

OCT 1987
 RICHMOND, VA
 NAT'L WEA SER OFC
 BOX A-63, RICHMOND INT'L AIRPORT

ISSN 0198-537X

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

OCT 1987
 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. 177 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	DIRECTION	FATEST 1-MIN	DIRECTION	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	66	45	56	-8	41	9	0		0	T	0.0	29.660	32	10.3	11.9	36	NW	24	33	622	88	2	2
02	75	43	59	-5	46	6	0		0	0.00	0.0	29.790	19	10.5	10.9	32	SW	20	21	707	100	0	0
03	59	45	52	-12	47	13	0	1 3	0	0.30	0.0	29.790	34	10.5	12.1	30	N	21	35	0	0	10	8
04	61	34	48	-15	32	17	0		0	0.00	0.0	29.900	31	7.5	9.1	29	NW	18	31	702	100	0	0
05	71	36	54	-9	37	11	0		0	0.00	0.0	29.840	18	4.8	5.2	15	SW	10	19	699	100	0	0
06	72	46	59	-3	50	6	0	1 3	0	0.51	0.0	29.650	18	10.5	11.5	40	SW	23	24	612	88	9	7
07	67	49	58	-4	45	7	0	1	0	0.00	0.0	29.620	26	7.4	8.6	20	NW	14	26	601	87	4	3
08	62	40	51	-10	38	14	0		0	0.00	0.0	29.935	31	7.7	8.6	24	NW	15	31	648	94	3	2
09	65	34	50	-11	38	15	0		0	0.00	0.0	30.220	19	3.9	5.5	16	SW	12	21	678	98	2	1
10	75	45	60	-1	48	5	0		0	0.00	0.0	30.150	19	5.2	6.0	16	S	9	20	678	99	0	2
11	79*	49	64*	-4	50	1	0	1	0	T	0.0	29.950	36	4.3	9.4	30	N	18	03	534	78	5	7
12	51	38	45	-15	38	20	0		0	0.03	0.0	29.890	01	11.3	11.5	25	N	18	02	38	6	10	8
13	59	37	48	-12	33	17	0		0	0.00	0.0	29.970	01	11.8	12.2	30	N	20	01	639	94	1	0
14	62	36	49	-10	36	16	0		0	0.00	0.0	30.115	02	8.4	8.9	23	NE	14	03	678	100	0	0
15	66	34	50	-9	36	15	0		0	0.00	0.0	30.070	36	5.4	5.7	20	NE	10	03	676	100	0	0
16	72	36	54	-4	40	11	0	1 8	0	0.00	0.0	30.040	02	2.8	4.5	12	NE	9	09	673	100	2	1
17	71	40	56	-2	50	9	0	2	0	0.00	0.0	29.930	02	0.9	3.9	13	NE	7	21	362	54	6	3
18	73	45	59	-1	48	6	0	1	0	0.00	0.0	29.900	04	2.1	4.5	20	NE	14	05	642	96	0	1
19	74	42	58	-1	48	7	0	1	0	0.00	0.0	29.920	16	4.1	4.7	15	S	9	13	602	90	2	3
20	77	44	61	-4	52	4	0	1	0	0.01	0.0	29.840	18	7.1	8.1	21	S	16	20	497	75	5	7
21	64	41	53	-4	38	12	0	8	0	T	0.0	29.845	31	10.5	12.0	25	NW	20	33	391	59	7	6
22	58	30	44	-12	26	21	0		0	0.00	0.0	30.140	31	3.6	7.0	23	NW	15	36	659	100	0	0
23	69	34	52	-4	29	13	0		0	0.00	0.0	30.190	20	8.3	8.8	20	SW	15	20	657	100	4	2
24	74	37	56	0	33	9	0		0	0.00	0.0	30.170	18	6.8	7.1	20	S	16	18	648	99	2	1
25	61	36	49	-6	35	16	0		0	0.00	0.0	30.070	36	7.6	10.2	30	N	17	02	451	69	9	6
26	61	34	48	-7	32	17	0		0	0.00	0.0	30.030	05	3.8	6.2	18	E	14	07	600	92	4	2
27	52	34	43*	-12	44	22	0	1	0	0.40	0.0	29.730	35	7.6	8.9	24	N	15	32	0	0	10	9
28	60	38	49	-5	36	16	0		0	0.00	0.0	29.800	32	7.7	8.5	22	N	15	33	592	92	4	5
29	61	29*	45	-9	31	20	0		0	0.00	0.0	29.970	23	4.4	5.2	23	W	16	24	615	95	4	3
30	71	38	55	-1	38	10	0		0	0.00	0.0	30.040	20	7.6	9.0	26	SW	17	22	596	93	3	3
31	78	42	60	-6	45	5	0		0	0.00	0.0	30.190	07	2.5	6.8	20	E	12	12	640	100	1	1
SUM	SUM	SUM	SUM	SUM	SUM	TOTAL	TOTAL	NUMBER OF DAYS	TOTAL	TOTAL	TOTAL	FOR THE MONTH:				TOTAL	%	SUM	SUM			SUM	SUM
2066	1211					370	0		1.25	0.0	29.950	31	1.9	8.1	40	SW	24	33	17137	FOR	109	93	
AVG.	AVG.	AVG.	DEP.	AVG.	DEP.	DEP.	DEP.	PRECIPITATION	DEP.						DATE: 6	DATE: 1	POSSIBLE	MONTH	AVG.	AVG.			
66.6	39.1	52.9	-5.7	39.9	-2.3	149	-23	≥ .01 INCH.	5	-2.49									20882	82	3.5	3.0	
NUMBER OF DAYS						SEASON TO DATE		SNOW, ICE PELLETS	GREATEST IN 24 HOURS AND DATES				GREATEST DEPTH ON GROUND OF										
						TOTAL	TOTAL	≥ 1.0 INCH					SNOW, ICE PELLETS OR ICE AND DATE										
MAXIMUM TEMP.		MINIMUM TEMP.				375	1634	THUNDERSTORMS	2	PRECIPITATION	SNOW, ICE PELLETS												
≥ 90°	≤ 32°	≤ 32°	≤ 0°	DEP.	DEP.	HEAVY FOG	1	0.51	06	0.0													
0	0	2	0	130	298	CLEAR	17	PARTLY CLOUDY	9	CLOUDY	5												

