

LOCAL CLIMATOLOGICAL DATA Monthly Summary



R.E. BYRD INTERNATIONAL AP.

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

JAN 1989
 RICHMOND, VA

DATE	TEMPERATURE °F						DEGREE DAYS BASE 65°F		WEATHER TYPES 1 FOG 2 HEAVY FOG 3 THUNDERSTORM 4 ICE PELLETS 5 HAIL 6 GLAZE 7 DUSTSTORM 8 SMOKE, HAZE 9 BLOWING SNOW	SNOW ICE PELLETS OR ICE ON GROUND AT 0700 INCHES	PRECIPITATION		AVERAGE STATION PRESSURE IN INCHES ELEV. FEET ABOVE M.S.L.	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		FASTEST 1-MIN		MINUTES	PERCENT OF TOTAL POSSIBLE	SUNRISE TO SUNSET	MIDNIGHT TO MIDNIGHT				
																SPEED	DIRECTION	SPEED	DIRECTION								
01	43	37	40	3	37	25	0	1	8	0	0.34	0.0	29.920	03	7.2	9.1	25	N	15	35	0	0	10	10			
02	56	35	46	9	38	19	0	2		0	0.00	0.0	29.820	25	5.9	7.5	16	W	13	24	378	55	7	8			
03	46	31	39	2	35	26	0	2	8	0	0.04	T	29.550	07	2.6	6.9	43	NW	24	33	189	33	10	9			
04	40	21	31	-6	16	34	0			0	0.00	0.0	29.790	34	12.8	13.9	36	NW	24	33	528	91	2	3			
05	42	17*	30*	-7	16	35	0			0	0.00	0.0	30.015	18	5.0	5.8	15	S	12	17	497	86	3	4			
06	47	33	40	3	37	25	0	1	4	8	0.25	T	29.850	14	2.2	6.1	17	SW	13	23	104	18	10	10			
07	40	36	38	1	38	27	0	2			0	T	30.070	04	4.7	6.0	14	NE	12	03	0	0	10	10			
08	64	40	52	15	50	13	0	2			0.10	0.0	29.890	22	9.2	10.9	29	SW	17	21	0	0	10	10			
09	54	39	47	10	36	18	0		4		0.03	T	30.130	28	2.8	6.5	18	NW	13	31	0	0	10	10			
10	40	33	37	0	35	28	0	1			0.01	T	30.310	03	0.6	5.6	10	S	10	34	0	0	10	9			
11	52	32	42	5	36	23	0	2			0	T	30.360	13	2.3	6.1	16	W	9	12	334	57	9	9			
12	52	40	46	9	42	19	0	1			0.56	0.0	30.050	28	3.1	9.0	23	SW	15	24	80	14	10	10			
13	52	27	40	4	33	25	0	1			0.34	0.0	30.100	36	6.9	10.3	28	N	18	02	171	29	8	6			
14	40	21	31	-5	25	34	0				0.03	0.0	30.300	18	2.3	3.4	12	SE	8	21	334	57	8	7			
15	56	34	45	9	41	20	0	1			0.16	0.0	29.890	23	4.9	7.3	17	W	13	23	283	48	7	8			
16	51	29	40	4	35	25	0	2	8		0	T	29.950	01	5.8	6.9	22	NW	15	35	410	69	7	6			
