UNCLASSIFIED

AD NUMBER
ADA800382
CLASSIFICATION CHANGES
TO: **unclassified**
FROM: **confidential**
LIMITATION CHANGES
TO: **Approved for public release; distribution is unlimited.**
FROM: **Distribution authorized to DoD only; Administrative/Operational Use; AUG 1945. Other requests shall be referred to Air Weather Service, Scott AFB, IL. Pre-dates formal DoD distribution statements. Treat as DoD only.**
AUTHORITY
AWS ltr dtd Mar 1946; AWS ltr dtd 17 Jun 1982

THIS PAGE IS UNCLASSIFIED

Reproduced by

CADO

CENTRAL AIR DOCUMENTS OFFICE

WRIGHT-PATTERSON AIR FORCE BASE - DAYTON, OHIO

REEL-C 3405A

A.T.I 70924

The U.S. GOVERNMENT

IS ABSOLVED

FROM ANY LITIGATION WHICH MAY ENSUE FROM ANY INFRINGEMENT ON DOMESTIC OR FOREIGN PATENT RIGHTS WHICH MAY BE INVOLVED.

UNCLASSIFIED

Reproduced

FROM

LOW CONTRAST COPY.

ORIGINAL DOCUMENTS
MAY BE OBTAINED ON
LOAN

FROM

CADO

LOAN RETURN TO CADO-D1 BY:	CADO CONTROL NO:	US CLASSIFICATION: Unclass.	ATI NO: 70924
			OA NO: (None)

DATE INITIATED: 18 April 1950

ORIGINAL COPY TO: CADO-L3

DISTRIBUTION LIMITED TO:

COPIES OBTAINABLE FROM:

SPECIAL INSTRUCTIONS: UPI

TITLE: Synoptic Aspects of the Climate of Japan: A Preliminary Report. August 1945. 100pp

AUTHOR(S): (Not known)

ORIGINATING AGENCY: Hqs., AAF Weather Service, Weather Central Div. Washington, D.C.

FOREIGN TITLES: (N.A.)

PUBLISHED BY: U.S. Air Force, Air Weather Div., Washington, D.C.

PUBLISHING NO: TR-105-36

TRANSLATED BY: (N.A.)

TRANSLATION NO: (N.A.)

AGO CONTROL NO: (N.A.)

PREVIOUSLY CATALOGED AS: (N.A.)

DATE:	COUNTRY:	LANGUAGE:	PAGES:	ILLUSTRATIONS:
Aug 45	U.S.	English	100	tables

SUBJ. DIVISION & SECTION:	SUBJECT HEADINGS:
24	Meteorological data - Japan

RELATED REFERENCES:

CORRESPONDENCE FILED UNDER:

ORIGINAL LOAN RETURNED TO OWNER (DATE):

CADO CONTROL NO:

ATI NO: 70924

ABSTRACT

70924

AIR DOCUMENTS DIVISION, T-2
AMC, WRIGHT FIELD
MICROFILM No.
R F

INSPECTED BY:

CADO-D1	CADO-P1	CADO-P2	CADO-P31	CADO-P33	CADO-P34	CADO-P4	CADO-F12	CADO-B1	CADO-B31	CADO-B41
			CEK		WH	PK				

TRANSFERRED TO:

RECEIVED BY:

DATE:

CADO CONTROL NO:

ATI NO: 70924

RECEIVED BY:

DATE:

INITIALS:

WF-L-8 AUG 49 175M
CADO FORM NO. 5—CONTROL AND RECORD SHEET

[redacted]

AD No. 70924
DDC FILE COPY

PUBLICATIONS OF THE WEATHER CENTRAL DIVISION
HEADQUARTERS AAF WEATHER SERVICE

UNCLASSIFIED-AUTH. HDQ. AIR WEATHER
SERVICE LTR. DATED [illegible] MARCH 1946
SUBJECT: DOWNGRADING [illegible] DECLASSIFYIN
OF CLASSIFIED PUBLICATIONS

SYNOPTIC ASPECTS OF THE CLIMATE OF JAPAN: A PRELIMINARY REPORT

9230-TR105-36

105-36
Part 1

Prepared by the Weather Central Division
Headquarters AAF Weather Service
August 1945

C6-1657,AF

[redacted]

PREFACE

This report presents certain features of the climate of Japan, especially those that affect military operations, according to the direction of the gradient wind at the times when the observations summarized were made. It is part of a larger report on the weather and climate of Japan, in preparation by the Special Studies Branch, Weather Central Division, Headquarters AAF Weather Service, which will contain, in addition, reductions of data by more conventional precedures. It is issued in its present form in order to make available in advance of publication of the final report some of the material already assembled.

Pages 101 through 245 of the report were issued in March 1945, as its "Part II." Publication of the pages that precede page 101 makes it unnecessary to retain any division of the preliminary report, now complete, into two parts. These pages are therefore not designated "Part I." They may be combined immediately with pages 101 through 245, to form the complete report. If, as is suggested on the reverse of the title page of Part II, that title page is torn off and discarded, the pagination is continuous through the entire publication.

Gradient winds were classified from synoptic charts drawn for the hours 0600 and 1800 local time of the meridian of 135° east longitude. In addition to the cardinal and first intermediate directions of the 8-point wind rose, the classification of gradient flow includes three groups of pressure structures that can not be defined by directions: Ridge and Center of High Pressure ("Ridge and High"); Trough, Center of Low Pressure, and Typhoon ("Trough and Low"); and Col and Indeterminate. The last-named class can not be defined satisfactorily, and so does not appear in tables 2 through 41, in which frequencies of the climatic phenomena are listed. It occurs with appreciable frequency only in Region 9, Formosa. The data refer to the 5 years 1931 through 1934 and 1936, except those for Formosa, where only 4 years, 1932 through 1934 and 1936, were used. Since all the classes of gradient flow can not be referred to by direction, the term "flow type" or "type of gradient flow" is sometimes used in the text where such an expression as "direction of gradient wind" is inappropriate.

TABLE OF CONTENTS

	Page
Preface	ii
Frequency of Types of Gradient Flow	1
Association of Weather with Free-Air Winds from Various Directions	3
Synoptic Conditions in Which the Several Gradient Flows Occur	4
Weather Conditions Designated by Letters in Tables 2 through 41	5
Strength of Gradient Wind in the Several Flow Types	100
Persistence of Types of Free-Air Flow	101
Resolution of Types of Free-Air Flow	111
Association of Types of Free-Air Flow in Different Regions	129
List of Stations	243
Figure 1. Stations Used in this Report, and Divisions ("Regions") of the Inner Japanese Empire by which the Stations are Grouped in the Climatological Tables	245

LIST OF TABLES

Table		Page
1.	Percentage Frequency, by Seasons, of Types of Free-Air Flow	2
2.	Summary of Local Weather Conditions Associated with Northerly Flow in the Free Air, Regions 1 and 2	6
3.	Northeasterly Flow in the Free Air, Regions 1 and 2	8
4.	Southeasterly Flow in the Free Air, Regions 1 and 2	10
5.	Southerly Flow in the Free Air, Regions 1 and 2	12
6.	Southwesterly Flow in the Free Air, Regions 1 and 2	14
7.	Northwesterly Flow in the Free Air, Regions 1 and 2	16
8.	Ridges and Centers of High Pressure, Regions 1 and 2	18
9.	Northerly Flow in the Free Air, Regions 3 and 4	20
10.	Northeasterly Flow in the Free Air, Regions 3 and 4	22
11.	Southeasterly Flow in the Free Air, Regions 3 and 4	24
12.	Southerly Flow in the Free Air, Regions 3 and 4	26
13.	Southwesterly Flow in the Free Air, Regions 3 and 4	28
14.	Northwesterly Flow in the Free Air, Regions 3 and 4	30
15.	Ridges and Centers of High Pressure, Regions 3 and 4	32
16.	Northerly Flow in the Free Air, Region 5	34
17.	Northeasterly Flow in the Free Air, Region 5	36
18.	Southeasterly Flow in the Free Air, Region 5	38
19.	Southwesterly Flow in the Free Air, Region 5	40
20.	Northwesterly Flow in the Free Air, Region 5	42
21.	Ridges and Centers of High Pressure, Region 5	44
22.	Summary of Local Weather Conditions Associated with Northerly Flow in the Free Air, Region 6	46
23.	Northeasterly Flow in the Free Air, Region 6	50
24.	Southeasterly Flow in the Free Air, Region 6	54
25.	Southwesterly Flow in the Free Air, Region 6	58
26.	Northwesterly Flow in the Free Air, Region 6	62
27.	Ridges and Centers of High Pressure, Region 6	66
28.	Northerly Flow in the Free Air, Regions 7 and 8	70
29.	Northeasterly Flow in the Free Air, Regions 7 and 8	72
30.	Southeasterly Flow in the Free Air, Regions 7 and 8	74
31.	Southwesterly Flow in the Free Air, Regions 7 and 8	76
32.	Northwesterly Flow in the Free Air, Regions 7 and 8	78
33.	Ridges and Centers of High Pressure, Regions 7 and 8	80
34.	Troughs and Centers of Low Pressure, Regions 7 and 8	82
35.	Northeasterly Flow in the Free Air, Region 9	84
36.	Easterly Flow in the Free Air, Region 9	86
37.	Southeasterly Flow in the Free Air, Region 9	88
38.	Southerly Flow in the Free Air, Region 9	90
39.	Southwesterly Flow in the Free Air, Region 9	92
40.	Ridges and Centers of High Pressure, Region 9	94
41.	Troughs and Centers of Low Pressure, Region 9	96

[redacted]

LIST OF TABLES (cont.)

Table		Page
42.	Percentage Frequency of Free-Air Flow by Strength of Circulation	98
43.	Persistence of Types of Free-Air Flow	102
44.	Resolution of Types of Free-Air Flow	112
45.	Percentage Frequency of Occurrence of Types of Free-Air Flow in Other Regions Simultaneously with Types in Region 1	130
46.	Region 2	144
47.	Region 3	158
48.	Region 4	172
49.	Region 5	186
50.	Region 6	200
51.	Region 7	214
52.	Region 8	228

[redacted]

SYNOPTIC ASPECTS OF THE CLIMATE OF JAPAN: A PRELIMINARY REPORT

FREQUENCY OF TYPES OF GRADIENT FLOW

In the rather small sample represented by a 5-year record (4 in Formosa), some of the types of gradient flow occur infrequently. In tables 2 through 41, climatic data are given only for those types that occurred on at least 10 percent of the occasions represented by the bi-daily observations. A few exceptions are to be noted, where two regions are combined in the tables, and one of the regions experienced a given flow type in 10 percent or more of the observations, whereas the other region experienced it less frequently. In these instances, data are tabulated for both regions for all types that occurred at least 10 percent of the time in either region.

A division of the entire Japanese area into regions was necessary because the scale of the circulation structures that appear over it is usually too small to permit the assignment of synoptic situations to the same flow type over the whole area. Nine such regional subdivisions are used here, the extent of each of which may be seen in figure 1. These regions are numbered from 1 to 9, beginning in the north with southern Sakhalin or Karafuto, and ending in the south with Formosa. Korea, in the same latitude as Honshu, falls outside this general north-south order, and the two regions into which Korea is divided are assigned numbers that are somewhat arbitrary.

In table 1, the frequency of all 11 types in the several regions are tabulated to the nearest whole percent of all observations, for four seasons of the year. The seasons are the ordinary climatologic seasons of middle latitudes: winter, including December, January, and February; spring, March, April, and May; summer, June, July, and August; and autumn, September, October, and November. The types are classified as "primary" if they occurred 10 percent or more of the time in any region, and "secondary" if they occurred less frequently. Besides the exceptions noted in the foregoing paragraphs, "Trough and Low" in Region 4 is relegated to secondary rank even though it occurs on 12 percent of the occasions counted in summer. This type is infrequent in the other seasons in Region 4, and at all seasons in Region 3, which is combined in the tables with Region 4.

In winter, gradient winds with northerly components predominate, and in summer, gradient winds with southerly components, except in Formosa, where the general flow of air in winter has a larger easterly than northerly component. This difference between Formosa and the more northerly parts of the Japanese Empire accords with the direction of the isobars on maps of mean pressure. Only in Formosa, according to table 1, is there the great preponderance of winds from a small range of directions that is associated with the strict concept of a "monsoon," and that preponderance appears exclusively in autumn and winter. In summer, the gradient flow over Formosa is no more concentrated in one or two directions than it is in the regions farther north.

TABLE 1.—PERCENTAGE FREQUENCY, BY SEASONS, OF TYPES OF FREE-AIR FLOW

	PRIMARY TYPES									SECONDARY TYPES						
	N	NE	E	SE	S	SW	NW	Ridge & High	Trough & Low	N	E	S	W	NW	Trough & Low	Col & Indeterm.
REGION 1																
Winter	26	32		3	2	3	21	2			4		2		2	3
Spring	7	13		8	6	24	17	8			4		5		4	4
Summer	2	5		15	11	35	6	10			4		4		3	5
Autumn	7	12		9	4	21	23	7			4		6		4	3
REGION 2																
Winter	14	15		4	1	4	41	7			2		3		7	2
Spring	6	9		7	6	19	24	11			2		6		8	2
Summer	2	5		14	12	32	8	8			3		4		7	5
Autumn	7	7		9	6	17	25	12			2		8		5	3
REGION 3																
Winter	12	10		2	2	4	48	13			2		2		3	2
Spring	9	7		5	9	15	25	15			4		5		3	3
Summer	3	7		14	16	25	9	9			3		5		5	4
Autumn	7	9		9	8	8	23	22			2		5		3	4
REGION 4																
Winter	19	24		1	1	4	28	16			2		1		3	1
Spring	10	18		4	5	15	11	21			5		3		6	2
Summer	1	9		10	8	28	6	12			5		3		12	6
Autumn	7	20		7	4	4	12	28			5		1		7	5
REGION 5																
Winter	17	28		2		4	22	16			5	1	1		2	2
Spring	6	24		6		15	8	19			7	6	3		3	3
Summer	1	10		12		29	5	14			3	7	5		9	5
Autumn	5	29		10		5	10	19			9	2	1		3	7
REGION 6																
Winter	18	29		4		4	18	14			6	1	1		2	3
Spring	6	24		7		11	9	21			8	6	2		3	3
Summer	1	11		15		26	3	15			5	7	4		8	5
Autumn	6	32		9		3	9	17			10	2	2		4	6
REGION 7																
Winter	28	22		6		2	24	7	2		5	1	2			1
Spring	6	12		7		10	22	18	6		3	4	6			6
Summer	*	4		16		25	8	18	9		4	8	2			6
Autumn	10	18		6		6	21	19	4		6	1	3			6
REGION 8																
Winter	24	34		3		4	11	16	3		2	1	1			1
Spring	8	11		2		27	14	13	12		2	3	6			2
Summer	2	3		2		45	5	13	11		1	7	5			6
Autumn	11	16		11		18	14	20	6		1	2	5			6
REGION 9																
Winter		29	59	5	0	0		1	3	1			0	1		1
Spring		13	35	16	4	5		5	12	0			*	*		10
Summer		5	3	9	15	22		10	10	1			6	3		16
Autumn		35	39	12	1	*		2	4	*			1	1		5

*Indicates more than 0.0 and less than 0.6%.

In both summer and winter, the distribution of gradient winds among the several directions is closely related to the most frequent positions of fronts between air from the Asiatic Continent and tropical (or equatorial) air from the western Pacific Ocean, and to the paths of the cyclones that are formed on these fronts. In winter, fronts between air from over the Asiatic Continent and maritime tropical air usually lie over the sea, east and southeast of the chain of Japanese islands. The islands then lie within this originally continental air, and gradient winds over the main islands are most frequently from northwest, north, and northeast. These winds constitute the circulation often called the winter monsoon. In the latitude of Formosa, they have a larger component of motion from the east than farther north. Waves are most frequently formed on the fronts in the latitude of Formosa, but they do not deepen and give rise to strong cyclonic circulation until they have moved northeastward to the latitudes of the main Japanese islands. Gradient winds with southerly components are therefore less frequent over Formosa than farther north.

In the statistics of frequency of gradient winds, the change from winter to summer consists in an increase in frequency of winds with southerly components at the expense of those with northerly components. In summer, the most frequent direction is southwest, but south and southeast winds are also well represented. At this season, the fronts between polar and tropical (or equatorial) air, especially in late summer, usually lie across the northern part of the area with which this report is concerned. The paths of cyclones that are formed on these fronts then lie farther north than in winter, and are oriented more nearly west-east than are the paths of winter cyclones. Winds from the southerly octants are therefore more frequent than winds from the northerly octants, although gradient winds from NE, N, and NW are by no means lacking in summer. Typhoons, the paths of which are irregular, contribute winds from all directions to the statistics of frequency in summer and autumn. Hence, the predominance in summer of winds with southerly components is not so marked as that of winds with northerly components in winter. Such predominance as exists is the basis of what is often called the summer monsoon. Recognition of this predominance is of no great value in interpreting the weather of the area; it only indicates the greater probability in summer than in winter of weather associated with winds from the southerly octants.

ASSOCIATION OF WEATHER WITH FREE-AIR WINDS FROM VARIOUS DIRECTIONS

In the situation occupied by the Japanese islands and Korea, the adjacent continent and ocean are source regions of distinctive air masses, which almost always are present when the gradient winds blow from the respective directions of the continent and the ocean. The properties of the air arriving from different directions are especially significant because the lands of the Japanese area are mountainous, and therefore capable of releasing latent instability to produce cloudiness and precipitation on the windward sides of mountains. The presence of mountains thus introduces contrasts between windward and leeward sides, which may be read from tables 2 to 41, especially in column "D", which gives the percentage frequency of overcast with precipitation, and in the columns that give the frequency of four degrees of cloudiness, that are associated with the respective directions of gradient wind.

If the directions of the gradient winds in any given season varied in a random manner, the contrast between windward and lee sides of mountainous islands at any moment of observation would depend on the direction of the momentary flow of air, but seasonal averages of cloudiness and precipitation would not display any such contrast. But since winds from the northerly octants predominate in winter, and winds from the southerly octants in summer, there is a seasonal contrast in distribution of cloud and precipitation between windward and lee sides of the island chain, and less distinctly on the peninsula of Korea. On Honshu particularly, but also on Hokkaido, the coasts exposed to winds with northerly components are the cloudy and rainy parts of the islands in winter, and the coasts that face eastward or southeastward have the clearest skies and least precipitation. In summer, the southward-facing coasts are the cloudier and rainier, and those that face northward are the sunnier and drier parts of the islands. The contrast between the two sides of the islands is less marked in summer than in winter, in accordance with the less marked concentration of gradient wind directions in the summer season. Mountains, which are not well represented in the list of stations used here (Ibuki, Region 5, at 4,514 ft., has the highest elevation of all the stations listed in tables 2-41) are, of course, cloudier and rainier than lowlands at all seasons.

SYNOPTIC CONDITIONS IN WHICH THE SEVERAL GRADIENT FLOWS OCCUR

NW, N, and NE gradient winds are everywhere most frequent in winter, and throughout the entire area of the main Japanese islands and in Korea occur in nearly the same synoptic situations, namely north of the centers of cyclones that are formed on the main polar front of the western margin of the Pacific. These cyclones usually follow paths directed from southwest to northeast, seaward from the principal Japanese islands, and as they pass along this route the islands experience a succession of free-air winds, from NE through N to NW. A few cyclones follow paths closer to the mainland, occluding over the Sea of Japan. These give successions of winds over Korea different from those experienced over the islands. The outflow of continental air following cyclones usually lasts for several days, thus giving a greater frequency of NW gradient winds than of the other winds with northerly components. In Formosa, the occurrence of NE and E gradient winds is less closely associated with cyclones than in the regions farther north; the circulation about the Asiatic anticyclone is more persistent here than farther north.

Gradient winds with southerly components can occur only with pressure gradients directed from the sea toward the land, a direction that is by far more frequent in summer than in winter. In summer synoptic charts frequently show a weak gradient directed from the western Pacific toward the continent of Asia, but the weak flow associated with this gradient is of little consequence with respect to local weather. SE, S, and SW gradient winds of appreciable strength occur only when a cyclone is centered to the west of a station. The cyclones that are so situated in relation to the various parts of the Japanese area are, with an exception that will be noted below, those that form on fronts oriented in a general east-west direction over the continent of Asia. These cyclones, moving eastward or east-northeastward, bring, successively, SE, S, and SW winds when their centers pass north of a station on one of the main Japanese islands or in Korea. They are, of course, followed by N and NW gradient winds.

SE, S, and SW winds may also be experienced in Korea when a tropical cyclone, moving northward, passes over the Yellow Sea, or in the main Japanese islands when such a cyclone moves northeastward over the Sea of Japan. Over Formosa, the stronger gradients from SE, S, and SW are associated with tropical cyclones that move westward either directly across the island or pass it to the north or to the south. In the latter instance, they sometimes recurve northward to the west of the island, and so bring south winds to it.

High-pressure structures, either ridges or enclosed highs, occur most often between cyclones, although an extension of the North Pacific anticyclone sometimes gives a ridge structure over the various parts of the Japanese area instead of a simple gradient toward northwest, west, or southwest.

The type "trough and low" includes, in the tabulations of this report, more enclosed lows than troughs. It appears as a primary type in only two regions, namely southern Korea and Formosa. In the former region, troughs along fronts oriented southwest-northeast constitute an appreciable fraction of the occurrences of the type, the others being frontal cyclones moving eastward from over the continent and tropical cyclones passing northeastward inside the arc of the Japanese islands. In Formosa, except for rare frontal cyclones, "troughs and lows" are tropical cyclones that approach the island from the east and pass over it.

WEATHER CONDITIONS DESIGNATED BY LETTERS IN TABLES 2 THROUGH 41

A Fog.
B Precipitation.
C Thunder or lightning.
D Overcast with precipitation.
E Low clouds predominating, and covering 4-tenths or more of the sky.
F No fog or precipitation; total cloud cover less than 4-tenths. (Favorable for high-level bombing).
G Winds 3 to 12 m.p.h. (Beaufort force 2 and 3), with no precipitation. (Favorable for chemical warfare).
H Winds over 12 m.p.h., no precipitation. (Favorable for incendiary bombing).
I No fog or precipitation; low clouds not predominant, or, if predominant, total cloudiness less than 6-tenths. (Favorable for low- and medium-level bombing).

TABLE 2.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHERLY FLOW IN THE FREE AIR, REGIONS 1 AND 2

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
							0600 L.S.T.							
REGION 1														
Winter														
Shikuka	0	14	0	14	33	63	28	7	67	63	2	2	33	43
Otomari	0	19	0	19	40	55	53	13	60	55	0	4	41	47
Spring														
Shikuka	0	22	0	22	59	28	34	13	44	28	6	3	63	32
Otomari	0	13	0	13	56	22	53	19	47	22	6	13	59	32
Summer														
Shikuka	0	42	0	42	83	0	50	0	17	0	8	8	84	12
Otomari	0	8	0	8	58	42	50	17	42	42	0	0	58	12
Autumn														
Shikuka	0	22	0	22	57	43	39	9	48	44	4	4	48	23
Otomari	9	17	0	17	65	22	22	43	30	26	4	13	57	23
REGION 2														
Winter														
Shana	0	47	0	47	93	4	16	36	9	4	3	3	90	76
Abashiri	1	50	0	46	68	24	32	6	36	24	6	8	62	78
Asahigawa	5	51	0	49	90	9	12	3	12	9	4	10	77	78
Kushiro	0	8	0	8	31	64	50	18	73	66	5	6	23	78
Sapporo	0	36	0	35	74	26	31	14	29	26	4	5	65	78
Hakodate	0	38	0	32	73	20	23	35	25	23	5	11	61	79
Spring														
Shana	0	56	0	56	82	6	24	12	18	6	0	0	94	34
Abashiri	0	54	0	54	83	12	27	10	17	12	2	5	81	41
Asahigawa	0	43	3	40	85	13	20	3	18	13	2	5	80	40
Kushiro	7	32	0	32	80	12	29	24	22	12	5	7	76	41
Sapporo	2	37	0	34	90	7	24	24	17	7	7	5	81	41
Hakodate	0	20	0	15	68	22	24	44	41	22	17	12	49	41
Summer														
Shana	13	38	0	38	88	0	63	0	13	0	0	0	100	8
Abashiri	13	25	0	25	100	0	25	0	0	0	0	0	100	8
Asahigawa	0	29	0	29	100	0	14	0	0	0	0	0	100	7
Kushiro	13	50	0	50	88	13	38	0	13	13	0	0	87	8
Sapporo	13	38	0	38	100	0	25	0	0	0	0	0	100	8
Hakodate	0	25	0	25	88	13	25	13	13	13	0	0	87	8
Autumn														
Shana	0	35	0	35	94	0	35	29	10	0	7	3	90	31
Abashiri	0	35	0	29	74	13	32	13	35	13	10	10	67	31
Asahigawa	13	19	0	19	81	19	23	3	23	20	3	3	74	31
Kushiro	10	19	0	19	55	39	23	32	48	42	6	10	42	31
Sapporo	3	29	0	26	65	26	35	3	42	25	10	10	55	31
Hakodate	0	16	3	16	58	32	39	32	48	32	13	10	45	31

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
							1800 L.S.T.							
REGION 1														
Winter														
Shikuka	0	6	0	6	16	74	43	15	84	73	2	5	20	117
Otomari	0	13	0	12	38	56	55	20	62	56	4	4	36	118
Spring														
Shikuka	0	22	0	19	63	31	31	31	34	34	3	3	60	32
Otomari	0	35	0	35	65	18	38	21	35	17	9	9	65	34
Summer														
Shikuka	0	14	0	14	71	29	57	14	29	29	0	0	71	7
Otomari	0	14	0	14	57	29	43	29	43	29	14	0	57	7
Autumn														
Shikuka	0	11	0	11	46	54	61	0	54	53	0	4	43	28
Otomari	0	7	0	7	54	36	64	21	57	36	14	7	43	28
REGION 2														
Winter														
Shana	0	55	0	51	92	78	12	31	14	8	8	6	78	51
Abashiri	0	50	0	43	63	32	26	10	38	34	6	4	56	68
Asahigawa	0	32	0	32	75	22	18	0	28	22	3	7	68	68
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-8	-	-
Sapporo	0	37	0	32	65	31	35	7	37	31	6	1	62	68
Hakodate	0	32	0	25	59	40	40	26	43	40	7	9	44	68
Spring														
Shana	0	59	0	59	86	5	18	18	14	5	0	0	95	22
Abashiri	0	56	0	48	88	80	36	4	20	8	8	8	76	25
Asahigawa	0	44	0	40	80	20	40	0	20	20	4	4	72	25
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	36	0	32	80	12	16	44	20	12	4	12	72	25
Hakodate	0	20	0	16	44	40	20	60	56	44	4	4	48	25
Summer														
Shana	0	67	0	67	92	0	33	0	8	0	0	8	92	12
Abashiri	0	25	8	25	100	0	33	17	0	0	0	8	92	12
Asahigawa	0	8	0	8	33	50	67	0	67	50	8	0	42	12
Kushiro	-	-	-	-	-	-		NO	DATA	-	-	-	-	-
Sapporo	0	8	0	8	42	42	58	33	58	42	0	8	50	12
Hakodate	0	17	0	17	42	33	25	50	58	33	9	25	33	12
Autumn														
Shana	0	29	0	29	81	16	26	35	19	16	3	13	68	31
Abashiri	0	30	0	30	80	17	33	13	27	17	13	3	67	30
Asahigawa	0	19	0	19	65	35	26	0	39	36	3	6	55	31
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	30	0	30	70	30	33	10	37	30	10	10	50	30
Hakodate	0	0	0	0	35	48	45	52	71	48	13	10	29	31

TABLE 3.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHEASTERLY FLOW IN THE FREE AIR, REGIONS 1 AND 2

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover tenths .0-.3	.4-.5	.7-.8	.9-1.0	No. of obs.
							0600 L.S.T.							
REGION 1														
Winter														
Shikuka	3	8	0	8	20	73	38	5	78	75	0	10	15	40
Otomari	0	8	0	8	38	60	55	5	63	60	0	2	38	40
Spring														
Shikuka	18	14	0	14	57	29	36	4	39	36	0	3	61	28
Otomari	11	19	4	15	37	33	11	33	63	33	19	11	37	27
Summer														
Shikuka	15	15	0	15	77	15	38	0	23	15	4	0	81	26
Otomari	12	8	0	8	76	8	44	8	24	8	8	4	80	25
Autumn														
Shikuka	8	8	0	8	38	58	43	8	63	57	3	3	37	40
Otomari	3	0	0	0	56	33	62	13	49	33	8	18	41	39
REGION 2														
Winter														
Shana	0	42	0	42	85	10	24	31	16	10	2	4	84	88
Abashiri	0	31	0	29	64	25	40	7	38	26	6	6	62	95
Asahigawa	6	35	0	33	86	11	8	1	16	11	4	4	81	95
Kushiro	1	5	0	5	29	59	61	12	72	59	4	3	34	94
Sapporo	1	27	0	26	72	23	27	4	32	23	5	5	67	95
Hakodate	0	20	0	17	57	33	49	17	46	33	5	8	54	95
Spring														
Shana	7	23	0	23	77	10	25	42	25	10	2	7	81	60
Abashiri	3	21	0	18	63	29	36	11	39	30	4	6	60	72
Asahigawa	4	24	0	22	68	24	21	0	33	24	5	4	67	72
Kushiro	6	21	0	21	58	33	53	18	49	33	11	4	52	72
Sapporo	0	24	0	24	58	32	26	11	46	32	10	5	53	72
Hakodate	1	14	0	14	47	39	35	21	57	39	10	0	51	72
Summer														
Shana	3	21	0	21	82	5	38	21	18	5	3	10	82	39
Abashiri	8	18	0	18	74	16	42	0	26	16	5	3	76	38
Asahigawa	3	11	0	11	79	11	16	0	21	10	3	3	84	38
Kushiro	10	18	0	18	95	3	44	5	5	2	0	3	95	39
Sapporo	5	15	0	15	77	10	31	3	26	10	3	5	82	39
Hakodate	8	8	0	8	74	13	37	11	26	13	3	13	71	38
Autumn														
Shana	1	15	0	13	83	14	37	40	24	14	8	11	67	87
Abashiri	0	8	0	6	66	24	58	5	35	24	6	13	57	86
Asahigawa	25	18	0	16	79	10	14	1	17	14	4	3	79	87
Kushiro	10	9	0	9	54	36	51	14	49	36	7	4	53	87
Sapporo	2	7	0	7	59	29	36	7	47	29	14	13	44	86
Hakodate	1	13	0	11	47	36	41	17	53	38	7	10	45	87

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 1								1800 L.S.T.						
Winter														
Shikuka	0	16	0	16	36	53	33	21	65	53	7	4	36	141
Otomari	1	28	0	26	56	35	46	22	47	36	8	5	51	140
Spring														
Shikuka	0	42	0	40	63	27	40	10	37	27	2	6	65	48
Otomari	0	42	0	42	92	4	25	31	8	4	0	4	92	48
Summer														
Shikuka	0	31	0	31	81	6	44	13	19	6	6	0	88	16
Otomari	0	25	0	25	85	10	40	25	15	10	10	5	75	20
Autumn														
Shikuka	0	13	0	13	58	35	58	4	42	34	4	4	58	52
Otomari	2	34	0	34	75	19	50	15	25	19	6	2	73	52
REGION 2														
Winter														
Shana	0	32	0	27	87	3	29	32	19	3	6	7	84	63
Abashiri	0	36	0	34	69	20	32	5	35	20	8	11	61	74
Asahigawa	0	32	0	30	70	20	18	1	28	23	10	1	66	74
Kushiro	-	-	-	-	-	-	NO	DATA	-	-	-	-	-	-
Sapporo	0	27	0	27	67	26	23	10	34	26	4	4	66	73
Hakodate	0	24	0	19	57	30	49	23	47	30	11	8	51	74
Spring														
Shana	3	61	0	61	95	0	10	14	8	0	3	0	97	38
Abashiri	2	66	0	66	88	10	17	7	12	10	0	2	88	41
Asahigawa	0	34	0	34	71	22	51	2	32	22	2	3	73	41
Kushiro	-	-	-	-	-	-	NO	DATA	-	-	-	-	-	-
Sapporo	0	34	0	32	80	17	24	39	29	17	12	0	71	41
Hakodate	2	10	0	10	56	34	17	66	46	34	8	7	51	41
Summer														
Shana	4	28	0	28	92	4	32	16	16	4	8	8	80	25
Abashiri	0	35	0	35	88	8	42	0	12	8	0	15	77	26
Asahigawa	0	12	4	12	73	12	73	0	31	12	12	15	61	26
Kushiro	-	-	-	-	-	-	NO	DATA	-	-	-	-	-	-
Sapporo	0	23	0	19	69	12	50	23	27	12	12	15	61	26
Hakodate	0	4	0	4	50	31	50	23	54	30	11	0	58	26
Autumn														
Shana	0	51	0	46	74	11	31	9	26	14	66	3	77	35
Abashiri	3	34	0	34	77	11	40	6	26	11	3	3	83	35
Asahigawa	3	9	0	9	57	29	43	0	46	28	3	6	63	35
Kushiro	-	-	-	-	-	-	NO	DATA	-	-	-	-	-	-
Sapporo	0	15	0	15	56	29	50	3	44	29	3	3	65	34
Hakodate	0	20	0	14	43	34	46	20	63	34	9	14	43	35

