CLIMATOLOGICAL

38	VIRGINIA SECTION	
	F. N. HIBBARD, Meteorologist	
Vol. XLIII	RICHMOND, VA., YEAR 1933	No. 13
	GENERAL SHMMARV	

The year as a whole was considerably warmer and drier than usual; but the number of clear, partly cloudy, cloudy and rainy days was practically normal.

The average temperature, 57.6°, has been exceeded only twice in the history of the State, the years 1921 and 1931 averaging 58.4° and 57.8° respectively. The coolest in the last 43 years was that of 1917, with an average of 53.3°. Eight months averaged above normal, the outstanding of which were January, the third warmest of record; May, the second warmest; September, the fifth warmest; and December, the fourth warmest. All station averages for the year were above normal.

The rainfall for the State was 39.46 inches, or about 2.00 inches less than normal. In the 43-year record, the year 1933 ranked 13th in point of dryness. The wettest year of this record was that of 1906, with an average of 50.03 inches; the dryest that of 1930, with an average of 24.99 inches. The only unusually wet months were April, May, July and August; after which last month continued dry weather approximated drought conditions, particularly in the Great Valley section of the State, where the deficiency for the year amounted to more than four inches; and the Tidewater section, where, notwithstanding the record-breaking rains of August, the year's deficiency amounted to nearly three inches. Station monthly amounts ranged from .07 inch at Mount Weather in November to 16.64 inches at Williamsburg in August. Snowfall was half the usual amount.

The production of crops over the State was fair, notwithstanding adverse weather conditions at times. Peaches, and to a less extent, apples, were damaged somewhat by March frosts. The rains of April and May seriously delayed late plantings in northern counties and prevented the proper spraying of fruits in Great Valley. The severe tropical storm of August damaged crops in the eastern section of the State to the extent of \$5,000,000; and the similar, but less intense storm in September added to the loss. Through October and November crop activities in southeastern counties were more or less at a standstill on account of hard ground and dry weather.

Damaging storms during the year are covered in the bulletins of January, March, May, June, July, August, and September.

M	MONTHLY STATE DATA, 1988														
	Ten	aperat	ure	Pre	cipitat	ion	Number of days								
Month	Mean	Highest	Lowest	Average	Greatest 24.	Average snow-fall	Rainy	Clear	Partly cloudy	Cloudy					
January February March April May June July August September October November December	39.4 44.6 55.0 68.0 73.6 74.7 74.4 73.0 56.8	78 77 84 90 97 104 104 99 98 83 81	11 -7 9 23 36 35 40 49 37 20 8 0	3. 39 3. 03 3. 12 4. 50 5. 29 2. 12 5. 48 5. 74 1. 80 1. 30 2. 54	2.51 1.83 2.01 3.05 3.85 2.18 4.64 4.29 1.70 1.58 2.36	1. 9 4. 3 0. 4 T. 0. 0 0. 0 0. 0 0. 0 0. 0 0. 0 1. 5	8 11 10 10 13 7 10 12 6 4 5 8	11 12 12 14 11 17 15 11 15 20 14	8 5 8 11 10 8 11 9 7 7 8	12 11 11 8 9 3 8 9 6 4 9					

KILLING FROSTS, 1983														
Stations	Last in spring	First in autumn	Stations	Last in spring	First in autumn									
Tidewater Virginia Cape Henry Christchurch	Mar. 6 Mar. 25	Nov. 9 Nov. 9	Middle Virginia Con't. Powhatan		Oct. 27									
Dahlgren Diamond Springs Emporia Holland	Mar. 25 Mar. 30 Apr. 14	Nov. 11 Nov. 9 Oct. 26 Oct. 26	Quantico Randolph Rockymount Stuart	Mar. 30 Apr. 27	Oct. 26 Oct. 19 Oct. 26 Oct. 15									
Hopewell Langley Field Norfolk Onley	Mar. 30 Mar. 25 Mar. 11 Apr. 14	Nov. 9 Nov. 16 Nov. 9 Nov. 9	Washington		Oct. 26									
Richmond Tappahannock Walkerton Wallaceton	Mar. 30 Apr. 27 Apr. 27	Nov. 9 Nov. 9 Oct. 26	Blacksburg Buchanan Burkes Garden Catawba Sanatorium	Apr. 27 Apr. 27	Oct. 6 Oct. 26 Oct. 6									
Williamsburg Middle Virginia Callaville	Mar. 30	Nov. 9	Dale Enterprise Damascus Dante	Apr. 28 Apr. 27 Apr. 27	Oct. 19 Oct. 19 Oct. 26 Oct. 9									
Charlottesville	Mar. 30	Oct. 26 Oct. 26 Oct. 26	Deerfield Emory Floyd Glen Lyn	Apr. 27	Oct. 7 Oct. 6 Oct. 11 Oct. 26									
Columbia Culpeper Danville Farmville	Apr. 27 Apr. 23 Mar. 30 Apr. 27	Oct. 19 Oct. 26 Oct. 26 Oct. 15	Hot Springs Ivanhoe Lexington Mendota		Oct. 19 Oct. 11 Oct. 26									
Fredericksburg Halifax Kenbridge Lincoln	Apr. 27 Apr. 14 Apr. 27	Oct. 26 Oct. 25 Oct. 15 Oct. 26	Monterey North River Dam Pennington Gap Roanoke	Apr. 13 Apr. 13	Oct. 11 Oct. 9 Oct. 19									
Lynchburg Martinsville Mineral Mount Weather	Mar. 30 Apr. 27 Apr. 21	Oct. 27 Oct. 19 Oct. 26 Oct. 26	Saltville Staunton. Winchester Woodstock	Apr. 12 Apr. 23 Apr. 23 Apr. 27	Oct. 25 Oct. 26 Oct. 26 Oct. 26									
New Canton	Apr. 27	Oct. 26	Wytheville	Apr. 13	Oct. 11									