17	53	23	38	2	21	27	0				0.00	0.0	30.050	22	7.6	8.0	28	SW	18	23	595	99	0	0			
18	61	26	44	8	24	21	0				0.00	0.0	29.890	22	7.9	8.4	22	SW	14	24	596	99	0	0			
19	62	35	49	13	27	16	0				0.00	0.0	29.870	24	8.0	8.8	21	SW	14	22	597	99	2	2			
20	59	34	47	11	24	18	0				0.00	0.0	29.760	29	9.1	12.8	38	NW	23	31	533	89	4	3			
21	38	23	31	-5	11	34	0				0.00	0.0	30.230	36	9.6	11.5	28	N	21	01	600	99	1	1			
22	50	19	35	-1	16	30	0				0.00	0.0	30.230	16	1.6	3.5	12	S	7	18	403	67	9	9			
23	56	32	44	8	25	21	0				0.00	0.0	30.030	02	7.0	7.5	15	NE	13	03	443	73	7	6			
24	67	25	46	10	23	19	0		8		0.00	0.0	29.985	26	1.7	4.2	10	S	7	20	474	78	6	5			
25	61	32	47	10	28	18	0		8		0.00	0.0	30.150	07	6.4	7.5	21	NE	14	06	400	66	5	6			
26	62	36	49	12	40	16	0	1	8		0	T	29.990	23	7.7	10.8	32	SW	18	22	282	46	10	10			
27	61	36	49	12	27	16	0				0.00	0.0	29.840	29	8.8	10.5	26	W	16	30	485	79	0	1			
28	57	27	42	5	28	23	0				0.00	0.0	30.090	20	4.9	7.6	23	SW	14	17	520	85	2	3			
29	68*	34	51	14	31	14	0				0	T	29.910	22	4.7	7.0	16	S	12	20	499	81	9	6			
30	62	50	56*	19	49	9	0	1			0.02	0.0	29.610	25	7.2	10.2	23	W	17	25	12	2	10	9			
31	63	30	47	10	34	18	0				0.00	0.0	29.740	21	8.1	10.3	24	SW	17	23	486	79	6	3			
SUM	SUM					TOTAL	TOTAL	NUMBER OF DAYS			TOTAL	TOTAL	FOR THE MONTH:					TOTAL	%	SUM	SUM						
1655	967					696	0				1.88	T	29.980	27	1.9	8.1	43	NW	24	33	10233	for	202	193			
AVG.	AVG.					DEP.	DEP.	PRECIPITATION			DEP.						DATE: 3	DATE: 4+	POSSIBLE	MONTH	AVG.	AVG.					
53.4	31.2					-184	0	> .01 INCH. 11			-1.35									18439	55	6.5	6.2				
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS		GREATEST IN 24 HOURS AND DATES					GREATEST DEPTH ON GROUND OF SNOW, ICE PELLETS OR ICE AND DATE												
						2303		0		PRECIPITATION					SNOW, ICE PELLETS												
> 90°						< 32°		< 32°		< 0°		DEP.		DEP.		HEAVY FOG		6		0.58		12-13		trace		10+	
0						0		16		0		-83		0		CLEAR		8		PARTLY CLOUDY		8		CLOUDY		15	

