



**GROWING AREA WV**  
**Towns of**  
**St George, South Thomaston and Owls Head**  
**ANNUAL REVIEW for 2009**

**Report Date: November 10, 2010**

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**APPROVAL**

Division Director:

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Print name signature



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Figure 1 Shellfish Growing Area WV



# Maine Department of Marine Resources



Water Quality Sampling Stations Shellfish Growing Area WV 6/22/10

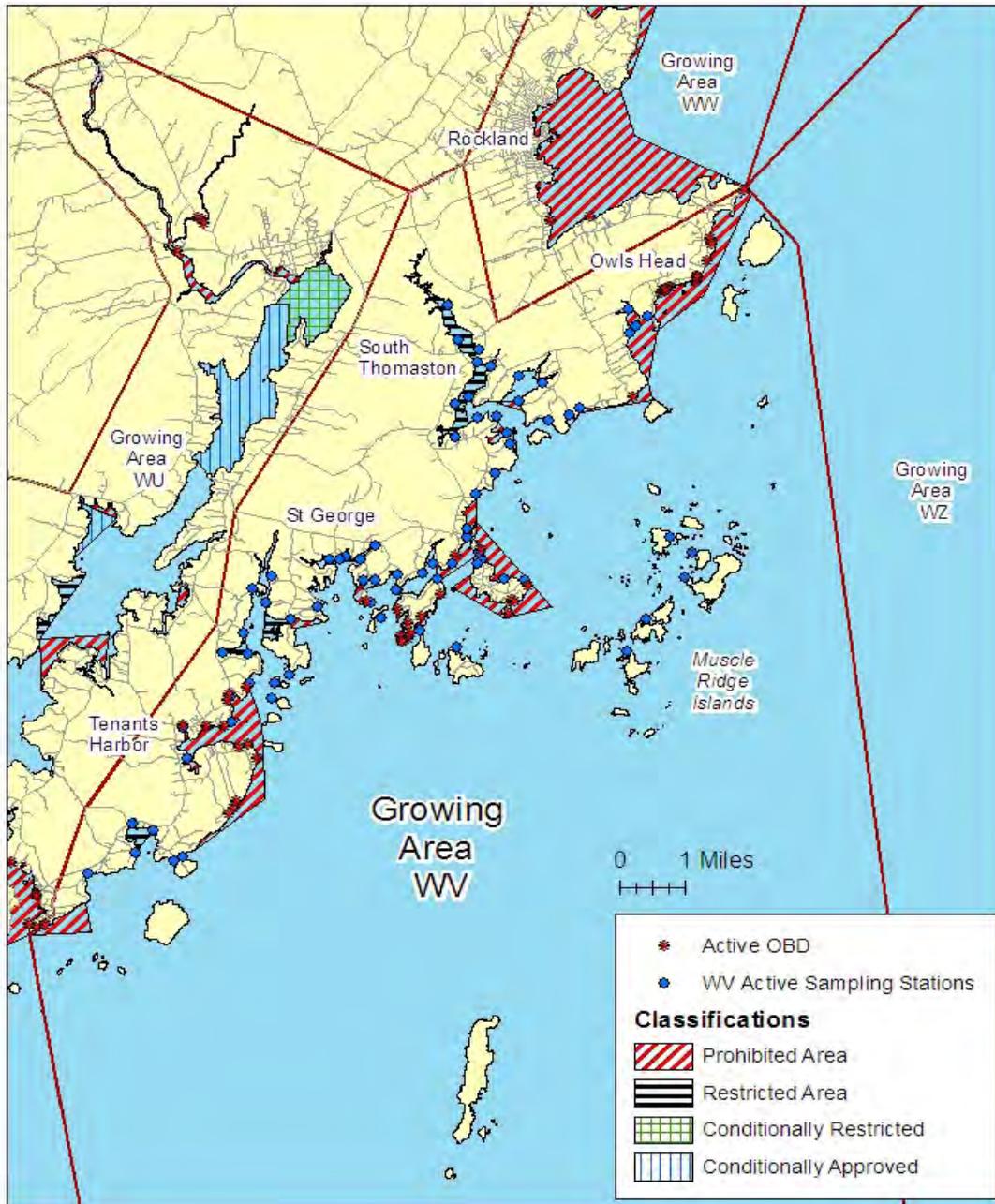




Figure 2 Growing Area WV Northern Sampling Stations

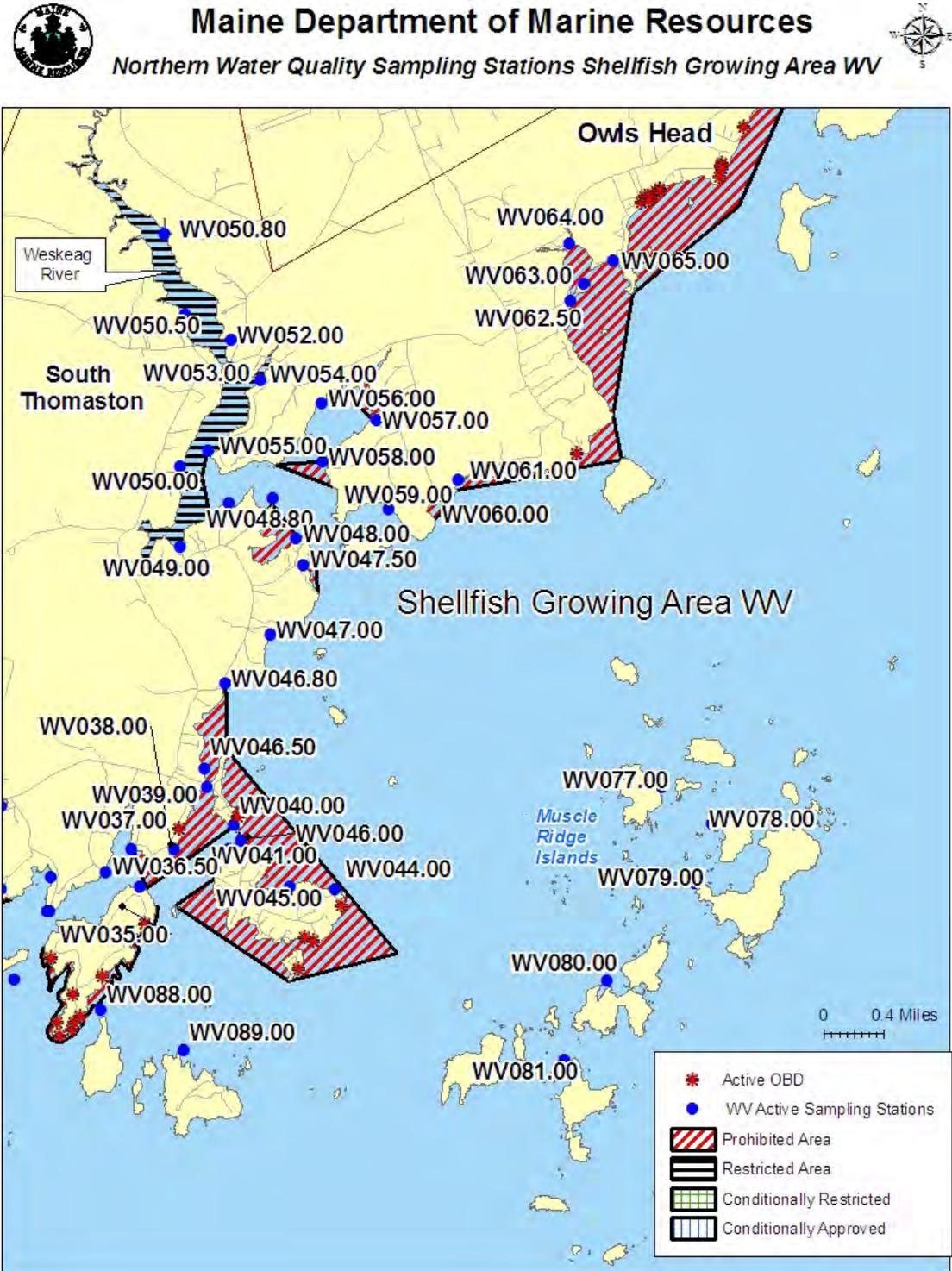




Figure 3 Growing Area WV Southern Sampling Stations



# Maine Department of Marine Resources



## Shellfish Growing Area WV Southern Stations





## Executive Summary

This is an annual report for growing area WV written in compliance with the requirements of the 2007 Model Ordinance and the National Shellfish Sanitation Program. The next triennial report is due after 2011; the next sanitary survey report is due after 2020.

No classification changes are recommended at this time; however growing Area WV has had several improvements in water quality during the review period. Several stations may be recommended for upward classification at the close of the 2010 sampling season if they continue to show improvement in water quality. Three other stations may be eligible for upward classification upon successful remediation of known pollution sources. Known pollution sources for shellfish growing area WV include 48 active overboard discharges (OBDs) and several malfunctioning systems and improperly installed drains. One OBD was removed during the review period.

