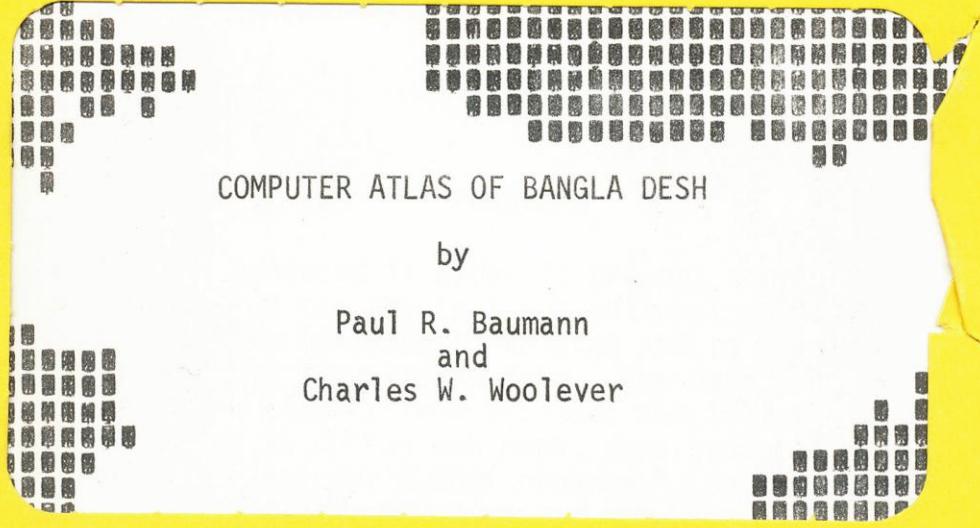


# *Publications in Geography*



COMPUTER ATLAS OF BANGLA DESH

by

Paul R. Baumann  
and  
Charles W. Woolever



DEPARTMENT OF GEOGRAPHY

*S.U.N.Y. at Oneonta*

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Paul R. Baumann  
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Charles W. Woolever

P.B. AND C.W.

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## FOREWORD

This atlas was produced in order to present some of the spatial patterns resulting from the physical and cultural composition of this new nation which was formerly East Pakistan and to examine the potential use of computer maps in a published form. The data for the maps presented here was drawn largely from the 1951 and 1961 Census of Pakistan. These maps, developed as choropleth maps, were produced by a modified version of Morton W. Scripter's CMAP program.\* No reductions from the printouts were made in the maps.

\*Scripter, Morton W., "Choropleth Maps on Small Digital Computers," Proceedings of the Association of American Geographers, Vol. 1 (1969), pp. 133-136.

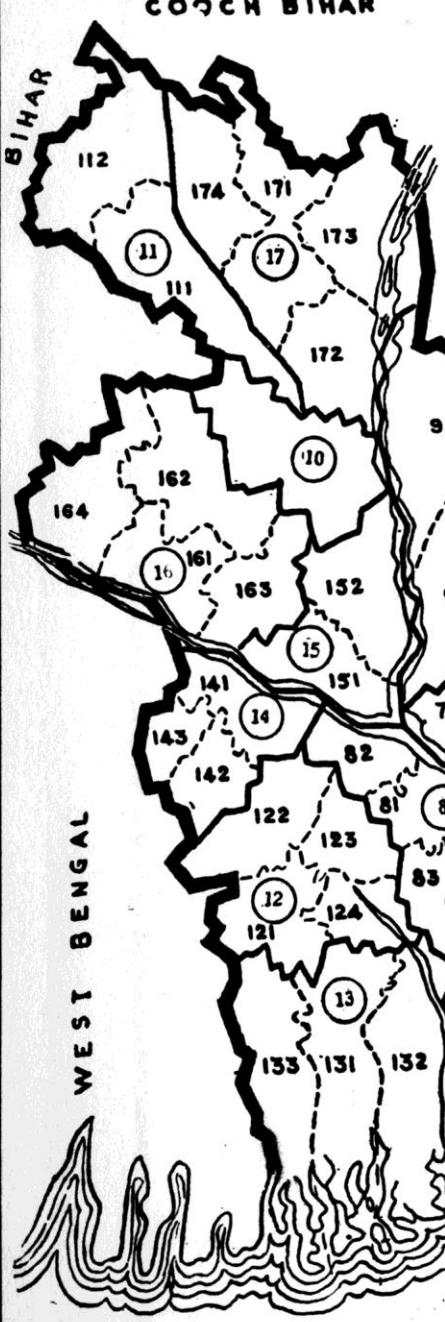
Date

Revised Foreword

Date

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# EAST BENGAL ADMINISTRATIVE MAP SHOWING DISTS. & SUB-DIVS.