~~CONFIDENTIAL~~

TABLE 4.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHEASTERLY FLOW IN THE FREE AIR, REGIONS 1 AND 2

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
							0600 L.S.T.							
REGION 1														
Winter														
Shikuka	0	25	0	25	50	50	50	0	50	50	0	0	50	4
Otomari	0	20	0	20	80	0	20	0	20	0	0	0	100	5
Spring														
Shikuka	11	5	0	5	63	26	47	0	37	26	5	0	69	19
Otomari	0	5	0	5	58	32	47	11	42	32	10	0	58	19
Summer														
Shikuka	29	17	0	17	74	12	34	0	22	16	3	3	78	58
Otomari	14	0	0	0	69	19	49	5	31	19	7	3	71	59
Autumn														
Shikuka	10	10	0	10	52	29	39	0	45	32	7	6	55	31
Otomari	0	7	0	7	48	23	55	7	52	22	10	10	58	31
REGION 2														
Winter														
Shana	0	0	0	0	100	0	0	100	0	0	0	50	50	2
Abashiri	0	0	0	0	50	50	50	0	50	50	0	0	50	2
Asahigawa	50	0	0	0	100	0	0	0	0	0	0	0	100	2
Kushiro	0	0	0	0	50	50	50	0	50	50	0	0	50	2
Sapporo	0	0	0	0	50	50	0	0	50	50	0	0	50	2
Hakodate	0	0	0	0	100	0	50	0	50	0	50	0	50	2
Spring														
Shana	7	7	0	7	53	27	60	20	47	26	7	0	67	15
Abashiri	5	20	0	20	55	30	30	10	50	30	20	0	50	20
Asahigawa	5	5	0	5	60	30	10	0	45	30	5	10	55	20
Kushiro	15	10	0	10	50	30	40	0	60	30	15	5	50	20
Sapporo	0	5	0	5	35	20	50	10	70	20	10	5	65	20
Hakodate	0	0	0	0	50	15	60	5	55	15	5	0	80	20
Summer														
Shana	7	7	0	7	49	33	60	7	51	35	12	2	51	43
Abashiri	5	0	0	0	42	47	49	5	60	47	2	5	46	43
Asahigawa	14	5	0	5	72	19	2	0	30	19	9	5	67	43
Kushiro	23	9	0	9	88	7	56	5	12	7	0	0	93	43
Sapporo	5	5	0	5	53	28	56	9	51	28	5	11	56	43
Hakodate	0	9	0	7	72	21	58	5	30	21	2	5	72	43
Autumn														
Shana	4	8	0	8	40	28	72	8	60	28	8	0	64	25
Abashiri	4	4	0	4	32	44	52	0	68	44	0	16	40	25
Asahigawa	52	4	0	4	84	4	0	0	8	8	0	4	88	25
Kushiro	32	12	0	12	76	12	44	0	24	12	0	16	72	25
Sapporo	0	8	0	8	42	38	46	0	58	38	0	8	54	24
Hakodate	0	24	0	24	44	24	20	8	60	24	8	4	64	25

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 1							1800 L.S.T.							
Winter														
Shikuka	0	50	0	50	67	33	17	0	33	33	0	8	59	12
Otomari	0	42	0	42	83	17	17	25	25	17	8	0	75	12
Spring														
Shikuka	3	18	0	18	85	10	56	13	21	10	13	0	77	39
Otomari	3	26	0	26	64	10	26	38	36	10	5	0	85	39
Summer														
Shikuka	11	14	0	14	92	3	74	5	8	3	2	6	89	65
Otomari	1	21	0	19	78	7	39	39	22	7	3	3	87	67
Autumn														
Shikuka	3	26	0	21	74	18	54	13	23	20	0	3	77	39
Otomari	0	26	0	26	82	5	41	26	23	5	8	2	85	39
REGION 2														
Winter														
Shana	0	6	0	6	56	13	81	13	50	12	13	6	69	16
Abashiri	0	25	0	25	50	21	38	0	50	21	8	0	71	24
Asahigawa	0	21	0	21	79	13	13	4	21	13	4	4	79	24
Kushiro	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Sapporo	0	38	0	38	67	4	46	0	29	4	0	0	96	24
Hakodate	0	46	0	46	79	0	46	4	21	0	0	8	92	24
Spring														
Shana	4	12	0	12	68	16	68	16	32	16	0	8	76	25
Abashiri	0	19	0	16	68	10	45	3	35	10	9	10	71	31
Asahigawa	0	19	0	19	53	19	53	6	47	19	3	6	72	32
Kushiro	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Sapporo	0	22	0	22	47	16	56	13	53	16	6	9	69	32
Hakodate	0	38	0	38	56	25	44	19	44	25	3	0	72	32
Summer														
Shana	2	12	0	12	61	17	55	14	41	17	3	3	77	66
Abashiri	2	11	2	11	62	23	40	3	40	23	2	9	66	65
Asahigawa	0	14	3	14	70	6	52	6	36	6	11	4	79	66
Kushiro	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Sapporo	0	21	0	21	55	15	55	17	47	15	8	15	62	66
Hakodate	0	29	0	29	86	3	53	17	17	3	8	2	86	66
Autumn														
Shana	0	15	0	15	59	20	73	5	44	22	7	10	61	41
Abashiri	0	19	0	19	71	17	57	2	33	17	2	7	74	42
Asahigawa	2	26	0	26	71	12	24	0	24	14	2	5	79	42
Kushiro	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Sapporo	0	31	0	31	76	12	50	5	26	12	2	7	79	42
Hakodate	0	43	0	43	85	8	33	25	18	7	5	5	83	40

CONFIDENTIAL

TABLE 5.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHERLY FLOW IN THE FREE AIR, REGIONS 1 AND 2

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
							0600 L.S.T.							
REGION 1														
Winter														
Shikuka	0	20	0	20	30	60	30	0	70	60	0	0	40	10
Otomari	0	10	0	10	50	30	70	0	60	30	20	10	40	10
Spring														
Shikuka	21	12	0	12	67	33	39	3	33	33	0	0	67	33
Otomari	3	6	0	6	41	22	38	16	63	22	6	3	69	32
Summer														
Shikuka	14	15	0	15	69	21	46	4	32	21	3	1	75	71
Otomari	10	11	0	11	69	15	40	10	32	15	4	7	74	73
Autumn														
Shikuka	7	3	0	3	50	33	50	0	50	33	7	13	47	30
Otomari	3	7	0	7	43	20	50	10	57	20	17	3	60	30
REGION 2														
Winter														
Shana	0	0	0	0	100	0	0	67	0	0	0	0	100	3
Abashiri	0	0	0	0	67	33	33	0	33	33	0	33	34	3
Asahigawa	0	33	0	33	100	0	0	0	0	0	0	0	100	3
Kushiro	0	0	0	0	0	100	67	0	100	100	0	0	0	3
Sapporo	0	0	0	0	33	67	0	0	67	67	0	33	0	3
Hakodate	0	0	0	0	67	33	100	0	33	33	33	0	34	3
Spring														
Shana	0	0	0	0	45	36	64	27	55	36	0	9	55	11
Abashiri	0	0	0	0	29	29	36	21	71	29	0	7	64	14
Asahigawa	7	7	0	7	50	29	14	0	50	29	0	7	64	14
Kushiro	7	0	0	0	64	21	50	7	43	22	7	7	64	14
Sapporo	0	21	0	21	36	14	36	14	64	14	22	0	64	14
Hakodate	0	21	0	21	43	14	43	0	57	14	7	0	79	14
Summer														
Shana	6	0	0	0	67	12	58	6	36	12	6	3	79	33
Abashiri	3	3	0	3	21	52	48	6	82	52	9	3	36	33
Asahigawa	12	0	0	0	52	21	12	0	48	21	3	3	73	33
Kushiro	45	3	0	3	94	0	48	3	9	0	6	0	94	33
Sapporo	3	3	0	3	27	15	52	15	73	15	3	15	67	33
Hakodate	9	6	0	6	58	6	30	6	42	6	12	9	73	33
Autumn														
Shana	0	10	0	10	52	14	76	14	48	14	5	19	62	21
Abashiri	0	14	0	14	62	10	48	0	43	10	10	28	52	21
Asahigawa	38	10	0	10	76	10	5	0	24	10	9	5	76	21
Kushiro	24	19	0	19	76	5	38	0	29	5	14	0	81	21
Sapporo	0	19	0	19	52	14	48	5	48	14	10	5	71	21
Hakodate	0	14	0	14	62	10	24	19	38	9	5	5	81	21

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
								1800 L.S.T.						
REGION 1														
Winter														
Shikuka	0	50	0	50	80	1	20	0	10	10	0	0	90	10
Otomari	0	40	0	40	90	0	30	10	20	0	10	0	90	10
Spring														
Shikuka	6	15	0	15	79	9	71	6	18	9	6	0	85	34
Otomari	3	15	0	15	50	15	62	9	50	15	3	15	67	34
Summer														
Shikuka	9	11	0	11	72	26	78	9	28	26	0	4	70	54
Otomari	9	9	0	9	65	18	67	9	40	18	21	10	51	57
Autumn														
Shikuka	6	11	0	11	61	39	56	22	39	39	0	0	61	18
Otomari	0	11	0	11	56	28	50	22	44	28	0	0	72	18
REGION 2														
Winter														
Shana	0	25	0	25	50	50	25	50	50	50	0	0	50	4
Abashiri	0	0	0	0	25	25	50	25	75	25	25	0	50	4
Asahigawa	0	25	0	25	100	0	50	0	0	0	0	25	75	4
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	0	0	0	75	0	25	50	25	0	0	0	100	4
Hakodate	0	0	0	0	75	25	50	25	25	25	0	25	50	4
Spring														
Shana	0	7	0	4	41	26	41	37	63	26	4	4	66	27
Abashiri	3	13	0	9	56	19	31	19	50	19	12	6	63	32
Asahigawa	3	22	0	22	69	6	44	3	34	6	10	3	81	32
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	29	0	29	55	19	39	19	45	19	7	0	74	31
Hakodate	0	28	0	28	59	9	47	13	41	9	0	10	81	32
Summer														
Shana	4	8	0	8	53	20	51	14	51	20	6	4	70	51
Abashiri	2	10	0	10	56	27	50	2	50	27	8	11	54	52
Asahigawa	0	18	2	18	69	18	57	0	35	17	10	10	63	51
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	17	0	17	44	21	62	12	52	21	8	6	65	52
Hakodate	0	19	0	19	75	13	60	13	27	13	4	6	77	52
Autumn														
Shana	0	0	0	0	56	12	72	16	48	16	16	20	48	25
Abashiri	0	8	0	8	56	28	64	4	48	28	8	12	52	25
Asahigawa	0	12	0	12	68	24	40	0	32	28	4	12	56	25
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	16	0	16	60	20	52	12	40	20	0	8	72	25
Hakodate	0	28	0	28	76	20	36	20	24	20	0	4	76	25

~~CONFIDENTIAL~~

TABLE 6.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHWESTERLY FLOW IN THE FREE AIR, REGIONS 1 AND 2

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
							0600 L.S.T.							
REGION 1														
Winter														
Shikuka	0	27	0	27	40	47	20	0	60	47	0	0	53	15
Otomari	0	40	0	40	87	7	13	33	20	7	7	0	86	15
Spring														
Shikuka	3	15	0	15	71	19	53	2	29	19	0	2	79	62
Otomari	5	19	0	19	66	15	42	23	34	15	3	5	77	62
Summer														
Shikuka	11	21	0	21	75	16	39	2	25	16	4	2	78	109
Otomari	12	15	0	15	78	9	43	14	21	9	3	4	84	115
Autumn														
Shikuka	0	19	0	19	61	29	48	3	42	29	6	7	58	31
Otomari	0	13	0	13	63	16	34	41	38	16	9	9	66	32
REGION 2														
Winter														
Shana	0	20	0	20	80	0	40	40	20	0	0	0	100	10
Abashiri	0	7	0	7	71	7	36	14	29	7	0	7	86	14
Asahigawa	7	43	0	43	93	0	14	0	7	0	0	7	93	14
Kushiro	14	14	0	14	64	14	43	21	43	14	14	0	72	14
Sapporo	0	36	0	29	79	7	29	0	21	7	7	7	79	14
Hakodate	0	43	0	43	79	0	36	7	29	0	14	7	79	14
Spring														
Shana	4	12	0	10	46	20	46	36	54	20	2	4	74	50
Abashiri	2	5	0	5	34	18	36	21	68	18	7	5	70	56
Asahigawa	2	20	0	20	64	13	16	0	39	12	7	4	77	56
Kushiro	25	16	0	16	71	9	54	7	30	9	12	4	75	56
Sapporo	0	16	0	16	55	16	46	25	45	16	2	5	77	56
Hakodate	2	29	0	29	64	13	25	9	36	12	2	4	82	56
Summer														
Shana	13	16	0	16	67	15	48	12	34	15	3	4	78	116
Abashiri	7	11	1	11	62	19	30	2	40	20	7	9	64	118
Asahigawa	8	14	0	14	74	9	8	0	26	10	2	2	86	118
Kushiro	35	13	0	12	86	8	40	2	14	8	3	7	82	118
Sapporo	6	19	0	19	64	13	36	5	37	13	7	6	74	118
Hakodate	3	17	1	17	71	11	22	4	30	11	6	5	78	116
Autumn														
Shana	18	0	9	0	82	9	64	27	18	9	0	0	91	11
Abashiri	0	27	0	27	100	0	27	9	9	0	18	0	82	11
Asahigawa	9	27	0	27	91	0	18	0	0	0	0	0	100	11
Kushiro	0	27	0	27	82	9	36	9	18	9	0	0	91	11
Sapporo	0	9	0	9	82	9	73	0	27	9	9	9	73	11
Hakodate	0	45	0	45	64	27	36	0	36	27	0	0	73	11

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
								1800 L.S.T.						
REGION 1														
Winter														
Shikuka	0	0	0	0	38	46	15	0	62	46	0	8	46	13
Otomari	0	25	0	25	67	17	50	17	33	17	16	0	67	12
Spring														
Shikuka	3	3	0	3	48	41	57	22	52	42	7	3	48	115
Otomari	3	9	0	9	49	30	54	29	56	30	13	4	53	117
Summer														
Shikuka	7	8	0	8	56	25	73	9	44	25	6	7	62	150
Otomari	7	6	0	6	48	29	61	24	50	29	6	9	56	161
Autumn														
Shikuka	2	9	0	9	38	55	59	11	65	55	10	3	32	99
Otomari	0	8	0	8	37	51	53	32	65	52	7	12	29	99
REGION 2														
Winter														
Shana	0	20	0	20	40	30	55	25	65	30	5	5	60	20
Abashiri	0	5	0	0	55	36	64	18	45	36	9	23	32	22
Asahigawa	0	32	0	32	86	9	36	9	18	9	5	0	86	22
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	33	0	29	81	10	52	10	19	9	5	5	81	21
Hakodate	0	33	0	33	71	14	52	14	29	14	0	5	81	21
Spring														
Shana	1	6	0	6	30	41	44	30	70	40	5	9	46	79
Abashiri	0	7	0	7	30	34	46	13	74	34	11	6	49	92
Asahigawa	0	16	0	16	59	18	47	7	45	17	10	9	64	91
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	10	0	10	47	15	47	34	55	15	7	4	74	91
Hakodate	0	17	0	16	40	22	59	19	61	22	7	5	66	90
Summer														
Shana	6	6	0	6	49	22	47	21	53	22	6	8	64	156
Abashiri	4	9	1	8	53	24	28	8	52	24	12	13	51	157
Asahigawa	0	6	0	6	50	18	66	0	53	19	6	9	66	157
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	8	0	7	49	16	58	16	54	16	10	9	64	158
Hakodate	0	6	0	6	48	27	65	15	53	27	5	6	62	157
Autumn														
Shana	0	5	0	4	35	50	58	28	68	50	4	6	40	78
Abashiri	0	0	1	3	23	60	66	6	77	60	3	6	31	77
Asahigawa	4	8	0	5	54	36	27	3	47	38	9	5	48	78
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	10	0	10	28	42	59	5	72	42	4	77	47	78
Hakodate	0	12	0	12	37	45	65	8	67	45	4	6	45	49

TABLE 7.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHWESTERLY FLOW IN THE FREE AIR, REGIONS 1 AND 2

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
								0600 L. S. T.						
REGION 1														
Winter														
Shikuka	*	12	0	11	38	56	34	16	63	56	4	2	38	215
Otomari	*	14	0	13	54	36	49	22	47	36	6	5	53	215
Spring														
Shikuka	4	22	0	22	69	26	38	17	31	26	4	4	66	103
Otomari	2	26	0	26	66	18	25	26	39	18	10	9	63	107
Summer														
Shikuka	5	24	0	24	87	3	37	0	13	3	0	10	87	38
Otomari	3	23	0	23	90	3	30	28	10	2	5	8	85	40
Autumn														
Shikuka	1	23	0	22	69	25	49	11	31	25	4	11	60	95
Otomari	1	19	1	19	78	9	35	38	28	9	11	13	67	97
REGION 2														
Winter														
Shana	0	39	0	38	88	9	20	36	16	9	4	4	83	97
Abashiri	0	30	0	29	59	29	44	11	45	29	7	6	58	142
Asahigawa	3	56	0	53	89	10	9	1	12	10	4	5	81	143
Kushiro	1	14	0	14	37	49	42	15	66	51	7	4	38	140
Sapporo	0	45	0	41	71	26	22	8	31	26	5	4	65	143
Hakodate	0	41	0	36	71	22	26	28	31	24	9	8	59	143
Spring														
Shana	0	59	0	56	94	3	6	35	9	3	3	6	88	34
Abashiri	0	41	0	41	79	14	32	13	21	14	0	9	77	56
Asahigawa	0	43	0	39	84	9	14	9	16	9	4	7	80	56
Kushiro	16	23	0	23	57	27	36	16	41	27	2	2	69	56
Sapporo	0	29	0	27	84	13	38	16	21	13	5	14	68	56
Hakodate	0	30	0	29	73	21	21	34	32	21	7	9	63	56
Summer														
Shana	6	39	0	39	94	0	27	18	9	0	6	3	91	33
Abashiri	3	46	0	43	71	17	23	0	29	20	6	0	74	35
Asahigawa	3	23	0	23	94	6	26	3	6	6	3	6	85	35
Kushiro	11	23	0	20	77	6	49	11	26	6	9	0	85	35
Sapporo	6	26	0	23	80	14	29	9	20	14	0	0	86	35
Hakodate	0	11	0	11	60	29	31	23	40	29	3	14	54	35
Autumn														
Shana	0	36	0	36	92	6	17	45	9	6	7	13	74	53
Abashiri	0	15	0	15	64	26	49	19	47	26	13	17	44	53
Asahigawa	6	39	0	37	89	7	28	2	13	7	4	7	82	54
Kushiro	7	17	0	17	59	33	41	22	48	33	11	8	48	54
Sapporo	0	31	0	31	85	9	35	7	15	11	4	18	67	54
Hakodate	0	30	0	22	70	28	20	43	31	30	9	11	50	54

* Signifies less than 0.5 and greater than 0.0.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 1								1800 L.S.T.						
Winter														
Shikuka	0	2	0	1	20	73	40	10	79	73	5	5	17	102
Otomari	0	11	0	9	40	55	41	40	67	55	13	3	29	102
Spring														
Shikuka	3	9	0	9	51	44	68	9	53	44	14	6	36	78
Otomari	1	5	0	4	35	53	39	50	69	54	6	7	33	80
Summer														
Shikuka	0	5	0	5	47	32	74	0	58	32	11	10	47	19
Otomari	0	5	0	5	14	57	43	48	86	57	19	0	24	21
Autumn														
Shikuka	0	8	0	7	39	59	65	6	63	59	4	7	30	108
Otomari	0	6	0	5	50	48	34	58	54	48	10	11	31	109
REGION 2														
Winter														
Shana	0	45	0	39	91	8	9	44	13	8	6	9	77	142
Abashiri	0	25	0	23	46	48	42	10	56	48	7	5	40	177
Asahigawa	1	58	0	51	88	11	15	0	12	12	5	8	75	178
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	27	1	23	61	33	43	6	40	35	8	7	50	178
Hakodate	0	45	0	38	77	19	25	29	24	20	6	12	62	177
Spring														
Shana	5	29	0	28	72	20	26	38	29	21	5	5	69	82
Abashiri	0	22	0	19	58	28	31	12	46	28	7	11	54	113
Asahigawa	0	27	0	25	67	24	61	2	38	24	7	8	61	114
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	17	0	13	57	33	48	24	43	34	2	15	49	113
Hakodate	0	10	0	7	50	39	27	63	52	40	8	18	34	113
Summer														
Shana	4	22	0	22	74	13	52	17	26	13	4	13	70	23
Abashiri	4	22	4	22	65	22	22	0	39	22	13	17	48	23
Asahigawa	0	8	0	8	46	33	33	0	63	33	17	4	46	24
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	4	0	4	50	38	29	4	54	38	12	8	42	24
Hakodate	0	8	0	8	50	33	42	42	50	33	4	50	54	24
Autumn														
Shana	0	26	0	24	81	14	17	51	24	16	10	7	67	118
Abashiri	0	14	1	14	55	43	52	6	50	43	8	9	40	119
Asahigawa	2	31	0	29	76	24	25	0	25	24	5	4	67	119
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	19	9	13	52	43	35	4	55	43	9	11	37	119
Hakodate	0	11	0	9	47	46	37	50	58	48	9	12	31	119

TABLE 8.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH RIDGES AND CENTERS OF HIGH PRESSURE, REGIONS 1 AND 2

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
							0600 L.S.T.							
REGION 1														
Winter														
Shikuka	0	5	0	5	13	63	25	2	73	62	3	5	30	64
Otomari	0	17	0	17	54	35	32	18	49	35	11	0	54	65
Spring														
Shikuka	7	8	0	7	46	40	44	8	52	41	2	6	51	99
Otomari	4	5	0	5	45	45	39	19	57	45	4	4	47	102
Summer														
Shikuka	12	17	0	17	83	8	38	2	13	10	4	2	84	52
Otomari	6	9	2	9	65	22	52	15	37	22	6	6	66	54
Autumn														
Shikuka	5	6	0	5	41	50	53	3	62	51	7	2	40	125
Otomari	4	6	0	5	41	44	41	19	59	46	12	4	38	128
REGION 2														
Winter														
Shana	0	34	0	32	93	7	20	46	10	7	3	6	84	71
Abashiri	0	11	0	11	46	40	49	15	51	43	6	2	49	84
Asahigawa	6	35	0	33	88	10	15	0	13	9	7	4	80	84
Kushiro	0	0	0	0	23	67	55	6	83	68	12	1	19	84
Sapporo	0	17	0	15	62	21	44	4	44	23	14	7	56	84
Hakodate	0	15	0	14	69	23	43	18	31	23	2	13	62	84
Spring														
Shana	2	8	0	8	53	35	51	23	49	36	4	4	56	113
Abashiri	1	9	0	9	43	40	47	11	61	40	9	8	43	140
Asahigawa	5	15	0	14	56	29	10	0	46	31	9	6	54	140
Kushiro	13	2	0	2	45	41	50	5	60	41	10	6	43	140
Sapporo	1	7	0	6	41	39	44	10	64	38	9	9	44	140
Hakodate	2	4	0	4	39	41	32	10	65	41	9	5	45	140
Summer														
Shana	6	14	0	14	55	21	43	9	47	21	5	5	69	77
Abashiri	5	13	0	13	58	26	38	1	46	26	9	9	56	78
Asahigawa	4	12	0	12	64	13	8	0	36	13	4	5	78	78
Kushiro	24	9	0	9	80	11	46	0	22	12	5	6	77	79
Sapporo	0	10	0	10	46	22	42	9	55	22	10	8	60	78
Hakodate	0	11	0	11	67	20	35	3	34	20	4	9	67	79
Autumn														
Shana	0	13	0	13	72	20	39	43	32	20	9	12	59	151
Abashiri	0	6	0	5	46	43	60	5	59	43	10	14	33	151
Asahigawa	32	13	0	13	80	11	13	1	16	14	3	6	77	151
Kushiro	15	3	0	3	42	49	51	5	61	49	8	8	35	152
Sapporo	0	5	0	5	49	36	43	2	56	36	14	11	39	152
Hakodate	1	8	0	7	42	48	34	11	62	48	8	14	30	151

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 1								1800 L.S.T.						
Winter														
Shikuka	0	0	0	0	18	82	36	0	82	82	9	0	9	11
Otomari	0	9	0	0	27	55	82	0	73	55	9	9	27	11
Spring														
Shikuka	3	0	0	0	53	35	85	9	56	35	15	3	47	34
Otomari	0	3	0	3	26	47	56	21	74	50	9	6	35	34
Summer														
Shikuka	2	6	0	6	60	29	79	12	40	29	6	6	59	48
Otomari	2	6	0	6	76	16	61	25	24	16	8	8	68	51
Autumn														
Shikuka	0	0	0	0	29	71	64	11	79	71	11	0	18	28
Otomari	0	7	0	4	46	39	68	7	61	39	18	4	39	28
REGION 2														
Winter														
Shana	5	27	0	27	77	18	18	27	32	18	9	5	68	22
Abashiri	0	8	0	8	28	48	44	0	72	48	4	4	44	25
Asahigawa	4	8	9	8	60	36	20	0	44	36	12	8	44	25
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	8	0	8	28	64	36	0	80	64	8	0	28	25
Hakodate	0	8	0	8	36	52	68	0	64	52	4	0	44	25
Spring														
Shana	3	10	0	10	55	39	45	35	45	39	0	13	48	31
Abashiri	3	8	0	8	49	38	33	3	56	38	8	13	41	39
Asahigawa	0	8	0	8	49	38	56	0	54	39	5	5	51	39
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	5	0	5	31	44	64	10	74	44	13	5	38	39
Hakodate	0	8	0	8	38	33	64	21	62	33	3	8	57	39
Summer														
Shana	9	17	0	17	65	17	65	4	35	17	9	9	65	23
Abashiri	8	4	0	4	58	33	29	0	46	33	4	13	50	24
Asahigawa	0	4	0	4	29	46	75	0	71	46	13	4	38	24
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	4	0	4	33	42	75	8	67	42	4	0	54	24
Hakodate	0	8	0	8	46	17	63	8	54	17	17	16	50	24
Autumn														
Shana	0	19	0	16	67	30	33	37	33	30	3	9	58	43
Abashiri	0	2	0	2	36	40	48	0	69	40	12	10	38	42
Asahigawa	0	7	0	7	47	40	33	0	56	39	5	9	47	43
Kushiro	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Sapporo	0	5	0	5	37	40	40	0	65	39	9	12	40	43
Hakodate	0	7	0	7	40	40	70	7	63	39	7	7	47	43

~~CONFIDENTIAL~~

TABLE 9.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHERLY FLOW IN THE FREE AIR, REGIONS 3 AND 4

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3							0600 L.S.T.							
Winter														
Aomori	0	70	0	65	89	6	17	8	14	6	8	2	84	63
Akita	0	59	0	57	97	0	19	16	3	0	0	3	97	63
Morioka	0	35	0	30	71	24	37	10	29	25	5	11	59	63
Ishinomaki	0	8	0	8	51	48	54	13	59	48	16	5	31	61
Yamagata	0	59	0	56	92	6	14	2	10	6	2	6	86	63
Spring														
Aomori	1	48	0	48	89	4	30	11	7	8	0	7	85	27
Akita	0	41	0	41	96	0	22	22	4	0	4	4	92	27
Morioka	0	26	0	26	93	4	30	11	15	4	11	4	81	27
Ishinomaki	0	26	0	22	56	30	30	33	48	30	7	11	52	27
Yamagata	0	41	0	41	93	4	41	0	11	4	11	11	74	27
Summer														
Aomori	0	40	0	40	100	0	0	0	0	0	20	0	80	5
Akita	0	20	0	20	80	0	40	20	20	0	20	0	80	5
Morioka	0	0	0	0	60	20	20	0	40	20	20	0	60	5
Ishinomaki	0	0	0	0	40	40	40	20	80	40	20	20	20	5
Yamagata	0	0	0	0	60	0	20	0	20	0	20	0	80	5
Autumn														
Aomori	0	35	0	35	85	15	42	12	15	15	4	15	66	26
Akita	0	19	0	19	96	4	54	15	8	4	4	0	92	26
Morioka	0	19	0	19	81	12	35	12	23	15	8	8	69	26
Ishinomaki	4	13	0	13	54	33	54	13	54	33	12	13	42	24
Yamagata	4	23	0	23	92	0	23	0	12	0	12	15	73	26
REGION 4														
Winter														
Niigata	0	44	0	41	95	3	11	41	7	3	4	5	88	75
Maebashi	0	9	0	8	31	65	68	17	71	65	1	4	29	75
Choshi	0	19	0	19	55	37	44	35	45	37	5	7	51	75
Tokyo	0	9	0	9	37	48	63	11	61	49	8	7	36	75
Yokohama	0	11	0	11	39	47	51	25	64	47	8	4	41	75
Spring														
Niigata	0	54	0	54	92	4	15	27	12	4	8	0	88	26
Maebashi	0	15	0	15	58	35	50	31	46	34	8	8	50	26
Choshi	4	35	0	35	73	23	31	23	27	23	4	4	69	26
Tokyo	0	38	0	38	50	27	27	15	50	27	8	4	61	26
Yokohama	0	31	0	31	58	31	27	31	42	31	4	4	61	26
Summer														
Niigata	0	25	0	25	100	0	50	0	0	0	0	0	100	4
Maebashi	0	50	0	50	75	0	50	0	25	0	0	25	75	4
Choshi	0	0	0	0	50	25	50	50	50	25	0	0	75	4
Tokyo	0	0	0	0	75	25	25	50	25	25	0	0	75	4
Yokohama	0	25	0	25	50	0	50	25	50	0	0	0	100	4
Autumn														
Niigata	0	38	0	38	100	0	21	33	0	0	0	13	87	24
Maebashi	0	8	0	8	56	40	56	20	48	40	4	4	52	25
Choshi	0	29	0	29	58	38	42	21	42	38	0	0	62	24
Tokyo	4	20	0	20	56	32	52	4	44	32	0	4	64	25
Yokohama	4	16	0	16	60	28	44	20	48	28	12	8	52	25

