

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
HYDROGEOLOGY OF SELECTED AREA OF CARROLL VALLEY, ADAMS COUNTY**

Rapid population growth has increased the demand for ground water in Carroll Valley. Since 1998 over 20 wells in Carroll Valley have gone dry, forcing home owners to either deepen existing wells, drill new wells, or have water transported to their domiciles. To address the capability of the bedrock aquifers to meet the increased demand for ground water, the U.S. Geological Survey (USGS) and the Borough of Carroll Valley, in 2000, began a cooperative study to investigate areas where reported yields are typically less than 5 gallons per minute or areas where dry wells have been reported. Through the use of data bases maintained by the USGS, Pennsylvania Topographic and Geologic Survey (PAGS), Borough of Carroll Valley, and water-well driller Randy Alexander, approximately 400 wells in the Borough of Carroll Valley were inventoried. Selected well construction (well depth, casing length, depth of water-bearing zones) and discharge (reported yield and specific capacity) data were entered into the Ground-Water Site Inventory (GWSI) data base maintained by the USGS. Synoptic water levels were collected from approximately 75 wells in November 2000 and August 2001 to evaluate seasonal changes in water levels.

For additional information, contact Dennis J. Low at the U.S. Geological Survey, 215 Limekiln Road, New Cumberland, PA 17070; 717-730-6959 (email: djlow@usgs.gov).

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HYDROGEOLOGY OF SELECTED AREA OF CARROLL VALLEY, ADAMS COUNTY**

REMARKS.--Explanation of column headings--LOCAL ID: unique identification code that utilizes a county abbreviation (AD is Adams County) and a sequential series of numbers to represent individual wells in a specific county. SITE IDENTIFIER: unique 15-digit identifier based on site latitude (first six digits), longitude (digits seven through thirteen), and a 2-digit sequence number suffix. LOCATION MAP NAME: name of 1:24,000 U.S. Geological Survey topographic map on which well is located. ELEVATION OF LAND SURFACE: land-surface altitude at well site, in feet above sea level, determined from appropriate topographic map. AQUIFER CODE: abbreviation of geologic formation names. Precambrian--000MBSL, metabasalt; 000MTRL, metarhyolite; 000GRNS, greenstone schist; Cambrian--377LUDN, Loudoun Formation. WATER-LEVEL IN FEET BELOW LAND SURFACE: >, greater than; -, feet above land surface (flowing or artesian well). WATER-LEVEL METHOD: T, electric tape; E, estimated.