* EXTREME FOR THE MONTH - LAST OCCURRENCE IF MORE THAN ONE.
 T 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

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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION

NATIONAL ENVIRONMENTAL SATELLITE, DATA AND INFORMATION SERVICE

NATIONAL CLIMATIC DATA CENTER ASHEVILLE NORTH CAROLINA

Kenneth D. Walden
 DIRECTOR NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1989
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)																																																											
JAN 1st																														JAN 2nd																														JAN 3rd																													
01	10	45	7	R	42	38	31	65	12	3	10	4	2	F	37	37	37	100	34	5	10	200	7	F	41	40	39	93	01	4	3																																																										
04	10	45	7	R	40	39	37	89	06	5	10	6	2	F	38	38	37	96	31	5	10	200	6	F	38	38	37	96	31	3																																																											
07	10	40	7		40	38	35	82	07	8	10	1	0	F	35	35	35	100	23	7	10	250	1	F	32	32	32	100	00	0	7																																																										
10	10	8	0	RF	39	39	38	96	01	7	10	6	2	F	39	38	37	93	23	7	10	250	3	F	42	40	38	86	10	7	7																																																										
13	10	5	6	F	40	40	39	96	04	11	3	UNL	7		54	48	41	62	24	11	10	120	7		45	40	34	66	06	6	7																																																										
16	10	4	2	LF	39	39	38	96	02	10	5	UNL	7		54	47	39	57	24	9	10	23	7		45	41	36	71	14	7	7																																																										
19	10	5	2	F	38	38	38	100	01	9	8	UNL	7		44	42	39	83	21	5	10	23	7	R	41	37	32	70	13	6	7																																																										
22	10	5	2	F	38	38	37	96	34	8	4	UNL	7		43	42	40	89	23	9	10	75	7		38	37	35	89	33	5	5																																																										
JAN 4th																														JAN 5th																														JAN 6th																													
01	3	UNL	10		38	36	32	79	31	13	0	UNL	10		23	19	9	55	04	3	10	70	8		37	32	24	59	18	5	5																																																										
04	7	75	10		38	33	23	55	33	11	0	UNL	10		20	18	14	78	00	0	10	30	2	F	34	33	32	92	23	5	5																																																										
07	7	50	10		34	29	20	57	35	13	2	UNL	10		22	20	13	68	15	3	10	30	2		34	34	34	100	14	5	5																																																										
10	2	UNL	10		36	29	15	42	33	21	7	60	10		28	24	14	56	14	6	10	35	2	RF	37	37	36	96	18	3	3																																																										
13	5	UNL	10		39	31	16	39	34	20	0	UNL	10		38	30	13	36	20	6	10	6	1	F	43	42	41	93	19	5	5																																																										
16	1	UNL	10		38	30	12	34	34	15	2	UNL	10		41	32	16	36	17	8	10	30	5	H	46	44	41	83	00	0	0																																																										
19	0	UNL	10		30	24	10	43	01	8	6	UNL	10		35	30	19	52	16	8	10	50	3	F	44	43	41	89	01	4	4																																																										
22	0	UNL	10		24	20	8	50	03	3	10	120	10		37	32	22	55	17	10	10	8	3	F	41	40	39	93	02	7	7																																																										
JAN 7th																														JAN 8th																														JAN 9th																													
01	10	5	3	F	39	38	37	93	02	7	10	1	0	2	LF	41	41	41	100	33	3	10	100	7		52	46	40	64	29	6	6																																																									
04	10	1	0	2	F	36	36	36	100	02	6	10	1	0	2	LF	42	42	42	100	16	7	10	35	7		50	43	34	54	33	8	8																																																								
07	10	1	0	4	LF	37	37	37	100	01	7	10	1	0	4	LF	44	44	44	100	18	10	10	35	7		47	40	31	54	30	8	8																																																								
10	10	3	0	8	LF	37	37	37	100	02	6	10	3	1	1	RF	51	51	51	100	19	12	10	25	6	RIP	41	40	38	89	20	5	5																																																								
13	10	3	0	12	F	39	39	38	96	05	5	10	12	6	F	61	59	58	90	21	14	10	20	6	R	42	40	37	83	18	7	7																																																									
16	10	3	0	8	F	40	40	39	96	11	4	10	20	7		64	60	57	78	23	13	10	40	10		42	40	38	86	18	5	5																																																									