## Growing Area Description

Shellfish Growing Area WV covers the region from Marshall Point, Port Clyde to the northern tip of Owls Head (Figure 1). This growing area includes portions of the towns of St George, South Thomaston and Owls Head. The town of St George includes the villages of Port Clyde, and Tenants Harbor. According to the 2000 census, the town of St George had a year round population of 2,580, the town of South Thomaston, which includes the village of Spruce Head had a year round population of 1,416 and the town of Owls Head had a year round population is 1,601. All of the towns in shellfish growing area WV are small and residential, with the population of each increasing during the summer months. There are no large industries, marinas or large tourist areas in this growing area. Main sources of income for this growing area include lobstering, construction and self employment businesses such as carpentry businesses and artist galleries. While there are no actual marinas in shellfish growing area WV, there are mooring areas that are used by the many local lobster boats. Cruising boats also frequent some of these areas during the summer months, with Tenants Harbor being the most popular mooring area used by cruising boats. There are no sewage treatment facilities in this growing area. The closest sewage treatment facilities to this growing area are located in the towns of Thomaston (growing area WU) and Rockland (growing area WW). The treatment plant outfalls from Thomaston and Rockland enter into water bodies away from the shores and waters of shellfish growing area WV. A detailed overview of this growing area is presented in Figures 2 and 3.

There are five aquaculture lease sites in this growing area. All of the lease sites are located in the Weskeag River. There is also a large conservation area in the upper Weskeag. The Ralf Waldo Tyler Wildlife Management Area is a large marsh consisting of 618 acres that is owned and managed by the Maine Department of Inland Fisheries and Wildlife (IF&W). In addition to the conservation area on the Weskeag, shellfish growing area WV also has two state parks. The Owls Head Light State Park is located at the northern tip of the growing area in the town of Owls Head. This park consists of small hiking trails, beaches, and a lighthouse that is open to the



public. Birch Point State Park is also located in the town of Owls Head. This park consists of small trails along the shore and a sandy beach. Both parks are open for daytime use only.

## Current Classification(s)

Shellfish growing area WV currently has areas classified as:

### Approved

- 31 Stations – WV 1, 6, 6.5, 16, 19, 20.5, 25, 26, 31, 32, 35, 36, 36.5, 41, 46.8, 47, 48, 48.5, 48.8, 56, 59, 77, 78, 79, 80, 81, 83, 84, 85, 86, 87, 88, and 89

### Restricted, 19 stations

- Pollution Area No. 27-A (St George), Harrington Cove west to a point on Eagle Quarry Rd., stations WV 27, 28, and 28.5 (new) due to water quality variability
- Pollution Area No. 28 (St George) Mosquito Harbor, stations WV 2, 3 and 4, Seavey Cove (St George)- stations WV 16.5, 17 and 18, and Long Cove (St George), stations WV 20.8 (new) and 22
- Pollution Area No. 28-I Upper Weskeag River (South Thomaston), stations WV 49, 50, 50.5, 50.8, 52, 53, 54 and 55

### Prohibited, 24 stations

- Pollution Area No. 27-A Calf Island (St George)- Due to an active OBD and Wheeler Bay (St George)- WV 29 and 30
- Pollution Area No. 28 Marshall Point to Clark Cove (St George)- WV 8, 10, 13, 14, and 24
- Pollution Area No. 28B Patten point, St George to Thorndike Point, South Thomaston – WV 37, 38, 39, 40, 44, 45, 46, 46.5, and 47.5
- Pollution Area 28E, Ash Point to Bitch Point, Owls Head – WV 61
- Pollution Area 28 I, Weskeag River, South Thomaston and Owls Head – WV57, 58, and 60
- Pollution Area 29A, Owls Head – WV 62.5, 63, 64, and 65

Please visit the DMR website to view legal notices:

[http://www.maine.gov/dmr/rm/public\\_health/closures/closedarea.htm#T](http://www.maine.gov/dmr/rm/public_health/closures/closedarea.htm#T)

## Activity during Review Period

There were no classification changes in growing area WV in 2009. No stations were added or deactivated.

## Water Quality Review and Discussion

Table 1 lists all active approved, restricted, and prohibited stations in Growing Area WV, with their respective Geomean and P90 calculations for 2009. Please refer to Appendix A for a key to interpreting the headers on the columns of Table 1. The approved and restricted standards for each station are also displayed in Table 1. These standards will fluctuate yearly as a result of



the DMR transition from a most probable number (MPN) fecal coliform test method to a membrane filtration (MF) method and are dependent on the number of sample analyzed by MPN versus MF. The total number of data points used in the calculations is displayed in the Count column and includes both MPN and MF values. The number of data points analyzed by MF is displayed in the MFCNT column. This fluctuating standard will cease when all 30 data points have been analyzed by the MF method. A more detailed explanation of this transition can be found in central files. At the end of 2009, all approved and restricted stations met their NSSP classification standard. Station WV 20.5 is right at the limit of passing and may need to be reclassified. The area around this site will be revisited to see if any pollution sources were overlooked during the survey of the area.

**Table 1 Area WV Geomean and P90 scores 2005-2009**

Station	Class	Count	MFCnt	GM	SDV	MAX	P90	Appd Std	Restr Std	Min Date
WV001.00	A	30	21	3.1	0.3	29	7.7	35	195	2/14/2005
WV002.00	R	30	21	2.3	0.14	7.3	3.6	35	195	2/14/2005
WV003.00	R	30	23	6.3	0.58	620	35.4	34	187	2/14/2005
WV004.00	R	30	21	3.4	0.37	43	10.5	35	195	2/14/2005
WV006.00	A	30	21	3	0.38	50	9.3	35	195	2/14/2005
WV006.50	A	30	21	3.7	0.39	43	12	35	195	2/14/2005
WV008.00	P	30	23	5.5	0.59	240	32	34	187	3/28/2005
WV010.00	P	30	23	7.9	0.54	136	38.8	34	187	2/14/2005
WV013.00	P	30	21	3.8	0.43	58	13.6	35	195	2/14/2005
WV014.00	P	30	21	4.9	0.56	220	26.1	35	195	2/14/2005
WV016.00	A	30	21	2.6	0.3	72	6.4	35	195	2/14/2005
WV016.50	R	30	21	3.2	0.53	1200	15.6	35	195	2/14/2005
WV017.00	R	30	21	5.8	0.88	1700	78.3	35	195	2/14/2005
WV018.00	R	30	21	3.3	0.51	740	14.9	35	195	2/14/2005
WV019.00	A	30	21	3.5	0.35	70	10.1	35	195	2/14/2005
WV020.50	A	30	21	6	0.59	280	35.2	35	195	2/14/2005
WV020.80	NEW	15	15	2.3	0.2	8	4.4	31	163	9/25/2007
WV022.00	R	30	21	4.3	0.57	440	23.9	35	195	2/14/2005
WV024.00	P	30	21	3.4	0.45	340	13.5	35	195	2/14/2005
WV025.00	A	30	21	3.8	0.5	102	16.6	35	195	3/28/2005
WV026.00	A	30	21	5.2	0.51	150	23.5	35	195	3/15/2005
WV027.00	R	30	21	6.4	0.6	660	38.4	35	195	3/15/2005
WV028.00	R	30	22	5.4	0.51	130	24.7	35	191	3/15/2005
WV028.50	NEW	15	15	3.9	0.43	36	14.4	31	163	9/5/2007
WV029.00	P	30	20	10.5	0.89	1700	145.8	36	199	8/5/2004
WV030.00	P	30	21	8.8	0.88	1700	119.7	35	195	3/15/2005
WV031.00	A	30	21	5.2	0.63	1700	34.3	35	195	3/15/2005
WV032.00	A	30	21	4.2	0.48	240	17.8	35	195	3/15/2005



Station	Class	Count	MFCOUNT	GM	SDV	MAX	P90	Appd_Std	Restr_Std	Min_Date
WV035.00	A	30	21	3.7	0.39	33	11.9	35	195	3/15/2005
WV036.00	A	30	21	3.9	0.41	43	13.4	35	195	3/15/2005
WV036.50	NEW	25	21	2.8	0.29	23	6.7	33	179	12/14/2005
WV037.00	P	30	21	4.8	0.64	480	32.5	35	195	3/15/2005
WV038.00	P	30	21	4.8	0.62	1200	30.1	35	195	3/15/2005
WV039.00	P	30	22	6.1	0.65	940	42.5	35	191	3/15/2005
WV040.00	P	30	21	3.3	0.4	50	11	35	195	3/15/2005
WV041.00	A	30	22	3.3	0.4	43	11.2	35	191	3/15/2005
WV044.00	P	30	21	3.4	0.42	106	12	35	195	3/15/2005
WV045.00	P	30	21	3.6	0.55	150	18.8	35	195	3/15/2005
WV046.00	P	30	21	3.2	0.35	43	9	35	195	3/15/2005
WV046.50	P	30	22	4.7	0.55	102	24.5	35	191	3/15/2005
WV046.80	A	30	21	3.4	0.47	240	13.7	35	195	3/15/2005
WV047.00	A	30	21	3.1	0.33	43	8.6	35	195	3/24/2005
WV047.50	P	30	22	2.6	0.24	35	5.4	35	191	9/8/2005
WV048.00	A	30	17	4.6	0.41	23	15.7	37	212	4/1/2003
WV048.50	A	30	21	3.4	0.26	22	7.4	35	195	3/24/2005
WV048.80	A	30	22	3.6	0.32	18	9.5	35	191	4/26/2005
WV049.00	R	30	22	5.4	0.46	72	21.1	35	191	3/24/2005
WV050.00	R	30	22	4.9	0.53	240	23.9	35	191	3/24/2005
WV050.50	R	30	21	4.9	0.53	100	23.6	35	195	3/24/2005
WV050.80	R	30	21	6.1	0.58	156	34.4	35	195	4/26/2005
WV052.00	R	30	21	4.7	0.46	84	18.8	35	195	3/24/2005
WV053.00	R	30	21	3.8	0.41	46	13	35	195	3/24/2005
WV054.00	R	30	21	5.8	0.54	106	29	35	195	3/24/2005
WV055.00	R	30	21	3.5	0.32	43	9.2	35	195	3/24/2005
WV056.00	A	30	22	5.7	0.51	93	26	35	191	3/24/2005
WV057.00	P	30	22	7.5	0.77	460	74.7	35	191	3/24/2005
WV058.00	P	30	21	3.9	0.4	62	13	35	195	3/24/2005
WV059.00	A	30	21	2.9	0.32	23	7.5	35	195	3/24/2005
WV060.00	P	30	21	4.2	0.51	64	19.4	35	195	6/27/2005
WV061.00	P	30	21	2.7	0.22	11	5.4	35	195	3/24/2005
WV062.50	P	30	21	4	0.51	440	18.4	35	195	3/24/2005
WV063.00	P	30	22	4.4	0.52	240	20.5	35	191	4/26/2005
WV064.00	P	30	22	5.8	0.69	1440	44.7	35	191	3/14/2005
WV065.00	P	30	21	3.9	0.51	240	18.1	35	195	3/14/2005
WV077.00	A	30	21	2.4	0.18	10	4.2	35	195	8/24/2005
WV078.00	A	30	21	2.3	0.18	15	4	35	195	8/24/2005