LOCAL ID	SITE IDENTIFIER	LOCATION MAP NAME	ELEVATION OF LAND SURFACE (FEET)	AQUIFER CODE	WATER LEVEL		
					IN FEET BELOW LAND SURFACE	WATER-LEVEL METHOD	WATER-LEVEL DATE
AD 516	394428077231801	BLUE RIDGE SUMMIT	730	000MBSL	83.02	T	11/06/00
AD 516	394428077231801	BLUE RIDGE SUMMIT	730	000MBSL	83.76	T	11/14/00
AD 516	394428077231801	BLUE RIDGE SUMMIT	730	000MBSL	91.95	T	08/15/01
AD 771	394453077224501	BLUE RIDGE SUMMIT	580	000MBSL	53.43	T	11/06/00
AD 771	394453077224501	BLUE RIDGE SUMMIT	580	000MBSL	53.2	T	11/14/00
AD 771	394453077224501	BLUE RIDGE SUMMIT	580	000MBSL	55.87	T	08/15/01
AD 772	394450077225401	BLUE RIDGE SUMMIT	645	000MBSL	57.83	T	11/15/00
AD 772	394450077225401	BLUE RIDGE SUMMIT	645	000MBSL	64.16	T	08/15/01
AD 773	394452077231501	BLUE RIDGE SUMMIT	670	000MBSL	3.6	T	11/14/00
AD 773	394452077231501	BLUE RIDGE SUMMIT	670	000MBSL	7.14	T	08/15/01
AD 774	394439077223901	BLUE RIDGE SUMMIT	640	000MBSL	70.5	T	11/06/00
AD 774	394439077223901	BLUE RIDGE SUMMIT	640	000MBSL	71.95	T	11/14/00
AD 774	394439077223901	BLUE RIDGE SUMMIT	640	000MBSL	72.83	T	08/15/01
AD 775	394445077224001	BLUE RIDGE SUMMIT	580	000MBSL	30.53	T	11/14/00
AD 775	394445077224001	BLUE RIDGE SUMMIT	580	000MBSL	32.64	T	08/15/01
AD 776	394426077223101	BLUE RIDGE SUMMIT	670	000MTRL	96.2	T	11/06/00
AD 777	394446077232401	BLUE RIDGE SUMMIT	805	000MBSL	63.45	T	11/14/00
AD 777	394446077232401	BLUE RIDGE SUMMIT	805	000MBSL	65.05	T	08/15/01
AD 778	394445077231801	BLUE RIDGE SUMMIT	800	000MBSL	77.03	T	11/06/00
AD 778	394445077231801	BLUE RIDGE SUMMIT	800	000MBSL	77.38	T	11/14/00
AD 778	394445077231801	BLUE RIDGE SUMMIT	800	000MBSL	81.30	T	08/15/01
AD 779	394444077230801	BLUE RIDGE SUMMIT	745	000MBSL	47.83	T	11/14/00
AD 779	394444077230801	BLUE RIDGE SUMMIT	745	000MBSL	56.54	T	08/15/01
AD 780	394440077231901	BLUE RIDGE SUMMIT	860	000MBSL	42.2	T	11/14/00
AD 780	394440077231901	BLUE RIDGE SUMMIT	860	000MBSL	49.59	T	08/15/01
AD 781	394438077231901	BLUE RIDGE SUMMIT	875	000MBSL	103.25	T	11/14/00
AD 781	394438077231901	BLUE RIDGE SUMMIT	875	000MBSL	137.05	T	08/15/01
AD 782	394438077232001	BLUE RIDGE SUMMIT	880	000MBSL	77.7	T	11/14/00
AD 782	394438077232001	BLUE RIDGE SUMMIT	880	000MBSL	109.50	T	08/15/01
AD 783	394438077232002	BLUE RIDGE SUMMIT	880	000MBSL	72.02	T	11/14/00
AD 783	394438077232002	BLUE RIDGE SUMMIT	880	000MBSL	135.38	T	08/15/01
AD 784	394436077231801	BLUE RIDGE SUMMIT	860	000MBSL	>151	E	11/14/00
AD 784	394436077231801	BLUE RIDGE SUMMIT	860	000MBSL	>151	E	08/15/01
AD 785	394433077225401	BLUE RIDGE SUMMIT	750	000MTRL	63.58	T	11/06/00
AD 785	394433077225401	BLUE RIDGE SUMMIT	750	000MTRL	63.45	T	11/14/00
AD 785	394433077225401	BLUE RIDGE SUMMIT	750	000MTRL	135.77	T	08/15/01
AD 786	394430077224401	BLUE RIDGE SUMMIT	740	000MBSL	76.04	T	11/06/00
AD 786	394430077224401	BLUE RIDGE SUMMIT	740	000MBSL	76.43	T	11/14/00
AD 786	394430077224401	BLUE RIDGE SUMMIT	740	000MBSL	100.20	T	08/15/01
AD 787	394429077223601	BLUE RIDGE SUMMIT	680	000MBSL	80.1	T	11/14/00
AD 787	394429077223601	BLUE RIDGE SUMMIT	680	000MBSL	87.73	T	08/15/01
AD 788	394430077231701	BLUE RIDGE SUMMIT	760	000MBSL	94.1	T	11/06/00
AD 788	394430077231701	BLUE RIDGE SUMMIT	760	000MBSL	94.86	T	11/14/00
AD 788	394430077231701	BLUE RIDGE SUMMIT	760	000MBSL	102.97	T	08/15/01
AD 790	394421077232801	BLUE RIDGE SUMMIT	640	000MBSL	64.23	T	11/14/00
AD 790	394421077232801	BLUE RIDGE SUMMIT	640	000MBSL	72.08	T	08/15/01
AD 791	394422077233901	BLUE RIDGE SUMMIT	630	000MBSL	33.28	T	11/14/00
AD 791	394422077233901	BLUE RIDGE SUMMIT	630	000MBSL	34.66	T	08/15/01
AD 792	394433077232901	BLUE RIDGE SUMMIT	780	000GRNS	79.8	T	11/14/00
AD 793	394541077234001	IRON SPRINGS	790	000MBSL	-2.4	E	11/06/00
AD 793	394541077234001	IRON SPRINGS	790	000MBSL	-2.3	E	08/15/01
AD 794	394534077234501	IRON SPRINGS	820	000MBSL	35.54	T	11/06/00
AD 794	394534077234501	IRON SPRINGS	820	000MBSL	35.6	T	11/14/00
AD 794	394534077234501	IRON SPRINGS	820	000MBSL	43.04	T	08/15/01
AD 795	394435077242701	BLUE RIDGE SUMMIT	690	377LUDN	45.55	T	11/14/00
AD 795	394435077242701	BLUE RIDGE SUMMIT	690	377LUDN	47.95	T	08/15/01

