



LOCAL CLIMATOLOGICAL DATA Monthly Summary

R.E. BYRO INTERNATIONAL AP.

LATITUDE 37° 30' N LONGITUDE 77° 20' W ELEVATION (GROUND) 164 FEET TIME ZONE EASTERN 13740

AUG 1988
 RICHMOND, VA

DATE	TEMPERATURE °F			DEGREE DAYS BASE 65°F		WEATHER TYPES	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES	WIND (M.P.H.)				SUNSHINE		SKY COVER (TENTHS)								
	MAXIMUM	MINIMUM	AVERAGE	DEPARTURE FROM NORMAL	AVERAGE DEW POINT			HEATING (SEASON BEGINS WITH JUL)	COOLING (SEASON BEGINS WITH JAN)		WATER EQUIVALENT (INCHES)	SNOW, ICE PELLETS (INCHES)	RESULTANT DIR.	RESULTANT SPEED	AVERAGE SPEED	PEAK GUST	DIRECTION	FASTEST 1-MIN	MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT			
1	2	3	4	5	6	7A	7B	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
01	92	70	81	3	73	0	16	1	8	0	0.00	0.0	29.870	04	2.3	5.0	14	N	10	35	797	94	4	3	
02	91	72	82	4	73	0	17	1	8	0	0.00	0.0	29.970	11	4.1	4.7	15	E	13	11	660	78	3	2	
03	90	72	81	3	73	0	16	1	8	0	0.00	0.0	30.020	10	7.1	8.0	18	E	16	10	602	72	7	6	
04	93	71	82	4	72	0	17	1	8	0	0.00	0.0	30.010	15	6.5	6.9	21	SE	12	14	702	84	6	4	
05	91	70	81	3	71	0	16	1	8	0	0.00	0.0	29.925	15	6.9	7.3	25	SE	16	15	721	86	4	3	
06	94	69	82	4	71	0	17	3	8	0	0.96	0.0	29.800	23	2.9	5.4	29	NW	18	31	735	88	4	5	
07	89	73	81	3	73	0	16	1	8	0	T	0.0	29.790	33	2.2	5.1	15	W	10	26	742	89	6	6	
08	93	71	82	4	71	0	17	1	8	0	0.00	0.0	29.820	09	1.3	5.5	12	N	10	04	736	89	1	1	
09	90	71	81	3	73	0	16	1	8	0	0.04	0.0	29.850	11	5.0	6.2	18	E	12	05	687	83	4	3	
10	93	74	84	6	75	0	19	1	3	8	0	T	0.0	29.890	20	3.7	7.5	20	S	14	22	674	81	8	7
11	89	74	82	4	74	0	17	1	8	0	0.00	0.0	29.955	21	10.3	10.6	18	SW	16	21	500	61	8	7	
12	94	72	83	6	72	0	18	1	8	0	0.00	0.0	29.950	21	9.5	10.3	21	SW	16	21	757	92	1	1	
13	95	70	83	6	72	0	18	1	8	0	0.00	0.0	29.950	19	8.8	9.2	21	SE	13	18	764	93	1	1	
14	94	71	83	6	72	0	18	1	8	0	0.00	0.0	29.920	20	9.1	9.3	22	SW	14	19	768	94	2	2	
15	96	74	85	8	73	0	20	3	8	0	0.17	0.0	29.790	22	10.9	11.8	25	W	17	30	770	94	1	3	
16	93	70	82	5	67	0	17	1	8	0	0.00	0.0	29.790	28	3.8	7.0	17	SW	12	21	758	93	2	2	
17	99*	71	85	8	69	0	20	1	8	0	0.00	0.0	29.740	25	6.1	8.4	22	SW	15	21	763	94	6	4	
18	93	76	85*	8	71	0	20	3	8	0	T	0.0	29.660	35	3.5	6.7	12	02	06	70	74	5	4		
19	91	71	81	4	73	0	16	1	3	8	0	0.51	0.0	29.690	02	3.9	5.2	16	36	485	60	9	9		
20	78	71	75	-1	72	0	10	1	3	8	0	0.42	0.0	29.640	18	1.2	2.3	8	19	30	4	10	10		
21	85	65	75	-1	65	0	10	1	8	0	0.00	0.0	29.710	36	6.2	6.4	15	34	458	57	5	5			
22	83	61	72	-4	59	0	7	1	8	0	0.00	0.0	29.930	05	4.1	5.1	10	02	722	90	2	2			
23	82	59*	71	-5	63	0	6	1	8	0	T	0.0	29.900	15	6.1	6.2	14	17	200	25	9	8			
24	90	70	80	4	67	0	15	1	8	0	0.10	0.0	29.640	20	6.4	7.5	21	S	18	19	462	58	4	5	
25	89	67	78	2	62	0	13	1	8	0	0.00	0.0	29.600	19	2.8	5.0	10	21	716	90	1	2			
26	93	66	80	4	65	0	15	1	8	0	0.00	0.0	29.650	18	4.9	5.3	10	21	714	90	2	2			
27	91	69	80	5	70	0	15	1	8	0	0.00	0.0	29.835	18	7.0	7.5	12	21	593	75	7	6			
28	90	71	81	6	72	0	16	1	8	0	T	0.0	29.940	17	7.6	7.8	13	16	158	20	9	9			
29	89	68	79	4	73	0	14	1	3	8	0	0.75	0.0	29.800	16	5.9	11.4	24	18	131	17	8	8		
30	78	68	73	-2	65	0	8	1	8	0	0.00	0.0	29.820	36	7.1	7.2	16	N	12	36	42	5	10	9	
31	80	60	70*	-5	59	0	5	1	8	0	0.00	0.0	29.950	03	4.3	5.0	17	NE	10	05	605	77	5	5	
SUM	SUM					TOTAL	TOTAL			TOTAL	TOTAL		FOR THE MONTH:							TOTAL	%	SUM	SUM		
2788	2157					0	465			2.95	0.0	29.830	18	2.4	7.0				24	18	18052	FOR	154	144	
AVG.	AVG.					DEP.	DEP.			DEP.									DATE:	DATE: 29	POSSIBLE	MONTH	AVG.	AVG.	
89.9	69.6					3.0	69.6			0.99											25250	71	5.0	4.6	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF											
						TOTAL	TOTAL	≥ 0.01 INCH.						SNOW, ICE PELLETS OR ICE AND DATE											
MAXIMUM TEMP.		MINIMUM TEMP.				0		1327		THUNDERSTORMS		PRECIPITATION		SNOW, ICE PELLETS											
≥ 90°		≤ 32°		≤ 0°		DEP.		DEP.		HEAVY FOG		0		0.96		06		0							
21		0		0		0		194		CLEAR		10		PARTLY CLOUDY		13		CLOUDY 8							