Station	Class	Count	MFCOUNT	GM	SDV	MAX	P90	Appd_Std	Restr_Std	Min_Date
WV079.00	A	30	21	2.4	0.18	9.1	4.1	35	195	8/24/2005
WV080.00	A	30	21	2.4	0.18	15	4.2	35	195	8/24/2005
WV081.00	A	30	21	2.4	0.18	9.1	4.2	35	195	8/24/2005
WV083.00	A	30	21	2.1	0.09	3.6	2.8	35	195	8/24/2005
WV084.00	A	30	21	2.3	0.25	43	5	35	195	8/24/2005
WV085.00	A	30	21	2.4	0.17	9.1	3.9	35	195	8/24/2005
WV086.00	A	30	21	3	0.43	240	11	35	195	8/24/2005
WV087.00	A	30	21	2.7	0.32	43	7.1	35	195	8/24/2005
WV088.00	A	30	21	2.2	0.11	6	3.1	35	195	8/24/2005
WV089.00	A	30	21	2.3	0.19	18	4.1	35	195	8/24/2005

### Sampling Effort

All of the stations that were active at the beginning of 2009 were sampled at least 6 times following the systematic random sampling (SRS) schedule (Table 2 and Appendix C). At several stations, additional samples were collected under adverse conditions, such as flood condition.

Table 2. Station Count Table

Station	Class	Adverse	Random		Total	Comments
		Closed	Closed	Open		
WV001.00	A			6	6	
WV002.00	R			6	6	
WV003.00	R			6	6	
WV004.00	R			6	6	
WV006.00	A			6	6	
WV006.50	A			6	6	
WV008.00	P		6		6	
WV010.00	P		6		6	
WV013.00	P		6		6	
WV014.00	P		6		6	
WV016.00	A			6	6	
WV016.50	R	29		6	35	Flood Station
WV017.00	R			6	6	
WV018.00	R			6	6	
WV019.00	A	29		6	35	Flood Station
WV020.50	A			6	6	
WV020.80	R			6	6	
WV022.00	R			6	6	
WV024.00	P		6		6	
WV025.00	A			6	6	
WV026.00	A			6	6	
WV026.50	R			6	6	



Station	Class	Adverse	Random		Total	Comments
		Closed	Closed	Open		
WV027.00	R			6	6	
WV028.00	R			6	6	
WV028.50	R			6	6	
WV029.00	P		6		6	
WV030.00	P		6		6	
WV031.00	A	26		6	32	Flood Station
WV032.00	A			6	6	
WV035.00	A			6	6	
WV036.00	A			6	6	
WV036.50	A			6	6	
WV037.00	P	25	6		31	Flood Station
WV038.00	P		6		6	
WV039.00	P		6		6	
WV040.00	P		6		6	
WV041.00	A			6	6	
WV044.00	P		6		6	
WV045.00	P		6		6	
WV046.00	P		6		6	
WV046.50	P		6		6	
WV046.80	A			6	6	
WV047.00	A			6	6	
WV047.50	P		6		6	
WV048.00	A			6	6	
WV048.50	A	25		6	31	Flood Station
WV048.80	A			6	6	
WV049.00	R			6	6	
WV050.00	R			6	6	
WV050.50	R			6	6	
WV050.80	R			6	6	
WV052.00	R			6	6	
WV053.00	R			6	6	
WV054.00	R			6	6	
WV055.00	R			6	6	
WV056.00	A			6	6	
WV057.00	P		6		6	
WV058.00	P		6		6	
WV059.00	A			6	6	
WV060.00	P		6		6	
WV061.00	P		6		6	
WV062.50	P		6		6	
WV063.00	P		6		6	
WV064.00	P		6		6	
WV065.00	P		6		6	



Station	Class	Adverse	Random		Total	Comments
		Closed	Closed	Open		
WV077.00	A			6	6	
WV078.00	A			6	6	
WV079.00	A			6	6	
WV080.00	A			6	6	
WV081.00	A			6	6	
WV083.00	A			6	6	
WV084.00	A			6	6	
WV085.00	A			6	6	
WV086.00	A			6	6	
WV087.00	A			6	6	
WV088.00	A			6	6	
WV089.00	A			6	6	

Figure 4 shows P90 scores for approved stations (expressed as the percent of the approved standard) in growing area WV over the last three years. The approved standard will continue to decrease annually during the transition from MPN to MF analysis until all samples have been analyzed using MF method. To best express the P90 trends, the calculated P90 scores have been shown as a percentage of the approved standard. Any station at or above the 100 percent line in 2009 does not meet the standard for approved classification.

Most of the stations classified as approved showed a slight increase in P90 trends for 2009, most likely due to the wet weather. Notable exceptions are stations WV 20.50, 31.00, 35.00 and 46.50 which showed a moderate to substantial increase in P90 scores (Figure 4). WV 20.50 and 31 showed extremely high (deteriorating water quality) P90 trends for 2009, to the extent that they are barely meeting the approved standard. The area around both of these stations was surveyed in 2004 and no pollution sources were identified at that time. At the extreme head of Long Cove (above station WV 20.5) there is a stream that flows under the road from a pond. There have occasionally been reports of beaver in the pond. Attempts will be made to document the presence of beaver in the pond during the 2010 sampling season. Further deterioration of P90 scores will result in a downward classification. WV 46.50 has shown an upward trend over the last three years. These stations will require greater attention in subsequent sampling.

Most of the restricted stations (figure 6) showed slight increases in their P90 trends during the 2009 sampling season. Again, this is most likely due to the extremely wet year.



Figure 4 Area WV P90 Scores for Approved Stations (expressed as the percent of the approved standard), 2007-2009