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HYDROGEOLOGY OF SELECTED AREA OF CARROLL VALLEY, ADAMS COUNTY**

LOCAL ID	SITE IDENTIFIER	LOCATION MAP NAME	ELEVATION OF LAND SURFACE (FEET)	AQUIFER CODE	WATER LEVEL		
					IN FEET BELOW LAND SURFACE	WATER-LEVEL METHOD	WATER-LEVEL DATE
AD 796	394433077242701	BLUE RIDGE SUMMIT	680	000MBSL	52.31	T	11/14/00
AD 796	394433077242701	BLUE RIDGE SUMMIT	680	000MBSL	54.09	T	08/15/01
AD 797	394431077241401	BLUE RIDGE SUMMIT	650	000MBSL	5.27	T	11/06/00
AD 797	394431077241401	BLUE RIDGE SUMMIT	650	000MBSL	5.06	T	11/14/00
AD 797	394431077241401	BLUE RIDGE SUMMIT	650	000MBSL	6.15	T	08/15/01
AD 798	394438077241401	BLUE RIDGE SUMMIT	740	000MBSL	104.10	T	11/06/00
AD 798	394438077241401	BLUE RIDGE SUMMIT	740	000MBSL	103.19	T	11/14/00
AD 798	394438077241401	BLUE RIDGE SUMMIT	740	000MBSL	105.13	T	08/15/01
AD 799	394439077241201	BLUE RIDGE SUMMIT	700	000MBSL	101.71	T	11/14/00
AD 799	394439077241201	BLUE RIDGE SUMMIT	700	000MBSL	102.42	T	08/15/01
AD 800	394445077242501	BLUE RIDGE SUMMIT	820	000MBSL	60.45	T	11/14/00
AD 800	394445077242501	BLUE RIDGE SUMMIT	820	000MBSL	66.56	T	08/15/01
AD 801	394451077242101	BLUE RIDGE SUMMIT	890	000GRNS	81.80	T	11/14/00
AD 801	394451077242101	BLUE RIDGE SUMMIT	890	000GRNS	84.96	T	08/15/01
AD 803	394418077223401	BLUE RIDGE SUMMIT	680	000MTRL	46.45	T	11/06/00
AD 803	394418077223401	BLUE RIDGE SUMMIT	680	000MTRL	46.67	T	11/14/00
AD 803	394418077223401	BLUE RIDGE SUMMIT	680	000MTRL	52.00	T	08/15/01
AD 804	394418077223501	BLUE RIDGE SUMMIT	680	000MTRL	44.62	T	11/06/00
AD 804	394418077223501	BLUE RIDGE SUMMIT	680	000MTRL	44.85	T	11/14/00
AD 804	394418077223501	BLUE RIDGE SUMMIT	680	000MTRL	57.34	T	08/15/01
AD 805	394416077223901	BLUE RIDGE SUMMIT	680	000MTRL	31.31	T	11/14/00
AD 806	394426077223901	BLUE RIDGE SUMMIT	750	000MBSL	52.20	T	11/06/00
AD 806	394426077223901	BLUE RIDGE SUMMIT	750	000MBSL	49.29	T	11/14/00
AD 806	394426077223901	BLUE RIDGE SUMMIT	750	000MBSL	49.40	T	08/15/01
AD 807	394425077225801	BLUE RIDGE SUMMIT	780	000MTRL	145.86	T	11/06/00
AD 807	394425077225801	BLUE RIDGE SUMMIT	780	000MTRL	147.64	T	11/14/00
AD 807	394425077225801	BLUE RIDGE SUMMIT	780	000MTRL	224	E	08/15/00
AD 808	394430077225001	BLUE RIDGE SUMMIT	790	000MBSL	115.09	T	11/06/00
AD 808	394430077225001	BLUE RIDGE SUMMIT	790	000MBSL	116.51	T	11/14/00
AD 808	394430077225001	BLUE RIDGE SUMMIT	790	000MBSL	120.31	T	08/15/01