*Key to Districts  
and Subdivisions.*

- 1) CHITTAGONG  
11 Sadar Subdivision  
12 Cox's Bazar "
- 2) CHITTAGONG HILL TRACTS  
21 Sadar Subdivision  
22 Bandarban "  
23 Ramgarh "
- 3) NOAKHALI  
31 Sadar Subdivision  
32 Feni "
- 4) SYLHET  
41 Sadar Subdivision  
42 Habiganj "  
43 South Sylhet (Moulvibazar) "  
44 Sunamganj "
- 5) TIPPERA  
51 Sadar Subdivision  
52 Brahmanbaria "  
53 Chaandpur "
- 6) BAKERGANJ  
61 Sadar Subdivision  
62 Bhola "  
63 Patuakhali "  
64 Pirojpur "
- 7) DACCA  
71 Sadar Subdivision  
72 Narayanganj "  
73 Manikganj "  
74 Munshiganj "
- 8) FARIDPUR  
81 Sadar Subdivision  
82 Goalando "  
83 Gopalganj "  
84 Madaripur "
- 9) MYMENSINGH  
91 Sadar Subdivision  
92 Jamalpur "  
93 Kishoreganj "  
94 Netrakona "  
95 Tangail "
- 10) BOGRA
- 11) DINAJPUR  
111 Sadar Subdivision  
112 Thakurgaon "
- 12) JESSORE  
121 Sadar Subdivision  
122 Jhenaidah "  
123 Magura "  
124 Narail "
- 13) KHULNA  
131 Sadar Subdivision  
132 Bagerhat "  
133 Satkhira "
- 14) KUSHTIA  
141 Sadar Subdivision  
142 Chuadanga "  
143 Meherpur "
- 15) PABNA  
151 Sadar Subdivision  
152 Serajganj "
- 16) RAJSHAHI  
161 Sadar Subdivision  
162 Naogaon "  
163 Natore "  
164 Nawabganj "
- 17) RANGPUR  
171 Sadar Subdivision  
172 Gaibandha "  
173 Kurigram "  
174 Nilphamari "

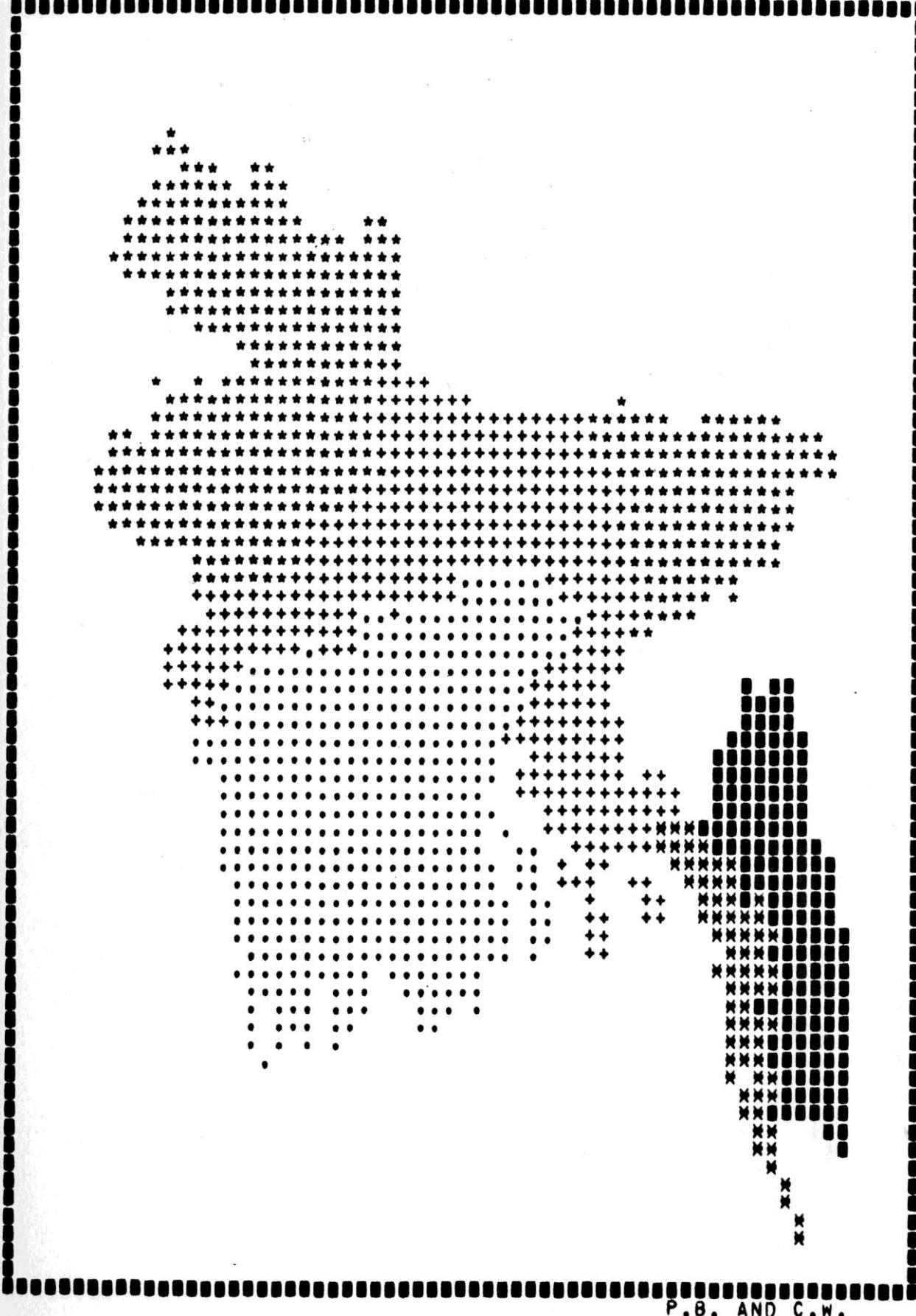
AVERAGE ELEVATION IN EACH DISTRICT  
(FEET)