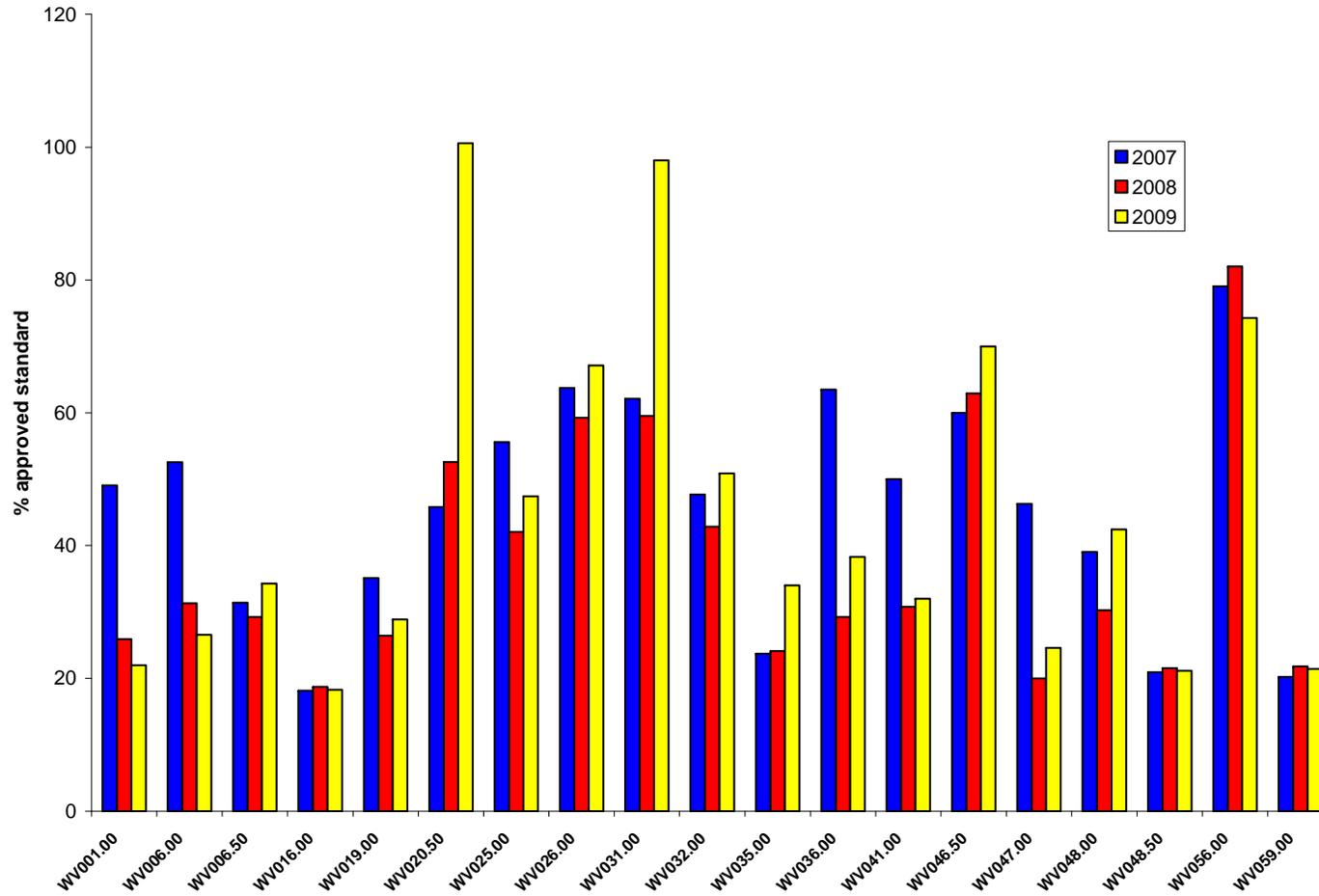




Figure 5 Area WV P90 Scores for Approved Muscle Ridge Stations (expressed as the percent of the approved standard), 2007-2009

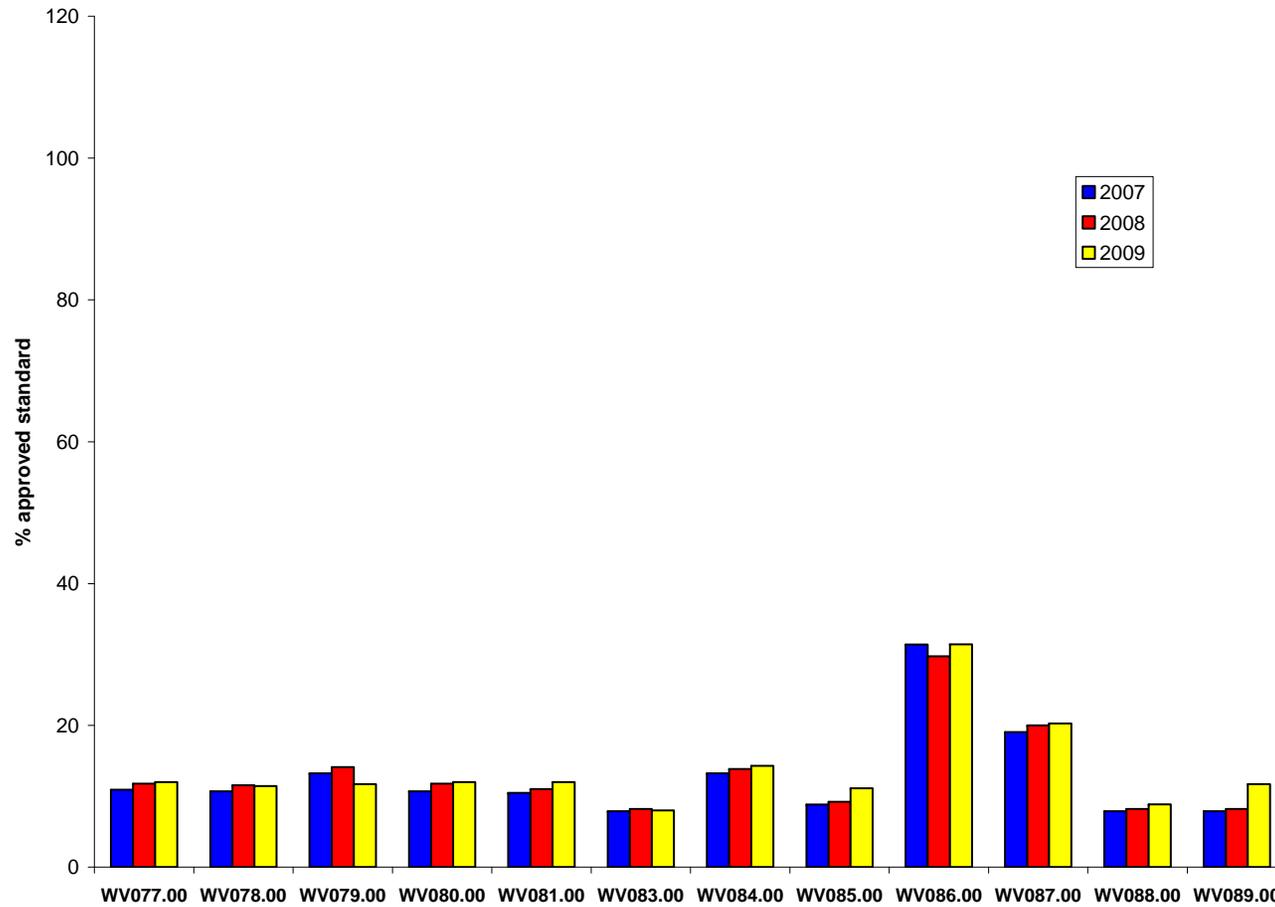
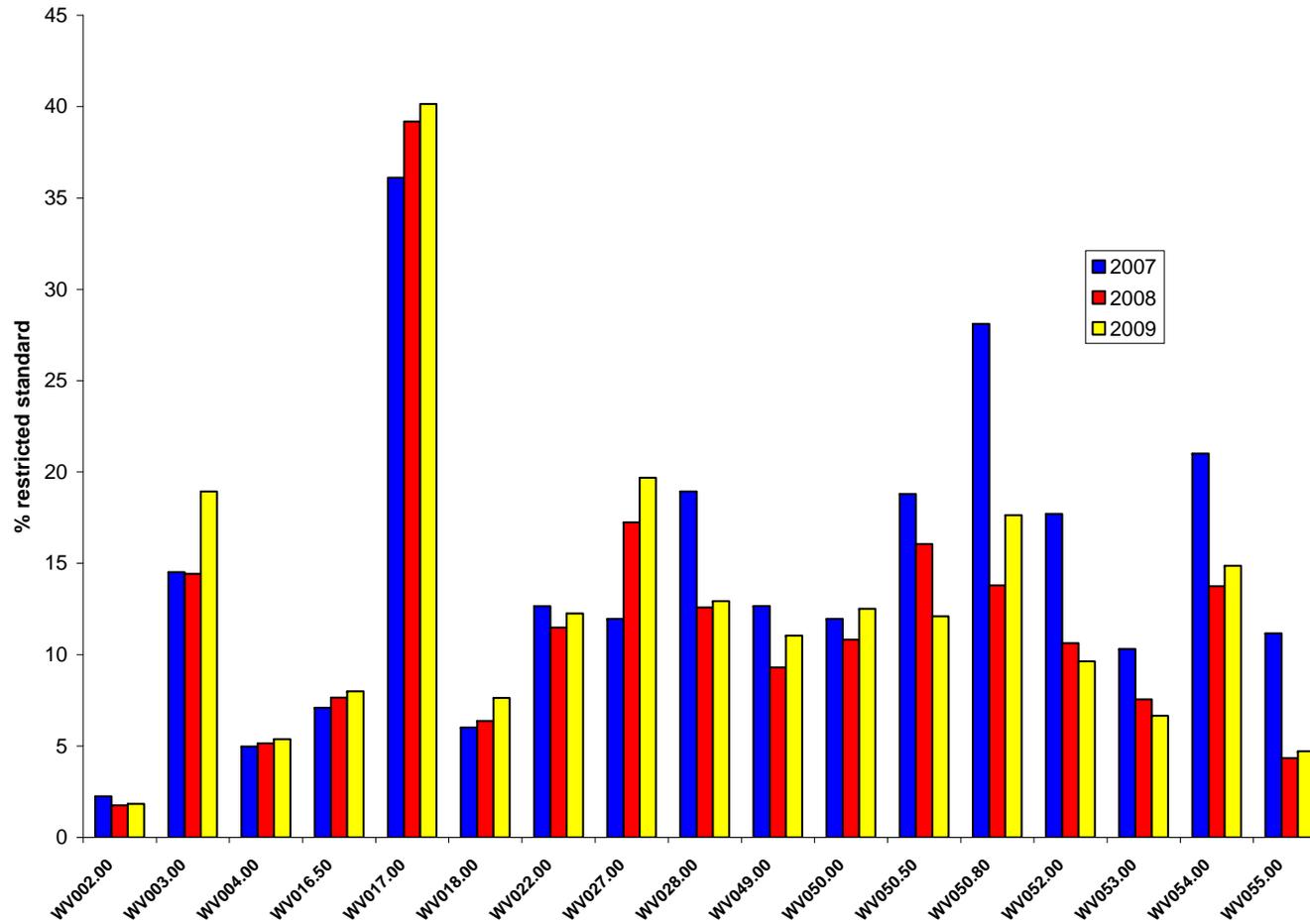




Figure 6 Area WV P90 Scores for Restricted Stations (expressed as the percent of the restricted standard), 2007-2009





## Recommendations for Upward Classification

Shellfish growing area WV has several areas that may be recommended for upward classification upgrades following the 2010 sampling season if water quality continues to improve and pollution sources are fixed.