COMPARATIVE ANNIIAL DATA FOR THE STATE

COMPARATIVE ANNUAL DATA FOR THE STATE													
Year	Mean tempera- ture	Highest	Lowest	Average pre- cipitation	verage snow- fall	o of rainy days	o. of clear days	No. of partiy cloudy days	No. of cloudy				
Normals Or Extremes		109	29	41.43	17.0	103	162	102	101				
1891 1892 1893 1894 1895 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1906 1906 1907 1908 1909 1910 1911 1911 1911 1911 1911	55. 6 54. 6 56. 8 56. 4 6 56. 6 6 55. 7 1 55. 6 6 56. 8 55. 4 5 55. 6 6 56. 8 55. 4 6 56. 8 55. 6 6 56. 6 6 55. 6 6 6 6 6 6 6 6 6 6	106 106 107 108 107 108 107 108 108 109 109 109 109 109 109 109 109 109 109		47. 94 48. 29 48. 29 49. 49 49	23.1 17.0 38.8 8.7 36.7 18.6 6.7 14.9 24.9 15.2 17.0 0 0 12.9 9.2 22.3 18.5 18.5 18.5 24.7 7.1 18.5 18.5 18.5 18.6 18.7 18.5 18.5 18.5 18.5 18.5 18.5 18.5 18.5	95 103 88 994 995 995 111 1124 115 103 100 101 101 112 116 97 110 101 110 101 110 101 110 101 101 10	163 166 174 163 171 162 176 167 170 170 172 170 155 143 159 162 171 151 149 162 171 151 168 169 161 161 163 164 165 166 167 168 168 169 169 169 169 169 169 169 169 169 169		10201100000000000000000000000000000000				
1923 1924 1925 1926 1927	56. 1 54. 4 56. 6 55. 5 56. 5 55. 7 56. 2 56. 9	103 107 103 107 104	- 1 -12 -14 - 6 - 7	40, 90 47, 34 32, 53 41, 41 41, 64	10.3 12.8 9.5 16.5 10.4	104 105 98 112 113	168 165 160 157 148	96 90 99 97 103	10 11 10 11 11				

Climatological Data for the Year 1933

Stations Tidewater Virginia	Countles	Blevation, feet	Length of record, years	u e					ģ.		Þ		I T		-	rainy	L	b	P	125
Tidawatan Vinginia	1	Ele	Length o	Annual mean	Highest	Date	Lowest	Date	Length of record, years	Total for the year	Greatest monthly	Month	Least monthly	Month	Total snowfall	Number of redays	Number of clear days	Number of partly cloudy days	Number of cloudy days	Prevailing direction of wind
Cape Henry Pr Christ Church Mi Dahlgren Ki Diamond Springst! Pr Emporia. Gr Holland Ne Hopewell Pr Langley Field El Norfolk No Onley Ac Richmond He Tappahannock Es Walkerton Ki Wallaceton Ri Williamsburg Ja	rincess Anne liddlesex ing George rincess Anne reensville ansemond rince George litzabeth City orfolk .ccomae tenrico .ssex .ing and Queen .ichmond ames City	20 87 18 25 100 80 40 10 91 40 170 25 40 15 70	60 10 14 25 42 63 15 54 3 1	60. 9 59. 6 57. 9 63. 0 	97 100 97 99 102 102 96 99 97 100 96 102 100	Aug. 2 June 20 July 31† June 22 June 9 June 22 June 9† June 22 June 9†	20 7 11 18 	Dec. 29 Feb. 6 Dec. 29 Feb. 6 Feb. 6 Feb. 6 Dec. 30 Dec. 30 Feb. 6 Feb. 6 Feb. 6	60 10 14 25 3 1 45 46 63 16 62 3 1 7 33	30.76 45.24 38.93 44.89 39.10 39.31; 37.58 32.42 35.93 47.10 38.73 41.50‡ 45.99 51.14	8. 68 11.78 6. 80 14. 80 7. 08 9. 33 7. 48 9. 42 13. 13 12. 08 8. 84 10. 29 9. 86 11. 78 16. 64	Aug. Aug. May Aug. Aug. Aug. Aug. Aug. Aug. Aug. Aug.	0.30 0.70 1.09 0.15 0.29 1.30 0.10 0.39 1.00 0.72 1.43 0.66 0.80 0.52	Oct. Oct. Sept. Oct. Nov. Oct. Oct. Oct. Oct. Oct. Oct. Oct. Oct	0.2 5.0 4.8 0.0 6.0 4.1 0.4 1.7 6.0 7.5 8.5 4.0 3.0	106 94 117 72 106 107 113 110 120 110 98 	118 225 82 194 187 118 101 92 135 123 153 212 182	130 64 160 122 84 167 120 115 145 119 144 76 77	117 76 123 49 94 80 144 158 85 123 68 77 106	SW.
Callaville (near) Al Charhottesville (near) Al Chatharn Pi Clarendon Ar Clarksville Me Columbia Fil Culpeper Ct Danville Pi Farmville Pi Farmville Pi Farmville Pi Farmville Pi Farmville Pi Fredericksburg (near) St Halifax H. Keubridge Lt Lincoln II Lc Lynchburg Ca Manassas (near) Pr Martinsville He Mineral (near) Lc New Canton Br Orange Or Powhatan Pc Quantico Pr Randolph Cb	atrick		38 41 10 16 32 25 18 13 43 23 32 32 32 38 38 38 31 31 31 32 32 32 32 32 32 32 32 32 32 32 32 32	59. 0 58. 4 59. 2 60. 0 58. 6 58. 6 59. 4 59. 1 59. 4 57. 2 59. 1 56. 6 56. 8 57. 9 56. 8 57. 9 56. 8 57. 