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 3						1800 L.S.T.								
Winter														
Aomori	0	54	0	54	92	6	29	13	13	6	5	10	79	63
Akita	2	29	0	29	95	5	51	11	6	5	3	3	89	63
Morioka	0	14	0	14	65	27	57	11	40	27	11	25	37	63
Ishinomaki	0	6	0	6	35	56	78	11	67	56	6	3	35	63
Yamagata							NO DATA							
Spring														
Aomori	0	11	0	11	59	22	50	33	46	22	9	8	63	46
Akita	0	9	0	9	72	15	86	17	34	15	6	4	75	47
Morioka	0	4	0	4	54	24	57	35	48	24	13	9	54	46
Ishinomaki	0	11	0	11	38	34	51	28	62	34	11	6	49	47
Yamagata							NO DATA							
Summer														
Aomori	0	0	0	0	75	19	81	0	31	19	19	19	43	16
Akita	0	0	0	0	75	13	100	0	25	13	0	0	87	16
Morioka	0	0	6	0	44	25	75	13	69	25	19	19	37	16
Ishinomaki	0	0	0	0	44	19	81	13	56	19	6	19	56	16
Yamagata							NO DATA							
Autumn														
Aomori	0	24	0	24	76	16	50	5	26	16	13	11	60	38
Akita	0	24	0	24	76	16	39	8	24	16	3	5	76	38
Morioka	0	18	0	18	53	26	53	3	47	26	3	18	53	38
Ishinomaki	0	3	0	3	55	24	66	5	50	26	16	5	53	38
Yamagata							NO DATA							
REGION 4														
Winter														
Niigata	0	46	0	46	94	4	10	42	13	4	9	7	80	96
Maebashi	0	1	0	1	15	80	38	55	88	80	4	4	12	96
Choshi	0	7	0	6	36	62	40	32	66	62	2	7	29	95
Tokyo	5	3	0	3	23	67	48	22	77	70	7	5	18	96
Yokohama	0	1	0	1	25	65	42	38	76	65	4	2	29	96
Spring														
Niigata	0	20	0	20	76	17	39	37	26	17	5	2	76	46
Maebashi	0	4	2	4	37	46	26	65	72	46	13	6	35	46
Choshi	0	15	0	13	48	39	42	37	57	39	13	7	41	46
Tokyo	0	7	2	7	38	44	58	33	67	44	7	4	45	45
Yokohama	0	0	2	0	36	43	59	34	66	43	4	5	48	44
Summer														
Niigata	0	0	0	0	100	0	40	40	0	0	40	0	60	5
Maebashi	0	20	0	0	80	20	40	40	20	20	0	40	40	5
Choshi	0	0	20	0	40	0	60	40	80	0	20	0	80	5
Tokyo	0	0	0	0	20	20	80	0	80	20	0	0	80	5
Yokohama	0	0	0	0	40	20	100	0	60	20	0	0	80	5
Autumn														
Niigata	0	19	0	17	86	11	28	50	28	11	25	8	56	36
Maebashi	0	6	0	6	25	69	47	42	78	69	6	6	19	36
Choshi	0	3	0	3	31	64	50	22	72	64	6	11	19	36
Tokyo	0	0	0	0	39	47	64	8	61	47	5	17	31	36
Yokohama	0	3	0	3	47	47	61	22	56	47	11	3	39	36

CONFIDENTIAL

TABLE 10.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHEASTERLY FLOW IN THE FREE AIR, REGIONS 3 AND 4

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						0600 L.S.T.								
Winter														
Aomori	0	37	0	35	87	3	39	8	16	3	3	9	85	117
Akita	0	35	0	35	85	8	27	10	15	8	1	5	86	117
Morioka	0	10	0	7	61	21	48	9	46	21	12	18	49	117
Ishinomaki	0	7	0	6	62	29	68	9	41	30	8	6	56	117
Yamagata	2	32	0	30	84	8	19	0	18	88	6	6	80	117
Spring														
Aomori	1	26	0	26	64	28	36	13	37	28	3	4	65	94
Akita	1	24	1	24	76	12	30	15	27	113	7	4	76	94
Morioka	0	18	0	17	59	18	49	7	45	18	11	9	62	94
Ishinomaki	2	22	0	22	53	28	52	7	48	28	5	12	55	94
Yamagata	1	20	0	19	63	22	17	1	39	22	5	9	64	94
Summer														
Aomori	0	17	0	17	67	11	22	17	37	11	13	6	70	46
Akita	0	9	0	9	65	17	50	4	35	18	2	4	76	46
Morioka	2	13	2	13	63	17	37	9	39	17	2	13	68	46
Ishinomaki	0	27	0	27	78	9	42	0	24	9	4	7	80	45
Yamagata	4	17	2	17	78	9	13	0	26	9	9	4	78	46
Autumn														
Aomori	1	16	0	16	57	24	36	5	44	24	6	10	60	122
Akita	5	11	0	11	70	20	45	6	30	21	3	9	67	122
Morioka	4	11	0	11	48	34	43	4	55	34	7	11	48	122
Ishinomaki	5	12	0	12	63	27	56	2	39	28	7	8	57	122
Yamagata	6	16	0	16	69	22	14	0	36	222	6	5	67	122
REGION 4														
Winter														
Niigata	0	33	0	31	90	7	26	36	13	7	7	7	79	134
Maebashi	0	10	0	10	41	54	64	17	62	54	6	3	37	133
Choshi	0	26	0	25	63	29	37	37	37	29	4	4	63	134
Tokyo	0	17	0	17	49	38	61	11	51	38	5	2	55	133
Yokohama	1	16	0	16	59	30	53	28	41	30	3	7	60	134
Spring														
Niigata	1	26	0	26	77	11	49	16	22	11	2	4	83	101
Maebashi	0	29	0	29	56	33	45	18	45	33	2	4	61	101
Choshi	3	26	0	26	75	13	28	39	26	13	2	4	81	100
Tokyo	1	30	0	30	74	17	42	18	26	17	3	6	74	101
Yokohama	0	30	0	30	75	14	39	29	26	14	0	7	79	101
Summer														
Niigata	0	24	0	24	64	16	36	14	40	16	10	8	66	50
Maebashi	0	44	2	44	86	8	32	2	16	88	2	4	86	50
Choshi	2	24	0	22	70	8	30	40	28	10	0	4	86	50
Tokyo	2	48	0	46	74	10	32	2	24	10	0	2	88	50
Yokohama	0	34	0	34	76	4	28	22	26	4	12	6	78	50
Autumn														
Niigata	0	28	0	28	80	11	48	19	25	11	9	6	74	141
Maebashi	1	22	0	22	58	34	54	5	41	35	2	9	54	142
Choshi	1	23	2	23	73	18	30	40	29	18	4	6	72	141
Tokyo	2	23	0	23	60	21	55	1	41	21	3	5	71	141
Yokohama	3	18	1	18	61	21	52	19	39	21	4	6	69	141

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 3					1800 L.S.T.									
Winter														
Aomori	0	18	0	18	65	18	31	10	37	18	6	8	68	51
Akita	0	24	0	24	67	14	35	2	33	14	0	6	80	51
Morioka	0	20	0	18	63	14	47	4	43	14	10	12	64	51
Ishinomaki	0	24	0	24	65	27	51	0	43	27	10	2	61	51
Yamagata	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NO DATA	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Spring														
Aomori	0	11	0	11	42	36	56	8	61	36	11	8	45	36
Akita	0	17	0	17	64	14	69	8	36	14	8	6	72	36
Morioka	0	19	0	19	61	8	39	31	42	11	14	3	72	36
Ishinomaki	0	25	0	25	69	11	42	19	31	11	3	5	81	36
Yamagata	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NO DATA	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Summer														
Aomori	0	17	0	17	57	23	49	20	43	23	3	6	68	35
Akita	0	15	0	15	65	18	65	3	41	17	12	6	65	34
Morioka	0	14	0	14	69	14	77	6	37	14	17	12	57	35
Ishinomaki	0	14	0	14	71	23	66	6	31	23	6	6	65	35
Yamagata	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NO DATA	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
Autumn														
Aomori	0	9	0	9	51	35	47	5	49	35	2	9	54	43
Akita	0	9	0	9	49	35	49	2	53	35	5	7	53	43
Morioka	0	12	0	12	53	21	56	5	49	21	7	12	60	43
Ishinomaki	0	26	0	26	63	28	51	2	42	28	5	0	67	43
Yamagata	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	NO DATA	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -
REGION 4.														
Winter														
Niigata	0	28	0	28	88	2	32	33	17	2	7	7	84	123
Maebashi	0	10	0	10	39	46	38	36	62	46	7	3	44	124
Choshi	0	25	1	24	58	31	30	37	45	31	35	6	58	124
Tokyo	2	19	0	19	51	31	55	9	50	31	8	4	57	123
Yokohama	0	19	0	19	60	31	40	31	40	31	2	4	63	124
Spring														
Niigata	0	16	0	16	62	20	41	38	38	20	6	4	70	94
Maebashi	0	15	1	15	63	27	36	41	41	28	7	6	59	95
Choshi	1	31	0	31	66	19	28	35	34	19	4	7	70	94
Tokyo	0	24	0	24	56	22	58	11	44	22	4	1	73	95
Yokohama	0	23	0	23	53	22	43	26	48	22	5	11	62	94
Summer														
Niigata	0	5	0	5	62	23	54	28	44	24	13	10	53	39
Maebashi	0	18	5	18	74	21	49	10	31	21	8	2	69	39
Choshi	3	15	0	15	67	8	59	21	33	7	8	8	77	39
Tokyo	0	21	0	21	62	5	62	10	41	5	13	13	69	39
Yokohama	0	18	0	18	62	8	62	16	39	8	5	8	79	39
Autumn														
Niigata	0	16	0	15	63	24	48	24	40	24	8	11	57	95
Maebashi	0	16	0	16	67	26	42	15	36	26	5	3	66	97
Choshi	0	24	0	24	64	26	26	45	39	26	6	5	63	97
Tokyo	0	17	0	17	55	24	65	5	45	24	8	5	63	96
Yokohama	1	20	0	20	57	23	44	26	43	23	7	8	62	97

C6-1657,AF [redacted]

TABLE 11.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHEASTERLY FLOW IN THE FREE AIR, REGIONS 3 AND 4

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						0600 L.S.T.								
Winter														
Aomori	0	0	0	0	50	25	25	0	50	25	0	13	62	8
Akita	0	0	0	0	22	56	67	0	78	56	0	0	44	9
Morioka	0	0	0	0	25	25	25	0	88	25	25	0	50	8
Ishinomaki	0	0	0	0	44	22	89	0	56	22	11	0	67	9
Yamagata	0	11	0	11	44	22	0	0	56	22	11	11	56	9
Spring														
Aomori	12	3	0	3	21	35	35	0	74	35	0	9	56	34
Akita	3	6	0	6	35	21	47	3	65	21	0	3	76	34
Morioka	0	3	0	3	35	24	18	0	62	23	6	0	71	34
Ishinomaki	3	9	0	9	44	18	44	3	56	18	3	6	73	34
Yamagata	3	6	0	6	18	18	6	0	82	18	3	20	59	34
Summer														
Aomori	15	4	0	4	53	16	15	11	47	16	9	2	73	55
Akita	4	4	0	4	37	37	63	2	61	39	4	5	52	54
Morioka	4	15	0	15	71	9	44	0	31	9	4	14	73	55
Ishihomaki	11	17	0	17	85	4	33	2	15	4	4	4	88	54
Yamagata	9	7	0	7	61	19	0	0	39	18	4	13	65	54
Autumn														
Aomori	4	11	0	11	54	24	13	2	48	24	2	4	70	46
Akita	4	11	0	11	46	26	54	7	52	28	0	0	72	46
Morioka	0	17	0	17	54	22	28	2	48	24	2	7	67	46
Ishinomaki	2	13	0	13	53	24	44	0	49	24	7	4	65	45
Yamagata	16	13	0	13	47	16	2	0	49	18	4	2	76	45
REGION 4														
Winter														
Niigata	0	5	0	5	55	40	75	15	50	40	10	0	50	20
Maebashi	0	5	0	5	20	55	75	15	85	55	15	0	30	20
Choshi	0	10	0	10	50	40	60	15	55	40	5	0	55	20
Tokyo	0	11	0	11	47	26	63	0	53	26	5	11	58	19
Yokohama	0	10	0	10	60	15	70	0	40	15	0	0	85	20
Spring														
Niigata	3	0	0	0	25	28	50	17	72	33	11	3	53	36
Maebashi	0	0	0	0	44	31	72	8	56	30	6	11	53	36
Choshi	0	6	0	6	56	17	67	17	47	17	14	11	58	36
Tokyo	0	6	0	6	47	25	61	0	53	25	6	11	58	36
Yokohama	3	6	0	6	58	19	67	8	39	19	8	6	67	36
Summer														
Niigata	0	8	0	8	35	33	48	9	67	33	8	4	55	66
Maebashi	0	27	0	27	67	15	31	0	33	15	7	8	70	67
Choshi	15	9	1	9	61	21	52	7	40	21	9	7	63	67
Tokyo	9	12	0	12	65	11	38	0	36	11	2	4	83	66
Yokohama	3	13	0	13	64	15	55	0	39	15	6	9	70	67
Autumn														
Niigata	0	7	0	7	33	40	58	12	72	40	9	5	46	43
Maebashi	0	4	0	4	64	24	64	2	38	24	9	9	58	45
Choshi	4	4	0	4	53	36	47	29	49	36	4	9	51	45
Tokyo	9	5	0	5	48	18	70	0	55	18	9	14	59	44
Yokohama	7	4	0	4	53	27	60	16	44	27	4	4	65	45

CONF[redacted]

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 3					1800 L.S.T.									
Winter														
Aomori	0	15	0	15	38	23	31	15	62	23	8	8	61	13
Akita	0	23	0	23	62	23	38	0	38	23	8	0	69	13
Morioka	0	38	0	38	69	23	23	0	31	23	0	0	77	13
Ishinomaki	8	42	0	42	100	0	25	0	0	0	0	0	100	12
Yamagata							NO DATA							
Spring														
Aomori	0	19	0	19	42	12	46	23	58	11	8	8	73	26
Akita	0	38	0	38	69	0	46	8	31	0	0	8	92	26
Morioka	0	46	0	42	69	0	38	8	31	0	4	8	88	26
Ishinomaki	4	50	0	50	96	4	38	4	8	4	4	0	92	26
Yamagata							NO DATA							
Summer														
Aomori	0	12	0	12	50	28	47	32	60	28	12	5	56	68
Akita	0	12	0	12	34	35	65	10	66	35	6	5	54	68
Morioka	0	13	0	13	66	12	76	7	40	12	13	18	57	68
Ishinomaki	1	25	0	25	85	6	58	6	18	6	5	4	85	67
Yamagata							NO DATA							
Autumn														
Aomori	0	13	0	13	43	22	70	2	57	22	6	9	63	46
Akita	0	29	0	29	53	27	44	9	47	27	4	7	62	45
Morioka	0	31	0	31	64	16	51	0	38	16	4	2	78	45
Ishinomaki	0	22	0	22	76	9	52	4	26	9	6	0	85	46
Yamagata							NO DATA							
REGION 4														
Winter														
Niigata	0	11	0	11	33	11	56	22	67	11	0	0	89	9
Maebashi	0	33	0	33	56	22	22	0	44	22	0	0	78	9
Choshi	0	56	0	56	89	0	44	0	11	0	0	11	89	9
Tokyo	0	44	0	44	67	11	44	0	33	11	0	0	89	9
Yokohama	0	44	0	44	78	0	33	11	22	0	0	11	89	9
Spring														
Niigata	0	27	0	27	53	7	40	27	47	7	0	0	93	15
Maebashi	0	47	0	47	87	13	33	0	13	13	0	7	80	15
Choshi	0	33	0	33	80	13	53	13	20	13	0	0	87	15
Tokyo	0	40	0	40	80	77	60	0	20	7	0	0	93	15
Yokohama	0	40	0	40	80	7	47	13	20	6	0	7	80	15
Summer														
Niigata	0	8	0	8	25	35	56	33	75	36	4	8	52	48
Maebashi	0	23	0	23	83	6	67	2	19	6	6	11	77	48
Choshi	4	15	0	15	50	17	58	21	52	17	15	6	62	48
Tokyo	0	15	0	15	67	6	62	21	35	7	6	6	81	48
Yokohama	0	15	0	15	65	12	54	23	37	15	4	8	75	48
Autumn														
Niigata	0	14	0	14	40	29	43	29	62	28	3	9	60	35
Maebashi	0	34	0	34	89	3	43	0	14	3	8	3	86	35
Choshi	0	20	0	20	63	26	59	23	40	26	6	8	60	35
Tokyo	0	23	0	23	60	20	69	0	43	20	6	6	68	35
Yokohama	0	26	0	26	62	15	53	18	38	15	3	9	73	34

[redacted]

TABLE 12.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHERLY FLOW IN THE FREE AIR, REGIONS 3 AND 4

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						0600 L.S.T.								
Winter														
Aomori	0	0	0	0	40	40	60	0	80	40	20	20	20	5
Akita	0	0	0	0	20	40	100	0	100	40	20	0	40	5
Morioka	0	0	0	0	40	40	60	0	60	40	20	0	40	5
Ishinomaki	0	20	0	20	20	60	40	0	80	60	0	0	40	5
Yamagata	20	20	0	20	40	20	20	0	40	40	0	20	40	5
Spring														
Aomori	10	0	0	0	43	33	10	5	52	33	0	5	62	21
Akita	5	5	0	5	41	18	77	0	55	18	5	9	68	22
Morioka	0	14	0	14	45	18	27	0	50	18	5	0	77	22
Ishinomaki	9	5	0	5	68	18	50	5	36	18	0	0	82	22
Yamagata	5	9	0	9	41	23	5	0	59	23	0	0	77	22
Summer														
Aomori	15	4	0	4	65	15	15	0	35	15	4	0	81	26
Akita	4	4	0	4	27	35	58	8	73	35	0	0	65	26
Morioka	12	8	0	8	73	8	38	0	27	8	0	8	84	26
Ishinomaki	31	8	0	8	77	12	31	0	23	12	0	4	84	26
Yamagata	4	0	0	0	58	15	4	0	50	15	15	12	58	26
Autumn														
Aomori	25	13	0	13	50	25	25	0	50	25	25	0	50	8
Akita	0	25	0	25	38	38	63	0	63	38	12	0	50	8
Morioka	0	13	0	13	75	13	13	0	25	13	0	12	75	8
Ishinomaki	13	13	0	13	75	0	38	0	13	12	0	0	88	8
Yamagata	25	13	0	13	75	13	0	0	25	13	12	13	62	8
REGION 4														
Winter														
Niigata	0	0	0	0	0	50	50	25	75	75	0	0	25	4
Maebashi	0	0	0	0	75	0	75	0	25	0	0	0	100	4
Choshi	0	0	0	0	100	0	75	0	25	0	25	0	75	4
Tokyo	0	0	0	0	75	25	75	0	25	25	0	0	75	4
Yokohama	0	0	0	0	75	0	50	0	25	0	0	0	100	4
Spring														
Niigata	0	5	0	5	27	18	64	5	68	18	0	9	73	22
Maebashi	0	5	0	5	50	18	82	0	50	18	5	0	77	22
Choshi	0	0	0	0	41	9	50	23	64	9	9	0	82	22
Tokyo	5	0	0	0	41	9	36	0	59	9	5	4	82	22
Yokohama	5	0	0	0	36	9	55	9	59	9	9	9	73	22
Summer														
Niigata	0	9	0	9	31	28	56	9	69	28	10	6	56	32
Maebashi	0	9	0	9	63	19	44	0	41	19	9	3	69	32
Choshi	16	0	0	0	59	6	66	9	41	6	16	9	69	32
Tokyo	3	3	0	0	53	9	34	0	44	13	9	3	75	32
Yokohama	0	0	0	0	56	13	53	3	44	13	6	6	75	32
Autumn														
Niigata	0	13	0	13	63	13	63	13	50	13	12	13	62	8
Maebashi	0	25	0	25	63	13	75	0	38	13	12	13	62	8
Choshi	0	0	0	0	38	25	38	25	63	25	0	38	37	8
Tokyo	25	13	0	13	75	13	50	0	25	12	0	0	88	8
Yokohama	0	25	0	25	63	25	50	0	38	25	0	0	75	8

[redacted]

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						1800 L.S.T.								
Winter														
Aomori	0	18	0	18	45	27	36	18	55	27	0	9	64	11
Akita	0	36	0	36	64	18	55	0	36	18	0	0	82	11
Morioka	0	36	0	36	64	27	55	0	45	27	9	0	64	11
Ishinomaki	0	27	0	27	64	36	55	0	36	36	0	0	64	11
Yamagata						NO DATA								
Spring														
Aomori	2	8	0	8	23	29	65	4	77	29	9	8	54	48
Akita	0	17	0	17	37	21	58	12	62	21	0	2	77	48
Morioka	0	15	2	15	40	17	50	33	60	17	4	10	69	48
Ishinomaki	0	21	0	19	46	15	71	8	50	19	4	2	75	48
Yamagata	*					NO DATA								
Summer														
Aomori	0	5	0	5	40	17	63	5	63	17	11	13	59	75
Akita	0	7	0	7	35	24	53	12	68	24	5	8	63	75
Morioka	0	8	0	8	43	12	71	15	57	12	9	20	59	75
Ishinomaki	1	9	0	8	57	13	80	5	44	15	9	9	69	75
Yamagata						NO DATA								
Autumn														
Aomori	0	21	0	21	50	26	32	0	53	26	3	11	60	38
Akita	0	18	0	18	58	21	39	8	45	21	3	3	73	38
Morioka	0	21	0	21	50	18	68	0	53	18	8	13	61	38
Ishinomaki	0	16	0	16	61	26	61	0	42	26	5	8	61	38
Yamagata						NO DATA								
REGION 4														
Winter														
Niigata	0	0	0	0	60	40	60	0	40	40	0	0	60	5
Maebashi	0	20	0	20	60	40	40	0	40	40	0	0	60	5
Choshi	0	40	0	40	80	20	60	0	20	20	0	0	80	5
Tokyo	0	40	0	40	60	20	60	0	40	20	0	0	80	5
Yokohama	0	20	0	40	60	20	20	20	40	20	20	0	60	5
Spring														
Niigata	3	15	0	15	40	18	67	12	61	18	0	6	76	33
Maebashi	0	27	0	27	73	9	58	3	27	9	0	0	91	33
Choshi	3	21	0	21	52	18	61	12	49	18	6	0	76	33
Tokyo	0	27	0	27	61	12	55	15	40	12	3	0	85	33
Yokohama	3	34	0	34	67	9	49	6	34	9	3	6	82	33
Summer														
Niigata	0	5	2	5	29	24	50	29	74	24	9	5	62	42
Maebashi	0	17	0	17	83	7	67	5	24	7	10	7	76	42
Choshi	2	7	0	7	31	21	76	7	69	21	14	10	55	42
Tokyo	0	8	0	8	38	13	73	20	60	12	13	5	70	40
Yokohama	0	7	0	7	33	24	74	19	67	24	14	5	57	42
Autumn														
Niigata	0	16	0	16	47	26	58	11	53	26	0	5	69	19
Maebashi	0	16	0	16	79	16	42	0	21	16	0	10	74	19
Choshi	0	5	0	5	42	32	68	42	58	32	5	10	53	19
Tokyo	0	11	0	11	42	37	74	0	58	37	0	5	58	19
Yokohama	0	21	0	21	32	42	63	0	68	42	0	5	53	19

[redacted]

TABLE 13.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHWESTERLY FLOW IN THE FREE AIR, REGIONS 3 AND 4

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths 0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						0600 L.S.T.								
Winter														
Aomori	0	31	0	31	69	8	23	8	31	8	8	0	84	13
Akita	0	33	0	33	93	0	47	0	7	0	0	0	100	15
Morioka	0	36	0	36	79	0	36	0	36	0	29	0	71	14
Ishinomaki	7	7	0	7	67	33	27	0	33	33	7	7	53	15
Yamagata	7	20	0	20	67	27	27	0	33	27	0	13	60	15
Spring														
Aomori	8	13	0	13	53	8	33	12	50	8	7	3	82	60
Akita	2	22	0	22	72	7	58	7	28	7	3	2	88	60
Morioka	5	20	2	20	52	5	37	2	45	5	5	5	85	60
Ishinomaki	5	15	0	15	54	15	36	3	44	15	3	9	73	59
Yamagata	0	14	2	14	34	27	17	0	66	27	3	9	61	59
Summer														
Aomori	4	18	0	18	58	13	14	3	42	13	10	6	71	113
Akita	2	19	0	19	77	9	36	3	25	9	3	2	86	113
Morioka	9	16	0	16	71	10	37	4	27	10	2	6	82	114
Ishinomaki	15	18	0	18	80	7	30	1	20	7	3	3	87	114
Yamagata	6	14	0	14	61	15	7	0	42	16	6	9	69	114
Autumn														
Aomori	5	5	0	5	47	16	26	0	53	16	0	5	79	19
Akita	0	5	5	5	74	21	42	16	26	21	0	5	74	19
Morioka	5	21	0	21	63	16	32	0	37	16	0	0	84	19
Ishinomaki	5	16	0	16	79	16	37	0	21	16	0	0	84	19
Yamagata	16	0	0	0	58	16	0	0	42	21	11	5	63	19
REGION 4														
Winter														
Niigata	0	24	0	24	53	24	47	18	47	23	6	24	47	17
Maebashi	0	0	0	0	35	41	82	0	71	41	6	0	53	17
Choshi	6	6	0	6	47	18	47	24	47	23	6	6	65	17
Tokyo	0	6	0	6	59	24	47	0	41	23	0	6	71	17
Yokohama	0	0	0	0	59	29	53	12	47	29	6	6	59	17
Spring														
Niigata	2	11	0	11	57	13	74	13	46	13	4	7	76	46
Maebashi	0	13	0	13	46	30	65	4	54	30	7	11	52	46
Choshi	4	13	0	13	39	26	48	26	61	26	4	15	55	46
Tokyo	2	11	0	11	29	33	36	4	71	33	4	5	58	45
Yokohama	2	15	0	15	46	28	50	13	57	28	4	9	59	46
Summer														
Niigata	1	19	0	19	57	13	55	6	46	13	8	9	70	99
Maebashi	0	19	0	19	73	10	39	1	27	10	5	10	75	99
Choshi	17	7	0	7	63	6	56	12	36	6	7	7	80	99
Tokyo	9	17	0	16	63	6	36	1	38	6	2	6	86	98
Yokohama	3	10	1	10	59	9	47	8	42	9	7	4	80	98
Autumn														
Niigata	0	30	0	30	30	60	50	0	70	60	0	0	40	10
Maebashi	0	10	0	10	80	20	50	0	30	20	10	0	70	10
Choshi	10	10	0	10	60	20	60	20	40	20	10	0	70	10
Tokyo	0	10	0	10	60	30	30	0	40	30	0	10	60	10
Yokohama	10	10	0	10	40	30	40	20	60	30	10	10	50	10

TABLE 14.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTH-WESTERLY FLOW IN THE FREE AIR, REGIONS 3 AND 4

Percentage of the observations made at 0600 and 1800 local time, of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						0600 L.S.T.								
Winter														
Aomori	0	68	0	68	91	7	16	4	10	7	1	4	88	114
Akita	0	65	0	65	96	4	12	18	5	4	1	3	92	114
Morioka	1	35	0	34	81	13	42	4	24	13	12	12	63	113
Ishinomaki	0	18	0	16	55	41	53	10	48	43	8	6	43	113
Yamagata	0	67	0	62	91	6	10	1	11	6	2	8	84	114
Spring														
Aomori	0	52	0	48	82	9	24	12	15	9	0	6	85	33
Akita	0	36	0	36	88	9	30	27	12	9	0	6	85	33
Morioka	0	39	0	39	79	9	33	6	24	9	9	6	76	33
Ishinomaki	3	16	0	16	63	25	44	19	44	25	19	12	44	32
Yamagata	0	39	0	33	82	6	30	0	18	9	3	18	70	33
Summer														
Aomori	0	36	5	36	73	23	23	5	32	23	4	9	64	22
Akita	0	24	0	24	86	14	38	33	14	14	0	0	86	21
Morioka	5	32	0	32	91	0	27	0	18	0	9	9	82	22
Ishinomaki	14	18	0	18	86	14	18	0	14	14	0	4	82	22
Yamagata	0	23	0	23	77	9	45	5	32	9	14	9	68	22
Autumn														
Aomori	2	57	0	57	89	7	30	5	11	7	5	4	84	44
Akita	0	48	0	45	100	0	16	27	0	0	0	2	98	44
Morioka	0	61	0	59	82	11	25	2	18	11	5	4	80	44
Ishinomaki	2	11	0	11	66	25	55	11	39	25	11	55	59	44
Yamagata	0	39	0	36	91	7	39	2	11	7	2	11	80	44
REGION 4														
Winter														
Niigata	0	56	0	54	98	2	15	29	2	2	0	5	93	89
Maebashi	0	4	0	3	20	75	64	25	82	75	5	7	13	89
Choshi	1	10	0	10	37	60	53	27	64	60	3	3	34	89
Tokyo	2	7	0	7	22	70	46	6	80	70	6	2	22	89
Yokohama	1	7	0	7	25	67	43	16	79	68	8	3	21	89
Spring														
Niigata	0	30	0	30	84	8	16	43	19	8	6	8	78	37
Maebashi	0	8	0	8	35	51	51	24	65	51	0	6	43	37
Choshi	3	16	0	16	51	38	32	49	51	38	5	3	54	37
Tokyo	0	14	0	14	35	46	46	5	65	46	0	5	49	37
Yokohama	0	14	0	14	43	43	35	19	57	43	0	6	51	37
Summer														
Niigata	0	36	9	36	64	9	36	18	36	9	0	0	91	11
Maebashi	0	27	0	27	73	27	36	18	27	27	0	0	73	11
Choshi	18	18	0	18	64	0	55	9	36	0	0	18	82	11
Tokyo	0	27	0	27	64	9	18	0	36	9	0	9	82	11
Yokohama	0	27	0	27	45	27	45	0	55	27	0	0	73	11
Autumn														
Niigata	0	37	0	34	88	7	24	37	12	7	3	7	83	41
Maebashi	0	10	0	10	32	66	54	27	71	66	2	5	27	41
Choshi	0	12	2	10	46	37	54	24	56	37	2	10	51	41
Tokyo	3	3	0	3	44	44	59	3	59	43	13	8	36	39
Yokohama	0	5	0	5	54	39	59	15	54	39	12	15	34	41

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						1800 L.S.T.								
Winter														
Aomori	0	68	0	64	93	6	13	15	8	6	3	8	83	211
Akita	*	57	0	57	98	2	15	22	2	2	1	1	96	209
Morioka	*	20	0	18	21	23	50	14	38	23	16	15	46	211
Ishinomaki	*	8	0	36	82	63	57	23	74	63	10	7	20	209
Yamagata	-	-	-	-	-	-	NO DATA	-	-	-	-	-	-	-
Spring														
Aomori	0	27	0	25	66	24	31	39	38	24	11	12	53	128
Akita	0	28	0	27	83	9	37	29	20	9	6	5	80	127
Morioka	0	22	0	19	63	28	44	32	41	29	12	11	48	128
Ishinomaki	0	1	0	1	36	50	55	37	70	560	17	8	25	127
Yamagata	-	-	-	-	-	-	NO DATA	-	-	-	-	-	-	-
Summmer														
Aomori	0	3	0	3	68	22	65	24	41	22	19	13	46	37
Akita	0	22	0	22	78	14	51	19	27	14	5	11	70	37
Morioka	0	5	0	5	58	18	55	24	55	19	13	18	50	38
Ishinomaki	0	5	0	5	43	32	62	11	59	32	5	14	49	37
Yamagata	-	-	-	-	-	-	NO DATA	-	-	-	-	-	-	-
Autumn														
Aomori	0	33	0	27	73	22	41	14	27	22	6	16	56	113
Akita	0	21	0	19	85	11	41	23	18	11	4	10	75	113
Morioka	0	21	0	17	65	27	57	4	43	28	12	13	47	113
Ishinomaki	0	4	0	4	40	50	68	12	67	50	11	11	28	113
Yamagata	-	-	-	-	-	-	NO DATA	-	-	-	-	-	-	-
REGION 4														
Winter														
Niigata	0	53	0	49	97	1	13	32	5	1	3	9	87	105
Maebashi	0	1	0	1	17	75	50	40	87	74	7	5	14	106
Choshi	0	1	0	1	22	69	51	31	82	70	8	3	19	106
Tokyo	4	1	0	1	15	70	53	24	86	70	11	2	17	105
Yokohama	0	1	0	1	18	69	50	36	84	69	6	4	21	105
Spring														
Niigata	0	16	0	16	77	11	27	57	27	11	7	11	71	44
Maebashi	0	0	0	0	16	76	27	64	91	76	7	4	13	45
Choshi	0	0	0	0	24	60	53	44	78	60	6	7	27	45
Tokyo	0	0	0	0	20	62	60	38	80	62	7	4	27	45
Yokohama	0	0	0	0	29	60	44	44	76	60	11	5	24	45
Summer														
Niigata	0	0	0	0	56	17	44	56	56	17	11	5	67	18
Maebashi	0	6	0	6	44	28	44	39	56	28	6	5	61	18
Choshi	0	0	0	0	39	17	72	22	78	16	17	17	50	18
Tokyo	0	0	0	0	22	11	89	0	83	11	6	22	61	18
Yokohama	0	0	0	0	28	22	78	22	72	22	5	17	56	18
Autumn														
Niigata	0	33	0	31	89	7	18	42	22	7	17	7	69	55
Maebashi	0	2	4	2	39	54	52	36	63	54	7	7	32	56
Choshi	2	5	0	4	36	55	50	23	68	55	9	4	32	56
Tokyo	2	4	0	4	41	48	50	5	59	48	2	9	41	56
Yokohama	0	4	0	4	36	50	50	25	68	50	12	4	34	56

* Less than 0.6 and greater than 0.0.