## Shoreline Survey Activity

Activity in shellfish growing area WV for 2009 was mainly focused on communication with the LPI regarding problem sites that had been inspected and remediated and discussions regarding which malfunctions still need to be corrected. Shoreline survey work was conducted on islands in the Mussel Ridge Islands to update previous survey work. Islands surveyed include: Hewitt Island, Dix Island, Pleasant Island, Andrews Island, The Neck, Flag Island, Mink Island, and Great Pond Island. Drive through surveys were conducted during sample collection on February 11, 2009 and March 17, 2009.

## Aquaculture/Wet Storage Activity

There are six aquaculture lease sites in this growing area. All of the lease sites are located in the Weskeag River.

### **WES UR (two sites)**

**Original Date:** 10/5/2000 **Effective Date:** 10/5/2000 **Expiration Date:** 10/4/2010

**NOAA Chart:** 13302

**Description:** Weskeag River South Thomaston Knox County

**Acreage:** 7.14

**Conditions:**

**Transfer/Renewal History:**

**Species Cultivated:** oyster eastern / american (*Crassostrea virginica*) - clam soft (*Mya arenaria*) - clam northern quahog / hard (*Mercenaria mercenaria*)

**Cultivation Technique(s):** Bottom - Suspended

### **WES BC (two sites)**

**Original Date:** 7/28/2004 **Effective Date:** 7/28/2004 **Expiration Date:** 7/27/2014

**NOAA Chart:** 13302

**Description:** Weskeag River South Thomaston Knox County

**Acreage:** 0.994

**Conditions:**

**Transfer/Renewal History:**

**Species Cultivated:** oyster eastern / american (*Crassostrea virginica*)

**Cultivation Technique(s):** Suspended

### **HAM1 08**

**Original Date:** 7/14/2008 **Effective Date:** 4/13/2010 **Expiration Date:** 12/31/2010

**NOAA Chart:** 13302



**Description:** Southwest of Ballyhac Cove Weskeag River S. Thomaston Knox County  
**Acreage:** 0.01  
**Conditions:**  
**Transfer/Renewal History:**  
**Species Cultivated:** oyster eastern / american (*Crassostrea virginica*) - oyster european flat (*Ostrea edulis*)  
**Cultivation Technique(s):** Shellfish Raft Tray Racks / Overwintering Cage

**HAM2 08**

**Original Date:** 7/14/2008 **Effective Date:** 4/13/2010 **Expiration Date:** 12/31/2010  
**NOAA Chart:** 13302  
**Description:** Southwest of Ballyhoc Cove Weskeag River S. Thomaston Knox County  
**Acreage:** 0.01  
**Conditions:**  
**Transfer/Renewal History:**  
**Species Cultivated:** oyster eastern / american (*Crassostrea virginica*) - oyster european flat (*Ostrea edulis*)  
**Cultivation Technique(s):** Shellfish Raft Tray Racks / Overwintering Cage Soft Bags

For more information on the aquaculture sites on the St George River visit the website at:

<http://www.maine.gov/dmr/aquaculture/leaseinventory/muscongusbay.htm>

## Classification Changes

There were no classification changes in shellfish growing area WV during the review period.

## Recommendation for Future Work

Survey work should be conducted in the vicinity of station WV20.5, and 31. The pond above Long Cove (WV 20.5) should be inspected for the presence of beavers. A new horse farm in the cove above station WV 31 should be visited to inspect the manure disposal system and to explain "best farm practices". Water samples and flow rates should be collected at the stream (S1WV3) entering Mosquito Harbor. After the stream data has been collected a dilution calculation should be done to determine if the closure line in Mosquito Harbor can be moved. Station WV 3 should be moved slightly so it is no longer directly in the path of the stream entering the harbor.

## Summary

Water quality for shellfish growing area WV remained generally good in 2009. Several stations on the Weskeag River have been showing improvement in water quality. If this trend continues, these stations will be recommended for reclassification.

## References

U.S. Census Bureau. (2000) *Population Finder*. Retrieved April 5, 2009, from <http://www.census.gov/>



## Appendix A. Key to Water Quality Table Headers.

Station = water quality monitoring station

Class = classification assigned to the station; prohibited (P), restricted (R), conditionally restricted (CR), conditionally approved (CA) and approved (A).

Count = the number of samples evaluated for classification, must be a minimum of 30.

MFCNT = the number of samples evaluated with the MTec method (included in the total Count column)

Geo\_Mean = means the antilog (base 10) of the arithmetic mean of the sample result logarithm (base 10).

SDV = standard deviation

Max = maximum score of the 30 data points in the count column

P90 = 90<sup>th</sup> percentile

APPD\_STD = the 90<sup>th</sup> percentile, at or below which the station would meet approved criteria in the absence of pollution sources or poisonous and deleterious substances.

RESTR\_STD = the 90<sup>th</sup> percentile, at or below which the station would meet restricted criteria.



**Appendix B. Growing Area WV 2009 Data**

Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
WV001.00	2/3/2009	EXT	LF	NE	0	31	R		O	<2
	3/18/2009	EXT	F	SW	3	32	R		O	<2
	5/11/2009	EXT	F	CL	8	28	R		O	<2
	7/28/2009	EXT	F	SW	21	28	R		O	4
	8/18/2009	MLP	HF	CL	12	30	R		O	3.6
	10/5/2009	EXT	F	CL	14	32	R		O	4
WV002.00	2/3/2009	EXT	LF	NE	0	30	R		O	2
	3/18/2009	EXT	F	S	3	32	R		O	<2
	5/11/2009	EXT	F	N	8	30	R		O	<2
	7/28/2009	EXT	F	SW	17	30	R		O	<2
	8/18/2009	MLP	HF	CL	18	30	R		O	4
	10/5/2009	EXT	F	NW	13	32	R		O	<2
WV003.00	2/3/2009	EXT	F	NE	-1	22	R		O	4
	3/18/2009	EXT	HF	SW	6	14	R		O	<2
	5/11/2009	EXT	F	CL	9	28	R		O	4
	7/28/2009	EXT	F	CL	27	8	R		O	48
	8/18/2009	MLP	HF	CL	20	30	R		O	11
	10/5/2009	EXT	F	CL	14	32	R		O	4
WV004.00	2/3/2009	EXT	F	NE	0	31	R		O	<2
	3/18/2009	EXT	HF	SW	6	22	R		O	<2
	5/11/2009	EXT	F	CL	9	29	R		O	<2
	7/28/2009	EXT	F	SW	26	25	R		O	6
	8/18/2009	MLP	HF	CL	19	30	R		O	9.1
	10/5/2009	EXT	F	NW	15	30	R		O	4
WV006.00	2/3/2009	EXT	F	NE	1	32	R		O	<2
	3/18/2009	EXT	F	W	3	32	R		O	<2
	5/11/2009	EXT	F	CL	9	29	R		O	<2
	7/28/2009	EXT	F	SW	20	29	R		O	50
	8/18/2009	MLP	HF	CL	13	30	R		O	2
	10/5/2009	EXT	HF	CL	15	32	R		O	<2
WV006.50	2/3/2009	EXT	F	NE	0	31	R		O	<2
	3/18/2009	EXT	F	CL	4	32	R		O	<2
	5/11/2009	EXT	F	CL	9	30	R		O	<2
	7/28/2009	EXT	F	CL	18	30	R		O	6
	8/18/2009	MLP	HF	CL	14	30	R		O	4
	10/5/2009	EXT	HF	CL	13	32	R		O	6
WV008.00	2/3/2009	EXT	F	NE	1	30	R		C	2
	3/18/2009	EXT	HF	SW	5	26	R		C	5.5
	5/11/2009	EXT	F	CL	9	28	R		C	<2
	7/28/2009	EXT	F	CL	21	27	R		C	4