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
 † TRACE AMOUNT.
 + ALSO ON EARLIER DATE(S).
 HEAVY FOG: VISIBILITY 1/4 MILE OR LESS.
 BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA.

DATA IN COLS 6 AND 12-15 ARE BASED ON 21 OR MORE OBSERVATIONS AT HOURLY INTERVALS. RESULTANT WIND IS THE VECTOR SUM OF WIND SPEEDS AND DIRECTIONS DIVIDED BY THE NUMBER OF OBSERVATIONS. COLS 16 & 17: PEAK GUST - HIGHEST INSTANTANEOUS WIND SPEED. ONE OF TWO WIND SPEEDS IS GIVEN UNDER COLS 18 & 19: FASTEST MILE - HIGHEST RECORDED SPEED FOR WHICH A MILE OF WIND PASSES STATION (DIRECTION IN COMPASS POINTS). FASTEST OBSERVED ONE MINUTE WIND - HIGHEST ONE MINUTE SPEED (DIRECTION IN TENS OF DEGREES). ERRORS WILL BE CORRECTED IN SUBSEQUENT PUBLICATIONS.

I CERTIFY THAT THIS IS AN OFFICIAL PUBLICATION OF THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION, AND IS COMPILED FROM RECORDS ON FILE AT THE NATIONAL CLIMATIC DATA CENTER



NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Haden
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1988
RICHMOND, VA 13740