AD 810	394348077230201	BLUE RIDGE SUMMIT	750	000MTRL	57.7	T	11/14/00
AD 810	394348077230201	BLUE RIDGE SUMMIT	750	000MTRL	60.6	T	08/15/01
AD 811	394348077224401	BLUE RIDGE SUMMIT	680	000MTRL	75.0	T	11/14/00
AD 811	394348077224401	BLUE RIDGE SUMMIT	680	000MTRL	74.7	T	08/15/01
AD 812	394359077225401	BLUE RIDGE SUMMIT	720	000MTRL	53.9	T	11/14/00
AD 812	394359077225401	BLUE RIDGE SUMMIT	720	000MTRL	55.2	T	08/15/01
AD 813	394358077223301	BLUE RIDGE SUMMIT	630	000MTRL	35	T	11/14/00
AD 813	394358077223301	BLUE RIDGE SUMMIT	630	000MTRL	38.5	T	08/14/01
AD 814	394458077242401	BLUE RIDGE SUMMIT	840	000MBSL	43.20	T	11/06/00
AD 814	394458077242401	BLUE RIDGE SUMMIT	840	000MBSL	43.26	T	11/14/00
AD 814	394458077242401	BLUE RIDGE SUMMIT	840	000MBSL	44.16	T	08/15/01
AD 815	394500077242001	IRON SPRINGS	860	000MBSL	49.83	T	11/06/00
AD 815	394500077242001	IRON SPRINGS	860	000MBSL	50.19	T	11/14/00
AD 815	394500077242001	IRON SPRINGS	860	000MBSL	92.76	T	08/15/01
AD 816	394500077241801	IRON SPRINGS	860	000MBSL	144.8	T	11/06/00
AD 816	394500077241801	IRON SPRINGS	860	000MBSL	144.7	T	11/14/00
AD 816	394500077241801	IRON SPRINGS	860	000MBSL	147.91	T	08/15/01
AD 817	394501077241901	IRON SPRINGS	865	000MBSL	51.19	T	11/06/00
AD 817	394501077241901	IRON SPRINGS	865	000MBSL	51.52	T	11/14/00
AD 817	394501077241901	IRON SPRINGS	865	000MBSL	51.69	T	11/15/00
AD 817	394501077241901	IRON SPRINGS	865	000MBSL	49.14	T	12/18/00
AD 817	394501077241901	IRON SPRINGS	865	000MBSL	81.81	T	08/15/01
AD 818	394503077241201	IRON SPRINGS	905	000MBSL	17	T	11/06/00
AD 818	394503077241201	IRON SPRINGS	905	000MBSL	16.42	T	11/14/00
AD 818	394503077241201	IRON SPRINGS	905	000MBSL	12.9	T	12/18/00
AD 818	394503077241201	IRON SPRINGS	905	000MBSL	16.70	T	08/15/01
AD 819	394501077241502	IRON SPRINGS	895	000MBSL	79.8	T	11/15/00
AD 819	394501077241502	IRON SPRINGS	895	000MBSL	60.43	T	12/18/00
AD 819	394501077241502	IRON SPRINGS	895	000MBSL	76.40	T	08/15/01
AD 821	394443077241801	BLUE RIDGE SUMMIT	800	000MBSL	102.9	T	11/06/00
AD 821	394443077241801	BLUE RIDGE SUMMIT	800	000MBSL	105.31	T	11/14/00
AD 821	394443077241801	BLUE RIDGE SUMMIT	800	000MBSL	107.11	T	08/15/01
AD 822	394455077240201	BLUE RIDGE SUMMIT	780	000MBSL	22.9	T	11/06/00
AD 822	394455077240201	BLUE RIDGE SUMMIT	780	000MBSL	22.81	T	11/14/00
AD 822	394455077240201	BLUE RIDGE SUMMIT	780	000MBSL	24.49	T	08/15/01