~~CONFIDENTIAL~~

TABLE 15.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH RIDGES AND CENTERS OF HIGH PRESSURE, REGIONS 3 AND 4

Percentage of the observations made at 0600 and 1800 local time, of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths 0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 3							0600 L.S.T.							
Winter														
Aomori	0	34	0	34	85	8	41	6	17	8	3	6	83	87
Akita	0	25	0	25	91	7	47	6	8	7	0	8	85	87
Morioka	0	17	0	16	61	25	43	3	46	25	15	12	48	87
Ishinomaki	0	5	0	5	43	51	48	7	60	51	9	3	37	87
Yamagata	0	17	0	14	53	32	17	0	52	32	12	9	47	87
Spring														
Aomori	6	9	1	8	43	32	39	8	54	33	3	8	56	119
Akita	3	9	0	9	54	24	55	10	46	25	4	7	64	119
Morioka	5	11	0	10	47	35	39	3	53	36	6	10	48	118
Ishinomaki	3	2	0	2	35	47	46	3	68	47	7	6	40	119
Yamagata	1	4	0	4	29	51	25	0	73	51	4	9	36	119
Summer														
Aomori	10	5	0	5	55	26	26	2	46	26	3	4	67	92
Akita	1	4	0	4	54	27	47	4	47	26	7	7	60	90
Morioka	4	5	0	5	64	22	40	1	37	22	4	9	65	92
Ishinomaki	15	4	0	3	59	21	38	0	42	21	6	4	69	91
Yamagata	8	3	0	3	47	36	5	0	54	36	4	12	48	92
Autumn														
Aomori	0	6	0	5	40	50	52	3	64	49	8	7	36	105
Akita	0	15	0	14	64	30	49	5	39	30	8	7	55	105
Morioka	5	8	0	8	48	31	25	3	56	32	9	10	49	105
Ishinomaki	3	5	0	5	37	39	62	0	67	40	12	11	37	104
Yamagata	14	3	0	3	39	37	13	0	60	39	9	9	43	105
REGION 4														
Winter														
Niigata	0	18	0	17	82	12	38	35	23	12	9	11	68	65
Maebashi	0	2	0	2	11	82	86	9	91	81	2	2	15	65
Choshi	0	5	0	5	32	55	69	22	69	55	2	14	29	65
Tokyo	2	3	0	3	23	62	65	2	77	62	1	6	31	65
Yokohama	0	2	0	2	25	60	63	6	75	60	5	6	29	65
Spring														
Niigata	1	5	0	5	46	33	67	14	60	34	12	5	49	114
Maebashi	1	4	0	4	22	63	63	18	79	64	4	8	24	115
Choshi	3	9	0	8	44	43	53	25	61	43	14	6	37	115
Tokyo	2	4	0	4	30	50	57	4	70	50	6	6	38	115
Yokohama	3	4	0	4	32	43	58	7	66	46	5	10	39	114
Summer														
Niigata	0	5	1	5	47	29	69	6	57	29	8	16	47	94
Maebashi	0	5	0	5	48	37	67	3	55	37	9	3	51	94
Choshi	15	4	0	4	40	29	61	11	57	29	6	8	57	94
Tokyo	9	2	0	2	45	23	35	0	56	23	6	9	62	94
Yokohama	3	3	0	3	45	26	33	3	56	27	8	10	55	94
Autumn														
Niigata	0	16	0	16	59	28	64	11	45	28	5	12	55	94
Maebashi	0	3	0	3	45	41	82	4	60	41	10	9	40	94
Choshi	0	9	0	9	51	30	48	26	56	30	13	9	48	93
Tokyo	5	6	0	6	48	31	62	0	54	31	11	9	49	94
Yokohama	5	5	0	5	42	30	69	3	59	33	13	11	43	93

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 3						1800 L.S.T.								
Winter														
Aomori	0	10	0	8	60	25	50	4	44	25	12	4	59	48
Akita	0	18	0	18	59	27	29	0	41	27	0	4	69	49
Morioka	0	6	0	6	49	33	57	4	61	33	16	6	45	49
Ishinomaki	0	2	0	2	29	55	47	0	76	55	8	0	37	49
Yamagata	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Spring														
Aomori	0	8	0	8	33	39	57	11	59	39	8	14	39	36
Akita	0	11	0	11	44	31	47	11	56	31	3	5	61	36
Morioka	0	8	0	6	25	47	64	14	78	47	8	14	31	36
Ishinomaki	0	0	0	0	22	44	72	6	78	44	6	0	50	36
Yamagata	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Summer														
Aomori	0	4	0	4	50	31	81	0	58	31	11	4	54	26
Akita	0	0	0	0	36	32	76	0	64	32	8	8	52	25
Morioka	0	4	0	4	65	8	73	15	42	8	19	11	62	26
Ishinomaki	0	12	0	12	58	8	81	0	46	8	11	8	73	26
Yamagata	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	- - -
Autumn														
Aomori	0	3	0	0	30	54	49	0	75	54	10	12	24	76
Akita	0	4	0	4	43	43	25	4	62	43	7	9	41	76
Morioka	0	3	0	3	20	46	59	1	86	46	9	11	34	76
Ishinomaki	0	1	0	1	29	51	39	0	72	51	4	3	42	75
Yamagata	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	- - -
REGION 4														
Winter														
Niigata	0	17	0	17	50	37	57	2	50	37	0	7	56	54
Maebashi	0	2	0	2	15	65	52	11	87	65	9	0	26	54
Choshi	0	9	0	7	35	54	56	13	65	53	2	4	41	54
Tokyo	2	11	0	11	43	35	52	0	57	35	13	0	52	54
Yokohama	0	9	0	9	41	39	57	7	59	39	4	0	57	54
Spring														
Niigata	0	2	0	2	22	31	61	27	78	31	6	8	55	51
Maebashi	0	0	0	0	37	43	61	20	65	44	4	8	44	54
Choshi	0	6	0	6	37	44	57	24	67	44	6	4	46	54
Tokyo	0	8	0	8	21	37	83	6[illegible]	79	37	2	15	46	52
Yokohama	0	10	0	10	33	40	60	27	67	40	6	4	50	52
Summer														
Niigata	0	3	0	3	24	34	79	10	79	35	10	7	48	29
Maebashi	0	10	0	10	66	24	59	0	41	24	7	7	62	29
Choshi	0	10	0	10	34	28	76	0	66	27	7	7	59	29
Tokyo	0	7	0	3	41	17	86	3	59	17	17	4	62	29
Yokohama	0	7	0	7	28	24	86	7	72	24	10	7	59	29
Autumn														
Niigata	0	11	0	11	39	39	59	5	61	40	8	5	47	102
Maebashi	0	15	0	15	62	26	41	5	42	26	7	3	64	102
Choshi	0	10	0	10	41	38	56	27	62	38	10	7	45	102
Tokyo	1	15	0	15	55	23	65	0	46	24	7	5	64	100
Yokohama	0	14	0	14	53	28	53	13	48	28	6	6	60	102

CONFIDENTIAL

TABLE 16.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHERLY FLOW IN THE FREE AIR, REGION 5

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which cert in weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							0600 L.S.T.							
Winter														
Wajima	0	53	0	51	79	6	42	0	21	6	7	6	81	53
Miyazu	0	46	0	45	87	11	16	4	18	11	6	2	81	123
Ibuki	31	40	0	40	90	7	11	48	12	7	3	2	88	122
Nagoya	1	10	0	9	50	38	66	6	54	38	6	10	46	123
Kyoto	2	20	0	16	63	27	21	1	40	28	6	10	56	123
Hamamatsu	1	11	0	10	36	53	51	25	67	53	6	7	34	122
Kobe	1	8	0	7	47	44	60	11	54	44	5	4	47	121
Osaka	2	9	0	9	54	41	37	16	49	42	9	9	40	123
Shiono Misaki	0	14	0	13	42	50	52	30	64	50	10	5	35	122
Spring														
Wajima	0	43	0	43	57	7	36	7	43	7	0	0	93	14
Miyazu	0	32	0	28	72	16	20	0	28	16	4	8	72	25
Ibuki	23	27	0	27	85	4	12	62	19	8	7	4	81	26
Nagoya	4	23	0	23	50	23	31	19	50	27	4	11	58	26
Kyoto	0	31	0	27	85	15	19	4	23	15	8	12	65	26
Hamamatsu	5	30	0	30	45	45	25	30	50	45	0	5	50	20
Kobe	0	15	0	15	54	19	38	4	46	19	4	8	69	26
Osaka	0	19	0	19	58	19	54	4	46	19	8	19	54	26
Shiono Misaki	0	12	0	12	50	42	62	27	58	42	12	0	46	26
Summer														
Wajima	0	0	0	0	50	50	50	50	50	50	0	0	50	2
Miyazu	0	0	0	0	33	67	67	0	100	67	33	0	0	3
Ibuki	50	50	0	50	100	0	0	50	0	0	0	0	100	2
Nagoya	0	33	0	33	100	0	33	0	0	0	0	33	67	3
Kyoto	0	0	0	0	67	33	0	0	33	33	0	0	67	3
Hamamatsu	0	33	0	33	67	33	67	0	33	33	0	0	67	3
Kobe	0	0	0	0	33	33	100	0	67	33	0	0	67	3
Osaka	0	0	0	0	33	67	33	0	67	67	0	0	33	3
Shiono Misaki	0	33	0	33	67	33	33	0	33	33	0	34	33	3
Autumn														
Wajima	0	50	3	47	83	7	40	10	20	7	3	10	80	30
Miyazu	0	31	0	27	73	24	27	6	33	23	14	12	51	51
Ibuki	40	23	0	23	75	12	8	67	27	11	4	8	77	52
Nagoya	6	19	0	19	65	19	54	4	33	23	13	12	52	52
Kyoto	2	17	0	17	65	27	6	0	42	27	12	10	52	52
Hamamatsu	0	19	0	19	52	31	58	10	52	31	10	11	48	52
Kobe	0	17	0	15	48	38	52	10	56	38	6	2	54	52
Osaka	2	13	0	13	63	36	44	10	42	36	8	12	44	52
Shiono Misaki	0	23	0	21	48	36	60	12	52	36	6	6	52	52

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3-	.4-.6-	.7-.8-	.9-1.0	No. of. obs
REGION 5								1800 L.S.T.						
Winter														
Wajima	0	57	0	57	100	0	21	14	0	0	0	4	96	28
Miyazu	0	63	0	58	97	2	22	2	5	2	3	8	87	86
Ibuki	31	51	0	51	94	5	2	47	9	5	5	1	89	86
Nagoya	0	6	0	6	39	56	50	42	68	56	13	10	21	84
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	1	0	1	14	74	37	62	87	74	5	4	17	86
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	5	0	2	57	40	59	30	52	39	14	21	26	86
Shiono Misaki	0	1	0	1	14	76	47	52	87	76	7	6	11	85
Spring														
Wajima	0	14	0	14	71	14	71	14	29	14	14	15	57	7
Miyazu	0	58	0	54	92	8	19	19	8	8	4	7	81	26
Ibuki	35	35	0	35	85	4	0	65	15	4	0	8	88	26
Nagoya	0	4	0	0	42	35	27	69	69	35	15	12	38	26
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	8	0	8	27	50	12	77	77	50	8	8	34	86
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	4	0	4	65	27	62	27	42	27	11	12	50	26
Shiono Misaki	0	0	0	0	31	54	50	50	77	54	11	12	23	26
Summer														
Wajima	0	40	0	20	60	20	20	20	40	20	0	0	80	5
Miyazu	0	0	0	0	80	0	100	0	20	0	0	20	80	5
Ibuki	40	20	0	20	60	0	20	60	40	0	0	0	100	5
Nagoya	0	0	0	0	40	0	40	60	60	0	20	0	80	5
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	0	0	0	20	0	60	40	80	0	0	80	20	5
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	0	0	0	100	0	80	0	0	0	0	20	80	5
Shiono Misaki	0	0	0	0	20	0	60	20	80	0	0	60	40	5
Autumn														
Wajima	0	43	0	36	93	0	50	7	7	0	7	14	79	14
Miyazu	0	28	0	24	72	24	48	4	32	24	4	16	56	25
Ibuki	36	20	0	20	76	24	12	68	24	24	0	0	76	25
Nagoya	0	8	0	8	44	52	48	32	60	52	4	12	32	25
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	16	0	16	20	64	44	40	80	64	8	0	28	25
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	0	0	0	54	38	88	4	58	38	17	8	37	24
Shiono Misaki	0	4	0	4	20	60	84	12	84	60	8	8	24	25

TABLE 17.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHEASTERLY FLOW IN THE FREE AIR, REGION 5

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5						0600 L.S.T.								
Winter														
Wajima	0	53	0	52	92	22	42	5	9	2	4	3	91	64
Miyazu	0	46	0	45	94	5	17	6	7	4	4	3	89	108
Ibuki	27	31	0	31	78	15	14	53	23	15	4	2	79	108
Nagoya	1	13	0	13	50	41	63	6	51	41	3	4	52	108
Kyoto	0	19	0	16	69	20	19	2	30	25	6	6	63	108
Hamamatsu	0	16	0	16	49	39	44	22	52	40	2	6	52	108
Kobe	0	15	0	14	54	37	41	6	50	37	5	9	49	107
Osaka	0	12	0	11	57	32	36	7	44	32	6	9	53	108
Shiono Misaki	0	22	0	22	55	39	59	12	46	39	3	9	49	108
Spring														
Wajima	0	36	0	36	59	9	45	18	45	9	5	4	82	22
Miyazu	0	36	0	36	79	15	24	7	21	15	3	6	76	67
Ibuki	29	29	0	29	74	9	17	50	24	12	9	2	77	66
Nagoya	2	29	0	29	54	34	38	15	46	34	5	6	55	65
Kyoto	0	30	0	27	76	12	27	0	25	12	4	8	76	67
Hamamatsu	0	33	0	33	67	24	48	11	35	24	2	7	67	67
Kobe	4	25	0	25	66	21	33	12	37	21	8	4	67	67
Osaka	0	27	0	25	69	22	37	4	31	23	4	4	69	67
Shiono Misaki	0	34	0	34	61	28	49	13	40	28	3	5	64	67
Summer														
Wajima	0	17	0	17	50	17	50	0	50	17	0	0	83	6
Miyazu	0	30	0	30	85	5	35	0	15	5	5	10	80	20
Ibuki	15	40	0	40	75	10	25	30	25	10	5	10	75	20
Nagoya	0	42	0	42	84	16	42	5	16	16	5	0	79	19
Kyoto	0	35	0	35	65	20	10	0	35	20	0	0	80	20
Hamamatsu	0	50	0	50	83	8	25	0	25	8	17	0	75	12
Kobe	0	30	0	30	85	10	45	0	15	10	0	0	90	20
Osaka	0	35	0	35	80	15	30	0	20	15	0	0	85	20
Shiono Misaki	0	30	0	25	80	15	25	35	20	15	5	5	75	20
Autumn														
Wajima	0	27	0	27	69	7	53	13	33	7	2	13	78	45
Miyazu	0	36	0	34	76	14	25	3	28	13	6	9	72	88
Ibuki	25	22	0	22	70	15	25	52	29	16	2	7	75	87
Nagoya	0	16	0	16	61	26	60	3	40	26	4	10	60	88
Kyoto	1	24	0	23	69	23	8	0	33	23	6	8	63	88
Hamamatsu	1	27	1	27	67	25	41	6	33	25	2	7	66	88
Kobe	0	24	0	24	60	26	56	2	42	26	4	5	66	88
Osaka	0	28	0	28	69	22	31	1	34	22	4	15	59	87
Shiono Misaki	0	35	1	34	64	20	49	7	39	20	10	6	64	88

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							1800 L.S.T.							
Winter														
Wajima	0	26	0	26	77	11	50	14	25	10	5	5	80	84
Miyazu	0	28	0	28	90	8	35	9	17	8	9	3	80	138
Ibuki	17	20	0	20	58	29	15	62	42	30	4	6	60	137
Nagoya	0	10	0	10	30	59	45	38	72	60	5	4	31	137
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	12	0	12	36	49	37	41	65	49	3	10	38	138
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	14	0	14	58	34	70	3	47	34	11	9	46	138
Shiono Misaki	0	15	0	15	36	49	65	9	64	50	5	4	41	138
Spring														
Wajima	0	6	2	6	48	27	65	13	54	27	9	8	56	48
Miyazu	0	20	0	20	58	21	62	8	45	21	10	4	65	124
Ibuki	16	11	1	11	43	30	7	80	54	33	10	8	49	123
Nagoya	0	6	0	6	35	42	37	53	67	42	7	11	40	124
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	12	0	11	41	35	44	33	62	35	4	14	47	124
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	8	0	7	47	35	61	19	55	35	6	12	47	124
Shiono Misaki	0	12	0	11	37	33	54	18	62	34	10	10	46	123
Summer														
Wajima	0	4	0	4	71	8	71	13	38	8	13	4	75	24
Miyazu	0	9	0	9	51	29	71	2	56	29	9	15	47	45
Ibuki	26	11	0	11	57	15	33	48	41	17	4	7	72	46
Nagoya	0	7	2	7	54	20	54	24	50	19	9	11	61	46
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	15	0	15	61	17	50	17	41	17	6	7	70	46
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	4	0	2	54	26	78	11	54	26	13	13	48	46
Shiono Misaki	0	9	0	9	41	22	61	13	54	26	13	11	50	46
Autumn														
Wajima	0	14	0	13	58	30	58	11	44	30	7	11	52	96
Miyazu	0	15	7	14	67	22	47	50	40	22	16	14	48	139
Ibuki	9	9	0	9	43	31	29	53	55	35	8	7	50	137
Nagoya	0	8	1	8	29	49	59	17	72	48	4	7	41	138
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	7	14	0	14	46	38	45	10	57	38	8	11	43	138
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	5	0	5	48	42	74	5	58	42	13	16	29	139
Shiono Misaki	0	7	0	7	36	43	64	5	66	43	6	12	39	138

TABLE 18.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHEASTERLY FLOW IN THE FREE AIR, REGION 5

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5						0600 L.S.T.								
Winter														
Wajima	0	0	0	0	38	46	100	0	62	46	15	8	31	13
Miyazu	0	13	0	13	75	21	21	4	25	21	8	0	71	24
Ibuki	17	8	0	8	54	21	25	67	42	21	4	12	63	24
Nagoya	0	0	0	0	54	38	63	0	54	38	12	8	42	24
Kyoto	4	0	0	0	58	21	8	0	38	25	0	0	75	24
Hamamatsu	0	0	0	0	46	46	75	0	54	46	4	0	50	24
Kobe	0	0	0	0	50	29	46	4	54	29	4	9	58	24
Osaka	0	0	0	0	61	26	61	0	39	26	0	9	65	23
Shiono Misaki	0	4	0	4	46	33	79	17	54	33	13	0	54	24
Spring														
Wajima	0	14	0	14	36	29	71	0	71	29	14	7	50	14
Miyazu	0	6	0	6	52	24	24	0	48	24	6	3	67	33
Ibuki	30	3	0	3	52	18	24	73	45	18	6	6	70	33
Nagoya	0	3	0	3	27	36	58	6	73	37	6	21	36	33
Kyoto	0	3	0	3	47	22	16	0	53	22	6	6	66	32
Hamamatsu	0	4	0	4	32	40	64	20	68	40	0	12	48	25
Kobe	0	6	0	3	36	30	48	9	67	30	6	15	49	33
Osaka	0	3	0	3	48	30	58	3	55	30	12	12	46	33
Shiono Misaki	0	3	0	3	42	36	73	21	58	36	0	0	64	33
Summer														
Wajima	0	16	0	16	56	11	53	0	49	11	9	9	71	45
Miyazu	0	10	0	10	49	30	16	0	51	30	6	10	54	69
Ibuki	48	19	0	19	70	10	30	48	26	14	7	2	77	69
Nagoya	3	14	0	13	55	28	26	0	48	28	4	10	58	69
Kyoto	0	9	0	9	48	26	19	0	54	26	4	9	61	69
Hamamatsu	2	7	2	7	52	13	67	2	50	13	15	10	62	60
Kobe	0	10	0	10	48	20	39	14	54	20	3	18	59	69
Osaka	0	12	0	12	48	26	58	0	55	26	10	10	54	69
Shiono Misaki	0	30	0	28	68	7	45	12	33	7	9	9	75	69
Autumn														
Wajima	0	0	0	0	23	38	85	0	77	38	0	8	54	13
Miyazu	0	4	0	4	54	19	8	0	46	19	12	15	54	26
Ibuki	28	8	0	8	44	28	24	64	60	28	8	0	64	25
Nagoya	4	7	0	7	56	26	30	0	44	26	7	15	52	27
Kyoto	0	4	0	4	33	30	7	0	70	29	15	4	52	27
Hamamatsu	0	4	0	4	56	33	63	7	48	33	4	19	44	27
Kobe	0	0	0	0	44	22	67	11	56	22	11	8	59	27
Osaka	0	4	0	4	70	26	59	0	37	26	11	4	59	27
Shiono Misaki	0	11	0	11	37	44	59	19	63	44	8	4	44	27

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
							1800 L.S.T.							
REGION 5														
Winter														
Wajima	0	40	0	40	40	40	60	0	60	40	0	0	60	5
Miyazu	0	50	0	50	80	20	20	0	20	20	0	0	80	10
Ibuki	18	45	0	36	64	9	0	55	27	9	0	0	91	11
Nagoya	0	55	0	55	82	9	18	0	18	9	0	0	91	11
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	50	0	50	100	0	40	10	10	0	10	0	90	10
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	45	0	45	82	18	36	0	18	18	0	0	82	11
Shiono Misaki	0	55	0	55	91	0	18	18	9	0	9	0	91	11
Spring														
Wajima	0	20	0	20	50	0	70	10	50	0	0	10	90	10
Miyazu	0	32	0	32	59	14	32	5	41	14	0	9	77	22
Ibuki	18	32	0	32	68	5	32	32	32	5	0	0	95	22
Nagoya	0	320	0	32	68	14	59	0	32	14	0	4	82	22
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	27	0	27	68	5	50	14	32	5	0	9	86	22
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	32	0	32	77	9	55	5	23	9	5	9	77	22
Shiono Misaki	0	36	0	36	91	5	36	27	9	4	5	9	82	22
Summer														
Wajima	0	4	0	4	23	31	69	15	77	31	0	8	61	26
Miyazu	0	9	2	9	52	24	65	2	52	24	9	15	52	54
Ibuki	44	15	0	15	67	17	20	56	33	16	4	4	76	54
Nagoya	0	17	0	17	50	20	70	13	50	20	2	9	69	54
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	19	0	19	54	19	63	9	44	19	7	9	65	54
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	--	-	-
Osaka	0	19	2	19	70	24	67	6	33	24	13	15	48	54
Shiono Misaki	0	35	0	33	70	19	39	19	31	18	4	13	65	54
Autumn														
Wajima	0	14	0	14	19	33	48	0	81	33	0	10	57	21
Miyazu	0	21	0	21	74	12	24	2	31	12	5	12	71	42
Ibuki	38	17	0	17	74	17	21	60	26	17	0	2	81	42
Nagoya	0	19	0	19	74	21	48	0	29	22	2	12	64	42
Kyoto	0	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	26	0	26	64	21	50	10	40	22	9	0	69	42
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	--	-
Osaka	0	22	0	22	80	12	59	10	22	12	5	15	68	41
Shiono Misaki	0	40	2	40	81	14	38	19	24	14	7	3	76	42

~~CONFIDENTIAL~~

TABLE 19.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHWESTERLY FLOW IN THE FREE AIR, REGION 5

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							0600 L.S.T.							
Winter														
Wajima	0	0	0	0	100	0	100	0	25	0	25	0	75	4
Miyazu	0	14	0	0	29	57	0	0	71	57	14	0	29	7
Ibuki	25	00	0	0	38	50	25	75	63	50	0	0	50	8
Nagoya	0	0	0	0	13	75	63	0	88	75	0	0	25	8
Kyoto	0	0	0	0	0	88	0	0	100	87	0	0	13	8
Hamamatsu	0	0	0	0	13	75	88	0	88	75	0	12	13	8
Kobe	0	0	0	0	0	88	75	13	100	87	0	0	13	8
Osaka	0	0	0	0	25	75	25	13	75	75	12	0	13	8
Shiono Misaki	0	0	0	0	38	38	88	0	75	38	25	0	37	8
Spring														
Wajima	0	0	0	0	17	39	87	9	87	39	9	9	43	23
Miyazu	0	2	0	2	21	47	30	2	79	47	4	21	28	47
Ibuki	21	0	0	0	36	32	26	72	57	38	11	6	45	47
Nagoya	2	0	0	0	28	48	52	2	74	50	6	11	33	46
Kyoto	4	4	0	4	13	57	6	0	83	60	4	17	19	47
Hamamatsu	2	0	0	0	30	42	81	5	70	42	5	14	39	43
Kobe	2	4	0	4	21	53	51	2	79	53	4	7	36	47
Osaka	0	4	0	4	26	55	55	0	74	56	4	21	19	47
Shiono Misaki	0	6	0	6	26	49	74	8	72	49	4	11	36	47
Summer														
Wajima	0	9	0	9	33	32	56	3	67	32	6	8	54	78
Miyazu	1	4	0	4	47	39	22	0	55	39	11	10	40	113
Ibuki	42	10	0	10	64	16	46	38	35	17	5	4	74	111
Nagoya	4	9	0	9	55	24	37	0	46	25	8	12	55	114
Kyoto	0	8	0	8	54	27	4	0	49	27	6	9	58	113
Hamamatsu	2	11	0	11	52	29	45	1	48	29	5	6	60	98
Kobe	2	10	0	10	55	23	29	1	46	24	4	8	64	114
Osaka	1	8	0	8	52	30	29	0	50	31	13	12	44	112
Shiono Misaki	1	12	1	11	46	27	66	5	53	28	8	13	51	111
Autumn														
Wajima	0	5	0	5	42	21	95	0	63	21	5	21	53	19
Miyazu	0	4	0	4	58	25	13	0	42	25	4	25	46	24
Ibuki	33	8	0	8	46	25	21	67	54	25	8	4	63	24
Nagoya	4	8	0	8	46	33	75	0	58	33	17	17	33	24
Kyoto	8	8	0	8	50	33	8	0	58	33	13	4	50	24
Hamamatsu	0	13	0	13	38	46	75	0	63	46	4	8	42	24
Kobe	0	13	0	8	29	42	71	8	67	42	4	12	42	24
Osaka	0	4	0	4	50	38	33	0	54	38	12	17	33	24
Shiono Misaki	0	17	0	17	38	50	75	0	67	50	8	13	29	24

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							1800 L.S.T.							
Winter														
Wajima	0	29	0	29	71	0	29	29	29	0	0	0	100	7
Miyazu	0	35	0	35	65	15	35	15	35	15	5	0	80	20
Ibuki	20	40	0	40	85	15	15	45	15	15	0	5	80	20
Nagoya	0	30	0	30	65	20	30	0	40	20	5	0	75	20
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	30	0	30	55	30	40	0	45	30	0	15	55	20
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	30	0	30	75	15	25	0	25	15	0	10	75	20
Shiono Misaki	0	30	0	30	60	30	45	10	40	30	10	0	60	20
Spring														
Wajima	0	30	3	30	47	13	33	10	53	14	3	0	83	30
Miyazu	0	18	3	18	43	14	58	8	58	14	7	7	72	76
Ibuki	22	16	0	16	54	13	29	51	41	13	4	4	79	76
Nagoya	0	20	0	20	50	17	51	24	51	18	4	9	69	76
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	20	0	20	54	22	64	3	47	23	5	5	67	76
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	18	0	18	53	27	58	14	47	27	3	15	55	73
Shiono Misaki	0	18	0	17	62	17	61	14	42	17	8	8	67	76
Summer														
Wajima	0	12	0	12	36	23	57	3	65	23	9	7	61	77
Miyazu	0	13	1	12	53	19	57	2	49	19	8	11	62	140
Ibuki	25	18	2	17	64	19	45	29	37	14	8	7	71	139
Nagoya	1	16	4	16	52	19	59	16	51	19	11	15	55	140
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	1	11	0	11	55	18	76	4	50	18	7	11	64	141
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	1	6	0	6	60	17	69	19	44	17	15	18	50	139
Shiono Misaki	0	15	0	15	52	16	61	10	52	16	11	16	57	140
Autumn														
Wajima	0	7	0	7	40	13	60	0	67	13	20	0	67	15
Miyazu	0	15	0	15	50	27	46	0	50	27	4	4	65	26
Ibuki	23	19	0	19	65	8	35	38	23	23	15	0	62	26
Nagoya	0	16	0	16	60	28	64	8	40	28	0	8	64	25
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	27	0	27	50	31	54	0	50	31	0	11	58	26
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	8	0	8	65	23	35	12	38	23	15	8	54	26
Shiono Misaki	0	19	0	19	62	27	65	4	38	27	4	11	58	26

TABLE 20.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHWESTERLY FLOW IN THE FREE AIR, REGION 5

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							0600 L.S.T.							
Winter														
Wajima	0	52	0	48	76	7	34	7	21	10	0	7	83	29
Miyazu	0	30	0	27	74	24	25	6	31	23	10	5	62	102
Ibuki	35	37	0	37	88	10	21	41	16	10	6	0	84	103
Nagoya	0	6	0	6	41	53	67	3	59	53	4	9	34	103
Kyoto	0	9	0	7	47	44	20	0	55	44	8	8	40	101
Hamamatsu	0	2	0	2	22	69	61	27	81	69	4	6	21	103
Kobe	0	5	0	5	37	57	70	11	67	57	5	7	31	103
Osaka	0	5	0	5	43	51	45	18	61	51	7	6	36	103
Shiono Misaki	0	7	0	6	19	68	61	28	83	68	6	6	20	103
Spring														
Wajima	02	26	0	26	59	23	54	8	46	23	8	8	61	39
Miyazu	2	19	0	18	50	35	25	7	52	35	7	6	52	102
Ibuki	30	18	0	18	66	21	11	71	33	21	6	5	68	102
Nagoya	0	12	1	9	41	46	49	5	60	47	3	11	39	102
Kyoto	0	8	0	7	51	34	18	1	53	34	10	4	52	101
Hamamatsu	0	13	1	13	44	45	49	19	58	45	6	9	40	89
Kobe	0	6	0	5	33	48	57	11	68	49	9	4	38	102
Osaka	0	7	0	7	47	39	44	11	55	39	8	12	41	100
Shiono Misaki	0	16	1	16	43	37	56	17	62	37	12	9	42	101
Summer														
Wajima	0	17	4	17	54	17	50	13	46	17	4	4	75	24
Miyazu	0	15	0	15	38	30	23	13	63	30	7	10	53	40
Ibuki	38	23	0	23	73	8	28	48	25	8	7	5	80	40
Nagoya	0	18	0	18	45	23	40	3	55	22	10	23	45	40
Kyoto	0	20	0	20	50	22	8	0	50	22	5	10	63	40
Hamamatsu	0	24	0	21	55	29	37	3	47	29	3	10	58	38
Kobe	0	15	0	15	53	18	40	5	48	18	5	7	70	40
Osaka	0	13	0	12	53	28	20	8	53	27	8	10	55	40
Shiono Misaki	0	15	0	15	55	20	45	12	45	20	5	12	63	40
Autumn														
Wajima	0	40	0	38	74	8	51	6	28	8	7	11	74	53
Miyazu	0	10	0	10	52	23	28	2	54	24	17	11	48	81
Ibuki	43	15	0	15	77	14	12	73	23	13	5	4	78	81
Nagoya	10	9	0	9	48	38	49	5	49	39	6	4	51	80
Kyoto	12	6	0	6	46	32	16	0	52	36	9	12	43	81
Hamamatsu	0	12	0	12	43	41	58	12	58	41	5	6	48	81
Kobe	0	5	0	5	49	34	71	9	56	35	15	5	45	80
Osaka	2	6	0	5	56	33	36	7	47	35	12	6	47	81
Shiono Misaki	0	10	0	10	36	40	65	11	68	40	9	7	44	80