9	100 101 102 104 101 96 103 100 96 101 100 99 94 99 94 99 97 102 99 100	June 217 June 227 June 217 June 227 June 217 June 227 June 217 June 227 June 227 June 217 June 227	10 9 3 9 8 0	Nov. 17 Dec. 30 Nov. 17† Dec. 30 Nov. 17† Dec. 30 Jan. 30 Feb. 6 Dec. 30 Jan. 9† Nov. 17† Dec. 30 Feb. 6† Feb. 6† Feb. 6† Feb. 65 Feb. 30 Dec. 30 Dec. 30	9 43 35 26 43 13 41 3 2 32 64 3 18	35. 47 37. 95 46. 58 32. 58 52. 25 38. 262 40. 21 35. 78 41. 34 35. 87 44. 91 33. 87 44. 91 33. 87 44. 91 43. 91 43. 91 43. 91 43. 91 44. 91 43. 91 44. 91 45. 62 46. 92 47. 92 4	5. 40 5. 91 8. 26 6. 96 6. 96 6. 51 7. 70 8. 89 6. 51 7. 70 8. 81 8. 37 6. 31 8. 41 8. 37 6. 31 7. 62 7. 18 7. 92 8. 92 9. 93 9. 94 9. 94 96 96 96 96 96 96 96 96 96 96 96 96 96	Apr. Aug. July May Aug. May May Aug. July July Aug. Apr. Aug. Aug. Aug. Aug. Aug. Aug. Aug. Aug	0. 28 0.52 0.84 0.20 0.97 0.46 0.30 1.06 0.33 0.40 0.33 0.45 0.35 0.45 0.35 0.45 0.35 0.46 0.70 0.46 0.70 0.83 0.45 0.70 0.68 0.68 0.70	Sept. Oct. Nov. Sept. Nov. Oct. Nov. Sept. Oct. Nov. Sept. Nov. Sept. Nov. Sept. Nov. Sept. Nov. Sept. Nov. Nov. Nov. Nov. Nov. Nov. Nov. Nov	6.0 1.5 13.2 17.3 0.0 6.7 6.7 6.1 5.0 12.5 2.5 9.0 3.0 7.8 14.0 7.8 14.0 4.0 12.8	1000 822 135 103 106 105 107 107 107 101 108 88 108 109 109 109 109 109 109 109 109 109 109	218 130 205 172 248 175 267 151 130 174 238 167 151 167 183 160 49 168 49 168 141 221 245 241 245 141	94 105 100 90 91 19 64 25 129 113 104 27 74 145 16 66 66 61 150 40 41 41 155 99	58 130 60 103 98 126 73 85 122 127 100 107 77 124 43 71 107 173 80 65 168 181 1104 79 40 40 40 40 40 40 40 40 40 40 40 40 40	SW. W. B. S. W. S. S. W. SW. W. S. W. SW. W. SW. W. SW. DW. SW. E. HW.
Atton	ielson. tockbridge. larke. tonigomery totetouri. azewell toanoke lleghany. tockingham vashington ussell usgusta vashington loyd iiles tath ythe tockbridge. vashington tighland ugusta ee tonigomery varren toanoke myth ugusta togusta togust	1. 750 725 581 2. 100 820 3. 250 1. 055 2. 102 1. 055 2. 102 2. 103 2. 103	42 16 37 22 54 1 15 7 1 2 39 	55. 0 56. 7 51. 6 56. 4 54. 2 55. 5 56. 1 51. 9 56. 7 56. 0 56. 0 56	93 100 85 96 95 93 95 97 98 93 98 99 96	June 8+ June 8+ June 8+ June 21+ June 21+ June 23- June 24- June 24- June 21+ June 8+ June 21+ June 8+ June 21+ June 8+ June 21+ June 8+ June 21+ June 8+ June 21+ June 8+ June 21+ June 8+ Jun	0 4 7 2 3 3 6 5 5 5 5 6 5 6 5 6 6 6 6 6 6 6 6 6	Feb. 9	3 3 2 42 42 33 38 54 7 7 7 7 1 1 20 42 7 66 2 23 3 3 2 2 28 2 30 12 46 42 60	43. 251 39. 3021 33. 66 38. 53 38. 53 38. 53 43. 03 53. 81 39. 25 44. 39 42. 29 43. 39 30. 28 30. 57 44. 33 49. 63 49. 63 49. 63 49. 63 49. 63 49. 63 49. 63 49. 63 49. 63 50. 144 50. 14	7. 71 6. 89 6. 52 6. 52 7. 04 9. 7. 00 6. 78 8. 94 6. 69 7. 7. 22 9. 6. 80 5. 89 6. 60 7. 7. 22 6. 80 6. 77 6. 80 6. 77 6. 79 6. 80 6. 80 70 80 80 80 80 80 80 80 80 80 80 80 80 80	Apr. Apr. Aug. July May Feb. May July May July May May May May May May May July July July July July July July Jul	0.77 1.00 0.37 0.33 0.93 0.78 0.70 0.78 0.78 0.70 0.78 1.28 1.10 0.71 1.10 0.88 1.10 0.59 1.10 0.88 1.10 0.59 0.69 0.69 0.69 0.69 0.69 0.69 0.69 0.6	Sept. Oct. Sept. Sept. Sept. Oct. Nov. Oct. Nov. Sept. Sept. Sept. Sept. Sept. Sept. Sept. Sept. Nov. Nov. Nov. Nov. Sept. Sept. Sept. Nov. Sept. Sept. Nov. Sept. Sept. Nov. Sept. Nov. Sept. Nov. Sept. Nov. Sept. Nov. Nov. Nov. Sept. Nov. Nov. Nov. Nov. Sept. Nov. Nov. Nov. Nov. Nov. Nov. Nov. Nov	1.5 26.0 9.0 15.0 16.0 11.3 4.8 6.7 8.3 12.6 6.7 8.0 10.2 11.7 9.0 11.3	108 84 108 109 109 109 132 128 138 105 108 175 124 114 109	122 196 161 169 156 145 161 145 161 145 161 145 165 113 164 145 165 165 113 164 145 165 165 165 165 165 165 165 165 165 16	139 80 114 95 770 114 95 770 114 147 161 137 72 137 72 137 85 55 181 103 101 101 101	104 90 107 90 161 366 122 54 110 53 91 110 149 105 102 111 134 114 102 101 101	W. W. SW. SW. SW. SW. SW. SW. SW. SW. SW