HOUR	L.S.T.	VISI-BILITY			TEMPERATURE			WIND			VISI-BILITY			TEMPERATURE			WIND			VISI-BILITY			TEMPERATURE			WIND																																										
		SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																		
AUG 1st																							AUG 2nd																							AUG 3rd																						
01	0	UNL	7		73	72	71	94	22	5	2	UNL	5		H	76	75	74	94	00	0	0	UNL	6		F	74	74	74	100	04	4																																				
04	0	UNL	5		71	70	70	97	04	3	0	UNL	5		FH	74	73	73	97	00	0	8	UNL	1		F	73	73	73	100	00	0																																				
07	4	UNL	3		76	73	72	88	31	5	1	UNL	2		H	76	75	74	94	13	3	8	UNL	0		F	74	73	73	97	05	6																																				
10	6	UNL	5		85	78	75	72	03	6	0	UNL	5		H	87	79	75	68	00	0	8	UNL	8		F	84	76	73	70	06	5																																				
13	3	UNL	5		90	78	73	58	06	7	6	40			H	90	77	71	54	11	8	8	UNL	8		H	87	77	72	61	10	8																																				
16	1	UNL	5		91	77	71	52	01	6	4	UNL	5		H	89	77	72	57	10	7	7	UNL	10		H	88	75	69	53	10	13																																				
19	4	UNL	5		86	77	73	65	06	5	3	UNL	5		H	83	77	74	74	11	9	6	UNL	10		H	82	76	73	74	11	9																																				
22	6	UNL	5		79	76	75	88	15	4	0	UNL	6		H	76	74	73	91	13	3	2	UNL	8		H	77	75	74	91	12	5																																				
AUG 4th																							AUG 5th																							AUG 6th																						
01	0	UNL	8		74	73	72	94	12	3	2	UNL	7			74	73	73	97	19	3	2	UNL	8			72	71	70	94	17	3																																				
04	0	UNL	8		73	72	72	97	11	4	0	UNL	7			72	71	71	97	15	3	3	UNL	7			70	69	69	97	00	3																																				
07	9	UNL	7		76	75	74	94	12	6	2	UNL	3		F	75	74	73	94	16	5	1	UNL	7			76	73	72	88	28	3																																				
10	6	250	10		87	77	72	61	15	8	5	UNL	15			84	75	70	63	13	7	3	UNL	10			85	75	71	63	32	7																																				
13	5	UNL	15		91	76	70	50	16	5	4	UNL	15			88	76	70	55	17	10	4	UNL	15			89	76	70	54	32	3																																				
16	3	UNL	15		88	76	70	55	15	10	5	UNL	15			84	75	71	65	15	14	5	UNL	15			92	77	70	49	22	8																																				
19	5	UNL	10		80	74	71	74	14	7	3	UNL	15			81	72	68	65	14	7	10	250	15			86	77	73	65	20	5																																				
22	2	UNL	10		75	74	73	94	16	6	2	UNL	8			75	72	71	87	13	4	10	70	8		R	73	72	72	97	19	3																																				
AUG 7th																							AUG 8th																							AUG 9th																						
01	10	8	7		73	73	73	100	22	3	0	UNL	3		FH	74	73	73	97	19	5	0	UNL	6		H	75	74	73	94	11	3																																				
04	10	80	7		75	74	73	94	00	0	0	UNL	3		FH	73	72	71	94	27	4	0	UNL	3		FH	71	71	71	100	13	3																																				
07	10	100	5		76	74	73	91	28	3	0	UNL	2		FH	74	73	73	97	15	4	2	UNL	1		FH	75	74	73	94	11	4																																				
10	9	UNL	6		83	76	73	72	01	7	3	UNL	6		H	87	74	68	53	04	8	0	UNL	6		H	86	78	74	68	06	6																																				
13	7	30	6		88	77	73	61	34	8	0	UNL	6		H	92	76	68	46	23	7	3	UNL	6		H	89	77	72	57	09	10																																				
16	4	UNL	3		87	76	71	59	34	7	2	UNL	6		H	90	76	69	50	07	4	5	UNL	6		H	87	78	74	65	10	6																																				
19	0	UNL	3		83	75	72	70	13	3	2	UNL	6		H	84	76	73	70	12	5	10	55	8		H	79	77	76	91	16	8																																				