10.0-24.9	.....
	.....
	.....
	.....
25.0-69.9	+++++
	+++++
	+++++
	+++++
70.0-204.9	*****
	*****
	*****
	*****
205 -609.9	XXXXX
	XXXXX
	XXXXX
	XXXXX
610.0-1825.0	

BASED ON U.S. ARMY MAP SERVICE MAPS AT THE SCALES OF 1:250,000  
AND 1:1,000,000

SCALE: 1:3,168,000

AVERAGE ELEVATION IN EACH DISTRICT



P, B, AND C, W,

RELATIVE RELIEF IN EACH DISTRICT  
(DIFFERENCE BETWEEN LOWEST AND HIGHEST  
ELEVATIONS IN FEET)

0.0-29.9 .....  
.....  
.....  
.....

30.0-119.9 ++++++  
+++++  
+++++  
+++++

120.0-389.9 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

390.0-1199.9 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

1200.0-3620.0 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

BASED ON U.S. ARMY MAP SERVICE MAPS AT THE SCALES OF 1:250,000  
AND 1:1,000,000

SCALE: 1:3,168,000

RELATIVE RELIEF IN EACH DISTRICT



P.B. AND C.W.

AVERAGE ANNUAL TEMPERATURE IN EACH DISTRICT  
(°F)

77.0-77.9        .....

.....  
.....  
.....

78.0-78.9        \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

79.0-80.0        11111  
11111  
11111  
11111

DATA NOT        NNNNN  
AVAILABLE        NNNNN  
                  NNNNN  
                  NNNNN

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

AVERAGE ANNUAL TEMPERATURE IN EACH DISTRICT



P.B. AND C.W.

AVERAGE MONTHLY MAXIMUM TEMPERATURE IN EACH DISTRICT  
(°F)

83.0-84.9      .....

.....  
.....  
.....

85.0-86.9      \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

87.0-88.0      11111  
11111  
11111  
11111

DATE NOT  
AVAILABLE      NNNNN  
NNNNN  
NNNNN  
NNNNN

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

AVERAGE MONTHLY MAXIMUM TEMPERATURE IN EACH DISTRICT



P.B. AND C.W.

AVERAGE MONTHLY MINIMUM TEMPERATURE IN EACH DISTRICT  
(°F)

62.0-63.9      .....

.....  
.....  
.....

64.0-65.9      \*\*\*\*\*

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

66.0-68.0      ██████

██████  
██████  
██████  
██████

DATA NOT      NNNNN  
AVAILABLE      NNNNN  
                NNNNN  
                NNNNN

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

AVERAGE MONTHLY MINIMUM TEMPERATURE IN EACH DISTRICT



P.B. AND C.W.

AVERAGE ANNUAL RAINFALL IN EACH DISTRICT  
(IN INCHES)

55.0-69.9 .....  
.....  
.....  
.....