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							1800 L.S.T.							
Winter														
Wajima	0	65	0	62	94	3	29	6	6	3	0	0	97	34
Miyazu	0	47	0	44	83	16	38	0	20	17	8	8	67	87
Ibuki	31	52	0	51	92	6	6	43	9	6	1	0	93	87
Nagoya	1	6	0	5	44	48	68	21	60	48	12	15	25	87
Kyoto	-	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Hamamatsu	0	5	0	3	20	70	43	49	83	70	7	5	18	86
Kobe	-	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Osaka	0	2	0	2	41	56	46	41	67	56	13	10	21	87
Shiono Misaki	0	4	0	2	16	69	47	49	87	69	5	5	21	85
Spring														
Wajima	0	25	0	25	70	20	50	15	30	20	0	10	70	20
Miyazu	0	42	0	40	71	24	42	3	32	24	5	10	61	38
Ibuki	13	32	0	32	66	16	00	68	37	18	5	3	74	38
Nagoya	0	0	0	0	37	53	24	76	68	53	16	5	26	38
Kyoto	-	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Hamamatsu	0	3	0	3	16	74	13	84	87	74	5	3	18	38
Kobe	-	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Osaka	0	5	0	3	58	39	53	26	45	40	13	26	21	38
Shiono Misaki	0	3	0	0	13	71	42	55	84	76	5	3	16	38
Summer														
Wajima	0	0	0	0	23	15	69	31	77	15	8	8	69	13
Miyazu	0	0	0	0	60	20	95	0	55	20	15	25	40	20
Ibuki	40	20	0	20	60	20	5	75	40	20	0	0	80	20
Nagoya	0	5	0	5	30	25	50	45	80	25	15	20	40	20
Kyoto	-	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Hamamatsu	0	10	0	10	35	25	45	45	65	25	10	20	45	20
Kobe	0	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Osaka	0	5	0	5	53	32	89	0	47	32	10	21	37	19
Shiono Misaki	0	5	0	5	25	30	40	55	75	30	25	20	25	20
Autumn														
Wajima	0	38	0	19	75	16	50	3	28	16	6	19	59	32
Miyazu	0	18	0	14	64	36	64	0	41	39	9	11	43	44
Ibuki	18	32	0	32	75	18	14	55	32	18	7	0	75	44
Nagoya	0	2	0	2	41	43	73	14	66	46	20	11	23	44
Kyoto	-	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Hamamatsu	0	5	0	5	16	70	61	32	84	70	7	5	18	44
Kobe	-	-	-	-	-	-	-	-	NO DATA		-	-	-	-
Osaka	0	7	0	5	48	48	61	25	57	48	16	11	25	44
Shiono Misaki	0	5	0	5	14	61	68	23	86	61	7	14	18	44

TABLE 21.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH RIDGES AND CENTERS OF HIGH PRESSURE, REGION 5

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							0600 L.S.T.							
Winter														
Wajima	0	19	0	19	56	25	75	6	44	25	0	0	75	16
Miyazu	3	18	0	18	73	24	18	0	30	24	6	12	58	33
Ibuki	15	18	0	18	64	24	27	52	36	24	0	6	70	33
Nagoya	0	0	0	0	22	63	69	0	78	63	9	3	25	32
Kyoto	0	3	0	3	38	42	12	0	73	43	12	9	36	33
Hamamatsu	0	0	0	0	16	69	69	13	84	69	3	3	25	32
Kobe	0	0	0	0	30	48	70	0	73	49	9	6	36	33
Osaka	3	0	0	0	28	59	56	0	72	63	6	3	28	32
Shiono Misaki	0	3	0	3	21	64	76	15	79	64	3	9	24	33
Spring														
Wajima	0	5	0	5	46	32	81	8	57	33	5	5	57	37
Miyazu	0	8	0	8	55	28	34	2	46	28	6	12	54	83
Ibuki	18	12	0	12	47	31	20	64	54	31	10	1	58	83
Nagoya	1	10	0	10	33	41	47	7	67	41	5	17	37	83
Kyoto	0	8	0	8	37	41	20	0	63	41	6	6	47	83
Hamamatsu	0	12	0	12	52	32	43	20	49	32	3	6	59	65
Kobe	0	4	0	4	31	36	53	6	72	36	10	6	48	83
Osaka	1	6	0	6	43	37	59	1	55	39	2	13	46	83
Shiono Misaki	0	16	0	16	39	36	64	7	60	37	1	5	57	83
Summer														
Wajima	0	17	0	17	43	26	47	4	53	26	8	2	64	53
Miyazu	0	8	0	8	51	40	13	1	53	40	6	13	41	85
Ibuki	36	15	0	15	62	20	29	47	38	20	8	5	67	85
Nagoya	4	13	0	12	48	31	41	0	52	31	8	7	54	85
Kyoto	0	8	0	8	51	32	4	0	52	32	9	5	54	85
Hamamatsu	0	13	0	13	55	28	39	4	48	28	11	4	57	75
Kobe	0	9	0	8	49	29	36	1	53	30	12	9	49	85
Osaka	1	7	0	7	48	32	32	0	55	32	12	14	42	85
Shiono Misaki	0	9	0	9	42	32	62	6	60	33	12	9	46	85
Autumn														
Wajima	0	15	0	11	55	25	69	5	47	25	11	20	44	55
Miyazu	1	10	0	10	51	35	31	1	58	35	14	4	47	88
Ibuki	17	13	0	13	42	45	33	49	60	47	7	2	44	86
Nagoya	5	6	0	6	40	45	66	0	61	45	10	6	39	88
Kyoto	3	7	0	7	35	44	5	0	67	45	9	5	41	88
Hamamatsu	0	9	0	9	41	40	58	2	64	40	10	13	37	88
Kobe	0	5	0	5	32	55	59	5	67	55	4	8	33	88
Osaka	1	6	0	6	41	50	39	0	61	50	7	12	31	88
Shiono Misaki	0	16	0	14	40	47	74	5	62	47	8	8	37	88

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs
REGION 5							1800 L.S.T.							
Winter														
Wajima	0	18	0	18	50	45	50	0	50	45	9	0	46	22
Miyazu	0	6	0	6	59	30	48	2	44	30	11	5	54	54
Ibuki	17	13	0	13	47	42	23	60	55	41	4	8	47	53
Nagoya	0	2	0	2	24	63	46	11	76	67	7	6	20	54
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	4	0	4	24	67	48	30	80	67	9	4	20	54
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	2	0	2	46	46	44	00	54	46	2	13	39	54
Shiono Misaki	0	6	0	6	30	56	85	0	72	56	9	7	28	54
Spring														
Wajima	0	9	0	9	26	39	65	4	78	39	9	17	35	23
Miyazu	0	2	0	2	15	44	49	2	87	44	10	14	32	59
Ibuki	9	2	0	2	20	42	24	70	73	44	7	12	37	59
Nagoya	0	2	0	2	14	51	48	32	87	51	7	8	34	59
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	0	0	0	24	51	68	22	76	51	2	5	42	59
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	2	0	2	21	48	78	2	81	48	3	16	33	58
Shiono Misaki	0	4	0	4	22	46	54	24	80	46	9	10	35	59
Summer														
Wajima	0	0	0	0	33	46	75	0	71	46	4	4	46	24
Miyazu	0	6	6	6	42	15	58	0	64	15	21	12	52	33
Ibuki	22	9	6	9	59	9	50	19	44	9	16	0	75	32
Nagoya	0	0	9	0	33	15	82	3	67	15	9	12	64	33
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	0	0	0	55	9	70	9	55	9	24	0	67	33
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	0	3	0	76	9	85	12	30	9	18	18	55	33
Shiono Misaki	0	6	0	6	42	21	67	9	58	21	21	12	46	33
Autumn														
Wajima	0	4	0	4	26	33	63	0	78	33	7	4	56	27
Miyazu	0	9	0	9	42	36	56	0	61	36	8	9	47	66
Ibuki	23	8	0	8	52	32	38	50	52	32	4	9	55	66
Nagoya	0	11	0	11	46	38	59	0	52	39	5	12	44	66
Kyoto	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Hamamatsu	0	12	2	12	46	34	57	2	54	35	5	5	55	65
Kobe	-	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Osaka	0	11	0	11	59	34	56	0	45	34	11	17	38	64
Shiono Misaki	0	15	0	15	51	35	68	5	57	37	18	3	42	65

CONFIDENTIAL

TABLE 22.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHERLY FLOW IN THE FREE AIR, REGION 6

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							0600 L.S.T.							
Winter														
Sakai	1	39	0	38	93	5	17	7	11	5	5	3	87	109
Hamada	0	32	0	31	83	11	43	19	20	11	5	8	76	109
Okayama	0	4	0	4	31	47	27	9	70	47	6	6	41	109
Hiroshima	1	17	0	13	66	27	16	0	37	27	7	5	61	109
Izuhara	0	8	0	6	37	46	50	17	65	46	7	4	43	109
Tokushima	0	9	0	8	39	42	59	10	64	43	6	6	45	109
Shimonoseki	1	16	0	16	85	11	30	41	17	11	6	7	76	109
Matsuyama	0	8	0	8	55	28	41	3	46	28	8	5	59	109
Fukuoka	0	16	0	15	77	16	51	17	26	16	6	10	68	109
Kochi	0	3	0	2	21	63	46	0	84	63	9	4	24	109
Oita	1	3	0	2	44	42	68	9	61	43	8	8	41	109
Shimizu	0	6	0	6	53	47	24	0	47	47	0	0	53	17
Nagasaki	1	19	0	18	66	17	40	16	37	18	7	7	68	109
Miyazaki	0	4	0	4	21	59	62	9	79	59	2	8	31	109
Kagoshima	0	11	0	10	58	31	54	0	45	31	7	7	55	108
Spring														
Sakai	0	19	0	19	62	22	24	5	38	22	3	13	62	37
Hamada	0	19	0	19	56	22	47	11	44	22	6	5	67	36
Okayama	0	8	0	8	35	32	8	5	65	32	8	6	54	37
Hiroshima	3	14	0	11	59	27	11	0	43	27	5	0	68	37
Izuhara	0	0	0	0	41	22	46	22	62	22	8	16	54	37
Tokushima	8	8	0	8	46	30	43	5	57	30	8	8	54	37
Shimonoseki	3	11	0	11	62	30	62	27	43	30	11	8	51	37
Matsuyama	8	11	0	11	50	19	25	3	53	19	3	3	75	36
Fukuoka	0	8	0	8	51	32	57	3	51	32	6	0	62	37
Kochi	8	11	0	8	36	28	42	0	64	28	17	5	50	36
Oita	0	5	0	5	54	30	41	3	54	30	11	5	54	37
Shimizu	0	0	0	0	38	50	50	0	63	50	0	12	38	8
Nagasaki	0	3	0	3	59	27	43	22	43	27	5	0	68	37
Miyazaki	0	5	0	5	38	43	43	14	65	43	8	3	46	37
Kagoshima	3	5	0	5	49	32	38	5	54	35	8	11	46	37

CONFIDENTIAL

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6						1800 L.S.T.								
Winter														
Sakai	1	45	0	42	98	2	42	2	2	3	2	10	85	88
Hamada	0	26	0	26	93	3	49	22	12	4	8	8	80	88
Okayama	0	2	0	2	48	44	75	6	64	44	17	6	33	88
Hiroshima	0	6	0	6	62	33	47	1	47	34	12	17	37	87
Izuhara	0	5	0	5	30	49	60	9	72	49	6	7	38	88
Tokushima	–	–	–	–	–	NO DATA			–	–	–	–	–	–
Shimonoseki	0	14	0	14	87	12	48	35	22	13	10	16	61	88
Matsuyama	0	3	0	3	72	22	67	3	36	22	11	11	56	88
Fukuoka	0	16	0	13	74	21	64	10	31	22	8	9	61	87
Kochi	0	1	0	1	19	66	62	2	88	66	12	3	19	86
Oita	0	3	0	2	44	51	68	21	64	51	9	11	29	87
Shimizu	0	0	0	0	25	50	56	0	81	50	12	19	19	16
Nagasaki	0	15	0	15	65	22	60	22	38	23	9	7	61	87
Miyazaki	0	0	0	0	19	69	74	14	83	69	5	5	21	88
Kagoshima	0	2	0	2	44	46	74	8	63	46	10	5	39	87
Spring														
Sakai	0	26	0	26	67	22	74	0	41	22	11	11	56	27
Hamada	0	7	0	7	59	19	56	22	44	19	15	11	55	27
Okayama	0	4	0	4	41	44	78	7	70	44	19	7	30	27
Hiroshima	0	7	0	7	30	48	63	0	81	48	19	0	33	27
Izuhara	0	7	0	7	26	41	59	11	74	41	4	0	55	27
Tokushima	–	–	–	–	–	NO DATA			–	–	–	–	–	–
Shimonoseki		7	0	7	48	37	78	15	59	37	29	4	30	27
Matsuyama	0	4	0	4	33	44	67	0	67	44	4	19	33	27
Fukuoka	0	7	0	7	41	37	81	4	67	37	15	0	48	27
Kochi	0	4	0	4	30	41	74	4	78	41	29	15	15	27
Oita	0	4	0	4	30	44	56	26	74	44	11	8	37	27
Shimizu	0	10	0	10	20	60	50	0	90	60	10	0	30	10
Nagasaki	0	4	0	4	26	41	67	26	78	41	7	15	37	27
Miyazaki	0	4	0	4	26	37	74	7	74	37	8	22	33	27
Kagoshima	0	4	0	4	22	41	81	7	81	41	18	11	30	27

~~CONFIDENTIAL~~

~~CONFIDENTIAL~~

TABLE 22.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHERLY FLOW IN THE FREE AIR, REGION 6 (cont.)

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

										Cloud cover, tenths				No.
	A	B	C	D	E	F	G	H	I	.0-.3	.4-.6	.7-.8	.9-1.0	of obs.
REGION 6							0600 L.S.T.							
Summer														
Sakai	8	33	0	33	67	25	8	0	25	33	0	9	58	12
Hamada	0	0	0	0	75	17	67	17	33	17	0	16	67	12
Okayama	0	33	0	33	42	33	17	0	58	33	0	9	58	12
Hiroshima	0	25	0	25	50	42	8	0	50	42	0	8	50	12
Izuhara	0	0	0	0	42	25	33	17	67	25	17	0	58	12
Tokushima	8	33	0	33	42	33	25	0	58	33	17	8	42	12
Shimonoseki	0	25	0	17	83	17	58	0	42	17	25	8	50	12
Matsuyama	0	25	0	25	75	17	42	0	25	17	8	0	75	12
Fukuoka	0	17	0	17	42	50	42	0	58	50	0	0	50	12
Kochi	8	25	0	25	42	50	8	0	58	50	0	0	50	12
Oita	0	25	0	25	42	42	25	0	58	42	8	0	50	12
Shimizu	0	0	0	0	0	100	0	0	100	100	0	0	0	1
Nagasaki	8	17	0	17	50	42	17	8	50	42	8	0	50	12
Miyazaki	0	33	0	33	42	25	17	8	58	25	0	0	75	12
Kagoshima	0	25	0	25	67	17	33	0	42	17	8	8	67	12
Autumn														
Sakai	4	25	0	23	73	14	12	4	31	15	10	14	61	52
Hamada	0	15	0	13	65	23	62	6	38	23	9	8	60	52
Okayama	2	15	0	15	48	42	8	0	58	42	10	6	42	52
Hiroshima	0	15	0	15	56	38	38	0	44	38	4	4	54	52
Izuhara	0	6	0	6	34	40	38	12	71	40	8	4	48	52
Tokushima	0	23	0	23	58	35	52	2	46	34	8	6	52	52
Shimonoseki	2	13	0	13	65	33	42	23	38	33	8	11	48	52
Matsuyama	0	15	0	14	60	36	38	0	44	36	12	8	44	52
Fukuoka	2	13	0	13	62	31	42	6	40	31	6	4	59	52
Kochi	0	15	0	15	33	44	58	2	69	44	12	4	40	52
Oita	0	12	0	12	40	36	48	6	62	37	4	15	44	52
Shimizu	0	19	0	19	36	55	23	0	68	55	6	0	39	31
Nagasaki	0	8	0	8	42	37	42	10	60	37	11	2	50	52
Miyazaki	0	12	0	12	40	48	42	4	60	48	4	4	44	52
Kagoshima	0	15	0	12	38	48	52	0	62	48	2	13	37	52

~~CONFIDENTIAL~~

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Summer														
Sakai	0	0	0	0	67	33	100	0	33	33	17	0	50	6
Hamada	0	0	0	0	33	17	83	17	83	17	17	0	66	6
Okayama	0	17	0	17	33	50	67	0	67	50	0	17	33	6
Hiroshima	0	17	0	17	50	50	33	0	50	50	0	0	50	6
Izuhara	0	17	0	17	33	33	50	0	67	33	17	0	50	6
Tokushima	–		–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	0	0	0	33	33	83	17	50	50	0	0	50	6
Matsuyama	0	0	0	0	17	17	83	0	83	17	17	0	66	6
Fukuoka	0	0	0	0	33	17	83	0	67	17	17	0	66	6
Kochi	0	0	0	0	50	17	33	0	50	17	0	0	83	6
Oita	0	17	0	17	17	17	50	0	83	17	0	33	50	6
Shimizu	0	0	0	0	0	100	100	0	100	100	0	0	0	1
Nagasaki	0	0	0	0	33	17	100	0	67	17	0	17	66	6
Miyazaki	0	0	0	0	33	33	83	17	67	33	0	17	50	6
Kagoshima	0	33	0	33	67	17	67	0	33	17	0	17	66	6
Autumn														
Sakai	0	19	0	19	72	22	59	3	34	22	9	16	53	32
Hamada	0	16	0	13	69	25	56	13	34	25	6	22	47	32
Okayama	0	6	0	3	41	50	50	0	66	50	6	10	34	32
Hiroshima	0	0	0	0	25	50	38	0	78	50	13	12	25	32
Izuhara	0	3	0	3	22	56	47	3	84	56	10	6	28	32
Tokushima	–	–	–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	6	0	6	66	28	84	9	38	28	13	28	31	32
Matsuyama	0	3	0	3	38	38	28	0	66	38	19	9	34	32
Fukuoka	0	3	0	3	44	34	53	3	59	34	9	16	41	32
Kochi	0	3	0	3	28	53	28	0	78	53	13	9	25	32
Oita	0	3	0	3	28	53	69	9	75	53	10	3	34	32
Shimizu	0	0	0	0	24	53	6	0	82	53	18	6	23	17
Nagasaki	0	0	0	0	38	34	75	6	72	34	10	3	53	32
Miyazaki	0	0	0	0	31	44	47	0	69	44	6	9	41	32
Kagoshima	0	0	0	0	22	53	63	0	81	53	6	10	31	32

~~CONFIDENTIAL~~

TABLE 23.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHEASTERLY FLOW IN THE FREE AIR, REGION 6

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							0600 L.S.T.							
Winter														
Sakai	2	40	0	40	89	7	20	6	13	7	4	6	83	157
Hamada	0	33	0	32	80	10	47	13	23	10	6	4	80	157
Okayama	1	13	0	13	54	32	17	2	50	32	7	5	56	157
Hiroshima	0	20	0	20	66	28	21	1	39	28	8	6	58	157
Izuhara	0	24	0	24	55	30	47	9	49	30	8	5	57	156
Tokushima	0	14	0	14	59	29	52	9	44	29	6	5	60	156
Shimonoseki	1	19	0	18	76	22	40	28	29	22	6	10	62	156
Matsuyama	1	13	0	13	58	25	34	2	45	25	8	5	62	157
Fukuoka	0	20	0	19	73	20	36	8	31	20	5	6	69	157
Kochi	1	9	0	8	30	47	53	6	76	47	12	6	35	157
Oita	1	13	0	12	53	31	54	8	52	31	8	5	56	156
Shimizu	0	24	0	22	54	41	15	4	46	43	9	7	41	46
Nagasaki	0	19	0	19	58	31	46	13	43	32	4	4	60	157
Miyazaki	0	13	0	13	41	45	52	5	59	45	2	5	48	157
Kagoshima	0	17	0	15	62	31	37	1	41	31	8	6	55	156
Spring														
Sakai	0	30	0	28	77	19	23	7	26	19	7	12	62	57
Hamada	0	30	0	30	65	23	40	25	35	23	4	5	68	57
Okayama	2	16	0	16	42	33	23	5	58	33	5	4	58	57
Hiroshima	0	12	2	12	58	33	23	0	46	33	5	9	53	57
Izuhara	0	14	0	14	57	29	38	21	45	28	2	7	63	56
Tokushima	4	18	2	18	56	33	40	7	44	33	9	4	54	57
Shimonoseki	2	25	0	25	70	26	42	25	37	26	7	14	53	57
Matsuyama	0	21	0	19	54	35	23	7	49	35	5	2	58	57
Fukuoka	2	21	0	21	54	18	46	7	47	18	9	3	70	57
Kochi	4	16	0	16	48	36	48	0	52	38	3	5	54	56
Oita	0	19	0	19	49	44	39	9	56	44	11	5	40	57
Shimizu	0	27	0	27	64	27	36	9	36	27	0	18	55	11
Nagasaki	0	16	0	16	58	28	35	25	42	28	5	5	62	57
Miyazaki	0	16	0	16	49	40	56	2	53	40	4	3	53	57
Kagoshima	2	11	0	11	53	26	51	0	47	26	7	11	56	57

~~CONFIDENTIAL~~

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Winter														
Sakai	0	34	0	32	86	12	36	5	17	12	5	9	74	137
Hamada	0	16	0	15	76	17	57	9	30	17	8	10	65	138
Okayama	0	12	0	12	52	33	47	0	54	33	10	9	48	138
Hiroshima	1	12	0	10	62	30	36	0	40	31	6	7	56	138
Izuhara	0	14	0	14	41	35	48	3	62	35	8	9	48	138
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	0	9	0	7	68	28	67	7	38	28	9	11	52	138
Matsuyama	0	12	0	12	49	36	33	2	56	36	11	2	51	138
Fukuoka	0	10	0	10	58	27	58	1	43	27	4	8	61	137
Kochi	0	12	0	12	30	48	43	2	70	48	2	9	41	138
Oita	0	12	0	11	47	39	55	8	53	40	4	5	51	137
Shimizu	0	21	0	21	49	37	30	0	56	37	7	0	56	43
Nagasaki	0	9	0	9	41	39	69	4	61	39	9	1	51	137
Miyazaki	0	12	1	12	49	38	32	1	51	38	1	6	55	138
Kagoshima	0	11	0	11	44	39	40	4	58	40	2	8	50	137
Spring														
Sakai	0	17	0	17	66	24	63	3	37	24	10	8	58	120
Hamada	1	15	0	15	51	25	57	15	50	25	7	3	65	120
Okayama	0	7	0	7	43	32	76	2	59	32	8	8	52	120
Hiroshima	0	8	0	8	49	32	59	2	54	32	12	9	47	120
Izuhara	0	12	0	12	47	17	51	13	55	18	8	3	71	120
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	0	8	0	8	49	30	82	3	54	30	8	12	50	119
Matsuyama	0	12	0	11	40	30	58	2	63	30	7	7	56	120
Fukuoka	0	13	0	12	47	27	71	14	56	27	6	5	62	119
Kochi	1	12	1	11	45	28	42	3	62	28	10	7	55	119
Oita	0	10	0	10	38	30	42	20	64	30	4	9	57	118
Shimizu	0	15	0	15	38	15	38	0	62	15	0	8	77	13
Nagasaki	0	11	0	11	32	38	69	18	71	38	6	3	53	119
Miyazaki	0	20	0	20	54	24	57	8	47	24	3	9	64	119
Kagoshima	0	14	0	14	39	29	63	1	64	29	9	7	55	119

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Summer														
Sakai	0	13	0	13	71	24	76	0	29	24	16	18	42	45
Hamada	0	2	0	2	56	27	91	4	49	27	7	22	44	45
Okayama	0	11	2	11	51	31	78	2	51	31	7	20	42	45
Hiroshima	0	2	2	2	38	41	70	0	62	41	7	14	38	44
Izuhara	0	0	0	0	38	32	50	7	60	32	5	9	54	44
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	0	0	0	0	36	44	89	7	71	44	18	13	25	45
Matsuyama	0	4	0	4	33	31	58	0	69	31	11	9	49	45
Fukuoka	0	2	2	2	22	42	84	11	78	42	5	9	44	45
Kochi	0	11	0	9	56	13	22	0	44	13	9	7	71	45
Oita	0	4	0	4	27	47	49	7	73	47	9	4	40	45
Shimizu	0	11	0	11	28	22	50	0	78	22	11	17	50	18
Nagasaki	0	0	0	0	22	47	87	9	78	47	4	13	36	45
Miyazaki	0	9	0	9	53	20	73	0	47	20	2	9	69	45
Kagoshima	0	0	0	0	44	29	84	0	60	29	11	22	38	45
Autumn														
Sakai	0	13	0	11	68	24	50	3	36	24	11	16	49	150
Hamada	0	8	0	8	50	26	62	5	52	26	9	11	54	151
Okayama	0	7	0	7	39	43	44	0	63	43	6	7	44	151
Hiroshima	0	6	0	6	36	44	44	0	66	44	8	11	37	149
Izuhara	1	5	0	5	40	32	62	6	68	32	14	7	47	151
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	0	4	0	3	42	48	80	3	64	48	11	11	30	151
Matsuyama	0	7	0	6	34	44	41	1	69	44	7	7	42	150
Fukuoka	0	5	0	5	32	45	70	13	71	45	12	7	36	150
Kochi	0	7	0	7	34	48	25	1	70	47	10	7	36	151
Oita	0	7	0	7	36	43	47	7	67	43	9	9	39	150
Shimizu	0	5	0	5	35	46	22	0	65	46	5	4	45	81
Nagasaki	0	5	0	5	22	49	77	3	81	49	8	8	35	149
Miyazaki	0	5	0	5	48	32	35	1	57	32	8	10	50	151
Kagoshima	0	6	0	6	35	42	46	2	66	42	7	12	39	151

[redacted]

TABLE 24.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHEASTERLY FLOW IN THE FREE AIR, REGION 6

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							0600 L.S.T.							
Winter														
Sakai	0	21	0	21	57	14	14	21	43	14	0	7	79	14
Hamada	0	29	0	29	64	14	50	7	36	14	0	7	79	14
Okayama	0	0	0	0	64	21	21	0	36	21	0	0	79	14
Hiroshima	7	21	0	21	57	29	29	0	43	29	0	0	71	14
Izuhara	0	50	0	50	71	14	7	14	29	14	0	0	86	14
Tokushima	0	7	0	7	64	7	50	0	29	14	0	7	79	14
Shimonoseki	7	36	0	36	71	21	36	14	36	22	7	7	64	14
Matsuyama	0	29	0	29	57	36	7	0	43	36	7	0	57	14
Fukuoka	0	57	0	57	64	21	0	0	36	22	7	0	71	14
Kochi	0	21	0	21	43	21	43	0	57	22	14	7	57	14
Oita	0	54	0	54	69	8	31	0	46	8	15	0	77	13
Shimizu	0	25	0	25	50	25	0	0	50	25	0	0	75	4
Nagasaki	0	50	0	50	71	21	14	14	29	21	0	0	79	14
Miyazaki	0	43	0	43	71	14	29	0	29	14	0	0	86	14
Kagoshima	7	36	0	36	71	21	36	0	29	21	0	0	79	14
Spring														
Sakai	0	36	0	36	73	0	27	0	36	0	9	0	91	11
Hamada	0	27	0	27	55	18	36	9	45	18	0	0	82	11
Okayama	0	27	0	27	45	18	9	0	55	18	0	0	82	11
Hiroshima	0	27	0	27	45	9	18	0	55	9	0	0	91	11
Izuhara	0	45	0	45	82	0	55	0	18	0	0	0	100	11
Tokushima	0	18	0	18	64	18	27	9	36	18	9	0	73	11
Shimonoseki	0	36	0	36	73	0	9	45	18	0	0	27	73	11
Matsuyama	0	36	0	36	64	9	9	9	36	9	9	0	82	11
Fukuoka	9	45	0	45	82	0	27	18	18	0	0	9	91	11
Kochi	0	27	0	27	55	18	27	0	45	18	0	0	82	11
Oita	0	27	0	27	64	0	36	0	36	0	0	9	91	11
Shimizu	0	0	0	0	100	0	0	0	0	0	0	0	100	1
Nagasaki	0	45	0	45	55	9	18	18	45	9	0	0	91	11
Miyazaki	0	27	0	27	82	0	45	0	18	0	0	0	100	11
Kagoshima	0	45	0	45	73	0	36	18	27	0	0	9	91	11

[redacted]

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Winter														
Sakai	0	13	0	13	56	25	38	0	44	25	6	0	69	16
Hamada	0	25	0	25	56	13	63	0	44	13	6	0	81	16
Okayama	0	13	0	13	44	6	25	0	56	6	0	6	88	16
Hiroshima	0	25	0	25	81	0	6	0	19	0	13	0	87	16
Izuhara	0	38	0	38	63	6	19	0	38	6	0	0	94	16
Tokushima	-	-	-	-	-	-NO DATA-			-	-	-	-	-	-
Shimonoseki	0	19	0	19	88	13	44	38	19	13	6	0	81	16
Matsuyama	0	19	0	19	50	0	25	0	50	0	19	0	81	16
Fukuoka	0	25	0	25	75	6	38	0	25	6	0	0	94	16
Kochi	0	31	0	31	56	13	19	0	44	13	0	0	87	16
Oita	0	31	0	31	69	6	0	0	31	6	0	0	94	16
Shimizu	0	60	0	60	100	0	20	0	0	0	0	0	100	5
Nagasaki	0	50	0	44	75	13	25	0	25	13	0	12	75	16
Miyazaki	0	31	0	31	88	6	13	0	13	6	0	0	94	16
Kagoshima	0	38	0	38	88	6	19	0	13	6	6	7	81	16
Spring														
Sakai	0	23	0	23	58	13	48	3	42	13	10	0	77	31
Hamada	0	29	0	29	52	10	42	0	48	10	0	3	87	31
Okayama	0	26	0	26	52	13	45	3	52	13	3	7	77	31
Hiroshima	0	26	0	26	61	10	32	0	39	10	3	13	74	31
Izuhara	0	42	0	42	58	6	42	0	42	7	3	0	90	31
Tokushima	-	-	-	-	-	-NO DATA-			-	-	-	-	-	-
Shimonoseki	0	35	0	35	71	16	39	26	29	16	0	3	81	31
Matsuyama	0	30	0	30	70	3	30	0	30	3	0	4	93	30
Fukuoka	0	39	0	39	84	3	45	0	19	3	7	3	87	31
Kochi	0	35	0	35	65	3	13	0	35	3	0	3	94	31
Oita	0	42	0	42	65	6	19	0	35	7	0	3	90	31
Shimizu	0	67	0	67	100	0	3	0	0	0	0	0	100	3
Nagasaki	0	45	0	45	55	10	29	3	42	10	0	0	90	31
Miyazaki	0	65	0	65	90	3	26	0	16	3	7	0	90	31
Kagoshima	0	45	0	45	74	0	29	6	26	0	0	6	94	31

CONFIDENTIAL

CONFIDENTIAL

TABLE 24.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHEASTERLY FLOW IN THE FREE AIR, REGION 6 (cont.)