* 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

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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. Wadsworth
 DIRECTOR
 NATIONAL CLIMATIC DATA CENTER

OBSERVATIONS AT 3-HOUR INTERVALS

OCT 1987 RICHMOND, VA 13740

HOUR L.S.T.	SKY COVER (TENTHS)			WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	VISI-BILITY			WEATHER	TEMPERATURE				WIND																																													
	CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)		CEILING IN HUNDREDS OF FEET	WHOLE MILES	16THS MILE		AIR OF	NET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)																																												
OCT 1st																						OCT 2nd																						OCT 3rd																					
01	1	UNL	10		59	54	49	70	32	8	0	UNL	15		46	45	44	93	14	3	4	UNL	15		58	55	53	84	18	9																																			
04	10	90	10		57	52	47	69	33	9	0	UNL	10		44	44	43	96	18	3	5	UNL	12		56	54	53	90	00	0																																			
07	7	90	10		56	48	40	55	33	12	0	UNL	10		46	45	44	93	19	4	10	70	10		57	53	50	78	36	11																																			
10	1	UNL	10		60	49	38	44	33	21	0	UNL	10		66	55	46	49	20	15	10	45	10		56	49	42	60	35	18																																			
13	1	UNL	10		64	52	39	40	30	16	0	UNL	10		73	57	44	36	21	17	10	30	10		49	47	44	83	34	16																																			
16	1	UNL	15		66	52	37	34	32	10	0	UNL	15		73	57	44	36	20	16	10	10	7	TRW	48	48	47	96	34	12																																			
19	0	UNL	15		57	49	40	53	35	6	0	UNL	15		60	54	48	65	17	7	10	40	7		50	49	47	90	31	8																																			
22	0	UNL	15		48	46	43	83	15	5	0	UNL	15		57	53	49	75	17	8	9	65	10		48	45	41	77	32	9																																			
OCT 4th																						OCT 5th																						OCT 6th																					
01	0	UNL	15		44	39	32	63	33	11	0	UNL	15		40	37	32	73	00	0	0	UNL	15		49	47	44	83	17	5																																			
04	2	UNL	15		39	37	34	82	27	6	0	UNL	15		39	36	32	76	00	0	0	UNL	15		47	46	45	93	18	7																																			
07	0	UNL	15		40	38	35	82	27	7	0	UNL	15		39	36	32	76	00	0	6	UNL	15		48	47	46	93	12	9																																			
10	2	UNL	15		51	42	31	47	30	15	0	UNL	15		62	49	33	34	19	6	9	250	10		65	56	49	56	23	14																																			
13	0	UNL	15		58	45	29	33	31	16	0	UNL	15		69	52	35	29	19	7	10	150	10		69	58	50	51	17	12																																			
16	0	UNL	15		61	47	29	30	30	11	0	UNL	15		69	53	37	31	19	6	10	250	10		70	60	52	53	18	13																																			
19	0	UNL	15		48	44	39	71	17	5	0	UNL	15		55	50	45	69	15	4	10	100	10		63	58	54	73	16	9																																			
22	0	UNL	15		43	38	32	65	00	0	0	UNL	15		51	48	44	77	18	5	10	28	2	8	TRW	56	55	54	93	23	15																																		
OCT 7th																						OCT 8th																						OCT 9th																					
01	10	110	7		54	54	53	96	20	8	0	UNL	20		49	44	39	69	30	7	0	UNL	15		38	37	36	93	14	3																																			
04	0	UNL	5	F	51	51	51	100	23	5	0	UNL	15		43	41	39	86	28	7	0	UNL	15		36	36	35	96	00	0																																			
07	0	UNL	7		50	50	49	96	20	6	0	UNL	15		44	41	38	80	29	6	0	UNL	15		36	35	33	89	00	0																																			
10	4	UNL	10		61	53	46	58	26	12	0	UNL	15		56	47	37	49	31	11	1	UNL	15		55	46	34	45	14	5																																			
13	3	UNL	10		64	54	45	50	26	8	7	50	15		59	48	36	42	31	8	4	UNL	15		63	50	37	38	21	10																																			