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LOCAL ID	SITE IDENTIFIER	LOCATION MAP NAME	ELEVATION OF LAND SURFACE (FEET)	AQUIFER CODE	WATER LEVEL		
					IN FEET BELOW LAND SURFACE	WATER-LEVEL METHOD	WATER-LEVEL DATE
AD 823	394442077240301	BLUE RIDGE SUMMIT	780	000MBSL	39.33	T	11/06/00
AD 823	394442077240301	BLUE RIDGE SUMMIT	780	000MBSL	39.4	T	11/14/00
AD 823	394442077240301	BLUE RIDGE SUMMIT	780	000MBSL	42.00	T	08/15/01
AD 824	394437077240101	BLUE Ridge SUMMIT	820	000GRNS	57.65	T	11/15/00
AD 824	394437077240101	BLUE Ridge SUMMIT	820	000GRNS	65.21	T	08/15/01
AD 825	394448077235101	BLUE RIDGE SUMMIT	890	000MBSL	95.38	T	11/14/00
AD 825	394448077235101	BLUE RIDGE SUMMIT	890	000MBSL	107.04	T	08/15/01
AD 826	394440077232701	BLUE RIDGE SUMMIT	880	000MBSL	72.1	T	11/15/00
AD 826	394440077232701	BLUE RIDGE SUMMIT	880	000MBSL	73.93	T	08/15/01
AD 827	394443077233601	BLUE RIDGE SUMMIT	880	000MBSL	77.65	T	11/15/00
AD 827	394443077233601	BLUE RIDGE SUMMIT	880	000MBSL	99.85	T	08/15/01
AD 828	394442077233001	BLUE RIDGE SUMMIT	880	000GRNS	116.5	T	11/15/00
AD 828	394442077233001	BLUE RIDGE SUMMIT	880	000GRNS	116.97	T	08/15/01
AD 829	394444077233601	BLUE RIDGE SUMMIT	880	000MBSL	165.4	T	11/15/00
AD 829	394444077233601	BLUE RIDGE SUMMIT	880	000MBSL	168.4	T	08/15/01
AD 830	394446077233701	BLUE RIDGE SUMMIT	870	000MBSL	100.65	T	11/15/00
AD 830	394446077233701	BLUE RIDGE SUMMIT	870	000MBSL	96.8	T	08/15/01
AD 831	394453077234801	BLUE RIDGE SUMMIT	885	000MBSL	66.67	T	11/06/00
AD 831	394453077234801	BLUE RIDGE SUMMIT	885	000MBSL	68.55	T	11/14/00
AD 831	394453077234801	BLUE RIDGE SUMMIT	885	000MBSL	73.99	T	08/15/01
AD 832	394454077234801	BLUE RIDGE SUMMIT	900	000MBSL	58.93	T	11/06/00
AD 832	394454077234801	BLUE RIDGE SUMMIT	900	000MBSL	59.55	T	11/14/00
AD 832	394454077234801	BLUE RIDGE SUMMIT	900	000MBSL	64.55	T	08/15/01
AD 833	394454077233701	BLUE RIDGE SUMMIT	820	000GRNS	25	T	11/06/00
AD 833	394454077233701	BLUE RIDGE SUMMIT	820	000GRNS	26.55	T	08/15/01
AD 834	394518077235101	IRON SPRINGS	960	000GRNS	72.15	T	11/06/00
AD 834	394518077235101	IRON SPRINGS	960	000GRNS	69.1	T	11/14/00
AD 834	394518077235101	IRON SPRINGS	960	000GRNS	68.5	T	08/15/01
AD 834	394518077235101	IRON SPRINGS	960	000GRNS	72.35	T	08/29/01
AD 835	394513077234701	IRON SPRINGS	950	000MBSL	92.83	T	11/06/00
AD 835	394513077234701	IRON SPRINGS	950	000MBSL	91.5	T	11/14/00
AD 835	394513077234701	IRON SPRINGS	950	000MBSL	97.2	T	08/15/01
AD 836	394514077235401	IRON SPRINGS	980	000GRNS	83.61	T	11/06/00
AD 836	394514077235401	IRON SPRINGS	980	000GRNS	84.2	T	11/14/00
AD 836	394514077235401	IRON SPRINGS	980	000GRNS	82.9	T	08/15/01
AD 836	394514077235401	IRON SPRINGS	980	000GRNS	95.9	T	08/29/01
AD 837	394511077235401	IRON SPRINGS	970	000MBSL	66.9	T	11/14/00
AD 837	394511077235401	IRON SPRINGS	970	000MBSL	68.6	T	08/15/01
AD 838	394507077240101	IRON SPRINGS	900	000MBSL	79.9	T	11/06/00
AD 838	394507077240101	IRON SPRINGS	900	000MBSL	65.8	T	11/14/00
AD 838	394507077240101	IRON SPRINGS	900	000MBSL	58	T	08/15/01
AD 839	394504077235801	IRON SPRINGS	900	000MBSL	46.35	T	11/06/00
AD 839	394504077235801	IRON SPRINGS	900	000MBSL	46.9	T	11/14/00
AD 839	394504077235801	IRON SPRINGS	900	000MBSL	47.8	T	08/15/01
AD 840	394508077230701	IRON SPRINGS	760	000MBSL	40.9	T	11/14/00
AD 840	394508077230701	IRON SPRINGS	760	000MBSL	39.2	T	08/15/01
AD 840	394508077230701	IRON SPRINGS	760	000MBSL	40.2	T	08/29/01
AD 841	394506077231301	IRON SPRINGS	770	000MBSL	59.7	T	11/14/00
AD 841	394506077231301	IRON SPRINGS	770	000MBSL	59	T	08/15/01
AD 841	394506077231301	IRON SPRINGS	770	000MBSL	60.85	T	08/29/01
AD 843	394501077231901	IRON SPRINGS	750	000MBSL	41.7	T	11/15/00
AD 844	394500077231801	IRON SPRINGS	750	000MBSL	42.3	T	11/15/00
AD 844	394500077231801	IRON SPRINGS	750	000MBSL	53.6	T	08/15/01
AD 845	394456077231801	BLUE RIDGE SUMMIT	710	000MBSL	19.3	T	11/15/00
AD 845	394456077231801	BLUE RIDGE SUMMIT	710	000MBSL	22.4	T	08/15/01
AD 846	394453077232001	BLUE RIDGE SUMMIT	680	000MBSL	9.3	T	11/06/00
AD 846	394453077232001	BLUE RIDGE SUMMIT	680	000MBSL	9.3	T	11/14/00
AD 846	394453077232001	BLUE RIDGE SUMMIT	680	000MBSL	10.2	T	08/15/01
AD 950	394428077225001	BLUE RIDGE SUMMIT	780	000MBSL	51.33	T	08/15/01
AD 956	394501077241501	IRON SPRINGS	895	000MBSL	79.8	T	11/15/00
AD 956	394501077241501	IRON SPRINGS	895	000MBSL	60.43	T	12/18/00
AD 956	394501077241501	IRON SPRINGS	895	000MBSL	76.4	T	08/15/01