70.0-84.9 +++++  
+++++  
+++++  
+++++

85.0-99.9 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

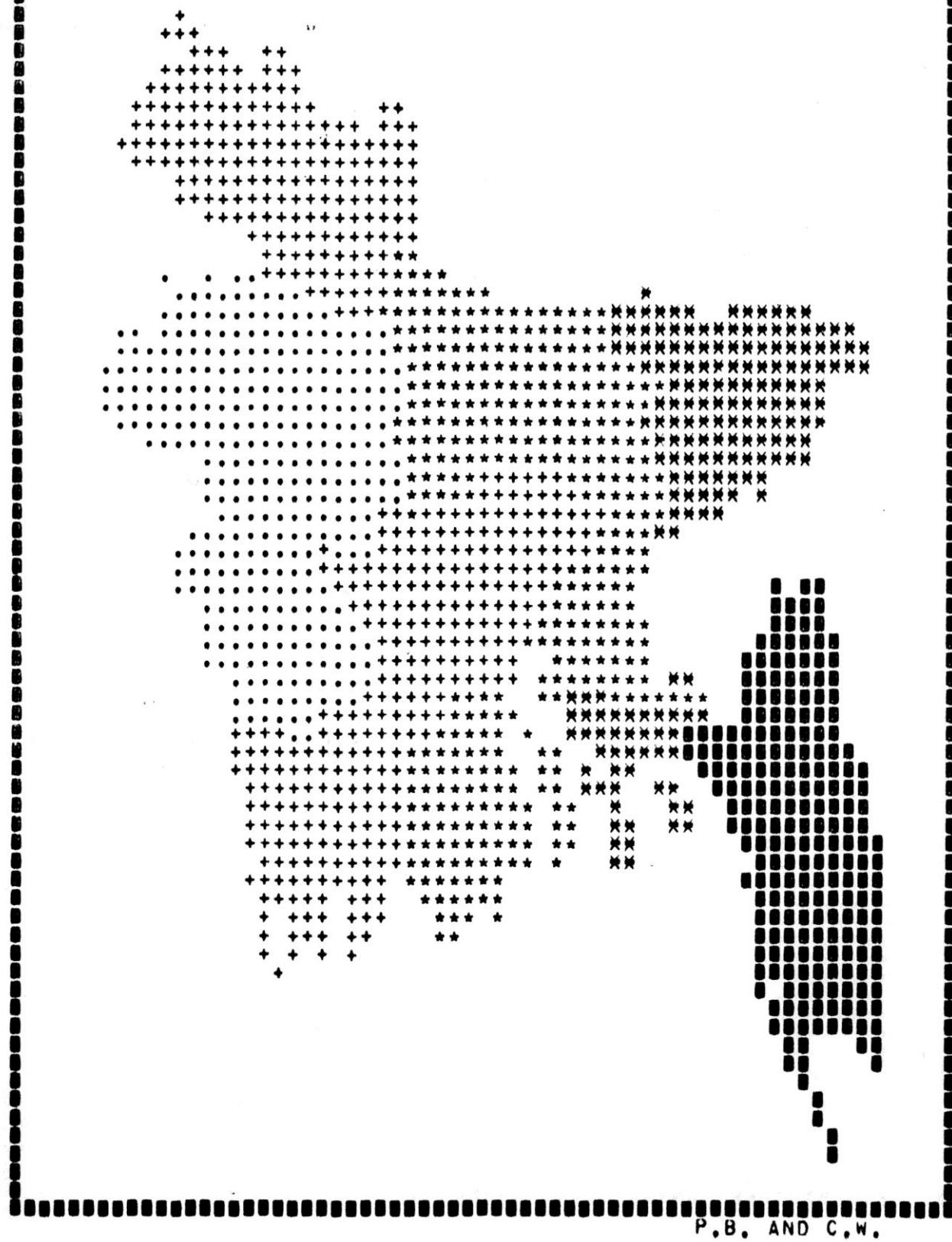
100.0-114.9 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

115+ ██████████  
███████████  
███████████  
███████████

SOURCE: CENSUS OF PAKISTAN, 1951

SCALE: 1:3,168,000

AVERAGE ANNUAL RAINFALL IN EACH DISTRICT



P.B. AND C.W.

PERCENT OF ANNUAL RAINFALL BETWEEN MAY AND OCTOBER BY DISTRICT

82.0-84.9 .....

.....  
.....  
.....