19	10	2	0	2	LF	39	39	39	100	09	5	10	120	7		59	57	55	87	26	10	10	45	10	R	41	39	37	86	33	8	8																																																									
22	10	2	0	2	F	40	40	40	100	06	6	10	35	7		55	53	52	90	26	5	10	100	10		39	39	38	96	18	5	5																																																									
JAN 10th																														JAN 11th																														JAN 12th																													
01	10	28	6	RF	39	38	37	93	26	4	10	3	1	8	F	38	38	37	96	25	8	10	33	6	RF	40	39	37	89	07	5	5																																																									
04	10	28	7		36	34	32	85	06	3	10	6	1	12	F	39	38	37	93	25	6	10	6	3	RF	40	39	37	89	05	4	4																																																									
07	10	12	7	RS	36	35	34	93	02	3	5	UNL	1	4	F	32	32	32	100	00	0	10	4	1	8	RF	40	39	37	89	35	8	8																																																								
10	10	3	2	F	36	36	35	96	12	5	10	1	0	2	F	37	37	37	100	14	4	10	4	1	RF	41	40	39	93	36	7	7																																																									
13	10	5	2	F	38	37	36	93	01	5	9	UNL	6	F	48	46	43	83	10	6	10	4	1	8	F	43	42	41	93	30	7	7																																																									
16	10	8	5	F	39	38	36	89	13	6	10	250	7		51	44	34	52	09	7	10	80	3	F	48	47	45	89	22	8	8																																																										
19	10	10	7	F	39	38	37	93	18	5	10	250	7		44	40	35	71	12	8	10	7	3	F	48	47	46	93	23	11	11																																																										
22	5	UNL	5	F	37	37	36	96	25	5	10	120	7		42	39	35	76	12	6	10	9	5	F	50	49	48	93	22	10	10																																																										
JAN 13th																														JAN 14th																														JAN 15th																													
01	10	8	5	R	52	51	50	93	23	14	0	UNL	10		26	24	19	75	01	4	10	25	6	R	39	38	37	93	30	10	10																																																										
04	10	6	2	8	RF	52	52	51	96	25	7	4	UNL	10		24	23	19	81	00	0	10	4	5	RF	35	35	34	96	30	4	4																																																									
07	10	4	2	RF	51	51	50	96	36	6	6	UNL	10		21	20	18	88	04	3	10	3	5	RF	36	36	35	96	22	9	9																																																										
10	10	25	3	LF	41	40	38	89	02	11	2	UNL	7		34	30	22	62	16	6	10	4	1	8	F	41	41	40	96	23	10	10																																																									
13	9	100	8		41	36	27	58	01	10	10	100	7		40	34	24	53	20	3	10	9	5	F	48	46	44	86	26	10	10																																																										
16	3	UNL	12		43	35	22	43	01	12	10	23	7		40	35	27	60	19	5	2	UNL	7	7	F	55	51	47	75	19	5	5																																																									
19	0	UNL	10		35	30	19	52	02	5	10	25	7	R	38	35	31	76	20	3	10	UNL	6	F	47	47	46	96	00	0	0																																																										
22	0	UNL	10		31	27	17	56	03	7	10	14	7		38	37	36	93	23	3	7	UNL	3	F	43	43	43	100	08	3	3																																																										
JAN 16th																														JAN 17th																														JAN 18th																													
01	10	1	0	4	F	45	45	45	100	10	5	0	UNL	7		26	25	22	85	23	4	0	UNL	7		34	30	23	64	25	5	5																																																									
04	10	5	1	F	44	44	43	96	02	12	0	UNL	7		25	24	22	88	21	4	0	UNL	7		30	28	23	75	19	4	4																																																										
07	10	4	2	F	42	42	41	96	02	6	0	UNL	7		24	23	20	85	00	0	0	UNL	7		28	26	23	82	18	4	4																																																										
10	10	UNL	3	F	43	41	38	83	02	9	0	UNL	8		39	34	25	57	21	7	0	UNL	8		42	36	27	55	20	5	5																																																										
13	9	45	7		47	42	36	66	34	5	0	UNL	15		50	38	17	27	23	15	0	UNL	10		57	44	26	30	19	10	10																																																										
16	1	UNL	7		50	40	24	36	35	13	0	UNL	15		53	40	18	25	23	10	0	UNL	10		60	43	17	19	24	12	12																																																										
19	0	UNL	10		40	36	29	65	34	5	0	UNL	15		41	34	22	47	22	8	0	UNL	10		45	37	24	44	21	9	9																																																										
22	0	UNL	10		31	30	29	92	00	0	0	UNL	15		35	30	22	59	19	6	0	UNL	10		46	38	27	48	23	10	10																																																										