16	8	55	12		64	53	42	45	27	11	7	80	15		59	48	36	42	32	11	1	UNL	15		65	52	39	39	21	9																																			
19	3	UNL	20		57	49	41	55	28	8	0	UNL	15		53	46	38	57	32	6	3	UNL	15		54	48	42	64	17	4																																			
22	0	UNL	20		51	47	42	72	28	7	0	UNL	15		43	41	39	86	36	5	1	UNL	8		49	47	45	86	14	4																																			
OCT 10th																						OCT 11th																						OCT 12th																					
01	2	UNL	8		46	45	44	93	20	6	10	UNL	7		53	51	50	90	18	4	10	28	7		51	47	42	72	02	16																																			
04	0	UNL	8		47	46	45	93	22	5	9	UNL	7		51	51	50	96	14	4	10	33	7		49	45	40	71	03	7																																			
07	0	UNL	7		47	46	45	93	20	3	2	UNL	5	F	49	49	48	96	00	0	10	33	7	R	44	42	39	83	01	10																																			
10	0	UNL	10		65	55	45	49	23	8	2	UNL	12		70	59	51	51	22	8	10	60	7		43	42	41	93	36	10																																			
13	0	UNL	15		72	57	45	38	18	5	7	UNL	12		76	63	53	45	26	6	10	60	7		48	43	37	66	36	13																																			
16	0	UNL	15		73	59	48	41	17	7	9	120	10		74	62	53	48	01	13	10	70	8		50	44	37	61	01	10																																			
19	3	UNL	12		60	56	52	75	14	3	10	50	7	RW	60	55	51	72	02	14	7	70	10		48	43	36	63	36	7																																			
22	4	UNL	8		54	52	51	90	15	3	10	30	10		56	51	47	72	01	12	2	UNL	8		40	39	37	89	35	7																																			
OCT 13th																						OCT 14th																						OCT 15th																					
01	0	UNL	7		39	38	36	89	34	8	0	UNL	10		40	38	35	82	01	8	0	UNL	10		38	37	36	93	34	6																																			
04	0	UNL	7		38	36	33	82	35	10	0	UNL	10		38	37	35	89	35	8	0	UNL	10		36	35	34	93	34	6																																			
07	0	UNL	7		39	37	33	79	36	12	0	UNL	10		37	36	35	93	36	8	0	UNL	10		36	35	34	93	34	3																																			
10	0	UNL	15		52	44	35	53	02	16	0	UNL	15		56	47	37	49	03	12	0	UNL	15		55	48	41	60	01	9																																			
13	2	UNL	15		57	45	30	36	03	16	1	UNL	15		60	49	36	41	04	6	0	UNL	15		62	49	34	35	04	6																																			
16	0	UNL	15		57	45	30	36	02	14	0	UNL	15		60	49	36	41	36	10	0	UNL	15		65	49	31	28	35	8																																			
19	0	UNL	15		47	41	33	58	36	7	0	UNL	15		49	44	38	66	03	6	0	UNL	10		50	45	39	66	00	0																																			
22	0	UNL	10		40	38	34	79	35	7	0	UNL	10		42	40	37	83	36	5	0	UNL	10		44	41	38	80	00	0																																			
OCT 16th																						OCT 17th																						OCT 18th																					
01	0	UNL	7		41	39	37	86	33	3	0	UNL	7		43	42	41	93	35	4	0	UNL	6	F	48	48	48	100	00	0																																			
04	0	UNL	5	FH	40	38	36	86	33	3	0	UNL	5		41	41	40	96	32	4	3	UNL	3	F	46	46	45	96	29	3																																			
07	0	UNL	7		39	38	37	93	32	4	10	0	0	F	46	46	46	100	34	5	1	UNL	2	F	46	46	46	100	35	5																																			
10	0	UNL	10		62	52	42	48	05	5	10	2	0	8	F	53	53	53	100	02	5	0	UNL	7		63	55	48	58	05	12																																		
13	0	UNL	10		71	53	35	27	06	6	4	UNL	10		70	62	56	61	21	6	0	UNL	10		70	58	48	46	36	4																																			
16	8	UNL	10		70	54	39	32	13	6	2	UNL	10		71	61	54	55	21	6	0	UNL	10		71	58	48	44	17	4																																			
19	0	UNL	7		54	49	44	69	00	0	0	UNL	7		57	55	54	90	00	0	0	UNL	8		56	53	50	80	00	0																																			
22	0	UNL	7		47	45	42	83	36	3	0	UNL	7		53	52	51	93	00	0	0	UNL	6	F	51	50	48	90	13	3																																			