**GROUND-WATER DATA COLLECTED AT SPECIAL-STUDY SITES
HYDROGEOLOGY OF SELECTED AREA OF CARROLL VALLEY, ADAMS COUNTY**

LOCAL ID	SITE IDENTIFIER	LOCATION MAP NAME	ELEVATION OF LAND SURFACE (FEET)	AQUIFER CODE	WATER LEVEL IN FEET		WATER- LEVEL METHOD	WATER- LEVEL DATE
					BELOW LAND SURFACE			
AD 973	394502077240301	BLUE RIDGE SUMMIT	880	000MBSL	71.3		T	11/16/00
AD 991	394444077234101	BLUE RIDGE SUMMIT	880	000MBSL	122.39		T	08/15/01
AD1062	394442077233601	BLUE RIDGE SUMMIT	870	000MBSL	182		E	08/15/01
AD1063	394533077234601	IRON SPRINGS	810	000MBSL	320		E	08/15/01
AD1063	394533077234601	IRON SPRINGS	810	000MBSL	43		T	09/05/01
AD1127	394511077235901	IRON SPRINGS	960	000MBSL	65.5		T	11/06/00
AD1152	394433077230901	BLUE RIDGE SUMMIT	770	000MTRL	47.41		T	11/06/00
AD1152	394433077230901	BLUE RIDGE SUMMIT	770	000MTRL	51.33		T	08/15/01