Section and State averages are computed from monthly means.

All other records are used in determining section and division means, but the mean departures from normal temperature and precipitation are based only on records from stations that have 10 or more years of observation.

Reference letters, *, b, *, appearing in the tables indicate number of days missing: for example, b represents two days, etc.

†Also on other dates. *Interpolated. †Partially interpolated.

‡Prost-office addresses of these stations are as follows: Diamond Springs, Norfolk; Lincoln, Purcellville: Mount Weather, Bluemont.

T. Precipitation is less than 0.01 inch rain or snow.

Monthly and Assus	I Dunaimitation for the	Tree 1000	nartures from the Normal

Stations		Monthly and Annua					1						1		i						I		1				
Tributanter 1.01 - 1.1 2.01 - 0.2 2.1 - 1.7 2.0 1 - 1.8 2.0 1 - 1.0 2.0 1.0 2.0 1.0 2.4 1.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2		Jar	uary	Febr	чагу	Ма	rch_	Ap	ril	M	ау	Ju	пе	Ju	ly	Aug	ust	Septe	mber	Octo	ber	Nove	mber	Decer	nber	Ann	nal
Cape Barry	Stations	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure	Precipitation	Departure
Summord String	Tidewater														<u>'</u>			,		· '		<u> </u>				·	
Reference	Cape Henry Christchurch Dahlgren Diamond Springs Emporia Holland Hopewell Langley Field Noriolk Onley Richmond Tappahannock Walkerton Wallaceton (near) Williamsburg Means	3.7 3.6 *3.5 3.1 2.9 4.0 3.8 *4.2 5.3 3.6 4.1	5 + 0.26 $4 - 0.26$ $5 + 0.14$ $6 + 0.15$ $9 + 0.11$ $4 + 0.97$ $5 + 0.64$ $7 - 0.04$ $7 - 0.04$ $7 - 0.04$ $7 - 0.04$	3.34 3.00 *3.07 2.15 2.58 2.52 4.00 *2.73 *2.82 2.97 3.80 3.31	-0.03 -1.25 -1.06 -0.70 +0.32 -0.44	2.70 2.50 2.80 1.79 1.98 2.51 2.15 1.83 2.08 1.96	-2. 27 -1. 81 -1. 79 -1. 41 -1. 53	3.05 5.30 2.78 4.63 4.20 2.13 3.60 4.02 2.76 3.32 3.07 5.74	-0. 18 -1. 21 +1. 30 -1. 10 +0. 03 +0. 53 -1. 10 -1. 10	2.43 7.08 2.78 4.56 2.25 1.76 5.93 4.84 4.66 3.96 2.86 5.28	-1.69 -1.12 -2.05 +2.70 +1.05 +1.74	1. 63 5. 60 3. 84 2. 02 2. 69 2. 05 1. 34 1. 63 1. 80 0. 85 2. 14	-3.53 -2.59 -1.79 -2.17 -1.99 -2.27	6.30 3.03 7.20 4.25 3.23 5.26 4.70 4.59 5.08 5.60 7.89 6.61	+0. 62 -0. 31 -1. 11 -0. 49 +0. 50 -0. 14 +0. 90	14. 80 4. 32 9. 33 7. 48 9. 42 13. 13 12. 08 8. 84 10. 29 9. 86 11. 78 16. 64	+3.11 +5.39 +7.91 +7.69 +4.42	4. 17 1. 32 2. 42 2. 39 1. 32 2. 07 3. 58 1. 05 1. 49 1. 51 5. 72 1. 86	+0.33 -1.33 -1.83 -1.16 +0.84 -2.20	0. 15 0. 55 0. 35 1. 30 0. 10 0. 39 1. 00 0. 72 2. 06 0. 66 0. 80 0. 52	2. 74 3	1. 45 1.04 0.29 3.1.48 0.31 0.99 0.2.29 1.17 1.50 2.53 0.89 1.30	-0.98 -0.77 -0.90 -1.17 -0.05 -1.04	1. 12 1. 72 0. 88 2. 38 0. 77 0. 66 2. 23 3. 14 3. 34 3. 21 1. 31 1. 88	-3.11 -0.91 -2.33 -2.68 -1.44 -0.15	44. 89 39. 10 39. 31 37. 58 32. 42 35. 93 47. 10 88. 73 41. 50 41. 60 45. 99 51. 14	-1.43 -6.07 -6.81 -8.16 +6.56 -3.29 +5.51
Lynchburg (1)	Bedford Callaville Charlottesville (near) Chatham Clarendon Clarksville Columbia Culpeper Danville Farmville Farmville Fredericksburg (near) Halifax Kenbridge	4.1 3.7 4.5 2.4 3.7 4.0 2.4	0 +0.8 0 +0.2 1 +1.4 3 -1.0 6 +1.1 8 +0.9 4	3.91 7.2.26 5.2.44 3.64 2.93 1.93 3.77 *3.29	+0.25 -0.55 1 0.00 1+0.16 3 -0.30 3 -0.97	3.56 2.71 2.86 3.50 2.10 1.51 4.73 4.00	$ \begin{array}{c} -0.11 \\ -0.83 \\ +0.24 \\ 00.14 \\ 32.22 \\ -1.89 \\ -1.89 \end{array} $	4.53 5.83 6.51 3.68 4.86 4.42 4.37 4.26	+1.04 +2.29 +3.09 +0.42 +2.12 +0.94	6. 82 6. 86 4. 49 7. 72 5. 90 6. 28 7. 11 4. 96	2 + 2.79 $3 + 3.42$ $3 + 0.68$ $3 + 2.06$ $3 + 2.40$	1.59 1.96 1.24 0.69 4.08 2.06 1.76	-2.43 -2.18 -3.48 -3.10 -0.08 -2.15	3.72 6.74 5.61 5.14 7.70 6.55 7.80	2 — 0, 79 +2, 59 +2, 00 1 +0, 69 0 +3, 49 5 +2, 29	2. 65 2 5. 68 5. 66 2 3. 88 9 4. 10 8. 09 2. 96	-1.78 +1.04 +1.45 -0.56 -0.44 +3.33	3.37 0.99 1.87 1.05 0.88 1.21 0.33 1.78	+0.25 -2.06 -1.37 -2.01 -1.36 -1.92	0.46 1.76 2.26 0.46 0.30 1.41 0.62 0.40	5 -2.22 5 -1.44 6 -0.46 6 -2.36 -3.66 -1.71	2 1. 21 0.89 0.58 1. 01 2 1. 12 1 1.06 1.57	-1.02 -1.41 -1.79 -1.32 -0.90 -1.08	2,36 3,25 2,21 2,58 3,49 1,25 3,03 2,72	$ \begin{array}{r} -0.91 \\ +0.09 \\ -0.76 \\ -0.69 \\ +0.34 \\ -1.76 \\ \end{array} $	38 28 42 62 40 21 35 78 41 34 39 80 40 49 39 87	-4.12 +1.17 +1.19 -6.03 +0.28 -1.68