85.0-87.9 +++++

+++++  
+++++  
+++++  
+++++

88.0-90.9 \*\*\*\*\*

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

91.0-94.0 00000

00000  
00000  
00000  
00000

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

PERCENT OF ANNUAL RAINFALL BETWEEN MAY AND OCTOBER BY DISTRICT



P.B. AND C.W.

PERCENT OF DISTRICT COVERED BY ALLUVIAL SOILS

1.0	.....
	.....
	.....
	.....
30.0	+++++
	+++++
	+++++
	+++++
80.0-89.9	*****
	*****
	*****
	*****
90.0-99.9	XXXXX
	XXXXX
	XXXXX
	XXXXX
100.0	

BASED ON THE GEOLOGICAL MAP OF INDIA BY THE GEOLOGICAL SURVEY,  
1949

SCALE: 1:3,168,000

PERCENT OF DISTRICT COVERED BY ALLUVIAL SOILS



P.B. AND C.W.

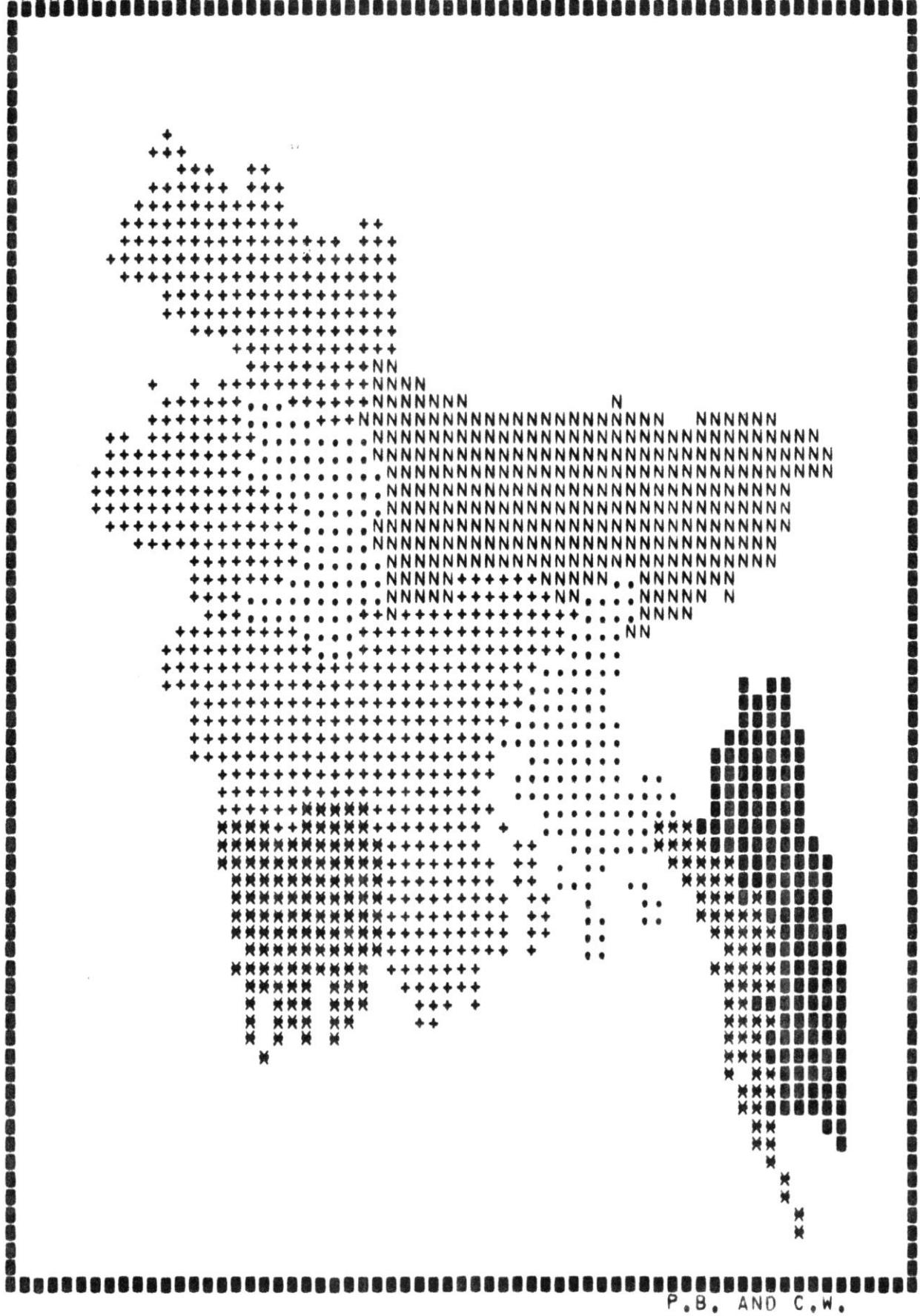