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							0600 L.S.T.							
Summer														
Sakai	0	18	0	18	55	27	18	9	55	27	18	9	46	11
Hamada	0	9	0	9	45	9	91	0	64	9	18	9	64	11
Okayama	0	0	0	0	45	27	18	9	55	27	9	9	55	11
Hiroshima	0	9	0	9	55	27	64	0	45	27	9	0	64	11
Izuhara	0	9	0	9	64	9	36	9	36	9	0	9	82	11
Tokushima	0	27	0	27	64	18	18	0	36	18	9	0	73	11
Shimonoseki	0	9	0	9	64	18	27	45	36	18	9	18	55	11
Matsuyama	0	18	0	18	55	27	9	9	46	27	0	9	64	11
Fukuoka	0	18	0	18	36	36	18	0	64	36	0	0	64	11
Kochi	0	18	0	18	73	18	9	9	36	18	9	9	64	11
Oita	9	18	0	18	73	18	27	0	18	27	0	0	73	11
Shimizu	0	0	0	0	33	67	0	0	67	67	0	0	33	3
Nagasaki	0	9	0	9	46	9	55	9	55	9	9	18	64	11
Miyazaki	0	18	0	18	73	18	36	9	46	18	18	0	64	11
Kagoshima	0	18	0	18	82	9	55	9	18	9	18	0	73	11
Autumn														
Sakai	0	14	0	14	57	0	14	0	43	0	14	0	86	7
Hamada	0	14	0	14	14	0	71	0	86	0	14	0	86	7
Okayama	0	14	0	14	43	14	14	0	57	14	14	29	43	7
Hiroshima	0	14	0	14	71	14	0	0	29	14	0	14	72	7
Izuhara	0	14	0	14	71	0	43	14	29	0	0	0	100	7
Tokushima	14	0	0	0	100	0	43	0	0	0	0	0	100	7
Shimonoseki	0	14	0	14	71	14	71	0	29	14	0	14	72	7
Matsuyama	0	14	0	14	29	14	14	0	71	14	0	14	72	7
Fukuoka	0	14	0	14	43	14	14	0	57	14	14	0	72	7
Kochi	0	14	0	14	57	43	14	0	43	43	0	0	57	7
Oita	0	14	0	14	43	14	43	0	57	14	14	0	72	7
Shimizu	0	20	0	20	40	20	40	0	60	20	0	0	80	5
Nagasaki	0	14	0	14	29	29	29	14	71	29	0	0	71	7
Miyazaki	0	14	0	14	43	14	0	0	57	14	14	0	72	7
Kagoshima	0	29	0	29	43	14	14	0	57	14	0	29	57	7

CONFIDENTIAL

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							1800 L.S.T.							
Summer														
Sakai	0	7	0	7	49	26	66	3	56	26	10	15	49	68
Hamada	0	12	1	12	50	10	51	0	54	10	16	11	63	68
Okayama	0	12	0	12	37	26	78	6	66	26	15	12	47	68
Hiroshima	0	18	0	16	56	22	41	0	46	22	6	3	69	68
Izuhara	0	16	0	16	49	16	46	6	54	16	9	7	68	68
Tokushima	–	–	–	–	–	–NO DATA–			–	–	–	–	–	–
Shimonoseki	0	15	0	15	54	29	37	47	49	29	7	18	46	68
Matsuyama	0	22	0	22	47	16	40	3	57	16	9	3	72	68
Fukuoka	0	18	3	18	58	15	64	1	42	15	3	7	75	67
Kochi	0	22	0	22	76	7	24	0	28	7	5	12	72	67
Oita	0	24	0	24	55	19	57	3	49	19	6	3	72	67
Shimizu	0	30	0	30	74	17	52	4	26	17	0	5	78	23
Nagasaki	0	21	0	21	51	21	56	10	50	21	3	4	72	68
Miyazaki	0	35	0	35	75	6	54	6	26	6	5	7	82	68
Kagoshima	0	25	0	25	69	7	50	6	32	7	6	18	69	68
Autumn														
Sakai	0	14	0	14	67	22	31	3	36	22	8	17	53	36
Hamada	0	19	0	19	58	17	47	0	42	17	0	3	80	36
Okayama	0	28	0	28	58	17	25	0	42	17	3	5	75	36
Hiroshima	0	25	0	25	72	14	6	0	28	14	0	11	75	36
Izuhara	0	25	0	25	64	14	28	6	36	14	3	3	80	36
Tokushima	–	–	–	–	–	–NO DATA–			–	–	–	–	–	–
Shimonoseki	0	25	0	22	81	11	39	31	19	11	8	14	67	36
Matsuyama	0	14	0	14	58	17	14	0	42	17	0	5	78	36
Fukuoka	0	17	0	17	67	17	28	0	33	17	3	5	75	36
Kochi	0	28	0	28	78	8	17	0	25	8	6	3	83	36
Oita	0	33	0	31	67	8	11	0	33	8	8	3	81	36
Shimizu	0	33	0	33	67	7	20	0	33	7	0	13	80	15
Nagasaki	0	31	0	31	64	14	50	3	36	14	0	8	78	36
Miyazaki	0	47	0	47	81	8	31	3	17	8	3	3	86	36
Kagoshima	0	39	3	39	61	11	42	6	42	11	14	6	69	36

CONFIDENTIAL

CONFIDENTIAL

TABLE 25.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHWESTERLY FLOW IN THE FREE AIR, REGION 6

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							0600 L.S.T.							
Winter														
Sakai	0	0	0	0	57	29	14	0	43	29	0	14	57	14
Hamada	0	7	0	7	64	29	79	7	36	29	0	7	64	14
Okayama	0	0	0	0	29	57	7	0	71	57	0	14	29	14
Hiroshima	0	0	0	0	36	50	29	0	64	50	7	0	43	14
Izuhara	0	0	0	0	57	36	21	0	50	36	7	0	57	14
Tokushima	7	0	0	0	21	79	57	7	79	79	0	0	21	14
Shimonoseki	0	7	0	7	79	21	64	21	36	22	14	7	57	14
Matsuyama	0	8	0	8	39	31	31	0	62	31	0	8	61	13
Fukuoka	0	7	0	7	57	36	64	0	43	36	0	7	57	14
Kochi	0	0	0	0	7	79	57	0	93	79	0	0	21	14
Oita	0	14	0	14	36	36	64	0	64	36	14	0	50	14
Shimizu	0	33	0	33	67	33	67	0	33	33	0	0	67	3
Nagasaki	0	14	0	14	43	29	36	14	64	29	14	14	43	14
Miyazaki	0	14	0	14	43	43	36	0	57	43	0	0	57	14
Kagoshima	0	0	0	0	57	43	57	7	43	43	0	7	50	14
Spring														
Sakai	5	9	0	9	46	30	17	2	55	31	3	11	55	121
Hamada	0	9	0	9	31	36	70	5	69	35	6	4	55	121
Okayama	1	10	0	10	26	40	16	0	74	40	5	3	52	121
Hiroshima	0	9	0	9	36	37	33	0	69	37	10	7	46	121
Izuhara	0	10	0	10	44	24	32	7	60	24	7	5	64	121
Tokushima	2	13	0	13	37	32	41	2	63	33	7	2	58	121
Shimonoseki	5	7	0	7	54	32	54	25	47	34	6	9	51	121
Matsuyama	1	12	0	12	33	33	16	0	65	34	4	5	57	121
Fukuoka	1	10	0	10	36	35	30	0	65	35	8	6	51	121
Kochi	0	13	0	13	28	37	54	0	71	37	4	3	56	121
Oita	0	16	0	15	30	38	53	2	71	38	4	2	56	121
Shimizu	0	19	0	19	42	29	23	3	58	29	0	3	68	31
Nagasaki	0	11	0	11	29	34	49	5	74	34	6	5	55	121
Miyazaki	2	17	0	16	50	33	33	1	49	26	2	5	67	120
Kagoshima	0	12	0	12	40	26	45	0	61	26	8	9	57	121

CONFIDENTIAL

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Winter														
Sakai	0	27	0	27	87	7	13	7	13	7	0	7	86	15
Hamada	0	47	0	47	87	7	13	20	13	7	7	0	86	15
Okayama	0	27	0	27	60	7	13	0	40	7	7	13	73	15
Hiroshima	0	33	0	33	93	0	7	0	7	0	0	0	100	15
Izuhara	0	40	0	40	87	0	7	20	20	0	13	0	87	15
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	0	40	0	40	87	7	40	13	7	7	0	0	93	15
Matsuyama	0	33	0	33	80	7	27	0	27	7	7	0	86	15
Fukuoka	0	33	0	33	87	0	53	0	13	0	7	7	86	15
Kochi	0	40	0	40	60	27	0	0	40	27	0	7	66	15
Oita	0	33	0	33	73	7	13	0	33	7	7	13	73	15
Shimizu	0	0	0	0	0	100	0	0	100	100	0	0	0	2
Nagasaki	7	20	0	20	87	0	40	27	13	0	7	7	86	15
Miyazaki	0	40	0	40	67	20	27	0	33	20	7	7	66	15
Kagoshima	0	33	0	33	67	13	27	0	33	13	0	14	73	15
Spring														
Sakai	0	18	0	18	45	23	43	11	55	23	5	13	59	56
Hamada	0	7	2	7	42	16	38	31	60	16	9	4	71	55
Okayama	0	7	0	7	34	23	75	0	68	23	7	13	57	56
Hiroshima	0	16	0	15	42	25	44	0	58	25	4	7	64	55
Izuhara	0	23	0	23	54	16	41	27	46	16	4	3	77	56
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	0	11	0	11	56	20	49	29	44	20	16	15	49	55
Matsuyama	0	9	0	9	46	20	48	2	55	20	5	2	73	56
Fukuoka	0	13	0	13	45	24	62	7	55	24	5	7	64	55
Kochi	0	13	0	13	54	13	15	0	52	13	8	12	67	52
Oita	0	7	0	7	33	29	53	11	67	29	4	4	63	55
Shimizu	0	22	0	22	56	11	67	0	44	11	11	0	78	9
Nagasaki	0	15	0	15	38	15	55	22	64	15	11	5	69	55
Miyazaki	0	7	4	7	45	30	64	13	59	30	7	0	63	56
Kagoshima	0	11	0	11	44	24	58	0	58	24	7	2	67	55

CONFIDENTIAL

~~CONFIDENTIAL~~

TABLE 25.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHWESTERLY FLOW IN THE FREE AIR, REGION 6 (cont.)

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							0600 L.S.T.							
Summer														
Sakai	0	13	0	13	50	32	16	0	52	32	8	12	48	183
Hamada	0	12	1	12	38	30	54	5	62	30	5	5	60	182
Okayama	2	9	1	9	51	26	13	2	51	26	8	11	55	184
Hiroshima	1	13	1	13	56	26	17	0	47	26	10	7	57	181
Izuhara	1	15	0	15	55	20	25	3	46	19	3	5	73	184
Tokushima	3	13	0	13	45	24	24	3	54	24	5	12	59	182
Shimonoseki	1	11	1	11	62	25	43	19	41	25	11	14	50	183
Matsuyama	1	87	0	87	44	28	19	0	58	28	9	4	59	184
Fukuoka	1	15	0	15	44	26	30	1	54	26	5	9	60	183
Kochi	3	12	0	12	37	28	13	0	63	29	7	10	54	183
Oita	6	16	0	16	50	26	21	1	50	27	7	7	59	183
Shimizu	0	16	0	16	61	16	29	3	40	16	7	8	69	62
Nagasaki	1	12	0	12	49	24	36	10	54	24	7	5	64	183
Miyazaki	1	15	1	15	51	24	24	1	50	24	5	9	62	183
Kagoshima	1	13	1	13	52	24	31	2	50	24	7	10	59	181
Autumn														
Sakai	8	7	0	7	49	32	10	0	50	33	5	13	49	72
Hamada	0	6	0	6	34	38	86	1	69	38	8	10	44	71
Okayama	3	10	0	10	36	45	4	0	66	45	7	5	43	73
Hiroshima	0	6	0	6	39	43	50	0	65	43	10	5	42	72
Izuhara	0	10	1	10	37	22	34	0	60	26	11	10	53	73
Tokushima	1	14	0	12	48	37	52	1	51	40	7	3	50	73
Shimonoseki	3	11	0	11	51	32	59	10	52	37	18	9	36	73
Matsuyama	0	8	0	8	34	43	30	•	66	44	8	7	41	73
Fukuoka	0	8	1	8	34	37	30	•	66	37	9	7	47	73
Kochi	0	12	0	12	32	47	62	0	67	47	9	7	37	73
Oita	0	10	0	10	42	36	41	0	60	36	5	7	52	73
Shimizu	0	21	0	21	40	44	12	•	60	44	2	8	46	48
Nagasaki	0	7	1	7	29	40	47	7	73	40	5	4	51	73
Miyazaki	0	15	0	15	53	36	36	0	49	36	4	7	53	72
Kagoshima	0	11	0	11	49	33	55	3	56	33	12	1	54	73

~~CONFIDENTIAL~~

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Summer														
Sakai	0	17	0	17	61	16	52	2	40	16	7	10	67	131
Hamada	0	15	0	14	50	18	49	15	50	17	6	5	72	131
Okayama	0	15	1	15	41	19	73	5	61	19	8	13	60	131
Hiroshima	0	23	0	23	56	16	44	0	45	16	8	5	71	130
Izuhara	0	25	0	25	59	13	50	10	44	13	5	7	75	131
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	1	16	1	15	67	17	66	15	36	17	10	17	56	131
Matsuyama	0	15	1	15	37	14	46	2	65	14	10	9	67	131
Fukuoka	0	21	1	20	56	13	59	5	45	14	5	12	69	130
Kochi	0	19	2	18	67	9	20	0	38	9	7	10	74	128
Oita	0	17	1	17	54	18	44	3	50	18	9	6	67	131
Shimizu	0	14	0	14	59	3	41	3	41	4	10	17	69	29
Nagasaki	1	17	1	17	52	18	60	23	51	17	7	5	71	130
Miyazaki	0	12	2	12	45	15	72	6	57	15	6	13	66	130
Kagoshima	0	12	2	12	57	15	64	0	46	15	7	18	60	130
Autumn														
Sakai	0	23	0	23	54	15	38	0	54	15	15	8	62	13
Hamada	0	8	0	8	62	15	31	8	38	15	8	0	77	13
Okayama	0	15	0	15	46	31	38	0	54	31	15	0	54	13
Hiroshima	0	15	0	15	69	15	8	0	31	15	0	16	69	13
Izuhara	0	23	0	23	69	8	46	23	31	8	0	8	84	13
Tokushima	-	-	-	-	-	-	NO DATA		-	-	-	-	-	-
Shimonoseki	0	31	0	31	77	23	38	23	23	23	0	0	77	13
Matsuyama	0	15	0	15	46	15	31	0	54	15	8	15	62	13
Fukuoka	0	15	8	15	77	23	77	0	23	23	0	0	77	13
Kochi	0	15	0	15	85	8	8	0	15	8	0	7	85	13
Oita	0	8	0	8	46	23	46	0	54	23	0	0	77	13
Shimizu	0	13	0	13	50	15	10	0	50	25	25	13	37	8
Nagasaki	0	38	0	38	62	13	15	31	46	8	8	7	77	13
Miyazaki	0	15	0	15	38	15	62	0	54	23	8	8	61	13
Kagoshima	0	23	0	15	62	15	31	0	46	15	8	8	69	13

CONFIDENTIAL

CONFIDENTIAL

TABLE 26.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHWESTERLY FLOW IN THE FREE AIR, REGION 6

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							0600 L.S.T.							
Winter														
Sakai	0	31	0	29	80	13	16	4	24	13	5	18	64	45
Hamada	0	9	0	9	80	13	53	31	22	13	7	9	71	45
Okayama	0	2	0	2	27	53	22	0	76	53	9	2	36	45
Hiroshima	0	13	0	11	64	31	29	0	40	31	4	9	56	45
Izuhara	0	4	0	4	42	47	53	20	58	47	2	4	47	45
Tokushima	0	2	0	2	36	52	50	9	64	55	2	2	41	44
Shimonoseki	0	16	0	16	78	20	38	38	29	20	9	11	60	45
Matsuyama	0	9	0	9	51	31	42	4	56	31	11	2	56	45
Fukuoka	0	16	0	16	78	20	62	9	31	20	11	2	67	45
Kochi	0	4	0	4	22	53	51	0	78	53	0	14	33	45
Oita	0	11	0	11	33	53	67	2	67	54	2	2	42	45
Shimizu	0	13	0	13	47	53	27	0	53	53	0	7	40	15
Nagasaki	0	16	0	16	62	33	38	13	38	33	2	5	60	45
Miyazaki	0	7	0	7	24	67	67	0	76	67	2	0	31	45
Kagoshima	0	13	0	7	51	36	58	2	49	38	11	9	42	45
Spring														
Sakai	2	12	0	12	51	28	15	2	49	29	12	17	42	65
Hamada	0	9	2	9	42	31	58	20	62	31	5	12	52	65
Okayama	2	5	0	3	31	40	11	0	71	40	6	3	51	65
Hiroshima	0	6	0	6	31	45	38	0	69	45	3	12	40	65
Izuhara	0	2	0	2	22	38	55	9	80	38	8	3	51	65
Tokushima	5	8	0	8	29	42	54	3	69	41	3	8	48	65
Shimonoseki	0	3	0	3	54	28	54	20	55	28	21	11	40	65
Matsuyama	0	2	2	2	35	23	31	3	66	23	2	18	57	65
Fukuoka	2	2	0	2	31	31	56	3	69	31	8	5	56	64
Kochi	0	5	0	5	25	35	42	0	78	35	11	6	48	65
Oita	0	3	0	3	18	32	57	3	82	32	6	3	59	65
Shimizu	0	8	0	8	17	42	17	0	83	42	0	16	42	12
Nagasaki	0	5	0	5	31	25	43	8	71	25	4	11	60	65
Miyazaki	0	8	0	8	38	29	45	6	60	29	5	9	57	65
Kagoshima	0	6	0	6	33	31	50	2	67	33	6	9	52	64

CONFIDENTIAL

[redacted]

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Winter														
Sakai	0	51	0	51	97	3	19	19	8	3	5	8	85	75
Hamada	0	27	0	27	96	4	30	42	12	4	9	7	80	74
Okayama	0	5	0	5	35	61	69	11	72	61	9	3	27	75
Hiroshima	0	15	0	11	51	45	39	1	51	48	4	11	37	75
Izuhara	0	7	0	7	45	43	64	15	57	43	5	7	45	75
Tokushima	–	–	–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	12	0	11	89	11	32	56	21	11	15	9	65	75
Matsuyama	0	12	0	12	68	28	56	19	45	29	21	10	40	75
Fukuoka	0	21	0	21	80	13	45	15	21	15	4	15	66	75
Kochi	0	5	0	5	23	69	56	1	81	69	8	2	21	75
Oita	0	9	0	9	48	47	59	25	60	46	12	7	35	75
Shimizu	0	8	0	8	16	68	56	0	88	68	4	4	24	25
Nagasaki	0	19	0	17	75	20	44	33	25	20	1	4	75	75
Miyazaki	0	3	0	1	20	64	64	21	80	64	2	5	29	75
Kagoshima	0	12	0	7	55	36	57	11	49	36	7	9	48	75
Spring														
Sakai	0	33	0	33	69	24	43	7	31	26	7	7	60	42
Hamada	0	10	0	10	67	24	38	43	36	24	5	9	62	42
Okayama	0	5	0	5	45	36	83	10	64	36	16	12	36	42
Hiroshima	0	10	0	10	45	36	67	2	57	36	7	12	45	42
Izuhara	0	7	0	7	19	60	45	29	81	59	5	0	36	42
Tokushima	–	–	–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	7	0	7	55	36	50	43	52	38	17	14	31	42
Matsuyama	0	2	2	2	48	38	67	12	52	38	7	5	50	42
Fukuoka	0	7	0	7	33	50	76	14	71	50	5	9	36	42
Kochi	0	7	0	7	26	60	60	0	79	60	12	0	28	42
Oita	0	2	0	2	27	57	66	24	80	59	12	7	22	41
Shimizu	0	0	0	0	8	83	75	8	92	83	0	0	17	12
Nagasaki	0	5	0	5	40	40	40	52	62	41	12	14	33	42
Miyazaki	0	0	0	0	14	62	62	36	88	62	17	9	12	42
Kagoshima	0	2	0	0	33	45	86	10	74	45	12	19	24	42

[redacted]

CONFIDENTIAL

TABLE 26.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHWESTERLY FLOW IN THE FREE AIR, REGION 6 (cont.)

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover; tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							0600 L.S.T.							
Summer														
Sakai	0	5	0	5	55	27	14	5	45	27	5	23	45	22
Hamada	0	14	0	14	50	23	45	27	50	23	14	4	59	22
Okayama	0	18	0	18	32	27	5	0	68	27	18	14	41	22
Hiroshima	0	5	0	5	41	23	23	0	59	23	4	9	64	22
Izuhara	0	9	0	9	45	23	41	18	59	23	9	4	64	22
Tokushima	5	24	5	19	43	33	5	0	52	38	5	9	48	21
Shimonoseki	0	14	5	14	68	18	59	14	41	18	23	14	45	22
Matsuyama	0	18	0	18	36	36	1	0	64	36	0	5	59	22
Fukuoka	0	9	5	9	45	27	45	0	55	27	0	5	68	22
Kochi	0	23	0	23	32	23	14	0	68	23	9	9	59	22
Oita	5	14	0	9	27	27	32	0	68	32	0	9	59	22
Shimizu	0	0	0	0	0	50	0	0	100	50	0	0	50	2
Nagasaki	0	27	5	27	59	14	32	14	45	14	9	9	68	22
Miyazaki	0	5	0	5	32	27	41	0	68	27	0	18	55	22
Kagoshima	0	14	0	14	41	32	9	0	59	32	9	0	59	22
Autumn														
Sakai	2	20	0	20	75	19	24	3	29	20	14	10	56	59
Hamada	0	19	0	19	76	14	58	19	29	13	9	10	68	59
Okayama	2	7	0	7	36	46	9	0	66	46	3	10	41	59
Hiroshima	0	7	0	7	59	32	29	0	49	32	12	8	48	59
Izuhara	0	3	0	3	37	34	56	10	68	34	10	8	48	59
Tokushima	0	5	0	5	56	34	63	3	46	34	5	5	56	59
Shimonoseki	0	19	0	19	81	17	46	25	24	17	9	13	61	59
Matsuyama	0	8	0	8	64	20	46	2	41	20	14	10	56	59
Fukuoka	0	10	0	10	59	28	53	9	43	28	10	7	55	58
Kochi	0	7	0	5	27	39	39	0	75	41	10	7	42	59
Oita	0	5	0	5	42	32	63	3	59	32	3	12	53	59
Shimizu	0	3	0	3	35	50	26	0	65	50	3	12	35	34
Nagasaki	0	14	0	12	49	31	41	14	51	31	3	10	56	59
Miyazaki	0	7	0	7	34	42	53	2	66	42	7	3	48	59
Kagoshima	0	8	0	7	41	37	53	2	58	39	3	7	51	59

CONFIDENTIAL

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							1800 L.S.T.							
Summer														
Sakai	0	13	0	13	56	31	69	6	44	31	0	19	50	16
Hamada	0	0	0	0	31	44	69	25	69	44	12	0	44	16
Okayama	0	6	0	6	50	31	81	6	56	31	19	0	50	16
Hiroshima	0	0	0	0	63	31	50	0	44	31	6	7	56	16
Izuhara	0	0	0	0	19	38	69	0	81	38	6	0	56	16
Tokushima	–	–	–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	0	0	0	25	44	69	31	81	44	25	19	12	16
Matsuyama	0	0	0	0	38	38	75	6	63	38	0	12	50	16
Fukuoka	0	13	0	13	31	38	88	0	69	38	19	12	31	16
Kochi	0	13	0	6	31	44	25	0	75	44	19	6	31	16
Oita	0	0	0	0	56	25	38	6	56	25	13	6	56	16
Shimizu	–	–	–	–	NO DATA		–	–	–	36	18	0	46	11
Nagasaki	0	6	0	6	19	56	81	6	81	56	0	6	38	16
Miyazaki	0	6	0	6	25	38	69	13	75	37	0	0	63	16
Kagoshima	0	13	0	13	25	25	69	6	75	25	19	12	44	16
Autumn														
Sakai	0	27	0	23	77	20	48	0	30	20	7	14	59	44
Hamada	0	11	0	11	73	18	47	33	33	18	15	9	58	45
Okayama	0	2	0	2	38	53	69	0	67	53	11	14	22	45
Hiroshima	0	4	0	2	42	53	44	0	69	53	13	5	29	45
Izuhara	0	2	0	2	42	29	44	16	49	40	9	15	36	45
Tokushima	–	–	–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	7	0	7	78	22	49	44	36	22	18	18	42	45
Matsuyama	0	7	0	4	60	29	73	9	51	31	24	18	27	45
Fukuoka	0	11	0	11	64	29	58	2	40	29	9	4	58	45
Kochi	0	4	0	4	18	67	47	0	89	67	13	4	16	45
Oita	0	7	0	7	33	58	67	9	69	58	11	7	24	45
Shimizu	0	0	0	0	19	71	32	0	84	71	13	3	13	31
Nagasaki	0	9	0	9	64	29	67	18	40	29	9	11	51	45
Miyazaki	0	7	0	7	9	69	76	9	91	69	7	6	18	45
Kagoshima	0	7	0	7	34	59	52	2	68	59	7	11	23	44

CONFIDENTIAL

~~CONFIDENTIAL~~

TABLE 27.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH RIDGES AND CENTERS OF HIGH PRESSURE, REGION 6

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							0600 L.S.T.							
Winter														
Sakai	0	18	0	18	78	18	30	4	24	18	4	7	71	80
Hamada	0	11	0	10	63	30	71	13	38	30	4	9	57	79
Okayama	1	5	0	5	34	46	10	0	68	46	4	10	40	80
Hiroshima	0	9	0	8	51	43	28	0	51	42	4	9	45	80
Izuhara	0	5	0	5	29	48	50	1	74	48	6	6	40	80
Tokushima	0	4	0	4	49	33	75	3	54	32	9	10	49	80
Shimonoseki	0	4	0	4	58	41	65	18	46	41	11	4	44	80
Matsuyama	0	5	0	5	34	44	33	0	73	44	6	6	44	80
Fukuoka	0	4	0	4	61	33	55	1	39	32	8	6	54	80
Kochi	0	5	0	5	18	66	50	1	86	66	5	3	26	80
Oita	0	5	0	5	39	40	58	5	63	40	6	5	49	80
Shimizu	0	11	0	7	25	57	21	0	75	61	4	3	32	28
Nagasaki	0	8	0	8	35	45	45	4	65	46	5	1	48	80
Miyazaki	1	10	0	10	39	52	47	0	60	53	1	4	42	79
Kagoshima	0	10	0	9	45	46	60	0	56	46	6	3	45	78
Spring														
Sakai	4	21	0	21	70	14	36	4	31	14	2	10	74	80
Hamada	0	19	0	19	51	21	63	5	51	21	5	6	68	78
Okayama	1	11	0	10	44	38	19	0	63	38	10	5	47	80
Hiroshima	0	13	0	13	47	43	30	0	54	43	5	1	51	79
Izuhara	0	20	0	20	44	26	35	3	59	26	9	6	59	80
Tokushima	4	15	0	15	53	22	52	9	46	23	5	5	67	79
Shimonoseki	0	18	0	18	56	37	48	16	51	37	5	6	52	79
Matsuyama	1	15	0	15	36	39	24	0	64	39	1	8	52	80
Fukuoka	0	19	0	19	44	38	32	4	56	38	4	8	50	78
Kochi	0	16	0	16	32	39	41	1	68	39	3	5	53	79
Oita	3	19	0	19	39	35	52	4	58	37	2	3	58	79
Shimizu	0	8	0	8	15	62	38	0	85	62	23	0	15	13
Nagasaki	0	16	0	16	34	38	42	11	66	38	5	1	56	79
Miyazaki	0	18	0	16	46	33	44	3	53	33	1	4	62	80
Kagoshima	1	15	1	15	44	32	48	3	54	32	1	11	56	79

~~CONFIDENTIAL~~

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 6							1800 L.S.T.							
Winter														
Sakai	0	7	0	7	63	29	24	2	44	29	10	15	46	59
Hamada	0	10	0	10	59	29	63	10	49	29	17	12	42	59
Okayama	0	2	0	2	22	64	44	0	80	64	3	9	24	59
Hiroshima	0	0	0	0	40	50	24	0	62	52	5	9	34	58
Izuhara	0	5	0	3	32	39	29	5	71	39	5	10	46	59
Tokushima	–	–	–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	5	0	5	41	54	75	10	61	54	7	7	32	59
Matsuyama	0	3	0	3	25	61	31	2	75	61	5	7	27	59
Fukuoka	0	5	0	5	41	41	46	2	61	42	12	9	37	59
Kochi	0	3	0	3	10	75	25	0	93	74	7	2	17	59
Oita	0	2	0	2	19	66	41	0	83	66	3	5	26	59
Shimizu	0	0	0	0	22	72	22	0	83	72	11	0	17	18
Nagasaki	0	3	0	3	36	41	67	3	66	41	4	7	48	58
Miyazaki	0	0	0	0	34	58	42	0	68	58	3	2	37	59
Kagoshima	0	0	0	0	29	56	44	0	71	56	2	5	37	59
Spring														
Sakai	0	0	0	0	19	57	63	4	84	57	15	8	20	74
Hamada	0	3	0	1	14	54	58	8	85	54	11	4	31	74
Okayama	0	3	0	1	19	50	84	0	86	50	8	11	31	74
Hiroshima	0	0	0	0	16	53	46	0	85	54	5	11	30	74
Izuhara	0	0	0	0	10	52	51	3	92	52	5	3	40	73
Tokushima	–	–	–	–	–	–	NO DATA		–	–	–	–	–	–
Shimonoseki	0	3	0	3	20	49	72	16	81	49	12	11	28	74
Matsuyama	0	3	0	3	15	51	41	0	85	53	4	9	34	74
Fukuoka	0	3	0	3	8	45	81	1	91	46	3	5	46	74
Kochi	0	4	1	4	27	45	21	0	74	48	8	3	41	73
Oita	0	3	0	3	15	50	41	3	85	50	8	4	38	74
Shimizu	0	14	0	14	19	38	57	0	81	38	19	5	38	21
Nagasaki	0	4	0	4	12	41	78	4	86	40	3	7	50	74
Miyazaki	0	11	0	11	27	36	72	3	74	37	4	1	58	74
Kagoshima	0	8	0	8	20	34	70	5	81	34	7	9	50	74

CONFIDENTIAL

~~CONFIDENTIAL~~

TABLE 27.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH RIDGES AND CENTERS OF HIGH PRESSURE, REGION 6 (cont.)