Afton. 3. 66	Lincoln Lynchburg Manassas (near). Martinsville. Mineral (near). Mount Weather New Canton Orange. Powhatan Quantico Randolph Rockymout Stuart Washington, D. C.	3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6 3.6	73 - 0.7 70 $74 + 0.4$ $31 + 0.5$ $54 + 0.6$ $41 + 0.5$	2.1. 2.4. 3.4. 2.5. 3.8. 2.5. 3.8. 2.7. 3.5.	7 - 0.98 $7 - 0.98$ $7 - 0.09$ $7 + 1.59$ $7 - 0.38$	3. 90 3. 90 3. 90 3. 90 3. 90 4. 00 2. 50 2. 50 2. 50 2. 50 2. 50 3. 10 3. 90 3. 90 4. 00 3. 90 4. 00 3. 90 4. 00 3. 90 4. 00 4.	22 - 0. 82 3	5.86 3.41 5.86 5.21 5.31 6.5.21 6.5.21 6.5.21 6.4.97 6.4.97 6.3.40 6.4.74	+1,46 +1,70 +1,58 +1,54 +1,54 +2,02 +1,40 +1,40 +1,40	4.26 5.77 6.77 6.98 5.56 5.56 5.56 5.77 4.76 6.20 6.20	$\begin{array}{c} 6 + 0.65 \\ 6 + $	2.61 2.17 1.38 0 1.97 0 1.20 1.07 2.34 7 1.84 7 2.04 4 2.38 1.98 1.98 1.91 3.88	-1. 18 -1. 94 -3. 56 -2. 58 -1. 95 -1. 29 -1. 41 3 -1. 41 3 -2. 76 -1. 57 3 -0. 28	8 4.36 4.88 5.70 6.21 6.21 7.92 7.92 6.51 6.51 3.18 6.71	0+0.09 0+0.09 0+1.9	9 3.50 8.32 8.32 6.31 7 5.12 6.36 6.61 7.57 4.20 0 7.32 0 9.91	0 -0. 28 3 3 2 +4. 11 2 +0. 37 6 +1. 29 1 +2. 43 7 +2. 92 0 +0. 12 5 -0. 38 2 +1. 81 1 +5. 90	0. 35 0. 91 0. 64 1. 85 0. 46 1. 27 0. 58 0. 83 1. 04 1. 25 1. 34 2. 62	-2.96 -0.87 +5.55 -2.72 -1.85 -2.78 -2.14 -1.68 -2.33 -2.86 -2.66	5 1.45 3 27 0.95 1.20 1.77 5 1.77 5 2.05 8 2.60 8 1.40 2.37 1.56 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.78 0.95 0.78 0.95 0.	5-1.76 7 5.	1.25 0.85 1.49 3.0.07 1.0.96 1.72 0.92 0.77 1.36 9.1.73 1.73 9.1.73	-1.08 -2.16 -2.33 -1.36 -1.73 -1.16 -0.86 -0.86 -0.86 -1.46	3 3.86 2.40 1.94 2.97 2.1.34 3.61 3.27 5 3.24 2.75 2.68 5 2.70 2.04 2.43	+0.60 +0.30 +0.50 +0.50 +0.27 +0.07 +0.07 -0.68 -0.94 -2.22 -0.89	33. 61 43. 05 35. 66 39. 30 49. 08 40. 09 41. 92 40. 08 41. 14 38. 68 33. 41 2 36. 26 49. 11	-6.92 -0.79 +8.80 -0.93 +1.05 +3.23 +3.19 -1.73 -11.54 -10.80 +6.95
Berryville. 3, 72		. 3. 3	32 +0.2	0: 2.8	2 -0.2	3,2	3 -0.48	4.9	1+1,67	0.7	1.98	2.20	1.98	5.60	+1.2	3, 5, 72	2 +1.38	1,58	3-1.48	1.0	9-1.4	8 1.00	1.38	2.67	-0.45	40.34	1. 05
Radford 2.25 -0.78 2.83 $+0.10$ 2.31 -0.87 2.63 -0.12 4.12 $+0.97$ 2.16 -1.61 5.05 $+0.98$ 1.85 -1.46 0.76 -2.07 0.76 -2.34 0.99 -1.05 2.59 -0.42 28.30 -8.67 Riverton 4.02 $+1.62$ 2.32 4.14 $+0.91$ 4.18 $+1.36$ 4.20 $+1.16$ 1.07 6.08 5.29 4.08 1.99 -0.44 1.09 3.44 -5.35 8altville 4.02 $+1.99$ 4.63 $+1.27$ 3.65 -0.61 2.12 -1.08 7.08 7.08 $+2.85$ 2.95 -1.01 5.39 $+0.89$ 2.37 -2.09 1.69 -1.11 0.63 -2.23 1.78 -1.26 3.46 -0.32 3.96 -0.31 8 Sherring 4.62 $+0.32$ 3.90 -0.47 2.43 -0.32 2.30 -0.27 2.46 -0.69 5.66 $+2.73$ 4.47 $+1.09$ 1.75 -2.83 1.75 -2.83 1.18 -1.70 0.84 -2.35 1.18 -1.70 0.54 -1.61 0.78 -0.32 3.65 -0.61 3.19 -0.87 2.43 -0.32 2.30 -0.27 2.46 -0.69 5.66 $+2.73$ 4.47 $+1.03$ 1.48 -2.73 7.44 $+3.42$ 4.67 $+0.79$ 0.84 -2.35 1.18 -1.70 0.54 -1.67 1.97 -0.53 35.44 -2.29 Timberville 3.66 -1.86 5.29 -0.99 2.76 -0.99 2.76 -0.99 2.70 -0.99 3.12 -0.32 3.34 -0.32 3.34 -0.32 3.34 -0.32 3.34 -0.32 3.35 -0.97 1.35 -0.95 2.66 -0.12 4.76 -0.90 5.35 -0.95 2.70 -0.99 3.12 -0.99 3.13 -0.99 3.14 -0.99 3.14 -0.99 3.14 -0.99 3.14 -0.99 3.14 -0.99 3.14 -0	Balcony Falls. Berryville. Blacksburg Buchanan Burkes Garden Catawba Sanatorium. Clifton Forge. Dale Enterprise Damascus Dante Deerfield Emory. Floyd. Glen Lyn	4: *3: 2: 3: 5: 2: 2: 3: 3: 2: 4: *2: 2: 2:	25	2.8 2.0 3.5 5.4 5.4 6.2.7 3.5 1.7 5.3 4.8 2.6 5.2 1.8 3.0 4.2 7	1 1 3 1 3 1 3 1 1 1 1 1 1 1 1 1 1 1 1 1	3.9 2.8 3.2 8.3 3.6 7.4 2.2 3.6 3.9 7.3 3.3 4.1 3.0 3.6 3.6 4.2 4.2 3.6 3.9 4.2 4.2 4.2 4.2 4.2 4.2 4.2 4.2	$\begin{array}{c} 6\\ 7\\ -0.2\\ 5\\ -0.2\\ 3\\ -0.4\\ 9\\ +0.2\\ 1\\ -0.4\\ -0.0\\ 4\\ -0.0\\ 8\\ +0.6\\ \end{array}$	8.42 3.65 7 3.86 4 5.66 4 4.2 2 4.6 5.4 1 4.8 3.3 2 2.7 4.6 2.5 4.1 9 3.3 9 5.4	$ \begin{array}{c} 2 \\ 3 \\ 5 \\ 6 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7 \\ 7$	6.00 5.22 6.00 5.20 