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/18/2009	MLP	HF	CL	16	30	R		C	18
	10/5/2009	EXT	HF	CL	15	32	R		C	<2
WV010.00	3/18/2009	EXT	F	S	4	2	R		C	5.5
	5/11/2009	EXT	F	CL	12	23	R		C	2
	6/3/2009	EXT	E	W	19	30	R		C	3.4
	7/28/2009	EXT	F	CL	27	2	R		C	12
	8/18/2009	MLP	H	CL	16	30	R		C	36
	10/5/2009	EXT	HF	CL	14	30	R		C	6
WV013.00	2/3/2009	EXT	F	NE	0	32	R		C	<2
	3/18/2009	EXT	F	S	3	32	R		C	<2
	5/11/2009	EXT	F	CL	10	30	R		C	<2
	7/28/2009	EXT	F	CL	19	29	R		C	<2
	8/18/2009	MLP	H	CL	18	30	R		C	2
10/5/2009	EXT	HF	CL	15	32	R		C	<2	
WV014.00	2/3/2009	EXT	F	NE	0	30	R		C	<2
	3/18/2009	EXT	F	S	3	32	R		C	<2
	5/11/2009	EXT	F	CL	10	29	R		C	<2
	7/28/2009	EXT	F	SW	22	29	R		C	4
	8/18/2009	MLP	H	CL	19	30	R		C	24
10/5/2009	EXT	HF	N	14	32	R		C	<2	
WV016.00	2/3/2009	EXT	F	NE	1	31	R		O	<2
	3/18/2009	EXT	F	S	3	32	R		O	<2
	5/11/2009	EXT	HF	CL	9	29	R		O	<2
	7/28/2009	EXT	F	SW	20	29	R		O	<2
	8/18/2009	MLP	H	CL	19	30	R		O	8
10/5/2009	EXT	HF	CL	14	32	R		O	<2	
WV016.50	2/3/2009	EXT	F	NE	-1	30	R		O	<2
	3/18/2009	EXT	F	CL	4	30	R		O	<2
	5/11/2009	EXT	HF	CL	10	28	R		O	2
	7/28/2009	EXT	F	CL	22	27	R		O	6
	8/18/2009	MLP	H	CL	18	30	R		O	2
10/5/2009	EXT	HF	CL	15	31	R		O	<2	
WV017.00	3/18/2009	EXT	F	CL	4	31	R		O	<2
	5/11/2009	EXT	HF	CL	11	28	R		O	<2
	6/3/2009	EXT	E	CL	14	30	R		O	<2
	7/28/2009	EXT	F	CL	22	28	R		O	8
	8/18/2009	MLP	H	CL	19	30	R		O	4
10/5/2009	EXT	H	CL	15	32	R		O	4	
WV018.00	3/18/2009	EXT	F	SW	4	31	R		O	<2
	5/11/2009	EXT	HF	CL	10	29	R		O	<2
	6/3/2009	EXT	E	S	14	32	R		O	2
	7/28/2009	EXT	F	CL	19	27	R		O	<2



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/18/2009	MLP	H	CL	19	30	R		O	14
	10/5/2009	EXT	H	N	15	32	R		O	10
WV019.00	3/18/2009	EXT	F	S	7	29	R		O	<2
	5/11/2009	EXT	HF	CL	13	24	R		O	<2
	6/3/2009	EXT	E	S	16	28	R		O	2
	7/28/2009	EXT	F	CL	28	24	R		O	5.5
	8/18/2009	MLP	HE	CL	22	30	R		O	11
	10/5/2009	EXT	H	CL	15	30	R		O	3.6
WV020.50	3/18/2009	EXT	F	CL	8	29	R		O	<2
	5/11/2009	EXT	HF	CL	11	28	R		O	2
	6/3/2009	EXT	E	SW	16	27	R		O	6
	7/28/2009	EXT	F	SW	21	26	R		O	62
	8/18/2009	MLP	HE	CL	21	29	R		O	16
	10/5/2009	EXT	H	CL	15	26	R		O	280
WV020.80	2/3/2009	EXT	F	NE	-2	30	R		O	<2
	3/18/2009	EXT	F	SW	4	29	R		O	<2
	5/11/2009	EXT	H	CL	12	28	R		O	<2
	7/28/2009	EXT	F	SW	21	26	R		O	6
	8/18/2009	MLP	HE	CL	23	30	R		O	8
	10/5/2009	EXT	H	NW	16	30	R		O	4
WV022.00	3/18/2009	EXT	F	SW	8	25	R		O	<2
	5/11/2009	EXT	H	CL	11	28	R		O	2
	6/3/2009	EXT	E	SW	17	30	R		O	<2
	7/28/2009	EXT	F	CL	24	24	R		O	8
	8/18/2009	MLP	HE	SE	19	31	R		O	<2
	10/5/2009	EXT	H	NW	15	30	R		O	16
WV024.00	2/3/2009	EXT	F	CL	0	31	R		C	<2
	3/18/2009	EXT	F	SW	6	32	R		C	<2
	5/11/2009	EXT	H	NE	11	30	R		C	<2
	7/28/2009	EXT	F	SW	24	29	R		C	<2
	8/18/2009	MLP	HE	SE	21	30	R		C	2
	10/5/2009	EXT	H	NW	14	32	R		C	2
WV025.00	2/3/2009	EXT	F	CL	-1	31	R		O	<2
	3/18/2009	EXT	F	SW	4	32	R		O	<2
	5/11/2009	EXT	H	CL	11	28	R		O	<2
	7/28/2009	EXT	HF	CL	23	26	R		O	7.3
	8/18/2009	MLP	E	SE	24	30	R		O	13
	10/5/2009	EXT	HE	CL	15	32	R		O	2
WV026.00	2/11/2009	FP	F	CL	2	32	R		O	<2
	3/17/2009	EXT	F	CL	3	30	R		O	<2
	5/6/2009	MLP	HF	CL	6	30	R	P	O	4
	7/21/2009	AB	HF	CL	15	28	R		O	11



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/18/2009	LSM	HF	CL	20	30	R		O	6
	10/5/2009	AB	HF	SW	13	32	R	P	O	4
WV027.00	2/11/2009	FP	F	S	0	32	R		O	<2
	3/17/2009	EXT	F	S	5	30	R		O	<2
	5/6/2009	MLP	HF	CL	6	30	R	P	O	<2
	7/21/2009	AB	HF	CL	16	29	R		O	25
	8/18/2009	LSM	H	CL	19	30	R		O	10
	10/5/2009	AB	HF	SW	13	32	R	P	O	<2
WV028.00	2/11/2009	FP	F	CL	0	27	R		O	10
	3/17/2009	EXT	F	CL	6	15	R		O	<2
	5/6/2009	MLP	HF	CL	6	28	R	P	O	4
	7/21/2009	AB	HF	CL	16	28	R		O	7.3
	8/18/2009	LSM	H	CL	22	30	R		O	5.5
	10/5/2009	AB	H	CL	13	24	R	P	O	40
WV028.50	2/11/2009	FP	HF	CL	0	32	R		O	<2
	3/17/2009	EXT	F	CL	4	30	R		O	<2
	5/6/2009	MLP	HF	CL	6	30	R	P	O	<2
	7/21/2009	AB	HF	CL	16	28	R		O	14
	8/18/2009	LSM	H	CL	21	30	R		O	36
	10/5/2009	AB	H	CL	13	30	R	P	O	9.1
WV029.00	2/11/2009	FP	HF	CL	-1	31	R	W	C	<2
	3/17/2009	EXT	F	CL	5	28	R		C	<2
	5/6/2009	MLP	HF	CL	6	30	R	P	C	<2
	7/21/2009	AB	HF	CL	16	28	R		C	33
	8/18/2009	LSM	H	CL	22	30	R		C	160
	10/5/2009	AB	H	CL	13	32	R	P	C	480
WV030.00	2/11/2009	FP	HF	CL	1	32	R		C	<2
	3/17/2009	EXT	F	CL	5	32	R		C	<2
	5/6/2009	MLP	HF	CL	6	30	R	P	C	<2
	7/21/2009	AB	H	CL	15	30	R		C	15
	8/18/2009	LSM	H	CL	19	30	R		C	106
	10/5/2009	AB	H	SW	13	31	R	PW	C	14
WV031.00	2/11/2009	FP	HF	CL	0	31	R		O	<2
	3/17/2009	EXT	F	CL	4	32	R		O	<2
	5/6/2009	MLP	H	CL	6	30	R	P	O	<2
	7/21/2009	AB	H	CL	15	30	R		O	11
	8/18/2009	LSM	H	CL	21	30	R		O	42
	10/5/2009	AB	H	CL	13	28	R	P	O	58
WV032.00	2/11/2009	FP	HF	CL	1	32	R		O	<2
	3/17/2009	EXT	F	S	4	32	R		O	<2
	5/6/2009	MLP	H	CL	6	30	R	P	O	20
	7/21/2009	AB	H	CL	14	30	R		O	6



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/18/2009	LSM	H		20	30	R		O	4
	10/5/2009	AB	H	SW	13	32	R	P	O	6
WV035.00	2/11/2009	FP	HF	CL	1	32	R		O	<2
	3/17/2009	EXT	HF	CL	3	32	R		O	<2
	5/6/2009	MLP	H	NE	6	30	R	P	O	<2
	7/21/2009	AB	H	CL	14	30	R		O	33
	8/18/2009	LSM	HE	CL	18	30	R		O	8
	10/5/2009	AB	H	CL	12	32	R	P	O	<2
WV036.00	2/11/2009	FP	HF	CL	0	32	R		O	<2
	3/17/2009	EXT	F	CL	6	32	R		O	<2
	5/6/2009	MLP	H	CL	6	30	R	P	O	8
	7/21/2009	AB	H	CL	14	30	R		O	14
	8/18/2009	LSM	H		20	30	R		O	8
	10/5/2009	AB	H	SW	14	32	R	P	O	<2
WV036.50	2/11/2009	FP	HF	S	2	32	R		O	<2
	3/17/2009	EXT	HF	S	3	32	R		O	<2
	5/6/2009	MLP	H	CL	6	30	R	P	O	<2
	7/21/2009	AB	H	CL	13	30	R		O	6
	8/18/2009	LSM	HE		19	30	R		O	<2
	10/5/2009	AB	H	CL	13	32	R	P	O	8
WV037.00	2/11/2009	FP	H	S	2	32	R		C	<2
	3/17/2009	EXT	F	S	4	32	R		C	<2
	5/6/2009	MLP	H	CL	6	30	R	P	C	<2
	7/21/2009	AB	H	CL	13	31	R		C	7.3
	8/18/2009	LSM	HE		18	30	R		C	54
	10/5/2009	AB	HE	SW	12	32	R	P	C	480
WV038.00	2/11/2009	FP	H	SW	1	32	R		C	96
	3/17/2009	EXT	F	CL	4	32	R		C	<2
	5/6/2009	MLP	H	CL	6	30	R	P	C	2
	7/21/2009	AB	HE	CL	13	31	R		C	6
	8/18/2009	LSM	HE		20	30	R		C	4
	10/5/2009	AB	HE	SW	13	32	R	P	C	15
WV039.00	2/11/2009	FP	H	SW	1	32	R		C	2
	3/17/2009	EXT	F	S	12	32	R		C	<2
	5/6/2009	MLP	H	CL	6	30	R	P	C	<2
	7/21/2009	AB	HE	CL	13	30	R		C	35
	8/18/2009	LSM	HE	CL	20	30	R		C	98
	10/5/2009	AB	HE	CL	12	32	R	P	C	940
WV040.00	2/11/2009	FP	H	SW	0	31	R		C	<2
	3/17/2009	EXT	F	S	5	32	R		C	<2
	5/6/2009	MLP	H	CL	6	30	R	P	C	<2
	7/21/2009	AB	HE	NE	12	30	R		C	2