PERCENT OF LAND IN FORESTS AND MANGROVES BY DISTRICT, 1951

0.0-1.0	.....
	.....
	.....
	.....
1.1-5.0	+++++
	+++++
	+++++
	+++++
40.0-55.0	XXXXX
	XXXXX
	XXXXX
	XXXXX
85.0-100.0	

SOURCE: CENSUS OF PAKISTAN, 1951, VOL. 3

SCALE: 1:3,168,000

PERCENT OF LAND IN FORESTS AND MANGROVES BY DISTRICT, 1951



P.B. AND C.W.

PERCENT OF LAND CULTIVATED IN EACH DISTRICT, 1951

40.0-50.0	.....
	.....
	.....
	.....
60.0-69.9	+++++
	+++++
	+++++
	+++++
70.0-79.9	*****
	*****
	*****
	*****
80.0-90.0	
DATA NOT AVAILABLE	NNNNN
	NNNNN
	NNNNN
	NNNNN

SOURCE: CENSUS OF PAKISTAN, 1951, VOL. 3

SCALE: 1:3,168,000

PERCENT OF LAND CULTIVATED IN EACH DISTRICT, 1951



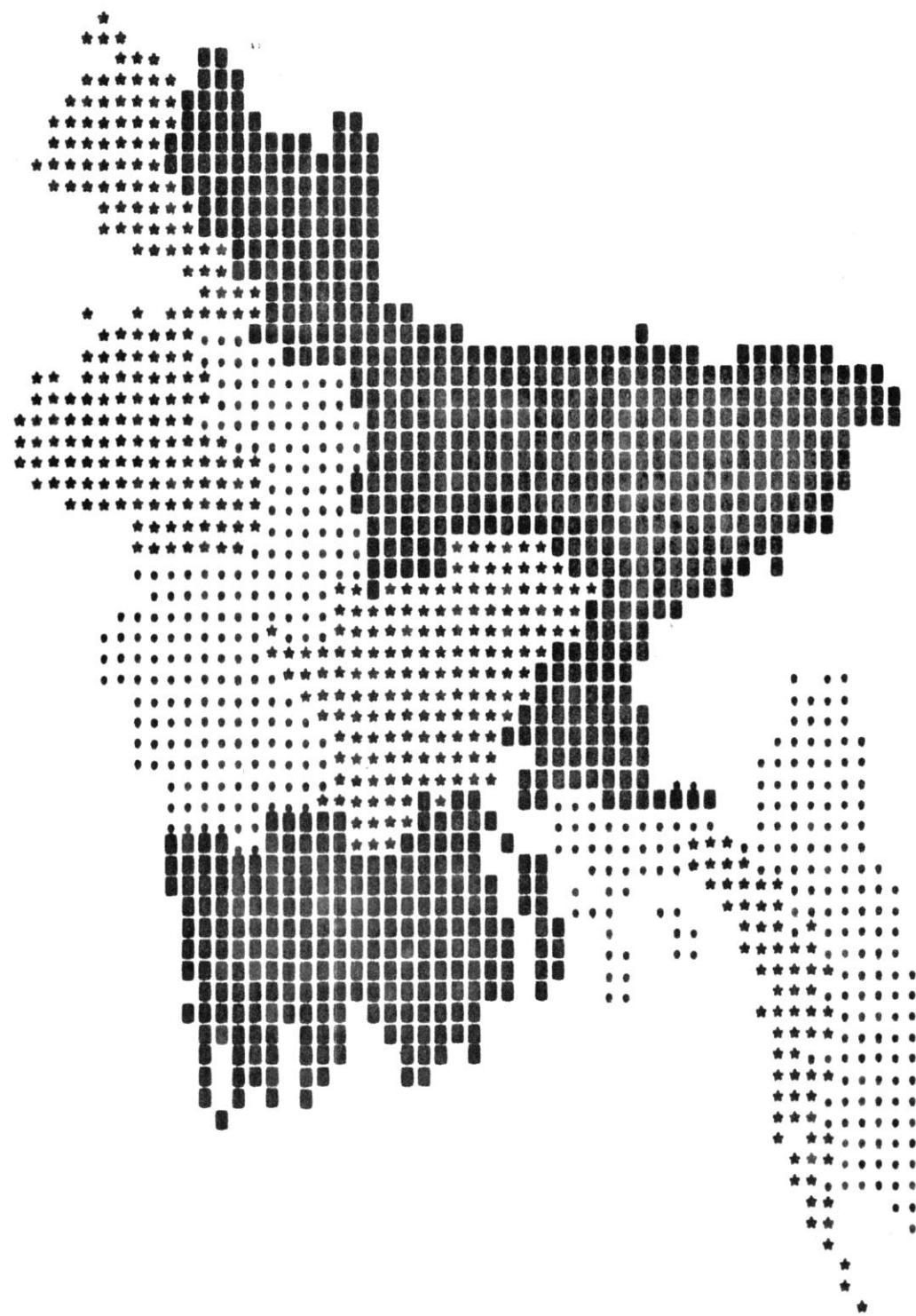
RICE CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