7.00 7.00 6.23 6.66 5.33 4.99 4.99 4.90	$ \begin{array}{c} 0 \\ 2 \\ +1.5 \\ 4 \\ +2.4 \\ 8 \\ +1.19 \\ 9 \\ -0.2 \\ 1 \\ +0.7 \\ 6 \\ -0.2 \\ 0 \\ +1.9 \\ 5 \\ 0 \\ +1.9 \\ 8 \\ +1.3 \\ -1.5 $	1.82 1.90 1.90 1.90 1.12 1.42 1.22 1.43 1.22 1.43 1.23 1.43 1.23 1.43 1.23 1.43 1.23 1.43 1.23 1.43 1.23 1.43 1.43 1.43 1.43 1.43 1.43 1.43 1.4	20	3.8-6.55 4.6-65 5.9-6.75 5.9-6.76 6.7-7 8.9-9 4.3-9 6.10 6.11 6.11	$\begin{array}{c} 4 \\ -2 \\ +1.4 \\ -7 \\ +0.0 \\ -0.5 \\ -0$	6.89 9 1.80 7 2.10 3 3.12 9 2.20 5.10 8 5.99 3.3 5 2.30 4.55 2.30 2.50 3 2.80 0 2.5	9 0 —2.12 6 —2.16 2 —1.22 0 —2.43 0 —2.43 1 —2.08 5 —2.08 9 ————————————————————————————————————	4.38 0.30 0.34 2.77 2.56 2.56 1.22 2.40 1.00 1.73 1.00 1.73 1.73 1.73 1.74 1.74 1.74 1.74 1.74 1.74 1.74 1.74	3 2 86 4 2 .99 3 0 .77 5 0 .96 5 0 .96 5 0 .96 6 0 .96 6 0 .96 6 0 .96 7 +- 0 .36 6 0 .96 6 0 .96 7 0 .96 8 0 .96 8 0 .96 9 0	1.75 6 0.88 4 1.55 5 0.99 6 2.00 1.3 1.12 1.6 3 1.00 8 0.9	$ \begin{array}{ccccccccccccccccccccccccccccccccc$	0.78 1 0.98 4 J.55 8 2.34 4 0.99 1 0.88 2 0.77 1 4 4 1.77 0.88 1.56 1 1.56 9 1.66	3 -1 33 1 -0.77 4 -0.5 9 -1.55 9 -1.4 9 -1.3 9 -1.3 9 -1.3 9 -1.3 9 -1.3 9 -1.3 9 -1.3 9 -1.3 9 -1.5 9 -	1.99 2.75 3.31 1.2.72 2.3.00 2.92 4.1.54 2.83 4.00 2.57 2.50 3.57 2.50 3.69	5 -0.48 4 -0.16 2 -0.93 5 -0.33 6 -1.06 3 -1.06 7 -0.27 9 +0.72	39, 30 39, 62 33, 66 38, 53 34, 63 43, 63 40, 81 40, 81 42, 29 37, 15 42, 29 30, 24 42, 35 42, 36 36, 57	-7. 90 -2. 55 -3. 31 -8. 64 +0. 16 -4. 93 -2. 32 -3. 78
	Lexington Mendota Monterey North River Dam Pennington Gap. Radford Riverton Roanoke Saltville Speers Perry Staunton Timberville Winchester Woodsrock Wytheville	1. 3. 4. 3. 2. 3. 2. 4. 4. 2. 3. 3. 3. 2. 2. 2. 2. 2. 3. 3. 3. 2. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3. 3.	92 -1.2 633 +0.4 133 -0.1 82 228 25 -0.7 71 -0.4 62 +1.6 62 +0.3 43 -0.3 60 52 +1.6 72 +1.5 90 -0.5	3. 0 3. 0 3. 0 4. 8 4. 6 8. 10 2. 1 10 2. 1 2. 1 2	0 + 0.40 $0 + 0.40$ $0 + 0.40$ $0 + 0.40$ $0 + 0.40$ $0 + 0.40$ $0 + 0.10$ $0 + 0.10$ $0 + 0.10$ $0 + 0.40$	4 2.9 4 3.1 6 3.8 6.2 4.9 0 2.3 2.3 4.1 7 3.6 9 4.8 7 2.4 5 3.4 5 3.4 5 3.4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 3.7 6 5.0 8 3.1 6.2 7 2.6 4.1 1 2.1 4 2.6 6.7 4.2 9 5.6 6.7 4.2 3 3.3	$ \begin{array}{c} 4 + 0.79 \\ 9 + 2.00 \\ 9 \\ 4 \\ 0.10 \\ 9 \\ 4 \\ 0.11 \\ 2 \\ 8 \\ 1.11 \\ 6 + 2.77 \\ 7 + 0.8 \\ 6 + 2.00 \\ 4 \\ 4 \\ 4 \\ 1.11 \\ 1.12 \\ 1.13 \\ 1.14 \\ 1.$	9 6.76 6 7.22 5.44.1 6 4.22 7.06 8 5.03 4.44 8 6.03 6 5.33 4.2	7 + 3.2 $6 + 3.1$ $2 + 3.0$ $6 + 3.1$ $2 + 3.0$ $6 + 3.1$ $2 + 0.9$ $0 + 1.1$ $3 + 2.8$ $5 + 0.9$ $4 + 1.0$ $6 + 0.9$ $4 + 1.0$ $6 + 0.9$ $6 +$	6 1.5 7 2.1 2.2 2.2 1.4 7 2.1 1.0 6 1.5 5 2.9 1.7 1.5 1.5 2.9 1.7 2.1 2.2 2.2 2.2 2.1 2.1 2.1 2.2 2.2 2.1 2.2 2.2	7 -2. 7 1 -2. 3 1 -2. 7 9 6 -1. 6 7 -2. 8 8 -2. 7 8 7 -2. 3 1 -1. 3 0 -1. 7	1 2.9 9 4.2 8 5.7 *7.4 5.0 1 5.0 1 6.0 4 6.0 1 5.3 3 7.4 4.7 4.7 9 5.7 0 5.7	1 -1.0 1 +0.2 0 +0.8 9 8 5 +0.9 8 4 +1.7 9 +0.8 4 +3.4 7	0 3.00 8 3.44 5 1.5 2.2 8 1.8 2.2 8 1.8 6 3.2 9 2.3 12 4.6 4.2 7 5.5 10 5.4 11 1.2	6 —1.22 5 —0.42 5 —2.76 6 5 —1.40 9 3 —0.60 7 —2.00 7 +0.79 3 1 +1.80 5 +1.79 9 —2.90	9 1.10 9 2.33 4.03 1.8 1.4 0.76 4.00 0.18 1.4 0.8 4.66 3.8 7 3.1 0.3	$ \begin{array}{c} -1.88\\ 2.3.02\\ 3$	7 1.1 2 0.9 2 2.3 1.9 1.6 1.6 1.4 7 0.7 1.9 2 1.0 1 0.6 1.7 9 1.2 2 1.4 0 1.1	1 -2. 1 5 -1. 9 4 -0. 8 1	5 1,3 3 0,7 2 1,5 . 0,7 . 1,4 4 0,9 . 0,4 1,8 3 1,7 . 0 0,5 0,0 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0,6 0,6	1 - 0.79 $1 - 0.79$ $1 - 0.79$ $1 - 1.29$ $1 - 1.29$ $1 - 1.29$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$ $1 - 1.39$	7 1. 97 1. 71 2. 56 3. 78 3. 91 2. 36 4. 72 5. 2. 56 1. 04 3. 17 5. 3. 46 7. 1. 95 8. 2. 02 1. 66 8. 2. 18	1 -1. 30 7 -0. 31 5 -0. 27 6 1 -0. 42 1 -0. 43 1 -0. 10 3 -0. 32 7 -0. 55 9 2 -0. 7	31. 16 35. 30 7 44. 23 49. 62 42. 03 41. 56 2 28. 36. 14 0 34. 44 2 39. 62 35. 69 1 38. 30 4 28. 82	-8. 07 -4. 10 -3. 47 -8. 67 -5. 35 -3. 01 -2. 29 0+2. 12 1+4. 37 2-10. 93
			1		1	ł					1		1		1		1	1			į		1		Ī	J	