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/18/2009	LSM	HE		19	30	R		C	50
	10/5/2009	AB	E	SW	12	32	R	P	C	48
WV041.00	2/11/2009	FP	H	SW	1	31	R		O	<2
	3/17/2009	EXT	F	CL	3	30	R		O	<2
	5/6/2009	MLP	HE	CL	6	30	R	P	O	<2
	7/21/2009	AB	HE	CL	12	30	R		O	2
	8/18/2009	LSM	HE		18	30	R		O	2
	10/5/2009	AB	HE	SW	11	32	R	P	O	2
WV044.00	2/11/2009	FP	H	CL	3	32	R	W	C	<2
	3/17/2009	EXT	F	S	2	32	R		C	<2
	5/6/2009	MLP	HE	CL	6	30	R	P	C	<2
	7/21/2009	AB	HE	NE	12	30	R		C	2
	8/18/2009	LSM	E		17	30	R		C	<2
	10/5/2009	AB	HE	NE	12	32	R	PW	C	106
WV045.00	2/11/2009	FP	H	CL	2	32	R		C	<2
	3/17/2009	EXT	F	S	2	32	R		C	<2
	5/6/2009	MLP	HE	CL	6	29	R	P	C	<2
	7/21/2009	AB	HE	CL	12	30	R		C	6
	8/18/2009	LSM	E		16	30	R		C	2
	10/5/2009	AB	HE	NW	12	32	R	P	C	8
WV046.00	2/11/2009	FP	HE	SW	1	32	R		C	<2
	3/17/2009	EXT	F	CL	3	32	R		C	<2
	5/6/2009	MLP	HE	NE	6	29	R	P	C	<2
	7/21/2009	AB	HE	E	13	30	R		C	8
	8/18/2009	LSM	E	W	19	30	R		C	10
	10/5/2009	AB	E	SW	12	32	R	P	C	2
WV046.50	2/11/2009	FP	HE	SW	1	32	R		C	<2
	3/17/2009	EXT	F	CL	4	32	R		C	<2
	5/6/2009	MLP	HE	CL	6	29	R	P	C	2
	7/21/2009	AB	E	CL	14	30	R		C	2
	8/18/2009	LSM	E	W	19	30	R		C	<2
	10/5/2009	AB	E	SW	12	32	R	P	C	10
WV046.80	2/11/2009	FP	HE	SW	1	32	R		O	<2
	3/17/2009	EXT	F	S	3	31	R		O	<2
	5/6/2009	MLP	HE	NE	6	28	R	P	O	<2
	7/21/2009	AB	HE	E	14	30	R		O	<2
	8/18/2009	LSM	E		19	30	R		O	<2
	10/5/2009	AB	E	CL	12	32	R	P	O	2
WV047.00	2/11/2009	FP	HE	SW	1	32	R		O	<2
	3/17/2009	EXT	F	S	4	30	R		O	<2
	5/6/2009	MLP	HE	CL	6	28	R	P	O	<2
	7/21/2009	AB	E	E	13	30	R		O	2



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/18/2009	LSM	E		19	30	R		O	4
	10/5/2009	AB	E	SW	12	32	R	PW	O	14
WV047.50	2/11/2009	FP	HE	SW	1	31	R		C	<2
	3/17/2009	EXT	F	S	6	28	R		C	<2
	5/6/2009	MLP	HE	CL	6	28	R	P	C	<2
	7/21/2009	AB	E	CL	13	29	R		C	<2
	8/18/2009	LSM	E		21	30	R		C	2
	10/5/2009	AB	E	SW	13	32	R	P	C	4
WV048.00	2/2/2009	MLP	F	CL	0	30	R		O	<2
	3/17/2009	FP	H	S	5	30	R		O	<2
	5/5/2009	EXT	H	NE	8	28	R		O	<2
	7/22/2009	LSM	F	CL	15	28	R		O	16
	8/17/2009	LSM	H	CL	15	30	R		O	<2
	9/30/2009	MLP	HF	CL	13	31	R		O	16
WV048.50	2/2/2009	MLP	F	CL	0	32	R		O	<2
	3/17/2009	FP	H	S	5	31	R		O	<2
	5/5/2009	EXT	H	NE	9	28	R		O	<2
	7/22/2009	LSM	HF	CL	15	29	R		O	22
	8/17/2009	LSM	H	CL	16	30	R		O	6
	10/1/2009	MLP	F	CL	13	31	R		O	<2
WV048.80	5/5/2009	EXT	H	NE	9	28	R		O	<2
	6/8/2009	MLP	HF	NE	12	30	R	W	O	<2
	7/22/2009	LSM	HF	CL	14	29	R		O	12
	8/17/2009	LSM	H	CL	16	30	R		O	<2
	9/30/2009	MLP	HF	CL	14	31	R		O	<2
	10/19/2009	LSM	H	N	10	31	R		O	9.1
WV049.00	2/11/2009	FP	HE	CL	1	29	R		O	<2
	5/5/2009	EXT	H	NE	10	28	R		O	<2
	6/8/2009	MLP	H	CL	16	30	R		O	24
	7/22/2009	LSM	HF	CL	16	28	R		O	72
	8/17/2009	LSM	H	CL	17	30	R		O	6
	9/30/2009	MLP	H	CL	15	30	R		O	8
WV050.00	2/11/2009	FP	HE	S	2	32	R		O	<2
	3/17/2009	FP	H	S	5	30	R		O	<2
	5/5/2009	EXT	H	NE	10	28	R		O	2
	7/22/2009	LSM	HF	CL	14	28	R		O	46
	8/17/2009	LSM	HE	CL	18	30	R		O	14
	9/30/2009	MLP	H	CL	15	31	R		O	4
WV050.50	2/11/2009	FP	E	CL	2	30	R		O	<2
	3/17/2009	FP	HE	S	4	28	R		O	<2
	5/5/2009	EXT	H	E	11	27	R		O	2
	7/22/2009	LSM	HF	CL	15	26	R		O	52



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/17/2009	LSM	HE	CL	20	30	R		O	4
	9/30/2009	MLP	H	CL	15	28	R		O	22
WV050.80	3/17/2009	FP	HF	S	5	4	R		O	7.3
	5/5/2009	EXT	HE	NE	11	28	R		O	<2
	6/8/2009	MLP	H	N	21	28	R		O	<2
	7/22/2009	LSM	H	CL	18	22	R		O	156
	8/17/2009	LSM	HE	CL	20	29	R		O	4
	9/30/2009	MLP	H	CL	15	25	R		O	58
WV052.00	2/11/2009	FP	E	CL	0	28	R		O	<2
	3/17/2009	FP	HF	S	5	18	R		O	<2
	5/5/2009	EXT	HE	NE	10	28	R		O	2
	7/22/2009	LSM	H	CL	15	28	R		O	56
	8/17/2009	LSM	HE	CL	20	30	R		O	6
	9/30/2009	MLP	H	CL	15	30	R		O	14
WV053.00	2/2/2009	MLP	F	CL	0	30	R		O	<2
	3/17/2009	FP	HF	S	5	24	R		O	<2
	5/5/2009	EXT	HE	CL	9	28	R		O	2
	7/22/2009	LSM	H	NE	15	29	R		O	18
	8/17/2009	LSM	E	CL	20	30	R		O	2
	9/30/2009	MLP	H	CL	15	32	R		O	6
WV054.00	2/11/2009	FP	E	CL	1	28	R		O	<2
	3/17/2009	FP	HF	S	6	24	R		O	<2
	5/5/2009	EXT	HE	CL	11	28	R		O	8
	7/22/2009	LSM	H	NE	16	24	R		O	106
	8/17/2009	LSM	E	CL	20	29	R		O	<2
	9/30/2009	MLP	HE	CL	15	26	R		O	48
WV055.00	2/2/2009	MLP	F	CL	1	30	R		O	<2
	3/17/2009	FP	HF	S	5	30	R		O	<2
	5/5/2009	EXT	HE	CL	10	28	R		O	6
	7/22/2009	LSM	H	NE	15	29	R		O	15
	8/17/2009	LSM	E	CL	20	30	R		O	4
	9/30/2009	MLP	HE	CL	14	31	R		O	2
WV056.00	2/11/2009	FP	E	S	1	30	R		O	<2
	3/17/2009	FP	HF	S	5	30	R		O	<2
	5/5/2009	EXT	HE	CL	10	28	R		O	<2
	7/22/2009	LSM	H	CL	15	28	R		O	33
	8/17/2009	LSM	E	CL	22	30	R		O	5.5
	9/30/2009	MLP	HE	CL	16	30	R		O	26
WV057.00	2/11/2009	FP	E	S	0	28	R		C	<2
	3/17/2009	FP	F	S	5	30	R		C	<2
	5/5/2009	EXT	E	CL	10	28	R		C	<2
	7/22/2009	LSM	HE	NE	16	25	R		C	136



