**

8. Quantify the uncertainty of our forecast information — 1 - Blue ☑

16. Verify our forecast and uncertainty information — 1 - Blue ☐

P-2005-20	Hydrologic Ensemble Preprocessor II	Wu, Limin	3	Build: KEFS-1	8/24/2005	9/29/2007	8/24/2005		On-track or active

Core Goal | | | | | | | | | **Priority** / **Primary?**

8. Quantify the uncertainty of our forecast information — 1 - Blue ☑

Core Goals / Related Projects and Project Status

Core Goal: 8. Quantify the uncertainty of our forecast information

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-22	VAR Verification, Validation & Enhancement	Seo, DongJun	3	Build: .	9/26/2005	11/30/2007	9/26/2005		Re-work Requested

Core Goal

	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
8. Quantify the uncertainty of our forecast information	1 - Blue	☑
16. Verify our forecast and uncertainty information	1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-30	Ensemble Preprocessor for Global Forecasting System (GFS)	Schaake, John	3	Build: XEFS-1	7/27/2005	9/24/2005	9/24/2005		Waiting for input

Core Goal

	Priority	Primary?
8. Quantify the uncertainty of our forecast information	1 - Blue	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2006-10	Hydrologic Ensemble Preprocessor 3	Schaake, John	1	Build: XEFS-1	12/5/2005	2/20/2006	12/5/2005		Waiting for input

Core Goal

	Priority	Primary?
8. Quantify the uncertainty of our forecast information	1 - Blue	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-19	Experimental Ensemble Forecast System (XEFS)	Dietz, Christine	1	Build: .	7/19/2007	8/10/2007			Waiting for input

Core Goal

	Priority	Primary?
8. Quantify the uncertainty of our forecast information	1 - Blue	☑

Core Goals / Related Projects and Project Status

Core Goal: 10. Provide, then improve, gridded water resource data production capability

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-04	Radar Based Probabilistic Quantitative Precipitation Estimates (PQPE)	Kitzmiller, David	2	Build: .	2/23/2005	4/6/2005			Idle

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
8. Quantify the uncertainty of our forecast information	1 - Blue	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-08	Next-Generation Multisensor Quantitative Precipitation Analysis (NMQ)	Kitzmiller, David	2	Build: .	7/3/2008	8/1/2008			On-track or active

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-10	Flash Flood Forecasting - New Distributed Modeling Techniques	Reed, Seann	3	Build: .	11/23/2005	9/30/2008	11/23/2005		Waiting for input

Core Goal	Priority	Primary?
10. Provide, then improve, gridded water resource data production capability	2 - Green	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-13	Snow Modeling Intercomparison II (Snow MIP II)	Smith, Michael	2	Build: .	3/23/2007	4/18/2007	3/23/2007		Waiting for input

Core Goal	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

Core Goals / Related Projects and Project Status

Core Goal: 10. Provide, then improve, gridded water resource data production capability

					Target	Planned		Actual		
Project ID	**Project Name**	**Project Leader**	**Stage**		**Build**	**Start:**	**End:**	**Start**	**End**	**Project Disposition**
P-2005-15	Distributed Model Intercomparison Project (DMIP) 2	Smith, Michael	3	Build:	.	11/15/2006	1/15/2008			Waiting for input

Core Goal   **Priority**   **Primary?**

Core Goal	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

P-2005-18	Data Assimilator for Research Dist. Hydrologic Model (RDHM)	Lee, Haksu	3	Build:	.	7/31/2006	2/15/2008	7/1/2007		On-track or active

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

P-2005-35	High Resolution Precipitation Nowcaster (HPN)	Kitzmiller, David	4	Build:	OB9	3/18/2008	9/30/2008	3/18/2008		On-track or active

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Core Goals / Related Projects and Project Status

Core Goal: 10. Provide, then improve, gridded water resource data production capability

				Target	Planned		Actual		
Project ID	**Project Name**	**Project Leader**	**Stage**	**Build**	**Start:**	**End:**	**Start**	**End**	**Project Disposition**

P-2005-36 Snow Modeling - Data Quality Research Smith, Michael 2 Build: . 3/23/2007 4/18/2007 10/1/2007 **Sr. Scientist Review**