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							0600 L.S.T.							
Summer														
Sakai	0	15	0	15	63	21	19	4	41	22	11	11	56	80
Hamada	0	15	0	15	44	24	60	8	56	24	6	3	67	80
Okayama	2	16	0	15	44	27	16	1	57	27	6	5	62	81
Hiroshima	1	14	0	14	61	23	19	0	44	23	13	6	58	80
Izuhara	0	20	1	20	61	14	27	7	40	14	2	4	80	81
Tokushima	6	19	0	19	54	21	33	1	43	21	2	4	73	81
Shimonoseki	0	15	0	14	70	22	52	16	40	22	13	11	54	81
Matsuyama	1	12	1	12	51	28	9	1	49	29	1	5	65	81
Fukuoka	0	14	0	14	51	30	25	1	49	30	4	6	60	81
Kochi	8	11	0	11	44	24	28	0	53	25	10	4	61	79
Oita	0	18	0	18	46	24	26	0	55	24	7	4	65	80
Shimizu	0	20	0	20	47	33	27	0	53	33	7	7	53	15
Nagasaki	0	10	0	10	43	25	44	11	58	25	5	7	63	81
Miyazaki	1	15	0	15	52	27	32	1	47	28	1	9	62	81
Kagoshima	1	17	1	16	57	21	25	1	46	21	10	10	59	81
Autumn														
Sakai	2	17	0	16	78	16	22	4	24	16	9	20	55	118
Hamada	0	12	0	12	53	28	75	4	51	28	8	12	52	118
Okayama	0	12	0	12	43	31	8	0	58	30	14	6	50	118
Hiroshima	1	10	0	10	49	35	46	0	55	35	11	8	46	119
Izuhara	0	16	1	16	46	39	51	3	57	39	7	2	52	119
Tokushima	1	11	0	11	59	25	58	3	43	26	6	4	64	119
Shimonoseki	0	12	0	12	61	32	57	7	45	33	10	8	49	119
Matsuyama	0	12	0	12	48	33	22	0	55	33	8	8	51	119
Fukuoka	1	14	0	14	56	28	21	1	47	29	9	6	56	117
Kochi	2	15	0	15	37	38	56	0	62	39	7	6	48	117
Oita	0	15	0	15	55	32	49	0	48	32	4	9	55	119
Shimizu	0	22	0	22	59	29	28	2	43	30	5	5	60	58
Nagasaki	0	13	1	13	34	41	46	7	66	41	5	5	49	119
Miyazaki	0	16	0	16	45	36	39	1	55	36	2	15	47	119
Kagoshima	0	12	0	12	46	33	56	3	55	34	12	9	45	119

~~CONFIDENTIAL~~

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 6							1800 L.S.T.							
Summer														
Sakai	0	0	0	0	36	40	79	0	70	41	11	17	30	47
Hamada	0	8	0	6	33	37	65	4	69	37	17	8	38	48
Okayama	0	0	0	0	31	40	90	0	71	40	8	17	35	48
Hiroshima	0	10	0	10	21	56	62	0	81	56	4	9	31	48
Izuhara	0	6	0	6	21	32	43	0	79	32	9	6	53	47
Tokushima	–	–	–	–	–	NO DATA		–	–	–	–	–	–	–
Shimonoseki	0	4	0	4	30	45	66	28	74	44	17	11	28	47
Matsuyama	0	4	0	4	27	31	65	0	77	31	27	4	38	48
Fukuoka	0	8	0	8	50	23	79	0	56	23	13	8	56	48
Kochi	0	4	0	4	52	23	15	0	60	25	21	17	37	48
Oita	0	9	2	9	32	49	55	2	72	49	13	4	34	47
Shimizu	0	9	0	9	27	55	73	0	82	55	9	18	18	11
Nagasaki	0	6	0	6	17	37	85	2	83	37	8	11	44	48
Miyazaki	0	10	2	8	40	35	85	0	60	36	2	6	56	48
Kagoshima	0	8	0	6	46	29	69	2	62	29	19	8	44	48
Autumn														
Sakai	0	2	0	2	40	40	15	0	63	40	17	6	37	52
Hamada	0	0	0	0	38	42	50	8	63	42	6	4	48	52
Okayama	0	2	0	2	23	54	23	0	77	54	8	7	31	52
Hiroshima	0	2	0	2	35	46	12	0	67	46	6	4	44	52
Izuhara	0	4	0	4	15	42	33	0	88	42	8	2	48	52
Tokushima	–	–	–	–	–	NO DATA		–	–	–	–	–	–	–
Shimonoseki	0	0	0	0	46	44	73	8	58	44	10	11	35	52
Matsuyama	0	4	0	4	23	52	38	0	79	52	8	2	38	52
Fukuoka	0	4	0	4	39	39	37	0	57	39	8	6	47	51
Kochi	0	8	0	8	27	41	10	0	76	41	8	8	43	51
Oita	0	8	0	8	33	50	27	0	69	40	4	2	44	52
Shimizu	0	14	0	14	13	12	9	0	29	32	4	0	64	22
Nagasaki	0	6	0	6	25	42	48	0	75	42	6	8	44	52
Miyazaki	0	12	0	12	44	35	15	0	58	35	2	6	57	52
Kagoshima	0	21	0	21	33	44	33	0	65	44	6	6	44	52

CONFIDENTIAL

TABLE 28.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHERLY FLOW IN THE FREE AIR, REGIONS 7 AND 8

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7							0600 L.S.T.							
Winter														
Koryo	0	11	0	11	26	60	66	16	75	61	3	6	30	96
Jinsen	3	10	0	10	30	55	70	13	79	55	3	1	41	115
Fusan	0	13	0	13	30	50	44	22	70	51	5	4	40	114
Moppo	3	23	0	23	54	27	42	17	50	26	7	2	65	115
Saishu	0	20	0	20	79	17	43	33	21	17	1	3	79	115
Spring														
Koryo	0	13	0	13	39	43	43	9	61	43	5	9	43	23
Jinsen	0	6	0	6	41	38	63	16	59	38	0	3	59	32
Fusan	0	3	0	3	34	31	50	28	69	31	3	0	66	32
Moppo	3	13	0	13	47	31	50	16	53	31	0	3	66	32
Saishu	0	19	0	19	53	38	59	19	47	38	0	3	59	32
Summer														
Koryo	0	11	0	11	67	11	11	0	33	11	0	0	89	9
Jinsen	0	18	0	18	36	18	64	0	64	18	0	0	82	11
Fusan	0	18	0	18	73	9	64	9	36	9	9	0	82	11
Moppo	0	9	0	9	64	18	27	18	45	18	9	0	73	11
Saishu	0	27	0	27	45	0	36	18	55	0	9	18	73	11
Autumn														
Koryo	0	10	0	10	23	68	61	16	77	68	3	3	26	31
Jinsen	0	0	0	0	23	66	86	11	86	66	8	6	20	35
Fusan	0	6	0	6	34	60	60	9	71	60	6	6	28	35
Moppo	0	9	0	9	29	51	34	9	74	51	9	6	34	35
Saishu	0	6	0	6	54	43	74	17	51	43	8	3	46	35
REGION 8														
Winter														
Joshin	0	17	0	17	45	52	70	5	57	52	2	3	43	60
Genzan	0	17	0	17	40	55	43	3	62	55	2	5	38	60
Spring														
Joshin	0	4	0	4	37	41	30	7	67	41	4	0	55	27
Genzan	4	21	0	21	39	32	36	0	57	32	0	14	54	28
Summer														
Joshin	20	20	0	20	40	20	60	0	60	20	0	40	40	5
Genzan	0	40	0	40	60	20	20	0	40	20	0	0	80	5
Autumn														
Joshin	0	0	0	0	25	68	57	4	79	68	14	4	14	28
Genzan	0	3	3	3	21	69	59	0	79	69	3	0	28	29

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7						1800 L.S.T.								
Winter														
Koryo	0	5	0	5	24	64	52	20	77	64	2	5	29	132
Jinsen	1	5	0	5	24	68	47	42	77	68	4	4	24	131
Fusan	0	4	0	4	21	61	66	10	80	61	2	3	34	131
Moppo	0	18	0	18	57	27	22	60	46	27	5	6	62	129
Saishu	0	18	0	18	86	8	26	53	17	8	5	6	81	129
Spring														
Koryo	0	24	0	24	64	24	28	8	36	24	4	4	68	25
Jinsen	0	4	0	4	28	44	48	48	72	44	8	0	48	25
Fusan	0	12	0	12	60	36	72	4	52	36	12	4	48	25
Moppo	0	12	0	12	40	40	0	88	60	40	0	8	52	25
Saishu	0	12	0	12	52	40	36	48	48	40	0	12	48	25
Summer														
Koryo	0	0	0	0	0	0	0	0	100	0	0	0	100	1
Jinsen	0	0	0	0	0	0	100	0	100	0	0	0	100	1
Fusan	0	0	0	0	100	0	100	0	0	0	0	0	100	1
Moppo	0	0	0	0	0	0	100	0	100	0	0	0	100	1
Saishu	0	0	0	0	100	0	0	0	0	0	0	0	100	1
Autumn														
Koryo	0	5	0	5	32	58	42	13	68	60	0	8	32	38
Jinsen	0	3	0	3	16	66	53	37	89	66	8	5	21	38
Fusan	0	3	0	3	26	50	58	8	74	50	0	10	40	38
Moppo	0	8	0	8	37	34	24	68	63	34	3	5	58	38
Saishu	0	8	0	8	66	26	42	45	37	26	5	3	66	38
REGION 8														
Winter														
Joshin	1	7	0	7	21	73	60	21	81	73	6	3	18	107
Genzan	0	1	0	1	9	82	68	18	92	82	5	3	10	106
Spring														
Joshin	0	6	0	6	38	47	59	24	62	47	3	0	50	34
Genzan	0	12	0	12	29	50	56	6	71	50	3	9	38	34
Summer														
Joshin	0	0	0	0	25	75	50	25	75	75	0	0	25	4
Genzan	0	0	0	0	50	50	100	0	50	50	0	0	50	4
Autumn														
Joshin	0	4	0	4	27	67	49	16	73	67	4	6	23	49
Genzan	0	2	0	2	20	67	59	18	84	67	4	6	23	49

TABLE 29.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHEASTERLY FLOW IN THE FREE AIR, REGIONS 7 AND 8

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7								0600 L.S.T.						
Winter														
Koryo	0	10	0	10	24	69	62	18	78	69	3	2	26	136
Jinsen	1	8	0	6	20	70	61	27	80	70	3	1	26	145
Fusan	0	8	0	8	21	63	52	23	79	64	6	2	28	145
Moppo	1	25	0	23	61	30	32	27	39	30	3	3	64	146
Saishu	0	25	0	24	85	12	31	42	15	12	2	3	83	144
Spring														
Koryo	0	9	0	9	38	43	47	12	64	43	9	5	43	58
Jinsen	3	7	0	7	26	52	65	22	74	52	2	7	39	69
Fusan	0	6	0	6	32	46	52	13	68	46	0	3	51	69
Moppo	3	3	0	3	25	39	42	25	75	39	3	1	57	69
Saishu	0	6	0	6	54	32	57	28	54	32	10	10	48	69
Summer														
Koryo	12	24	0	24	47	35	29	0	53	35	0	0	65	17
Jinsen	0	19	4	19	50	31	54	12	50	31	0	4	65	26
Fusan	0	4	0	4	62	19	50	8	38	19	4	4	77	26
Moppo	15	15	0	15	50	23	27	15	50	23	8	4	65	26
Saishu	4	15	0	15	38	23	50	12	65	23	4	8	65	26
Autumn														
Koryo	0	4	0	4	28	60	74	10	72	60	0	4	36	50
Jinsen	0	5	0	5	16	65	68	11	86	65	9	5	21	57
Fusan	0	0	0	0	30	46	60	7	74	46	9	12	33	57
Moppo	0	4	0	4	28	33	42	11	75	33	7	7	53	57
Saishu	2	11	0	11	72	18	72	16	32	19	4	14	63	57
REGION 8														
Winter														
Joshin	0	18	0	18	46	51	61	8	59	51	5	3	41	61
Genzan	2	20	0	18	30	61	49	8	70	60	0	2	38	61
Spring														
Joshin	0	3	0	3	30	48	53	3	70	47	10	0	43	40
Genzan	5	15	0	15	35	48	35	3	63	50	0	5	45	40
Summer														
Joshin	0	22	0	22	43	35	35	0	61	35	9	0	56	23
Genzan	0	39	0	39	61	30	17	0	39	31	0	4	65	23
Autumn														
Joshin	0	7	0	7	37	53	57	3	67	53	7	0	40	30
Genzan	0	17	0	17	37	40	53	0	63	40	0	0	60	30

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7						1800 L.S.T.								
Winter														
Koryo	0	24	0	24	54	32	39	2	48	32	2	1	65	84
Jinsen	0	4	0	4	20	41	73	20	79	41	5	4	50	85
Fusan	0	18	0	18	47	33	69	2	55	33	4	4	59	85
Moppo	2	13	0	13	39	22	21	66	64	22	5	6	67	85
Saishu	0	21	0	21	79	12	48	28	24	11	5	4	80	85
Spring														
Koryo	0	13	0	13	52	28	53	3	48	27	3	0	70	40
Jinsen	2	7	0	7	37	29	63	27	63	30	2	2	66	41
Fusan	0	24	0	24	76	10	54	15	27	10	7	0	83	41
Moppo	2	29	0	29	49	20	27	39	51	20	2	2	78	41
Saishu	0	29	0	29	63	17	39	27	37	17	7	2	74	41
Summer														
Koryo	0	23	0	23	62	8	15	0	38	8	8	0	84	13
Jinsen	0	0	8	0	15	38	85	15	92	38	15	8	39	13
Fusan	0	8	0	8	77	15	85	0	31	15	8	8	69	13
Moppo	0	0	0	0	38	23	85	8	69	23	15	0	62	13
Saishu	0	15	0	15	46	23	62	15	62	23	23	15	39	13
Autumn														
Koryo	0	18	0	18	62	22	26	40	41	21	6	8	65	79
Jinsen	0	4	0	4	20	56	78	11	81	57	6	6	31	79
Fusan	0	11	0	11	43	35	65	8	62	35	6	4	55	79
Moppo	0	6	0	6	32	41	49	42	68	41	1	5	53	79
Saishu	0	10	0	10	57	28	52	22	48	28	10	14	48	79
REGION 8														
Winter														
Joshin	0	27	0	27	54	39	44	13	46	39	1	5	55	156
Genzan	0	14	0	14	29	52	45	6	70	52	3	5	40	155
Spring														
Joshin	0	24	0	24	68	12	41	7	34	12	5	5	78	41
Genzan	0	29	0	29	51	12	34	5	51	12	7	5	76	41
Summer														
Joshin	0	0	0	0	50	10	80	0	50	10	20	20	50	10
Genzan	0	10	10	10	30	40	70	0	70	40	10	0	50	10
Autumn														
Joshin	0	21	0	21	64	29	53	6	36	29	3	4	64	66
Genzan	0	16	3	16	46	36	49	3	54	36	8	4	52	67

TABLE 30.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHEASTERLY FLOW IN THE FREE AIR, REGIONS 7 AND 8

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7							0600 L.S.T.							
Winter														
Koryo	0	15	0	15	23	69	23	38	77	69	0	0	31	13
Jinsen	7	7	0	7	29	57	43	43	71	57	7	0	36	14
Fusan	0	14	0	14	29	57	71	7	79	57	7	0	36	14
Moppo	0	29	0	29	64	36	29	36	36	36	0	0	64	14
Saishu	0	21	0	21	86	14	14	64	14	14	7	0	79	14
Spring														
Koryo	8	19	0	19	56	28	41	9	44	28	3	3	66	32
Jinsen	6	8	0	8	36	50	53	28	64	50	0	0	50	36
Fusan	0	9	0	9	46	46	51	14	57	46	6	11	37	35
Moppo	0	6	0	6	47	39	39	28	58	39	6	0	55	36
Saishu	6	11	0	8	50	33	56	31	56	33	6	8	53	36
Summer														
Koryo	4	15	0	15	66	26	32	0	34	26	4	4	66	47
Jinsen	14	4	0	4	53	23	67	11	47	23	7	1	69	70
Fusan	0	23	0	23	57	21	33	1	44	23	10	3	64	70
Moppo	7	14	0	14	54	25	36	7	48	25	1	0	74	69
Saishu	3	16	0	16	51	30	63	9	51	30	10	4	56	70
Autumn														
Koryo	0	3	0	3	38	59	63	16	63	60	66	3	31	32
Jinsen	0	5	2	5	39	51	61	29	61	51	3	5	31	41
Fusan	0	12	0	12	39	46	41	7	63	46	3	7	44	41
Moppo	0	13	0	13	50	35	35	23	55	35	10	10	45	40
Saishu	0	10	0	10	76	12	49	37	34	12	27	5	56	41
REGION 8														
Winter														
Joshin	7	21	0	21	36	57	57	21	57	57	0	7	36	14
Genzan	0	14	0	14	50	50	21	43	50	50	0	7	43	14
Spring														
Joshin	6	6	0	6	47	35	35	9	53	35	6	0	59	34
Genzan	0	9	00	9	41	41	38	3	62	41	6	0	53	34
Summer														
Joshin	6	25	0	25	86	8	35	2	17	8	6	2	84	63
Genzan	0	37	0	37	73	24	24	0	29	24	2	1	73	63
Autumn														
Joshin	0	12	0	12	40	52	55	2	62	52	7	3	38	42
Genzan	0	7	0	7	43	48	64	2	62	48	5	7	40	42

	A	B	C	D	E	F	G	H	I	Cloud Cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7						1800 L.S.T.								
Winter														
Koryo	0	30	0	30	77	13	27	0	23	13	0	0	87	30
Jinsen	7	23	0	23	50	10	67	7	53	10	7	3	80	30
Fusan	0	27	0	23	70	10	37	7	30	10	3	7	80	30
Moppo	0	23	0	23	57	17	57	3	43	17	3	0	80	30
Saishu	3	31	0	28	79	7	48	17	21	7	0	0	93	29
Spring														
Koryo	0	23	3	23	60	17	50	3	40	17	7	0	76	30
Jinsen	0	17	0	17	48	21	62	10	52	21	3	7	69	29
Fusan	0	27	3	27	63	17	60	7	37	17	0	7	76	30
Moppo	0	30	0	30	50	13	53	13	47	13	0	7	80	30
Saishu	7	30	0	30	63	20	27	40	37	20	0	3	77	30
Summer														
Koryo	0	21	1	21	69	11	25	0	35	11	6	7	76	72
Jinsen	0	8	0	8	33	15	81	6	68	15	11	0	74	72
Fusan	0	13	0	13	50	19	76	0	54	19	8	7	66	72
Moppo	0	13	6	13	46	21	72	7	57	21	7	4	68	72
Saishu	0	21	0	21	58	21	39	31	46	21	8	8	63	72
Autumn														
Koryo	0	15	0	15	59	30	33	0	41	30	4	0	66	27
Jinsen	0	7	0	7	33	33	81	0	67	33	4	0	63	27
Fusan	0	11	0	11	56	15	67	4	44	15	4	7	74	27
Moppo	0	22	0	22	56	22	59	4	44	22	0	7	71	27
Saishu	0	22	0	22	81	0	26	41	26	0	15	7	78	27
REGION 8														
Winter														
Joshin	0	33	0	33	100	0	11	22	0	0	0	0	100	9
Genzan	0	44	0	33	89	0	22	0	11	0	0	11	89	9
Spring														
Joshin	0	50	0	50	67	0	17	33	33	0	0	0	100	6
Genzan	0	50	0	50	83	0	17	0	17	0	0	0	100	6
Summer														
Joshin	0	10	0	10	70	20	70	0	30	20	0	0	80	10
Genzan	0	30	0	30	60	10	60	0	40	10	0	0	90	10
Autumn														
Joshin	0	43	0	43	86	14	29	29	14	14	0	0	86	7
Genzan	0	43	0	43	71	14	29	0	29	14	14	0	72	7

TABLE 31.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHWESTERLY FLOW IN THE FREE AIR, REGIONS 7 AND 8

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7							0600 L.S.T.							
Winter														
Koryo	0	0	0	0	29	71	43	14	86	72	14	0	14	7
Jinsen	10	30	0	30	60	20	50	20	40	20	0	10	70	10
Fusan	0	10	0	10	20	40	60	10	80	40	10	0	50	10
Moppo	10	30	0	30	60	20	10	30	50	20	10	0	70	10
Saishu	0	40	0	40	90	10	20	40	20	10	20	0	70	10
Spring														
Koryo	0	10	0	10	38	39	57	14	64	339	8	1	52	77
Jinsen	5	7	0	7	40	32	68	10	61	32	5	3	60	105
Fusan	0	10	0	10	34	39	44	4	66	39	3	4	54	104
Moppo	2	8	0	8	35	33	53	7	66	34	5	2	59	105
Saishu	0	12	0	12	41	32	72	9	61	332	8	11	49	105
Summer														
Koryo	10	9	1	8	63	25	34	2	37	25	3	8	64	123
Jinsen	14	14	1	14	65	15	59	4	35	115	2	3	80	159
Fusan	1	13	0	13	56	16	38	3	45	17	4	8	71	158
Moppo	6	14	1	14	55	15	46	6	43	16	2	3	79	159
Saishu	2	14	0	13	50	33	57	8	51	34	7	5	54	160
Autumn														
Koryo	0	3	0	3	36	48	66	16	64	48	4	12	36	67
Jinsen	1	6	1	6	27	43	77	9	74	43	7	3	47	86
Fusan	0	8	0	8	40	39	45	5	62	39	5	3	53	85
Moppo	1	5	4	5	34	38	39	8	65	39	1	2	58	85
Saishu	0	13	1	13	54	30	71	12	46	30	6	4	60	83
REGION 8														
Winter														
Joshin	0	8	0	8	25	50	50	17	83	50	17	0	33	12
Genzan	0	8	0	8	33	33	25	17	67	33	0	9	58	12
Spring														
Joshin	7	11	0	11	42	25	50	5	60	285	11	5	59	84
Genzan	0	10	0	10	37	33	49	8	63	32	4	1	63	83
Summer														
Joshin	16	10	0	10	60	17	21	0	41	17	4	10	69	138
Genzan	2	18	0	18	51	19	39	0	50	129	7	6	68	139
Autumn														
Joshin	0	3	0	3	37	59	46	10	66	59	6	1	34	71
Genzan	0	5	0	5	36	42	62	5	69	42	10	6	42	73

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7						1800 L.S.T.								
Winter														
Koryo	0	0	0	0	33	50	67	17	67	50	0	0	50	6
Jinsen	0	50	0	50	83	17	33	17	17	17	0	0	83	6
Fusan	0	0	0	0	0	50	67	0	100	50	0	0	50	6
Moppo	0	17	0	17	17	50	83	0	83	50	0	17	33	6
Saishu	0	0	0	0	50	50	67	17	50	50	0	0	50	6
Spring														
Koryo	0	0	2	0	20	20	56	24	80	20	0	0	80	41
Jinsen	0	12	0	12	34	24	59	22	66	24	5	5	66	41
Fusan	0	5	0	5	34	37	78	7	68	37	2	2	59	41
Moppo	0	10	0	10	34	37	59	27	68	37	5	5	53	41
Saishu	0	88	0	8	31	51	51	31	69	51	3	3	43	39
Summer														
Koryo	1	18	2	18	60	23	34	2	42	23	4	8	65	121
Jinsen	2	13	1	13	47	25	69	17	53	25	7	5	63	121
Fusan	0	8	1	8	52	26	80	2	50	27	3	5	65	121
Moppo	0	10	0	9	47	25	70	11	57	25	7	3	65	122
Saishu	1	5	1	5	52	31	64	18	53	30	12	16	42	121
Autumn														
Koryo	0	7	0	7	20	40	40	0	80	40	3	13	44	30
Jinsen	0	3	3	3	40	30	43	43	60	30	7	7	56	30
Fusan	0	3	0	3	30	33	43	3	73	33	7	10	50	30
Moppo	0	3	0	3	20	43	80	3	80	44	0	0	56	30
Saishu	0	7	0	7	50	23	63	13	53	23	10	23	44	30
REGION 8														
Winter														
Joshin	0	17	0	13	61	26	57	13	39	30	13	9	48	23
Genzan	0	13	0	13	35	48	43	0	65	48	0	4	48	23
Spring														
Joshin	4	5	0	5	41	26	41	32	60	26	6	8	60	133
Genzan	4	5	1	5	32	30	59	10	68	30	2	6	62	130
Summer														
Joshin	7	11	1	11	60	14	49	9	42	14	7	8	71	227
Genzan	1	18	2	18	59	15	57	1	44	15	9	5	71	229
Autumn														
Joshin	1	2	0	2	27	51	51	16	76	51	10	3	36	92
Genzan	0	5	0	5	22	53	63	1	80	53	3	5	39	93

TABLE 32.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHWESTERLY FLOW IN THE FREE AIR, REGIONS 7 AND 8

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths 0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7								0600 L.S.T.						
Winter														
Koryo	0	9	0	9	23	64	59	20	78	64	6	5	25	81
Jinsen	1	7	0	7	26	63	64	17	74	63	3	2	32	92
Fusan	0	6	0	6	26	52	62	16	76	52	6	3	39	90
Moppo	0	16	0	15	46	30	40	24	54	31	4	1	64	92
Saishu	0	16	0	16	86	13	51	32	17	13	3	6	78	90
Spring														
Koryo	0	5	0	5	27	41	54	8	73	41	7	0	52	59
Jinsen	3	7	1	7	22	41	66	14	78	41	5	7	47	74
Fusan	0	11	0	11	41	23	51	7	59	23	7	8	62	73
Moppo	3	15	0	15	37	28	48	11	64	28	3	6	63	75
Saishu	1	19	1	19	42	31	59	16	59	31	5	6	58	74
Summer														
Koryo	0	7	0	7	38	38	38	3	62	38	0	10	52	29
Jinsen	3	12	0	9	48	9	64	3	52	9	3	12	76	33
Fusan	0	0	0	0	44	31	44	3	56	32	6	6	56	32
Moppo	0	12	0	12	45	18	30	9	55	18	9	9	64	33
Saishu	0	6	0	6	42	36	70	15	58	36	3	15	46	33
Autumn														
Koryo	0	11	0	11	25	65	74	5	77	65	4	4	27	81
Jinsen	1	6	0	6	30	56	70	10	74	56	6	4	34	101
Fusan	0	7	0	7	34	47	55	5	68	47	4	7	42	102
Moppo	2	7	0	6	34	39	48	13	69	39	7	7	47	102
Saishu	0	10	1	10	66	24	61	24	37	24	5	9	62	100
REGION 8														
Winter														
Joshin	0	6	0	6	22	71	67	10	79	71	4	5	20	188
Genzan	0	6	0	6	16	71	59	6	86	70	3	2	25	187
Spring														
Joshin	3	0	0	0	21	56	47	3	80	56	5	6	33	100
Genzan	1	3	0	3	30	48	53	3	71	48	5	4	43	100
Summer														
Joshin	0	4	0	4	40	18	42	0	62	18	13	7	62	45
Genzan	2	18	0	18	4	20	29	2	56	20	2	9	69	45
Autumn														
Joshin	0	6	0	6	27	68	68	5	75	68	7	2	23	105
Genzan	0	7	0	6	20	69	58	1	81	69	1	6	24	106

CONFIDENTIAL

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7						1800 L.S.T.								
Winter														
Koryo	0	2	0	1	15	73	49	37	84	74	2	3	21	117
Jinsen	0	3	0	3	26	59	60	29	74	60	1	3	36	116
Fusan	0	2	0	2	15	66	69	13	88	66	3	8	23	116
Moppo	0	16	0	15	53	29	44	37	51	29	6	6	59	116
Saishu	0	15	0	15	86	9	31	49	16	9	5	6	80	117
Spring														
Koryo	0	8	1	7	28	52	42	22	74	52	7	2	39	106
Jinsen	1	3	0	3	22	54	46	50	81	54	6	3	37	106
Fusan	0	2	0	2	19	50	84	6	82	50	2	7	41	106
Moppo	0	2	0	2	17	46	43	50	83	46	2	3	49	105
Saishu	0	7	0	7	38	37	51	37	82	336	9	9	46	106
Summer														
Koryo	0	6	0	6	34	41	47	13	66	41	9	19	31	32
Jinsen	3	6	0	6	16	56	59	34	84	56	13	3	28	32
Fusan	0	0	0	0	38	34	84	0	62	35	6	6	53	32
Moppo	0	6	0	6	25	34	59	25	78	35	6	6	53	32
Saishu	0	6	0	3	44	31	53	34	59	31	15	13	41	32
Autumn														
Koryo	0	3	0	1	25	63	61	15	76	64	6	6	24	109
Jinsen	0	3	0	2	40	48	48	48	67	48	12	9	31	108
Fusan	0	3	0	3	29	46	64	5	75	46	6	7	41	109
Moppo	0	6	0	6	39	39	47	43	62	39	7	11	43	109
Saishu	0	8	0	8	72	22	38	46	36	222	14	15	49	109
REGION 8														
Winter														
Joshin	0	6	0	6	25	66	64	11	75	68	6	7	19	53
Genzan	0	2	0	2	8	79	81	6	92	79	0	0	21	53
Spring														
Joshin	0	3	0	3	25	61	53	28	77	61	6	9	24	64
Genzan	0	3	0	3	25	41	56	27	76	43	6	18	33	63
Summer														
Joshin	0	5	0	5	45	35	65	5	65	35	15	5	45	20
Genzan	0	0	0	0	42	37	79	0	633	337	11	5	47	19
Autumn														
Joshin	0	2	0	2	21	73	56	24	80	73	4	8	15	66
Genzan	0	3	0	3	20	65	68	17	82	65	6	6	23	66

CONFIDENTIAL

TABLE 33.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH RIDGES AND CENTERS OF HIGH PRESSURE, REGIONS 7 AND 8

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	CD	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7							0600 L.S.T.							
Winter														
Koryo	0	22	0	22	55	33	22	11	44	33	30	0	67	9
Jinsen	0	36	0	36	45	9	64	0	45	9	0	9	82	11
Fusan	0	27	0	27	55	45	55	0	45	45	0	0	55	11
Moppo	0	36	0	36	64	18	27	0	45	18	9	0	73	11
Saishu	0	45	0	45	82	9	27	27	18	9	0	0	91	11
Spring														
Koryo	4	7	0	7	33	41	41	0	63	44	4	0	52	27
Jinsen	3	14	3	14	34	29	71	6	66	29	11	6	54	35
Fusan	0	9	0	9	46	31	51	6	54	31	3	6	60	35
Moppo	3	23	3	23	43	26	46	3	57	26	3	3	68	35
Saishu	0	26	0	26	69	20	49	14	37	20	6	8	66	35
Summer														
Koryo	16	12	0	12	68	12	32	0	32	16	4	8	72	25
Jinsen	11	8	0	8	61	17	61	11	42	17	0	0	83	36
Fusan	3	19	0	19	61	17	42	0	42	17	8	3	72	36
Moppo	0	17	0	17	56	19	22	3	44	19	3	3	75	36
Saishu	3	11	0	11	56	17	64	11	44	17	8	17	58	36
Autumn														
Koryo	0	0	0	0	36	44	64	4	68	44	4	20	32	25
Jinsen	0	11	0	11	28	39	78	6	72	39	8	8	45	36
Fusan	0	11	0	11	25	47	47	3	75	47	6	3	44	36
Moppo	0	11	0	11	31	22	42	6	72	22	14	3	61	36
Saishu	0	8	0	8	61	25	75	8	39	25	6	5	64	36
REGION 8														
Winter														
Joshin	0	14	0	14	50	42	58	14	50	42	0	3	55	36
Genzan	0	30	0	30	54	38	30	5	49	38	5	3	54	37
Spring														
Joshin	2	14	0	14	52	27	48	2	48	27	3	5	65	63
Genzan	2	23	0	23	53	26	34	0	48	26	3	2	69	62
Summer														
Joshin	15	7	0	7	72	7	24	2	28	7	6	4	83	46
Genzan	7	28	0	28	65	7	26	0	33	7	6	4	83	46
Autumn														
Joshin	1	10	0	10	43	39	45	1	60	39	8	7	46	67
Genzan	0	13	0	13	48	37	61	0	51	37	2	6	55	67

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7						1800 L.S.T.								
Winter														
Koryo	0	3	0	3	9	56	53	13	91	56	10	6	28	32
Jinsen	0	3	0	3	22	41	75	3	78	44	13	6	37	32
Fusan	0	0	0	0	19	50	66	0	81	50	6	3	41	32
Moppo	0	3	0	3	13	44	72	9	87	44	3	3	50	32
Saishu	0	6	0	6	59	28	56	6	41	28	3	6	63	32
Spring														
Koryo	0	2	0	2	27	41	62	4	73	41	6	4	49	85
Jinsen	1	0	0	0	7	54	82	14	93	54	6	0	40	85
Fusan	0	0	0	0	31	31	83	7	70	31	9	4	56	84
Moppo	0	2	1	2	10	36	64	23	88	38	2	5	55	84
Saishu	0	2	0	2	21	45	69	20	81	45	8	6	41	85
Summer														
Koryo	0	4	1	4	32	25	34	3	68	25	3	9	63	73
Jinsen	0	1	0	1	21	32	92	1	81	32	12	4	52	73
Fusan	0	4	0	4	35	31	82	3	67	30	7	7	56	72
Moppo	0	4	1	4	27	34	89	0	73	34	8	3	55	73
Saishu	0	9	0	8	51	34	62	22	55	34	11	10	45	73
Autumn														
Koryo	0	3	0	3	25	49	28	1	75	49	5	4	42	79
Jinsen	0	4	0	4	16	47	81	3	85	47	10	10	33	79
Fusan	0	5	0	5	22	47	61	1	78	47	5	6	42	79
Moppo	0	8	0	6	16	51	63	14	84	50	3	1	46	79
Saishu	0	6	0	6	44	42	60	11	60	42	9	9	40	79
REGION 8														
Winter														
Joshin	0	10	0	10	24	68	68	2	76	68	2	3	27	62
Genzan	0	13	0	13	23	47	45	3	81	47	15	3	35	62
Spring														
Joshin	5	0	0	0	32	51	54	24	68	52	7	7	34	41
Genzan	0	10	0	10	20	51	68	5	78	54	7	5	34	41
Summer														
Joshin	3	3	0	3	51	19	35	11	54	19	5	11	65	37
Genzan	0	8	3	8	42	24	76	0	58	23	3	8	66	38
Autumn														
Joshin	0	0	0	0	27	57	62	3	80	56	10	12	22	50
Genzan	0	3	0	3	27	63	65	0	73	63	2	2	33	60