200,000-849,999	.....
	.....
	.....
	.....
850,000-1,499,990	*****
	*****
	*****
	*****
1,500,000-3,000,000	

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1,3,168,000

RICE CULTIVATION IN EACH DISTRICT, 1959-60



P.B. AND C.W.

WHEAT CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

4000-9999 .....

.....  
.....  
.....  
.....

10000-10000 \*\*\*\*\*  
19999 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

20000-25000 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

NONE \*\*\*\*\*  
REPORTED \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000



P.B. AND C.W.

PULSE CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

1-999	.....
	.....
	.....
	.....
1000-9999	+++++
	+++++
	+++++
	+++++
10000-29999	XXXXX
	XXXXX
	XXXXX
	XXXXX
30000-60000	
NONE	
REPORTED	

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

PULSE CULTIVATION, 1959-60



P.B. AND C.W.

OIL SEED CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

3500-7999	.....
	.....
	.....
	.....
8000-16999	+++++
	+++++
	+++++
	+++++
17000-34999	*****
	*****
	*****
	*****
35000-71000	XXXXX
	XXXXX
	XXXXX
	XXXXX
71000-143000	

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

OIL SEED CULTIVATION IN EACH DISTRICT & 1859-60



P.B. AND C.W.

TOBACCO CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

1-1999 +++++

+++++

+++++

+++++

2000-3999 \*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

4000-65000 \*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

NONE \*\*\*\*\*

REPORTED \*\*\*\*\*

\*\*\*\*\*

\*\*\*\*\*

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

TOBACCO CULTIVATION IN EACH DISTRICT 1959-60



P.B. AND C.W.

SUGAR CANE CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

1000-4999 .....  
.....  
.....  
.....

5000-12999 +++++  
+++++  
+++++  
+++++

13000-28999 \*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

29000-61000 11111  
11111  
11111  
11111

NONE RRRRR  
REPORTED RRRRR  
RRRRR  
RRRRR

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

SUGAR CANE CULTIVATION IN EACH DISTRICT, 1959-60



P.B. AND C.W.

JUTE CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

15000-49999 .....

.....  
.....  
.....

50000-154999 \*\*\*\*\*

\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*  
\*\*\*\*\*

155000-470000 

NONE   
REPORTED   
  


SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

JUTE CULTIVATION, 1959-60



P.B. AND C.W.

TEA CULTIVATION IN EACH DISTRICT, 1959-60  
(ACRES UNDER CULTIVATION)

1-5000      +++++  
                +++++  
                +++++  
                +++++

5000-73000    ■■■■■  
                ■■■■■  
                ■■■■■  
                ■■■■■

NONE      #####  
REPORTED    #####  
                #####  
                #####

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,168,000

TEA CULTIVATION IN EACH DISTRICT: 1959-60



P.B. AND C.W.