22	0	UNL	5		76	75	74	94	17	3	0	UNL	6		H	77	73	71	82	16	7	2	UNL	10		H	76	75	74	94	17	3																																				
AUG 10th																							AUG 11th																							AUG 12th																						
01	0	UNL	7		75	74	74	97	12	4	10	90	5		F	77	75	74	91	19	9	2	UNL	8			74	72	71	90	17	7																																				
04	7	21	6		74	74	74	100	36	4	10	6	5		F	75	74	73	94	20	10	0	UNL	7			73	72	71	94	20	9																																				
07	9	UNL	6		76	75	75	97	36	5	10	9	2		F	76	75	74	94	19	9	0	UNL	6		H	77	74	73	88	21	7																																				
10	6	25	6		85	77	74	70	24	3	7	23	10			83	77	75	77	22	12	0	UNL	10			87	77	72	61	21	14																																				
13	8	40	7		92	79	74	56	21	5	9	50	10			87	79	75	68	22	10	1	UNL	15			91	78	73	56	21	14																																				
16	8	100	7		88	80	77	70	20	11	9	80	10			87	79	75	68	24	10	2	UNL	15			93	76	69	46	24	11																																				
19	9	100	7		79	76	75	88	17	4	5	UNL	10			83	77	74	74	20	10	3	UNL	15			86	76	72	63	18	9																																				
22	10	100	5		78	75	74	88	20	9	3	UNL	10			76	72	70	82	20	6	0	UNL	10			78	74	72	82	18	7																																				
AUG 13th																							AUG 14th																							AUG 15th																						
01	0	UNL	7		77	74	72	85	20	10	0	UNL	10			74	73	72	94	19	6	0	UNL	15			76	73	72	88	20	8																																				
04	0	UNL	7		73	72	71	94	20	6	0	UNL	10			72	71	71	97	20	5	0	UNL	15			75	74	73	94	20	8																																				
07	0	UNL	7		78	75	73	85	20	7	1	UNL	7			77	74	73	88	19	4	0	UNL	10			77	75	74	91	22	9																																				
10	0	UNL	8		88	79	75	66	20	7	1	UNL	10			88	78	74	63	19	10	0	UNL	10			88	79	76	68	21	12																																				
13	5	UNL	10		92	78	72	52	15	7	4	UNL	15			91	77	71	52	21	11	2	UNL	10			94	81	76	56	21	11																																				
16	2	UNL	10		93	78	72	51	18	10	2	UNL	15			94	78	71	47	19	12	1	UNL	8			95	80	74	51	22	14																																				
19	0	UNL	10		85	76	72	65	17	8	2	UNL	15			85	77	73	67	18	8	4	UNL	8			89	78	73	59	21	13																																				
22	0	UNL	10		77	74	72	85	18	9	1	UNL	15			79	75	73	82	19	9	10	70	7			75	73	72	90	21	10																																				
AUG 16th																							AUG 17th																							AUG 18th																						
01	4	UNL	7		77	70	66	69	30	8	0	UNL	7			75	72	71	87	36	3	3	UNL	8			83	73	68	61	25	10																																				
04	0	UNL	10		74	70	67	79	05	4	0	UNL	5		F	72	71	70	94	18	4	3	UNL	7			80	72	68	67	26	8																																				
07	0	UNL	4		76	71	68	76	27	4	8	UNL	4		H	77	73	71	82	34	5	2	UNL	6		H	82	73	68	63	31	8																																				
10	0	UNL	10		85	70	61	45	01	7	4	UNL	6		H	91	73	63	39	25	4	3	UNL	5		H	89	76	70	54	36	8																																				
13	3	UNL	10		90	74	66	45	31	8	6	UNL	6		H	96	76	67	39	28	10	10	UNL	6		H	93	79	73	52	36	3																																				
16	2	UNL	10		92	74	66	42	22	8	3	UNL	6		H	97	79	71	43	21	13	10	250	7		TRW	88	77	73	61	03	6																																				
19	6	UNL	10		83	75	72	70	20	6	7	UNL	8			90	77	71	54	22	10	4	UNL	10			83	75	72	70	06	4																																				
22	1	UNL	12		80	74	71	74	19	4	0	UNL	8			86	73	67	53	24	10	4	UNL	10			80	75	73	79	00	0																																				