Note.—In this publication, annual means are computed from data for all stations: whereas, in monthly reports, means may not include all stations, as in some cases reports are not received in time to be used in the computations.

All means include the interpolated values.

	Mo	athly	and	Anr	ual	Mear	а Теі	mper	atur	es fo	r the	Y ea	r 19	933, 1	with	Depa	rtu	res fr	om	the N	Torm	al				
1	Jan	uar y	Feb	ruary	Ма	rch	Ar	ril	М	ау	Ju	me	Ju	11 y	Au	gust	Septe	mber	Oct	ober	Nove	mber	December		Anr	nual
Stations	Temperature	Departure	Temperature.	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure	Temperature	Departure
Tidewater																	<u> </u>	'					<u> </u>			
Cape Henry Christchurch Dahlgren Diamond Springs Holland Hopewell Langley Field Norfolk Richmond Tappahannock Walkerton Williamsburg	46. 8 44. 0 51. 2 *47. 3 47. 4 47. 0 49. 3 46. 2 45. 6 *45. 2	+8.9 +14.1 +8.0 +6.5 +8.7 +8.2 +7.7	P41.4	+1.5 +4.8 +3.4 +2.9 +1.9 +2.4 +1.6	*46. 2 44. 2 51. 2 *50. 6 48. 8 47. 2 49. 0 46. 0	-2.0 +1.1 -0.1 -1.1 +0.8 +0.4 -0.8	55.7 54.8 58.3 58.4 59.1 56.3 58.6 54.0 56.8 55.4 55.7	+0.6 +0.5 +1.6 +0.2 +1.8 +0.2 +0.2	68. 8 67. 2 71. 3 71. 8 72. 1 69. 5 71. 1 68. 5 70. 1 68. 2 *71. 2	+5.5 +5.5 +4.0 +3.7 +4.9 +6.2 +3.6	75. 8 75. 6 77. 0 74. 6 76. 8 73. 6	+2.5 +2.2 +3.6 +0.1 +2.4 +1.2 +1.7	76.4 75.9 676.8 75.7 77.1 76.0 76.8 76.2 875.6	-0.1 -0.6 +1.1 -2.7 -1.9 -2.4 -2.3	76.9 77.0 78.6 76.9 77.7 77.6 78.4 77.0	+3.2 +2.1 +0.5 +0.2 +1.0 +1.5 +0.1	75.5 73.7 77.5 75.8 76.6 77.2 74.8 74.4 74.0	+4.5 +5.1 +3.8 +4.5 +5.6 +4.7 +3.9	64.6 59.9 60.1 61.5 63.4 59.2 58.7 58.4	+0.5 +0.5 +0.5 +0.5 -1.4 -0.9	48.0 46.2 48.0 48.2 48.8 50.0 47.8 47.4 47.1 43.6	-0.8 +0.8 -1.5 -1.4 -2.5	50.8 45.8 44.6 45.9 47.0 42.9 43.2 43.6 38.6	+1.9 +7.2 +4.0 +3.6 +3.9 +1.8 +3.4	59.6 57.9 63.0 60.8 60.9 60.4 61.8 59.0 59.4 58.8 57.9	+2.2 +2.2 +3.7 +2.4 +1.4 +2.8 +1.7 +1.5
Means	47.0	+8.6	42.9	+2.8	47.5	-0.1	56. 7	+0.8	70.0	+4.9	75.3	+1.9	76.1	-1.2	77.2	+1.3	75.4	+4.8	60.2	+0.4	48.2	-1.0	44.6	+3.8	60.1	+2.2
Callaville	43. 6 45. 2 44. 0 44. 8 42. 3 46. 2	+7.5 +7.5 +8.1 +8.4 +6.8	41.0 40.2 40.2 38.0	+2.4 -0.6 +2.5 +1.7	47. 0 47. 8 45. 2 43. 0	-2.7 -0.3 -1.4 -2.3	56. 7 55. 8 57. 9 56. 0 55. 0 58. 0 56. 7	+0.7 +1.4 +0.8 +0.6 -0.8 +1.3	68.8 69.8 72.6 68.9 66.6 71.6 70.5	+7.9 +4.1 +2.7 +4.2 +3.6	75. 6	+2.6 +3.8 +2.0 +0.9	77.3 79.6 76.8	+3.2 +1.0 -0.8 -1.4 -3.4	75.6 75.6 78.4 76.0 74.4 77.0	+1.0 +3.3 +1.8 +1.2 -0.8 0.0	75.4 75.9 74.5 71.8 76.8 74.6	+6.4 +6.0 +4.3 +4.4 +4.0	58.4 56.5 57.9 56.6 55.0 59.8	-0.1 -0.8 -0.8 -1.1 -1.1	46.0 46.9 46.6 46.4	-0.4 -0.4 -0.4 -2.0 +0.4	42.0 45.2 43.8 42.6 *39.7 45.7 43.8	+4.0 +4.6 +4.9 +4.0 +4.3 +6.9	58. 4 59. 2 60. 0 58. 6 56. 5 60. 7 59. 4	+1.3 +1.8