Core Goal

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑

P-2005-39 NWSRFS Gridded Temperature Forecast Input Kitzmiller, David 1 Build: . 3/21/2005 4/6/2005 **Idle**

Core Goal

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

P-2007-07 Deriving Improved & Higher Resolution Slope & Flow Direction Grids for DHM Reed, Seann 2 Build: . 11/13/2007 **On-hold**

Core Goal

Core Goal	Priority	Primary?
6. Improve the routing techniques used to connect forecast locations (includes coastal effects) - Hydraulics Models	2 - Green	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

P-2007-10 Change HL-RDHM to Interpolate Inputs Smith, Michael 2 Build: . 4/17/2007 6/16/2007 **On-track or active**

Core Goal

Core Goal	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Core Goals / Related Projects and Project Status

Core Goal: 10. Provide, then improve, gridded water resource data production capability

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-23	Lumped and Distributed Model Parameterization	Smith, Michael	3	Build: .	5/26/2007	5/30/2008	11/1/2007		On-track or active

Core Goal | | | | | | | | **Priority** | **Primary?**

Core Goal	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☑
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-01	Operational Distributed Hydrologic Modeling (DHM) Build 1 (Phase 3)	Vo, Ai	5	Build: OB8.3	5/30/2008	9/5/2008			Awaiting deployment

Core Goal	Priority	Primary?
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑
13. Software refresh – enhance the usability and/or internal workings of existing software	1 - Blue	☐
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐

Core Goals / Related Projects and Project Status

Core Goal: 13. Software refresh – enhance the usability and/or internal workings of existing software

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-05	Ensemble Post Processor Evaluation	Regonda, Satish	3	Build: .	12/12/2006	12/31/2007			On-track or active

Core Goal

			Priority	Primary?
8. Quantify the uncertainty of our forecast information			1 - Blue	☑
13. Software refresh – enhance the usability and/or internal workings of existing software			1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-11	Interactive Calibration Program (ICP) Replacement	Vo, Ai	5	Build: OB8.3	1/8/2008	6/15/2008	1/8/2008		Awaiting deployment

Core Goal

			Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)			3 - Yellow	☐
13. Software refresh – enhance the usability and/or internal workings of existing software			1 - Blue	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-04	Integration of HEC ResSim Model into NWSRFS	Hsu, Kuang-shen	4	Build: .	3/27/2007	10/1/2007	3/27/2007	5/14/2008	Conditional Approval

Core Goal

			Priority	Primary?
5. Improve hydrologic forecasts impacted by reservoirs and regulation (outsource)			1 - Blue	☐
13. Software refresh – enhance the usability and/or internal workings of existing software			1 - Blue	☑

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-17	Community Hydrologic Prediction System (CHPS)	Dietz, Christine	3	Build: .	5/15/2007	11/20/2007			On-track or active

Core Goal

			Priority	Primary?
13. Software refresh – enhance the usability and/or internal workings of existing software			1 - Blue	☑

Core Goals / Related Projects and Project Status

Core Goal: 13. Software refresh – enhance the usability and/or internal workings of existing software

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-01	Operational Distributed Hydrologic Modeling (DHM) Build 1 (Phase 3)	Vo, Ai	5	Build: OB8.3	5/30/2008	9/5/2008			Awaiting deployment

Core Goal	Priority	Primary?
10. Provide, then improve, gridded water resource data production capability	1 - Blue	☑
13. Software refresh – enhance the usability and/or internal workings of existing software	1 - Blue	☐
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐

Core Goals / Related Projects and Project Status

Core Goal: 15. Archive information required to support the Hydrology Program now and in the future

Project ID	Project Name	Project Leader	Stage		Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2006-13	Synchronize RFC Archive DB with IHFS Database Metadata	Erb, Russ	5	Build:	OB8.3	5/30/2008	9/5/2008			Awaiting deployment

Core Goal
15. Archive information required to support the Hydrology Program now and in the future

Priority	Primary?
2 - Green	☑

Project ID	Project Name	Project Leader	Stage		Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-02	River Forecast Center (RFC) Archive System (RAX) Technology Refresh Initiative	Meyer, Julie	3	Build:	AWIPS	6/10/2008	12/9/2008			On-track or active

Core Goal
15. Archive information required to support the Hydrology Program now and in the future