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

OCT 1987
RICHMOND, VA

13740

HOUR L.S.T.	SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET	VISI-BILITY		WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET	VISI-BILITY	WEATHER	TEMPERATURE				WIND		SKY COVER (TENTHS)	CELLING IN HUNDREDS OF FEET	VISI-BILITY	WEATHER	TEMPERATURE				WIND	
			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)					AIR OF	WET BULB OF	DEW POINT OF	REL HUMIDITY %	DIRECTION	SPEED (KNOTS)
OCT 19th																															
01	0	UNL	6		F	48	47	46	93	00	0	3	UNL	6	F	49	49	48	96	14	4	10	55	5	RWH	62	60	58	87	23	7
04	2	UNL	5		F	45	44	43	93	00	0	8	250	5	F	45	45	44	96	18	3	10	65	5	H	61	59	58	90	24	6
07	2	UNL	5		F	42	42	41	96	00	0	10	70	1	F	48	48	48	100	00	0	10	65	6	H	61	58	55	81	29	9
10	3	UNL	5		H	66	57	50	57	17	6	5	UNL	5	H	65	59	54	68	16	8	10	55	7	H	60	52	44	56	33	17
13	0	UNL	6		H	73	60	51	46	20	6	7	UNL	6	H	74	62	53	48	17	11	8	70	10	H	61	48	33	35	30	5
16	7	UNL	7		H	72	59	48	43	19	8	5	UNL	6	H	75	62	53	46	20	14	0	UNL	15	H	61	46	25	25	32	14
19	7	UNL	7		H	60	54	49	67	15	7	7	UNL	6	H	61	57	53	75	17	7	0	UNL	15	H	50	39	20	31	33	10
22	4	UNL	7		H	53	50	48	83	14	5	10	250	6	H	64	58	54	70	21	7	0	UNL	15	H	44	36	22	42	33	10
OCT 20th																															
OCT 21st																															
OCT 22nd																															
OCT 23rd																															
OCT 24th																															
OCT 25th																															
OCT 26th																															
OCT 27th																															
OCT 28th																															
OCT 29th																															
OCT 30th																															
OCT 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	DEW POINT OF	REL HUMIDITY %		DIRECTION	SPEED (MPH)
01	2	29.940	46	43	40	82	6.5	30	1.4
04	3	29.930	44	42	40	87	5.1	28	2.1
07	4	29.965	43	42	39	86	5.7	34	3.2
10	3	29.985	58	49	40	54	12.5	32	4.2
13	4	29.940	64	52	39	42	11.3	28	2.4
16	4	29.910	65	52	38	41	11.5	28	2.9
19	3	29.940	54	48	41	64	6.8	36	0.3
22	2	29.970	48	45	41	77	6.2	29	0.7

HOURLY PRECIPITATION (WATER EQUIVALENT IN INCHES)

OCT 1987
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																			01	
02																									02
03												T	0.03		0.02	0.14	0.07	0.03	0.01						03
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08																									08
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10																									10
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27								T	T	0.01	0.02	0.02	0.01	T	0.02	0.11	0.12	0.08	0.01	T				27	
28																									28
29																									29
30																									30
31																									31

MAXIMUM SHORT DURATION PRECIPITATION

TIME PERIOD (MINUTES)	5	10	15	20	30	45	60	80	100	120	150	180
PRECIPITATION (INCHES)	0.06	0.12	0.17	0.20	0.23	0.28	0.34	0.43	0.48	0.51	0.51	0.51
ENDED: DATE	06	06	06	06	06	06	06	06	06	06	06	06
ENDED: TIME	2138	2136	2141	2144	2153	2208	2223	2245	2253	2259	2259	2253

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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