Kenbridge. Lincoln Lynchburg Mineral (near). Mount Weather New Canton Quantico Rockymount Stuart Washington, D. C.	*44.8 42.6 45.4 43.8 40.1 44.6	+10.2 +7.9 +9.6 +10.0 +7.9	*41.3 37.7 40.5 39.7 33.0 41.0	+4.2 +0.2 +4.2 +2.6 +3.2 +4.6	*46. 6 42. 1 46. 4 43. 6 38. 7 45. 0 43. 8 43. 4	-0.9 -2.0 -0.8 -2.2 -1.6 -3.0 -0.1	54.9 51.4 55.8 54.6 54.4 56.4	$ \begin{array}{r} -0.9 \\ +1.2 \\ +2.2 \\ +0.4 \\ -1.7 \end{array} $	66,6 62,4 67,9	+3.5 +2.4 +4.5 +3.2 +3.1 +2.1 +2.5	*75. 0 75. 4 76. 0 72. 6 70. 0 73. 7 74. 0 73. 9	+4.0 +1.4 +2.7 +3.3 +1.6 +1.9	*76.9 76.6 76.5 74.1 71.4 74.4	-1.0 -0.3 +0.3 -1.7 -2.3 -1.8 -0.7	75.6 *73.9 71.3 74.3 74.8 71.8 74.6	$ \begin{array}{r} 0.0 \\ +0.9 \\ +2.0 \\ -0.1 \\ +0.4 \\ -2.0 \\ +0.2 \end{array} $	75.5 ^d 71.8 67.6 72.6 71.2 70.8	+4.2 +3.1 +1.8 +2.7 +1.8 +4.2	57.4 54.4 *52.0 55.8 55.9 53.9 *58.8	+0.6 -1.1 -0.8 -1.7 -1.5 -1.2 -3.1 +0.6	*47.6 44.5 46.4 45.0 40.4 46.4 44.6 45.2	-0.6 -0.8 -0.2 -1.6 -0.3 -0.7 -2.3 -1.0	\$44.6 38.4 43.6 40.6 35.0 43.2 38.5 47.0 444.2	+4.2 +3.8 +4.1 +2.9 +5.3 +2.5 +8.1 +2.2	59. 1 56. 8 52. 8 57. 9 56. 6 56. 8 59. 4	+2.8 +1.5 +2.3 +2.1 +1.5 +1.4 +0.4 +1.7 +2.2
Means	i		39.9	+2.3	44.8	1. 5	55.8	+0.6	68.5	+3.8	74.6	+2.3	75.7	-0.7	75.4	+0.8	73.3	+4.1	56.7	-1.0	45.8	-0.9	42.2	+4.2	58.1	+1.8
Great Valley Blacksburg Buchanan Burkes Garden Catawba Sanatorium Dale Enterprise Dannascus Dante Emory Floyd Glen Lyn Glen Lyn Hot Springs Lexington Pennington Gap Roanoke Saltville Staunton Winchester Woodstock Wytheville	42. 4 39. 3 43. 2 40. 6 39. 6 41. 4 *43. 1 40. 3 38. 0 42. 2 40. 4 41. 8 41. 8 42. 2	+7.3 +7.6 +7.2 +7.5 +6.8 	38. 0 34. 1 37. 9 36. 5 36. 1 36. 6 36. 7 37. 5 35. 2 37. 4 35. 9 40. 1 36. 2 38. 1 35. 9	-2.4 +2.3 -0.7 +2.0 -2.6 +2.0 +1.8 -1.7 +2.4 +1.3 +3.3	44. 2 39. 3 43. 1 40. 2 42. 8 44. 2 43. 8 42. 8 44. 6 44. 8 46. 2 43. 4 41. 2 9. 9 9. 9	-1.3 -2.4 -2.8 -1.9 -3.3 +0.5 -1.4 -1.7 -3.6 -3.4 -2.1	54.3 49.0 53.9 52.0 *52.6 52.2 *54.5 50.3 52.9 53.6 56.2 54.1 53.6 53.0 54.1	-0.3 -0.4 -0.1 +0.2 -0.2 -0.1 -0.6 +0.1 -0.2 +1.3	66. 3 62. 0 65. 8 65. 0 66. 7 67. 0 67. 0 67. 8 64. 0 67. 1 69. 3 67. 2 66. 4 65. 4	+1.9 +5.2 +3.3 +2.6 +6.1 +4.3 +4.3 +4.6 +2.9 +2.1	71. 8 65. 8 71. 8 71. 2 73. 0 70. 8 69. 1 71. 8 72. 5 72. 5 71. 6 74. 8 72. 2	-0.6 +2.2 +2.2 +1.2 +1.5 -1.0 +2.0 +1.6 +1.7 +1.7 +1.7 +1.7	67.6 72.2 71.8 71.6 73.2 71.8 72.5 74.0 69.2 74.4 73.9 76.1 72.7 75.0 74.4	+1.0 -0.3 -1.9 +2.0 -0.1 0.0 -1.6 -1.6 -1.2 -0.3	73.5 66.8 71.8 70.6 *70.7 71.3 70.2 72.6 67.4 73.2 72.2 74.8 72.6 73.8 73.6	-0.8 +1.1 +0.2 -1.3 -0.3 -0.7 +0.3 -0.9 -1.4 +2.6 +0.6	78.8 67.1 72.3 69.2 70.2 71.6 71.7 72.4 67.2 71.8 75.0 71.8 75.0 71.8 71.8	+3.7 +6.8 +5.7 +2.6 +4.4 +6.1 +6.8 +2.9 +3.6 +2.5	56. 2 49. 4 55. 8 53. 4 55. 7 53. 8 54. 4 55. 6 55. 5 56. 4 57. 8 55. 2 55. 2 55. 1	-2.8 -0.9 -1.9 -2.6 -2.6 -1.9 -2.6 -1.1 -1.2	44. 4 39. 4 45. 4 42. 3 43. 2 42. 2 42. 2 42. 8 43. 8 45. 5 39. 2 42. 0 43. 5 44. 9	-1.9 -0.5 -0.9 -1.5 -0.9 -1.9 -1.9 -1.0	43. 6 39. 8 43. 2 38. 0 44. 0 44. 8 43. 0 42. 0 37. 5 42. 2 40. 7 42. 1 39. 9 36. 4 89. 8	+5.2 +7.5 +5.2 +3.0 +6.8 +6.7 +5.4 +2.8 +0.6 +3.7	56. 7 51. 6 56. 4 54. 2 55. 5 56. 1 55. 8 56. 1 56. 7 56. 6 58. 7 55. 6 55. 1	+3.0 +0.1 +2.7 +1.6 +0.8 +1.0 +2.7 +2.4 +0.9 +0.8 +1.8 +1.8
Means	41. 2 43. 7		ļ .		42. 6 44. 6		53. 2 .55. 0	+0.1 +0.5		ļ					71. 5 74. 4	'			54.5 56.8	1	42.8 -45.3	ļ.	41.3	+4.9 +4.4		+1.6
State	40. /	1.3	05.4	72.0	33.0	-1.4	.00.0	10.0	00.0	1 2.0	10.0	1 2.1	1 2.7	0.0	****	1 0.4	10.0	74.4		70.6	10.3	1-1.2	42.5	T 4. 4	07.6	71.8

For explanation of reference marks, see page 50

(WB-1-25-34-1,350)