WEATHER CODES

- * TORNADO
- T THUNDERSTORM
- Q SQUALL
- R RAIN
- RW RAIN SHOWERS
- ZR FREEZING RAIN
- L DRIZZLE
- ZL FREEZING DRIZZLE
- S SNOW
- SW SNOW SHOWERS
- SG SNOW GRAINS
- SP SNOW PELLETS
- IC ICE CRYSTALS
- IP ICE PELLETS
- IPW ICE PELLET SHOWERS
- A HAIL
- F FOG
- IF ICE FOG
- GF GROUND FOG
- BD BLOWING DUST
- BN BLOWING SAND
- BS BLOWING SNOW
- BY BLOWING SPRAY
- K SMOKE
- H HAZE
- D DUST

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 1.15).

OBSERVATIONS AT 3-HOUR INTERVALS

JAN 1989
RICHMOND, VA 13740

HOUR L.S.T.	VISI-BILITY				WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY				WEATHER	TEMPERATURE				WIND											
	SKY COVER (TENTHS)	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		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	AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)				
JAN 19th																																	
01	0	UNL	7			46	38	27	48	26	9	0	UNL	7			40	35	27	60	18	4	0	UNL	10			36	30	19	50	32	10
04	0	UNL	7			43	37	27	53	26	7	6	UNL	7			37	34	29	73	18	6	0	UNL	10			33	28	18	54	33	13
07	0	UNL	7			42	37	29	60	27	7	7	UNL	7			36	33	29	76	21	8	0	UNL	10			30	27	20	66	34	16
10	1	UNL	7			51	42	31	47	22	9	9	250	10			50	41	30	46	26	8	0	UNL	10			30	23	4	33	01	18
13	2	UNL	10			60	45	26	27	26	10	1	UNL	10			59	45	26	28	28	14	0	UNL	10			34	26	5	29	01	13
16	3	UNL	10			61	45	24	24	22	12	2	UNL	10			55	40	16	21	29	18	1	UNL	10			35	26	4	27	04	8
19	1	UNL	10			43	36	25	49	22	10	0	UNL	10			46	35	15	29	33	15	3	UNL	10			27	22	10	49	04	6
22	8	UNL	10			43	37	27	53	20	5	2	UNL	10			41	34	21	45	31	13	4	UNL	10			24	20	8	50	13	3
JAN 20th																																	
JAN 21st																																	
JAN 22nd																																	
JAN 23rd																																	
JAN 24th																																	
JAN 25th																																	
JAN 26th																																	
JAN 27th																																	
JAN 28th																																	
JAN 29th																																	
JAN 30th																																	
JAN 31st																																	

SUMMARY BY HOURS

HOUR L.S.T.	SKY COVER (TENTHS)	AVERAGES						RESULTANT WIND	
		STATION PRESSURE (INCHES)	TEMPERATURE			REL HUMIDITY %	WIND SPEED (MPH)	DIRECTION	SPEED (MPH)
			AIR TEMP OF	WET BULB OF	DEW POINT OF				
01	6	29.980	39	36	31	75	7.3	29	2.8
04	6	29.980	37	35	31	79	6.2	30	2.2
07	6	30.000	35	33	30	82	6.6	32	1.8
10	7	30.030	42	38	31	70	9.4	27	1.1
13	7	29.960	50	42	32	57	10.6	25	3.2
16	6	29.940	52	43	31	52	10.5	24	3.4
19	6	29.970	44	39	31	64	7.7	23	1.4
22	6	29.980	41	37	31	70	7.6	23	1.9

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

JAN 1989
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	T	T	T	0.01	0.02			0.02	0.02	0.13	0.10	0.02	0.02											01	
02																								02	
03																								03	
04																							0.04	04	
05																								05	
06		0.02	0.10	T				0.01	0.02	0.02	0.06	0.02	T											06	
07							T	T	T	T	T	T												07	
08	T	T	T	0.01	T	0.01	0.01	0.01	0.01	0.05	T	T							T	T			T	08	
09																								09	
10	T	T	T	T	T		T	T	0.01	0.01	0.01	T											T	10	
11																								11	
12	0.03	0.02	0.06	0.04	0.06	0.08	0.10	0.06	0.05	0.05	0.01	T											T	12	
13	0.05	0.02	0.01	0.01	0.06	0.06	0.03	0.08	0.02	T	T													13	
14																								14	
15	T	0.01	0.01	0.05	0.05	0.04	T	T															T	15	
16																								16	
17						T	T																	17	
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29																								29	
30																								30	
31										T	0.01	T											0.01	31	

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.04	0.06	0.09	0.10	0.13	0.16	0.19	0.21	0.21	0.23	0.23	0.26
ENDED: DATE	01	01	01	01	01	01	01	01	01	01	01	01
ENDED: TIME	0955	0959	1001	1008	1016	1028	1028	1028	1028	1059	1212	1212

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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