TABLE 34.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH TROUGHS AND CENTERS OF LOW PRESSURE, REGIONS 7 AND 8

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7							0600 L.S.T.							
Winter														
Koryo	0	0	0	0	9	73	82	18	91	73	0	9	18	11
Jinsen	8	0	0	0	0	75	75	25	92	84	0	8	8	12
Fusan	0	0	0	0	17	75	75	17	83	75	0	8	17	12
Moppo	0	17	0	8	58	25	50	25	50	25	17	0	58	12
Saishu	0	8	0	8	83	17	33	58	17	17	0	0	83	12
Spring														
Koryo	0	7	0	7	36	50	36	21	64	50	7	14	29	14
Jinsen	6	6	0	6	35	41	53	29	65	41	0	6	53	17
Fusan	0	6	0	6	35	41	59	12	65	41	0	6	53	17
Moppo	0	18	0	18	35	35	59	18	65	35	0	0	65	17
Saishu	0	18	0	18	53	29	47	24	59	29	18	0	53	17
Summer														
Koryo	13	13	0	13	25	38	63	25	62	37	0	13	50	8
Jinsen	17	25	8	25	92	0	58	8	17	0	8	8	84	12
Fusan	0	17	0	17	50	25	50	0	50	25	0	8	67	12
Moppo	0	25	0	25	67	17	50	0	33	17	0	8	75	12
Saishu	0	25	0	25	33	25	58	8	67	25	0	8	67	12
Autumn														
Koryo	0	11	0	11	26	58	74	5	79	58	11	5	26	19
Jinsen	0	4	0	4	17	65	74	13	83	65	0	0	35	23
Fusan	0	4	0	4	43	43	48	9	57	44	0	13	43	23
Moppo	0	0	0	0	17	43	48	22	78	44	0	4	52	23
Saishu	4	4	0	4	65	26	65	26	48	26	17	0	57	23
REGION 8														
Winter														
Joshin	0	12	0	12	24	76	55	24	76	76	3	3	18	33
Genzan	3	0	0	0	0	88	61	15	97	91	0	6	3	33
Spring														
Joshin	10	0	0	0	33	47	60	10	67	47	3	3	47	30
Genzan	0	10	0	10	27	43	47	13	73	43	10	10	37	30
Summer														
Joshin	0	4	0	4	50	38	38	0	54	38	8	8	46	24
Genzan	0	16	0	16	56	32	36	0	44	32	8	0	60	25
Autumn														
Joshin	0	9	0	9	17	65	57	13	87	65	9	4	22	23
Genzan	0	4	0	4	13	65	57	13	82	65	9	0	26	23

	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 7						1800 L.S.T.								
Winter														
Koryo	0	40	0	40	80	10	40	0	20	10	0	10	80	10
Jinsen	0	50	0	50	90	0	40	10	10	0	0	10	90	10
Fusan	0	25	0	25	75	13	50	13	25	12	0	0	88	8
Moppo	0	50	0	50	90	0	30	0	10	0	0	0	100	10
Saishu	0	30	0	30	90	10	40	30	20	10	10	10	70	10
Spring														
Koryo	0	21	0	21	64	18	52	9	39	18	3	0	79	33
Jinsen	6	30	3	30	58	15	45	24	42	15	0	0	85	33
Fusan	0	24	0	24	61	18	61	12	39	18	9	6	67	33
Moppo	3	27	33	27	58	15	55	18	42	15	3	6	76	33
Saishu	0	24	0	24	61	24	33	33	42	24	6	3	67	33
Summer														
Koryo	0	25	2	25	60	19	26	0	40	19	4	7	70	53
Jinsen	0	11	0	11	28	42	77	9	72	42	9	6	43	53
Fusan	0	23	2	23	62	23	60	2	38	22	2	6	70	53
Moppo	0	13	0	13	38	36	68	13	60	36	0	6	58	53
Saishu	2	9	2	9	58	25	51	34	49	25	13	9	53	53
Autumn														
Koryo	0	15	0	15	65	20	25	0	35	20	5	10	65	20
Jinsen	0	25	0	25	60	20	55	10	45	20	10	15	55	20
Fusan	0	5	0	5	35	30	65	10	65	30	5	25	40	20
Moppo	0	20	0	20	50	25	50	10	50	25	0	5	70	20
Saishu	0	30	0	20	65	20	50	5	35	20	5	10	65	20
REGION 8														
Winter														
Joshin	0	15	0	15	46	31	46	8	54	31	0	0	69	13
Genzan	0	54	0	46	69	8	23	0	31	8	8	7	77	13
Spring														
Joshin	4	11	0	10	47	26	42	26	55	26	7	7	60	73
Genzan	0	11	0	11	39	25	52	13	63	25	5	11	59	75
Summer														
Joshin	1	19	0	19	73	10	44	12	27	11	5	6	78	73
Genzan	0	19	1	19	59	16	56	3	42	16	7	8	69	73
Autumn														
Joshin	0	20	0	20	48	35	43	25	52	37	3	8	52	40
Genzan	0	20	2	20	41	39	49	2	61	39	3	12	46	41

CONFIDENTIAL

TABLE 35.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH NORTHEASTERLY FLOW IN THE FREE AIR, REGION 9

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

REGION 9	A	B	C	D	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
								0600 L.S.T.					
Winter													
Koshun	0	6	0	6	12	44	51	31	44	9	8	39	120
Mako	0	16	0	16	53	17	7	68	17	6	4	73	120
Taihoku	2	35	0	34	55	75	52	2	8	4	3	85	120
Tainan	5	6	1	6	27	30	41	16	– – –	NO DATA	– – –		118
Taito	1	5	1	5	29	28	56	1	– – –	"	"	– – –	120
Spring													
Koshun	0	8	0	6	16	33	71	12	35	6	6	53	49
Mako	0	22	0	22	57	16	16	55	16	4	8	72	49
Taihoku	0	41	2	41	57	6	43	0	6	6	2	86	49
Tainan	4	14	2	14	33	20	49	16	– – –	NO DATA	– – –		51
Taito	0	18	0	18	43	24	65	0	– – –	"	"	– – –	51
Summer													
Koshun	0	0	0	0	16	47	79	5	47	5	5	43	19
Mako	0	5	5	5	5	32	58	21	32	10	16	42	19
Taihoku	0	26	0	21	42	26	48	0	26	10	5	59	19
Tainan	0	17	0	17	17	39	83	0	– – –	NO DATA	– – –		18
Taito	0	0	0	0	17	50	83	0	– – –	"	"	– – –	18
Autumn													
Koshun	0	4	1	4	10	50	44	34	50	8	9	33	134
Mako	0	1	0	1	20	38	47	80	39	9	6	46	134
Taihoku	0	21	0	21	35	20	71	0	19	4	7	70	134
Tainan	8	2	0	2	14	45	82	2	– – –	NO DATA	– – –		136
Taito	0	6	0	5	24	38	69	2	– – –	"	"	– – –	136

CONFIDENTIAL

[redacted]

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9								1800 L.S.T.					
Winter													
Koshun	0	7	0	7	8	17	48	22	17	6	17	60	89
Mako	0	17	0	16	50	11	3	72	11	3	7	79	89
Taihoku	0	33	0	31	46	11	31	11	11	3	6	80	89
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-
Spring													
Koshun	0	2	0	2	14	23	56	21	26	12	9	53	43
Mako	0	9	0	7	39	28	21	49	28	2	0	70	43
Taihoku	0	26	0	26	39	5	35	12	5	2	7	86	43
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-
Summer													
Koshun	0	6	6	6	19	19	81	0	19	0	6	75	16
Mako	0	9	0	7	39	28	25	25	19	19	6	56	16
Taihoku	0	19	0	19	31	25	25	19	25	19	6	50	16
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-
Autumn													
Koshun	0	6	0	6	9	20	46	33	20	10	12	58	121
Mako	0	3	0	3	23	31	3	88	31	7	12	50	121
Taihoku	0	18	0	17	32	17	34	6	17	10	8	65	121
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-

[redacted]AL

CO[redacted]

TABLE 36.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH EASTERLY FLOW IN THE FREE AIR, REGION 9

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded.

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs
REGION 9								0600 L.S.T.					
Winter													
Koshun	0	7	0	6	10	44	39	36	46	7	10	37	189
Mako	0	7	0	7	39	21	6	75	22	3	6	69	189
Taihoku	1	30	0	30	43	16	41	4	17	4	7	72	189
Tainan	6	3	0	3	22	37	63	6	— — —	NO	DATA	— — —	195
Taito	0	8	0	8	24	29	51	3	— — —	"	"	— — —	194
Spring													
Koshun	0	4	0	4	11	37	59	29	37	7	8	48	122
Mako	0	12	2	12	45	21	20	52	20	6	0	74	122
Taihoku	1	35	0	34	44	11	42	4	12	2	6	80	121
Tainan	0	3	0	3	20	31	75	5	— — —	NO	DATA	— — —	124
Taito	0	10	2	10	41	16	52	4	— — —	"	"	— — —	124
Summer													
Koshun	0	21	0	21	29	31	57	7	36	0	7	57	14
Mako	0	14	0	14	0	29	57	29	29	14	14	43	14
Taihoku	0	14	0	14	14	36	71	0	36	21	7	36	14
Tainan	7	7	7	7	21	29	100	0	— — —	NO	DATA	— — —	14
Taito	0	7	0	7	36	14	93	0	— — —	"	"	— — —	14
Autumn													
Koshun	1	6	0	6	11	45	24	49	50	8	9	33	127
Mako	0	6	0	6	26	37	12	67	37	9	5	49	127
Taihoku	0	24	0	22	28	25	71	0	26	8	8	58	127
Tainan	3	2	0	2	12	52	90	2	— — —	NO	DATA	— — —	124
Taito	0	10	0	10	24	34	65	3	— — —	"	"	— — —	123

CO[redacted]

~~CONFIDENTIAL~~

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9							1800 L.S.T.						
Winter													
Koshun	0	9	0	7	8	27	25	41	27	7	13	53	233
Mako	0	5	0	5	37	21	3	85	22	4	7	67	234
Taihoku	0	24	0	23	30	13	19	24	14	6	10	70	234
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -
Spring													
Koshun	0	4	0	3	9	28	41	33	26	12	9	53	135
Mako	0	13	0	13	39	33	10	62	23	3	8	66	135
Taihoku	0	29	0	29	39	4	19	29	5	10	4	81	135
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -
Summer													
Koshun	0	27	0	27	45	9	63	0	9	0	18	73	11
Mako	0	13	0	13	39	23	18	36	18	0	55	27	11
Taihoku	0	18	0	18	27	18	18	27	9	9	0	82	11
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -
Autumn													
Koshun	0	9	0	10	10	24	30	38	24	12	12	52	155
Mako	0	4	0	4	18	32	3	81	32	9	13	46	155
Taihoku	0	21	0	16	24	19	17	26	19	8	10	63	155
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -

~~CONFIDENTIAL~~

CONFIDENTIAL

TABLE 37.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHEASTERLY FLOW IN THE FREE AIR, REGION 9

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 9								0600 L.S.T.					
Winter													
Koshun	0	6	0	6	0	72	22	61	76	6	6	12	18
Mako	0	6	0	6	17	61	6	56	61	6	0	33	18
Taihoku	6	6	0	6	17	28	44	11	28	0	17	55	18
Tainan	6	0	0	0	22	50	94	0	– –	NO	DATA	– – –	18
Taito	0	6	0	6	28	33	44	0	– –	"	"	– – –	18
Spring													
Koshun	0	2	0	2	4	48	63	22	48	9	11	32	46
Mako	0	11	0	11	20	41	37	24	41	4	11	44	46
Taihoku	4	20	0	20	33	20	59	0	22	2	4	72	46
Tainan	0	0	0	0	9	43	91	0	– –	NO	DATA	– – –	44
Taito	0	9	0	9	39	16	70	0	– –	"	"	– – –	44
Summer													
Koshun	0	25	8	17	33	8	58	13	8	17	17	58	24
Mako	0	4	4	4	0	8	80	4	8	12	16	64	25
Taihoku	0	24	0	24	28	24	56	12	24	0	16	60	25
Tainan	0	4	0	4	12	12	100	0	– –	NO	DATA	– – –	26
Taito	4	27	0	27	27	27	69	0	– –	"	"	– – –	26
Autumn													
Koshun	0	17	2	13	31	31	27	19	45	8	9	38	48
Mako	0	2	2	2	15	50	48	33	50	8	2	40	48
Taihoku	0	10	0	8	10	52	42	15	54	8	8	30	48
Tainan	2	6	2	6	12	49	92	0	– –	NO	DATA	– – –	49
Taito	0	10	6	10	38	26	58	4	– –	"	"	– – –	49

CONFIDENTIAL

CONFIDENTIAL

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9							1800 L.S.T.						
Winter													
Koshun	0	0	0	0	6	39	50	28	39	22	7	32	18
Mako	0	0	0	0	28	17	6	61	17	11	6	66	18
Taihoku	0	11	0	11	11	39	28	39	39	17	6	38	18
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -
Spring													
Koshun	0	6	0	6	9	31	35	22	34	13	9	44	68
Mako	0	3	0	3	9	34	22	44	34	13	13	40	68
Taihoku	0	12	0	12	15	15	40	26	15	10	12	63	68
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -
Summer													
Koshun	0	9	0	9	16	20	43	18	20	20	5	55	44
Mako	0	3	0	3	9	34	55	4	25	7	18	50	44
Taihoku	0	14	2	11	23	18	34	27	18	20	14	48	44
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -
Autumn													
Koshun	0	18	3	15	28	10	33	20	10	8	5	77	40
Mako	0	10	0	10	23	20	21	40	20	15	12	53	40
Taihoku	0	10	0	10	17	28	23	38	28	17	7	48	40
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO	DATA	- - -	- - -	- - -	- - -	- - -
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -

CONFIDENTIAL

~~CONFIDENTIAL~~

TABLE 38.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHERLY FLOW IN THE FREE AIR, REGION 9

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0–.3	.4–.6	.7–.8	.9–1.0	No. of obs.
REGION 9									0600 L.S.T.				
Winter													
	FEW OCCURRENCES												
Spring													
Koshun	0	0	0	0	0	50	88	0	50	19	6	25	16
Mako	0	0	0	0	6	69	69	19	69	0	0	31	16
Taihoku	6	0	0	0	6	25	100	0	31	19	12	38	16
Tainan	0	0	0	0	6	62	100	0	NO DATA				16
Taito	0	0	0	0	44	19	94	0	"	"	"	"	16
Summer													
Koshun	0	15	0	15	21	27	79	0	27	15	18	40	62
Mako	0	7	0	7	0	0	69	10	29	13	28	30	61
Taihoku	0	6	0	5	6	26	89	3	26	18	31	25	62
Tainan	0	8	0	8	10	49	93	0	NO DATA				61
Taito	0	10	0	10	20	34	69	0	"	"	"	"	61
Autumn													
	FEW OCCURRENCES												

~~CONFIDENTIAL~~

CONFIDENTIAL

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9							1800 L.S.T.						
Winter	NO DATA												
Spring													
Koshun	0	0	0	0	10	30	90	0	30	20	10	40	10
Mako	0	0	0	0	0	80	50	20	80	0	0	20	10
Taihoku	0	20	0	20	20	10	50	0	10	10	10	70	10
Tainan	NO DATA												
Taito	" "												
Summer													
Koshun	0	10	0	8	17	27	60	0	27	12	17	44	48
Mako	0	0	0	0	0	0	67	4	33	12	15	40	48
Taihoku	0	15	8	14	25	13	64	6	12	10	15	63	48
Tainan	NO DATA												
Taito	" "												
Autumn	NO DATA												

CONFIDENTIAL

[redacted]

TABLE 39.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH SOUTHWESTERLY FLOW IN THE FREE AIR, REGION 9

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.33	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9								0600 L.S.T.					
Winter	- - - - - - - - - - - - - - NO DATA - - - - - - - - - - - - - - -												
Spring													
Koshun	0	5	0	5	18	50	86	5	50	9	5	36	22
Mako	4	14	0	14	27	32	64	5	36	5	18	41	22
Taihoku	5	5	0	5	14	45	91	0	46	4	9	41	22
Tainan	0	10	0	10	15	60	90	0	- - - NO DATA - - -				20
Taito	0	20	0	20	35	20	75	0	- - - " " - - -				20
Summer													
Koshun	0	18	0	17	32	22	79	0	22	10	8	50	87
Mako	1	15	0	15	7	25	58	3	25	10	14	51	88
Taihoku	3	6	0	6	17	23	92	2	23	12	13	52	88
Tainan	0	20	1	20	28	30	78	0	- - - NO DATA - - -				91
Taito	0	9	0	8	18	43	80	3	- - - " " - - -				91
Autumn	- - - - - - - - - - - - - - NO DATA - - - - - - - - - - - - - - -												

~~CONFIDENTIAL~~

[redacted]

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9					1800 L.S.T.								
Winter	- - - - - - - - - - - - NO DATA - - - - - - - - - - - - - - - - - -												
Spring													
Koshun	0	6	0	6	13	25	88	0	25	19	31	25	16
Mako	0	19	6	19	25	44	25	0	44	12	19	25	16
Taihoku	0	0	0	0	31	6	88	0	13	12	6	69	16
Tainan	- - - - - - - - - - - - NO DATA - - - - - - - - - - - - - - - - - -												
Taito	- - - - - - - - - - - - " " - - - - - - - - - - - - - - - - - -												
Summer													
Koshun	0	14	1	14	28	10	65	3	10	8	21	61	71
Mako	0	19	0	19	25	44	21	15	25	7	11	57	71
Taihoku	0	28	7	24	34	4	38	4	4	13	14	69	71
Tainan	- - - - - - - - - - - - NO DATA - - - - - - - - - - - - - - - - - -												
Taito	- - - - - - - - - - - - " " - - - - - - - - - - - - - - - - - -												
Autumn	- - - - - - - - - - - - NO DATA - - - - - - - - - - - - - - - - - -												

[redacted]

[redacted]

TABLE 40.--SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH RIDGES AND CENTERS OF HIGH PRESSURE, REGION 9

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9							0600 L.S.T.						
Winter													
Koshun	0	17	0	17	17	66	33	33	67	0	0	33	6
Mako	0	0	0	0	0	83	33	50	83	0	17	0	6
Taihoku	0	0	0	0	0	50	83	0	50	17	17	16	6
Tainan	0	0	0	0	0	100	100	0	- - -	NO	DATA	- - -	5
Taito	0	0	0	0	50	50	75	0	- - -	"	"	- - -	4
Spring													
Koshun	0	4	0	0	4	52	76	8	52	20	0	28	25
Mako	0	4	0	4	8	56	68	8	56	8	8	28	25
Taihoku	0	0	0	0	4	52	96	0	52	0	8	40	25
Tainan	0	0	0	0	4	76	100	0	- - -	NO	DATA	- - -	25
Taito	0	0	0	0	16	32	84	0	- - -	"	"	- - -	25
Summer													
Koshun	0	16	0	14	19	30	76	0	30	16	19	35	327
Mako	0	6	0	6	3	42	86	0	42	14	6	38	36
Taihoku	0	11	0	11	16	41	89	0	41	16	5	38	37
Tainan	0	3	0	3	8	27	97	0	- - -	NO	DATA	- - -	37
Taito	0	11	0	11	19	38	89	0	- - -	"	"	- - -	37
Autumn													
Koshun	0	14	0	14	14	14	43	29	14	14	0	72	7
Mako	0	29	0	29	29	43	28	14	43	14	0	43	7
Taihoku	0	0	14	0	14	71	86	0	71	0	0	29	7
Tainan	0	0	14	0	29	29	100	0	- - -	NO	DATA	- - -	7
Taito	0	14	0	14	43	14	71	0	- - -	"	"	- - -	7

[redacted]

CONFIDENTIAL

REGION 9	A	B	C	D	E	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
						1800 L.S.T.								
Winter														
Koshun	0	0	0	0	0	100	100	0		- - -	NO DATA		- - -	1
Mako	0	0	0	0	0	100	0	0		- - -	"	"	- - -	1
Taihoku	0	0	0	0	0	0	100	0		- - -	"	"	- - -	1
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	-
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -	-
Spring														
Koshun	0	0	0	0	0	54	62	8		54	15	0	31	13
Mako	0	0	0	0	0	69	50	20		69	0	15	16	13
Taihoku	0	0	0	0	0	23	77	8		31	15	15	39	13
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	-
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -	-
Summer														
Koshun	0	1	0	11	19	30	73	3		30	16	19	35	37
Mako	0	0	0	0	0	69	73	3		49	14	5	32	37
Taihoku	0	14	11	11	19	19	57	5		19	13	22	46	37
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	-
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -	-
Autumn														
Koshun	0	0	0	0	17	33	67	0		33	0	0	67	6
Mako	0	0	0	0	0	40	60	20		40	20	20	20	5
Taihoku	0	33	0	17	33	33	17	0		33	17	17	33	6
Tainan	- - -	- - -	- - -	- - -	- - -	- - -	NO DATA	- - -	- - -	- - -	- - -	- - -	- - -	-
Taito	- - -	- - -	- - -	- - -	- - -	- - -	"	"	- - -	- - -	- - -	- - -	- - -	-

CONFIDENTIAL

[redacted]

TABLE 41.—SUMMARY OF LOCAL WEATHER CONDITIONS ASSOCIATED WITH TROUGHS AND CENTERS OF LOW PRESSURE, REGION 9

Percentage of the observations made at 0600 and 1800 local time of the meridian of 135° east longitude, at which certain weather conditions have been recorded

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
REGION 9							0600 L.S.T.						
Winter													
Koshun	0	0	0	0	7	36	86	7	36	0	14	50	14
Mako	0	21	0	21	64	7	43	14	7	0	0	93	14
Taihoku	21	36	0	21	50	14	64	0	21	0	7	72	14
Tainan	31	19	0	12	88	0	75	0	- - -	NO	DATA	- - -	16
Taito	0	12	0	12	44	38	63	0	- - -	"	"	- - -	16
Spring													
Koshun	0	2	0	2	14	47	83	6	47	6	6	41	49
Mako	8	6	2	6	37	20	65	6	20	10	6	64	49
Taihoku	6	19	0	19	34	9	77	2	11	8	15	66	47
Tainan	2	2	0	2	12	33	100	0	- - -	NO	DATA	- - -	49
Taito	0	12	0	12	33	41	80	0	- - -	"	"	- - -	49
Summer													
Koshun	0	15	0	15	35	15	76	3	15	12	9	64	34
Mako	0	24	0	24	9	21	53	0	21	15	6	58	34
Taihoku	0	15	0	15	24	12	85	0	12	18	12	58	34
Tainan	3	15	0	15	32	21	82	0	- - -	NO	DATA	- - -	34
Taito	0	15	0	15	29	18	85	0	- - -	"	"	- - -	34
Autumn													
Koshun	0	16	0	16	16	37	68	5	37	16	5	42	19
Mako	0	5	5	5	32	26	47	11	26	11	10	53	19
Taihoku	0	16	0	16	32	32	74	5	32	0	10	58	19
Tainan	6	12	0	12	29	41	76	0	- - -	NO	DATA	- - -	17
Taito	0	17	0	17	33	56	78	0	- - -	"	"	- - -	18

[redacted]

CONFIDENTIAL

REGION 9 — 1800 L.S.T.

	A	B	C	D	F	G	H	I	Cloud cover, tenths .0-.3	.4-.6	.7-.8	.9-1.0	No. of obs.
Winter													
Koshun	0	11	0	0	11	22	67	0	22	11	11	56	9
Mako	0	33	0	33	78	0	33	22	0	0	0	100	9
Taihoku	0	22	0	22	55	22	78	0	22	11	-	67	9
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-
Spring													
Koshun	0	8	3	5	13	33	63	8	35	8	12	45	40
Mako	0	3	0	3	13	43	25	0	43	10	10	37	40
Taihoku	0	18	3	18	30	12	58	5	12	8	12	68	40
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-
Summer													
Koshun	0	28	0	28	33	11	47	3	11	0	17	72	366
Mako	0	3	0	3	13	43	28	17	22	14	8	56	36
Taihoku	0	19	3	19	28	11	47	8	11	6	8	75	36
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-
Autumn													
Koshun	0	0	0	0	21	21	64	29	21	7	0	72	14
Mako	0	21	0	21	36	36	64	14	36	7	7	50	14
Taihoku	0	7	0	7	14	14	57	0	21	21	0	58	14
Tainan	-	-	-	-	-	-	NO	DATA	-	-	-	-	-
Taito	-	-	-	-	-	-	"	"	-	-	-	-	-

CONFIDENTIAL

TABLE 42.—PERCENTAGE FREQUENCY OF FREE-AIR FLOW BY STRENGTH OF CIRCULATION
(Breakdown of table 2)

Classes: 1. Weak (Beaufort 1-3, gradient speed less than 13 m.p.h.)
2. Intermediate (Beaufort 4-7, gradient speed 13-39 m.p.h.)
3. Strong (Beaufort 8 and over, gradient speed 40 m.p.h. and over)

	N			NE			E			SE			S		
	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3
REGION 1															
Winter	5	18	3	5	20	7				1	1	1	*	2	*
Spring	1	5	1	1	8	4				1	4	3	1	5	*
Summer	1	1	*	1	3	1				2	11	2	5	6	*
Autumn	3	3	1	3	6	3				1	6	2	1	3	*
REGION 2															
Winter	2	10	2	3	10	2				*	2	2	1	*	*
Spring	*	3	3	1	5	3				*	4	3	1	3	2
Summer	1	1	0	2	3	*				3	10	1	3	8	1
Autumn	2	4	1	2	4	1				1	6	2	1	4	1
REGION 3															
Winter	*	10	2	1	8	1				*	1	1	*	1	1
Spring	*	6	3	*	6	1				*	3	2	1	7	1
Summer	*	3	*	3	4	*				2	10	2	4	10	2
Autumn	1	5	1	2	6	1				1	7	1	1	6	1
REGION 4															
Winter	1	11	7	1	17	6				0	1	*	*	1	0
Spring	*	6	4	1	10	7				*	3	1	*	4	1
Summer	*	1	*	3	6	*				2	7	1	3	5	*
Autumn	1	4	2	2	15	3				1	5	1	1	3	*
REGION 5															
Winter	*	12	4	3	18	7				0	1	1			
Spring	*	3	3	2	11	11				*	4	2			
Summer	*	1	0	3	6	1				4	7	1			
Autumn	1	4	1	4	20	5				1	7	2			
REGION 6															
Winter	*	16	2	3	24	3				*	4	*			
Spring	*	5	1	1	15	8				*	6	1			
Summer	*	1	0	2	7	1				3	10	2			
Autumn	1	5	*	3	26	3				2	7	*			
REGION 7															
Winter	1	16	11	2	17	2				*	4	2			
Spring	1	3	2	2	9	1				1	4	2			
Summer	*	*	0	2	2	*				5	10	1			
Autumn	3	5	2	6	12	*				2	4	*			
REGION 8															
Winter	1	11	12	2	15	18				*	2	*			
Spring	1	5	2	2	7	2				2	*	*			
Summer	*	2	*	2	1	*				1	1	*			
Autumn	3	5	3	5	8	3				1	1	*			
REGION 9															
Winter				*	18	11	1	38	20	0	4	1	0	0	0
Spring				1	9	3	3	26	6	2	13	1	2	2	0
Summer				1	4	*	1	2	0	3	6	*	7	8	*
Autumn				2	27	6	2	30	7	1	10	1	*	1	0

TABLE 42.--PERCENTAGE FREQUENCY OF FREE-AIR FLOW BY STRENGTH OF CIRCULATION
(Breakdown of table 2) (cont.)

Classes: 1. Weak (Beaufort 1-3, gradient speed less than 13 m.p.h.)
2. Intermediate (Beaufort 4-7, gradient speed 13-39 m.p.h.)
3. Strong (Beaufort 8 and over, gradient speed 40 m.p.h. and over)

	SW			NW			Ridge & High			Trough & Low		
	1	2	3	1	2	3	1	2	3	1	2	3
REGION 1												
Winter	1	2	*	4	14	3	2	*	0			
Spring	3	18	3	3	12	2	6	2	0			
Summer	13	20	2	2	4	*	9	1	*			
Autumn	5	13	2	3	17	3	6	1	*			
REGION 2												
Winter	*	2	2	4	26	11	5	2	*			
Spring	2	12	5	2	14	7	7	4	*			
Summer	12	18	3	2	5	1	7	1	0			
Autumn	3	11	3	3	17	5	9	3	0			
REGION 3												
Winter	*	3	1	13	32	13	8	5	0			
Spring	1	13	1	1	16	9	10	5	*			
Summer	13	12	*	1	7	1	8	1	0			
Autumn	1	7	*	1	19	3	16	6	*			
REGION 4												
Winter	*	3	1	*	22	6	8	6	1			
Spring	1	11	3	*	8	3	13	7	1			
Summer	12	14	1	1	5	*	8	4	*			
Autumn	1	3	*	1	8	3	18	9	1			
REGION 5												
Winter	*	3	1	1	15	6	10	5	1			
Spring	2	10	3	1	5	2	13	6	*			
Summer	11	16	1	1	4	*	11	3	0			
Autumn	1	3	1	1	8	1	13	5	1			
REGION 6												
Winter	*	4	0	1	14	3	8	6	*			
Spring	1	8	2	*	7	2	13	8	*			
Summer	8	16	1	1	2	*	12	4	0			
Autumn	*	2	*	1	8	1	13	3	0			
REGION 7												
Winter	*	2	*	1	15	8	5	2	0	*	1	1
Spring	2	7	1	3	13	7	13	4	1	1	2	2
Summer	11	13	1	2	5	1	15	2	0	2	5	2
Autumn	3	3	*	3	14	4	16	2	0	1	3	*
REGION 8												
Winter	*	3	1	2	6	3	9	6	1	*	2	1
Spring	4	16	8	2	9	3	7	6	*	2	5	5
Summer	11	24	10	1	3	1	9	4	*	3	6	3
Autumn	4	12	2	3	8	3	15	5	*	1	4	2
REGION 9												
Winter	0	0	0				*	1	0	*	3	*
Spring	1	4	*				4	1	0	2	9	1
Summer	8	14	*				7	3	*	3	6	1
Autumn	*	0	0				1	1	0	1	3	0

*More than 0.0 and less than 0.6%.

STRENGTH OF GRADIENT WIND IN THE SEVERAL FLOW TYPES

In the discussion and tabulations presented above, the classification of flow types has been made without regard to strength of the flow. An indication of the relative strength of the various types is given in table 42, in which the frequencies of table 1 are broken down into three classes, weak, intermediate, and strong, which are defined in the heading of the table. The percentages given in the table refer to all observations, so that the number "18" in column 2, N, Region 1, winter, means that 18 percent of all bi-daily observations made in this season had gradient winds of moderate strength from the north. With few exceptions, the maximum frequency of free-air winds at all seasons and in all regions is found in this intermediate group. "Ridge and High," as is to be expected, falls most frequently into the "weak" class. The exceptions among the flow types defined by directions (N clockwise to NW) in Region 3, summer, SW, and in Region 8, winter, N and NE, are in accordance with the general conditions of circulation over the Japanese area in the two extreme seasons of the year: strong flow of air from the northerly octants in winter, and weak flow from the southerly octants in summer. Strong flow from the southerly octants in summer, especially in the more southerly regions, is usually associated with tropical cyclones.