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/17/2009	LSM	E	CL	23	30	R		C	4
	9/30/2009	MLP	HE	CL	15	30	R		C	<2
WV058.00	2/2/2009	MLP	F	CL	1	30	R		C	<2
	3/17/2009	FP	F	S	4	31	R		C	<2
	5/5/2009	EXT	E	NE	9	28	R		C	<2
	7/22/2009	LSM	HE	NE	15	29	R		C	10
	8/17/2009	LSM	E	CL	23	30	R		C	4
	9/30/2009	MLP	HE	S	15	31	R		C	<2
WV059.00	2/2/2009	MLP	HF	CL	1	31	R		O	<2
	3/17/2009	FP	F	S	4	32	R		O	<2
	5/5/2009	EXT	E	NE	8	28	R		O	<2
	7/22/2009	LSM	HE	CL	15	29	R		O	2
	8/17/2009	LSM	E	CL	25	30	R		O	2
	9/30/2009	MLP	HE	S	14	32	R		O	<2
WV060.00	2/11/2009	FP	E	S	2	32	R		C	<2
	3/17/2009	FP	F	S	5	30	R		C	<2
	5/5/2009	EXT	E	NE	9	30	R		C	<2
	7/22/2009	LSM	HE	NE	15	28	R		C	64
	8/17/2009	LSM	E	CL	22	30	R		C	<2
	9/30/2009	MLP	E	S	13	32	R		C	2
WV061.00	2/2/2009	MLP	HF	CL	2	31	R		C	<2
	3/17/2009	FP	F	S	5	31	R		C	<2
	5/5/2009	EXT	E	NE	9	30	R		C	<2
	7/22/2009	LSM	HE	NE	15	28	R		C	2
	8/17/2009	LSM	E	CL	24	30	R		C	<2
	9/30/2009	MLP	E	S	14	32	R		C	<2
WV062.50	2/2/2009	MLP	HF	CL	1	31	R		C	<2
	3/17/2009	FP	F	S	6	30	R		C	<2
	5/5/2009	EXT	E	NE	9	28	R		C	3.6
	7/22/2009	LSM	E	NE	16	28	R		C	12
	8/17/2009	LSM	E	W	20	28	R		C	<2
	9/30/2009	MLP	E	S	15	31	R		C	<2
WV063.00	2/2/2009	MLP	HF	CL	2	31	R		C	<2
	3/17/2009	FP	F	S	10	30	R		C	<2
	5/5/2009	EXT	E	NE	9	28	R		C	18
	7/22/2009	LSM	E	NE	15	25	R		C	64
	8/17/2009	LSM	E	W	22	29	R		C	4
	9/30/2009	MLP	E	CL	15	32	R		C	<2
WV064.00	2/2/2009	MLP	HF	CL	2	30	R		C	2
	3/17/2009	FP	F	S	9	8	R	W	C	2
	5/5/2009	EXT	E	CL	10	28	R		C	<2
	7/22/2009	LSM	E	NE	18	21	R		C	140



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	8/17/2009	LSM	E	CL	20	26	R		C	20
	9/30/2009	MLP	E	S	15	29	R	W	C	14
WV065.00	2/2/2009	MLP	H	CL		31	R		C	<2
	3/17/2009	FP	F	S	10	18	R		C	<2
	5/5/2009	EXT	E	CL	9	28	R		C	<2
	7/22/2009	LSM	E	NE	16	27	R		C	11
	8/17/2009	LSM	E	CL	21	28	R		C	<2
	9/30/2009	MLP	E	S	15	31	R		C	18
WV077.00	4/1/2009	FP	LF	SW	3	30	R		O	<2
	5/18/2009	FP	E	N	5	28	R		O	<2
	7/13/2009	MLP	LF	S	9	32	R	P	O	<2
	8/19/2009	FP	H	CL	12	31	R	B	O	<2
	9/14/2009	FP	E	NW	10	32	R	B	O	<2
	10/6/2009	FP	F	NW	13	31	R		O	<2
WV078.00	4/1/2009	FP	LF	SW	3	30	R		O	<2
	5/18/2009	FP	E	CL	5	28	R		O	<2
	7/13/2009	MLP	LF	SW	9	31	R	P	O	<2
	8/19/2009	FP	H	CL	10	31	R		O	2
	9/14/2009	FP	E	NW	10	31	R	B	O	2
	10/6/2009	FP	F	NW	13	30	R		O	<2
WV079.00	4/1/2009	FP	LF	SW	3	30	R		O	<2
	5/18/2009	FP	E	CL	5	28	R	W	O	<2
	7/13/2009	MLP	LF	SW	9	31	R	P	O	<2
	8/19/2009	FP	H	CL	11	31	R		O	<2
	9/14/2009	FP	E	NW	10	31	R	B	O	<2
	10/6/2009	FP	F	NW	12	30	R		O	<2
WV080.00	4/1/2009	FP	LF	CL	3	31	R		O	<2
	5/18/2009	FP	E	N	5	28	R		O	2
	7/13/2009	MLP	F	SW	8	31	R	P	O	<2
	8/19/2009	FP	H	CL	12	31	R		O	<2
	9/14/2009	FP	E	NW	10	32	R	B	O	2
	10/6/2009	FP	F	NW	13	30	R		O	<2
WV081.00	4/1/2009	FP	LF	SW	3	30	R		O	<2
	5/18/2009	FP	E	N	4	30	R		O	6
	7/13/2009	MLP	F	SW	9	31	R	P	O	<2
	8/1/2009	FP	E	CL	11	31	R		O	<2
	9/14/2009	FP	E	NW	10	31	R	B	O	2
	10/6/2009	FP	F	NW	13	31	R		O	<2
WV083.00	4/1/2009	FP	F	SW	3	31	R		O	<2
	5/18/2009	FP	LE	N	4	31	R		O	<2
	7/13/2009	MLP	F	SW	11	30	R	P	O	<2
	8/19/2009	FP	HE	W		32	R		O	<2



Station	Date	Collector	Tide	Wind	Temp	Salin	Strat	Adv	Status	MFCOL
	9/14/2009	FP	E	NW	10	32	R	B	O	<2
	10/6/2009	FP	HF	NW	13	31	R		O	<2
WV084.00	4/1/2009	FP	F	SW	2	31	R		O	<2
	5/18/2009	FP	LE	N	5	30	R		O	<2
	7/13/2009	MLP	F	SW	11	30	R	P	O	<2
	8/19/2009	FP	HE	W	14	32	R		O	2.8
	9/14/2009	FP	E	NW	10	32	R	B	O	<2
	10/6/2009	FP	F	NW	12	31	R		O	<2
WV085.00	4/1/2009	FP	F	SW	2	30	R		O	<2
	5/18/2009	FP	LE	N	5	30	R		O	<2
	7/13/2009	MLP	F	SW	11	30	R	P	O	<2
	8/19/2009	FP	HE	W	14	31	R		O	9.1
	9/14/2009	FP	E	NW	10	32	R	B	O	<2
	10/6/2009	FP	F	NW	12	31	R		O	<2
WV086.00	4/1/2009	FP	F	SW	3	31	R		O	<2
	5/18/2009	FP	LE	N	5	30	R		O	2
	7/13/2009	MLP	F	SW	11	30	R	P	O	<2
	8/19/2009	FP	H	W	16	32	R		O	6
	9/14/2009	FP	E	NW	10	32	R	B	O	4
	10/6/2009	FP	F	NW	14	31	R		O	<2
WV087.00	4/1/2009	FP	F	SW	3	31	R		O	<2
	5/18/2009	FP	LE	N	4	31	R		O	<2
	7/13/2009	MLP	F	SW	9	30	R	P	O	<2
	8/19/2009	FP	H	CL	15	32	R		O	<2
	9/14/2009	FP	E	NW	10	31	R	B	O	4
	10/6/2009	FP	F	NW	13	31	R		O	<2
WV088.00	4/1/2009	FP	F	SW	3	31	R		O	<2
	5/18/2009	FP	E	N	5	30	R		O	<2
	7/13/2009	MLP	F	SW	10	30	R	P	O	<2
	8/19/2009	FP	H	CL	12	32	R		O	2
	9/14/2009	FP	E	NW	10	32	R	B	O	6
	10/6/2009	FP	F	NW	13	31	R		O	<2
WV089.00	4/1/2009	FP	F	SW	3	31	R		O	<2
	5/18/2009	FP	E	N	4	30	R		O	2
	7/13/2009	MLP	F	SW	10	30	R	P	O	<2
	8/19/2009	FP	H	CL	12	31	R		O	<2
	9/14/2009	FP	E	NW	10	32	R	B	O	18
	10/6/2009	FP	F	NW	13	31	R		O	<2