WEATHER CODES

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> * TORNADO T THUNDERSTORM Q SQUALL R RAIN RW RAIN SHOWERS ZR FREEZING RAIN L DRIZZLE | <ul style="list-style-type: none"> ZL FREEZING DRIZZLE S SNOW SW SNOW SHOWERS SG SNOW GRAINS SP SNOW PELLETS IC ICE CRYSTALS IP ICE PELLETS | <ul style="list-style-type: none"> IPW ICE PELLET SHOWERS A HAIL F FOG IF ICE FOG GF GROUND FOG BD BLOWING DUST | <ul style="list-style-type: none"> BN BLOWING SAND BS BLOWING SNOW BY BLOWING SPRAY K SMOKE H HAZE D DUST |
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CEILING: UNL INDICATES UNLIMITED
 WIND DIRECTION: DIRECTIONS ARE THOSE FROM WHICH THE WIND BLOWS, INDICATED IN TENS OF DEGREES FROM TRUE NORTH: I.E., 09 FOR EAST, 18 FOR SOUTH, 27 FOR WEST. AN ENTRY OF 00 INDICATES CALM
 SPEED: THE OBSERVED AVERAGE ONE-MINUTE VALUE, EXPRESSED IN KNOTS (MPH=KNOTS X

OBSERVATIONS AT 3-HOUR INTERVALS

AUG 1988
RICHMOND, VA

13740

HOUR L.S.T.	SKY COVER (TENTHS)			VISI-BILITY		TEMPERATURE				WIND			SKY COVER (TENTHS)	VISI-BILITY			TEMPERATURE				WIND										
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES		16THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE	WEATHER	AIR OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
AUG 19th																															
01	5	UNL	7		76	75	74	94	00	0	10	50	5	F	71	70	70	97	32	3	8	20	2	F	73	73	73	100	00	0	
04	8	40	6	F	75	74	74	97	00	0	10	2	2	RWF	71	71	71	100	19	7	10	2	2	F	71	71	71	100	03	4	
07	10	45	5	F	75	74	74	97	01	9	10	2	1	RWF	71	71	71	100	22	4	10	8	2	F	72	71	71	97	35	6	
10	7	UNL	6	H	83	75	72	70	11	3	10	5	1	RF	74	73	72	94	00	0	7	15	2	H	76	71	69	79	34	7	
13	10	UNL	6	H	86	78	74	68	36	14	10	8	1	RF	75	73	72	90	00	0	3	UNL	7		83	71	65	55	33	6	
16	10	UNL	6	H	83	77	74	74	01	10	10	16	2	F	77	74	73	88	00	0	1	UNL	15		83	67	58	43	35	10	
19	10	16	5	H	79	75	73	82	04	6	10	35	2	F	76	75	74	94	00	0	4	UNL	15		74	65	59	60	01	6	
22	10	90	7	RW	72	71	71	97	19	3	10	45	2	F	74	74	74	100	06	4	0	UNL	10		67	63	61	81	36	4	
AUG 20th																															
AUG 21st																															
AUG 22nd																															
AUG 23rd																															
AUG 24th																															
AUG 25th																															
AUG 26th																															
AUG 27th																															
AUG 28th																															
AUG 29th																															
AUG 30th																															
AUG 31st																															

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	STATION PRESSURE (INCHES)	TEMPERATURE				WIND SPEED (MPH)	RESULTANT WIND	
			AIR TEMP OF	WET BULB OF	DEN POINT OF	REL HUMIDITY %		DIRECTION	SPEED (MPH)
01	3	29.830	73	71	70	90	5.0	20	2.8
04	4	29.820	72	70	70	94	5.1	19	2.2
07	5	29.850	74	72	71	90	6.1	23	0.6
10	4	29.860	83	74	70	66	7.6	17	1.3
13	6	29.835	87	75	69	56	8.7	18	2.4
16	5	29.800	88	75	69	55	9.6	19	3.9
19	6	29.800	80	73	70	72	7.2	16	4.0
22	4	29.840	75	72	70	85	6.0	18	4.3

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

AUG 1988
RICHMOND, VA

13740

DATE	A.M. HOUR ENDING AT												P.M. HOUR ENDING AT												DATE
	1	2	3	4	5	6	7	8	9	10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	
01																								01	
02																									02
03																									03
04																									04
05																									05
06																			0.38	0.58	T	T			06
07																									07
08																									08
09																		0.01	0.03						09
10																		T							10
11																									11
12																									12
13																									13
14																									14
15																					0.15	0.02			15
16																									16
17																									17
18																									18
19																									19
20																									20
21																									21
22																									22
23																									23
24	0.02	0.05	0.03	T																					24
25																									25
26																									26
27																									27
28																									28
29																									29
30																									30
31																									31

PRECIP GAGE INOP DAYS 19-20, 6-HRLY VALUES USED.

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.22	0.42	0.61	0.75	0.84	0.86	0.87	0.89	0.91	0.96	0.96	0.96
ENDED: DATE	06	06	06	06	06	06	06	06	06	06	06	06
ENDED: TIME	1956	2001	2005	2010	2012	2028	2045	2105	2125	2059	2059	2059

THE PRECIPITATION AMOUNTS FOR THE INDICATED TIME INTERVALS MAY OCCUR AT ANY TIME DURING THE MONTH. THE TIME INDICATED IS THE ENDING TIME OF THE INTERVAL. DATE AND TIME ARE NOT ENTERED FOR TRACE AMOUNTS.

VALIDATED BY:
DON GRISINGER

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