Priority	Primary?
2 - Green	☑

Core Goals / Related Projects and Project Status

Core Goal: 16. Verify our forecast and uncertainty information

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-19	Hydrologic Ensemble Hindcaster	Demargne, Julie	3	Build: .	9/15/2005	7/31/2007	9/15/2005	7/9/2008	Conditional Approval

Core Goal

	Priority	Primary?
8. Quantify the uncertainty of our forecast information	1 - Blue	☑
16. Verify our forecast and uncertainty information	1 - Blue	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2005-22	VAR Verification, Validation & Enhancement	Seo, DongJun	3	Build: .	9/26/2005	11/30/2007	9/26/2005		Re-work Requested

Core Goal

	Priority	Primary?
2. Improve river forecasts by improving hydrologic models (Note: "river forecasts" include water supply forecasts)	3 - Yellow	☐
8. Quantify the uncertainty of our forecast information	1 - Blue	☑
16. Verify our forecast and uncertainty information	1 - Blue	☐

Core Goals / Related Projects and Project Status

Core Goal: 17. Provide science and software training on Hydrology Program applications throughout the research to operations cycle

				Target	Planned		Actual		
				Build	Start:	End:	Start	End	
Project ID	**Project Name**	**Project Leader**	**Stage**						**Project Disposition**
P-2007-18	Develop HOSIP Training Plan, HOSIP Charts	Andre, Marylin	1	Build: .	11/3/2006				On-track or active

Core Goal	**Priority**	**Primary?**
17. Provide science and software training on Hydrology Program applications throughout the research to operations cycle	3 - Yellow	☑
19. Improve the efficiency and effectiveness of Hydrology Program management, including an understanding of logistical measures	2 - Green	☐

				Target	Planned		Actual		
Project ID	**Project Name**	**Project Leader**	**Stage**	Build	Start	End	Start	End	**Project Disposition**
P-2008-06	HOSIP Web Page Renovation Project	Chen, Ruiming	3	Build: .	3/14/2008	5/16/2008	3/14/2008		On-track or active

Core Goal	**Priority**	**Primary?**
17. Provide science and software training on Hydrology Program applications throughout the research to operations cycle	3 - Yellow	☑
19. Improve the efficiency and effectiveness of Hydrology Program management, including an understanding of logistical measures	2 - Green	☐

Core Goals / Related Projects and Project Status

Core Goal: 19. Improve the efficiency and effectiveness of Hydrology Program management, including an understanding of logistical measures

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2007-18	Develop HOSIP Training Plan, HOSIP Charts	Andre, Marylin	1	Build: .	11/3/2006				On-track or active

Core Goal	**Priority**	**Primary?**
17. Provide science and software training on Hydrology Program applications throughout the research to operations cycle	3 - Yellow	☑
19. Improve the efficiency and effectiveness of Hydrology Program management, including an understanding of logistical measures	2 - Green	☐

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2008-06	HOSIP Web Page Renovation Project	Chen, Ruiming	3	Build: .	3/14/2008	5/16/2008	3/14/2008		On-track or active

Core Goal	**Priority**	**Primary?**
17. Provide science and software training on Hydrology Program applications throughout the research to operations cycle	3 - Yellow	☑
19. Improve the efficiency and effectiveness of Hydrology Program management, including an understanding of logistical measures	2 - Green	☐

Core Goals / Related Projects and Project Status

Core Goal: 21. Define and coordinate Hydrology Program requirements with other NOAA programs (conductive external project)

Project ID	Project Name	Project Leader	Stage	Target Build	Planned Start:	Planned End:	Actual Start	Actual End	Project Disposition
P-2006-01	Test Improvements to QPE in the TAR River Basin	Van Cooten, Suzanne	3	Build: .	1/10/2007	9/27/2007	1/10/2007		On-track or active

Core Goal	Priority	Primary?
1. Improve the quality of physical inputs and forcings, e.g. QPE, QPF, temperature, snow, evapotranspiration, soil conditions, burn data, etc.	2 - Green	☑
3. Improve forecasts of fast response hydrologic events including debris flow	2 - Green	☐
21. Define and coordinate Hydrology Program requirements with other NOAA programs (conductive external project)	2 - Green	☐