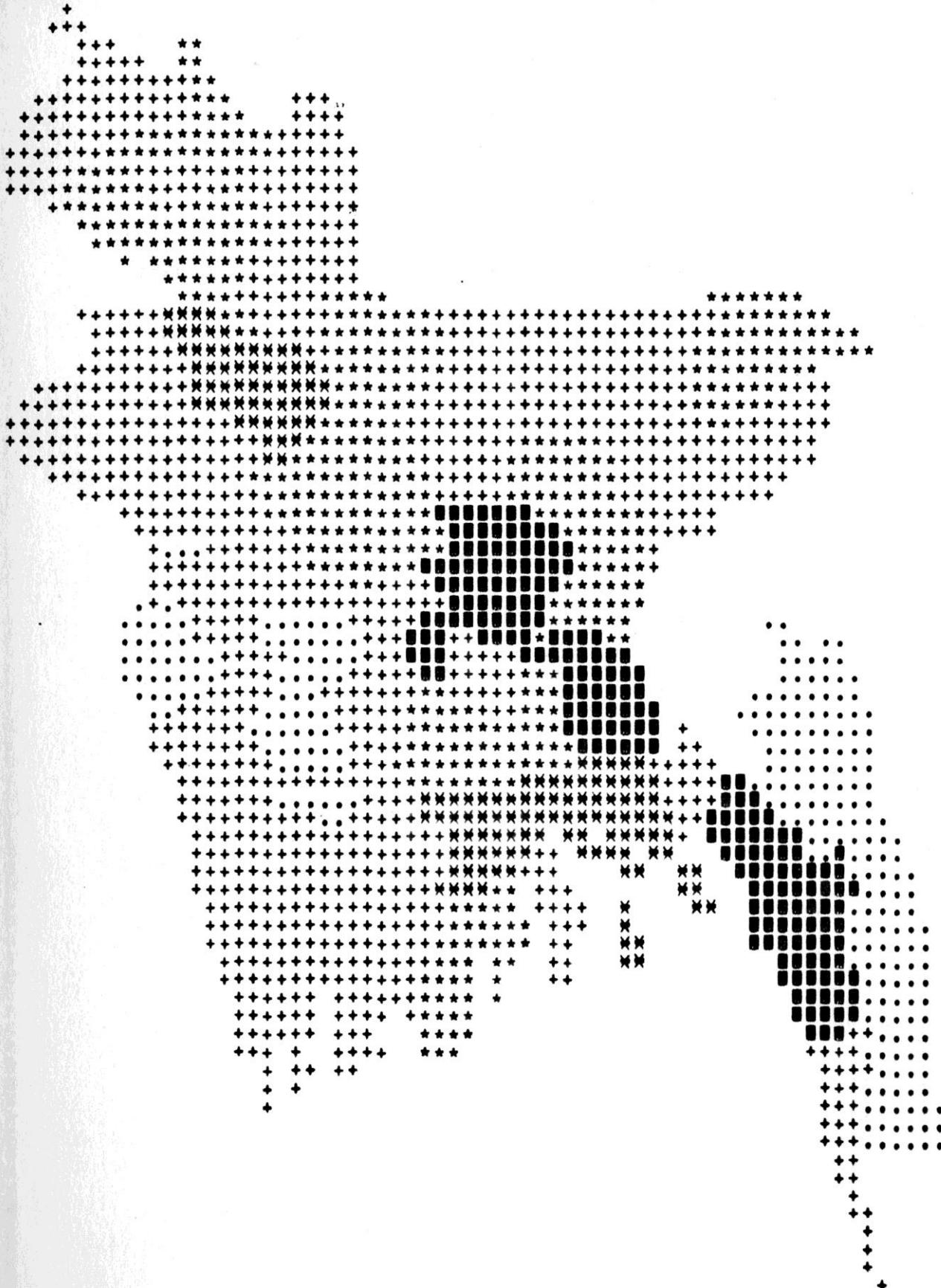
NUMBER OF PERSON IN EACH SUBDIVISION, 1961

80,000-499,999	.....
	.....
	.....
	.....
500,000-999,999	+++++
	+++++
	+++++
	+++++
1,000,000-1,499,999	*****
	*****
	*****
	*****
1,500,000-1,999,999	*****
	*****
	*****
	*****
2,000,000-3,000,000	

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,755,000

NUMBER OF PERSONS IN EACH SUB-DIVISION, 1961



P.B. AND C.W.

PERSONS PER SQUARE MILE IN EACH SUBDIVISION, 1961

40-499	.....
	.....
	.....
	.....
500-999	+++++
	+++++
	+++++
	+++++
1000-1499	*****
	*****
	*****
	*****
1500-2499	XXXXX
	XXXXX
	XXXXX
	XXXXX
2500-4500	

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,755,000

PERSONS PER SQUARE MILE IN EACH SUBDIVISION 1961



P.B. AND C.W.

FARMERS (CULTIVATORS AND OTHER AGRICULTURISTS)  
AS PERCENT OF TOTAL LABOR FORCES, BY DIVISION, 1961

50.-64.	.....
	.....
	.....
	.....
65.-74.	+++++
	+++++
	+++++
	+++++
75.-84.	XXXXX
	XXXXX
	XXXXX
	XXXXX
85.-95.	

SOURCE: CENSUS OF PAKISTAN

SCALE: 1:3,755,000

FARMERS AS PERCENT OF TOTAL LABOR FORCE, BY SUBDIVISION, 1961



P.B. AND C.W.

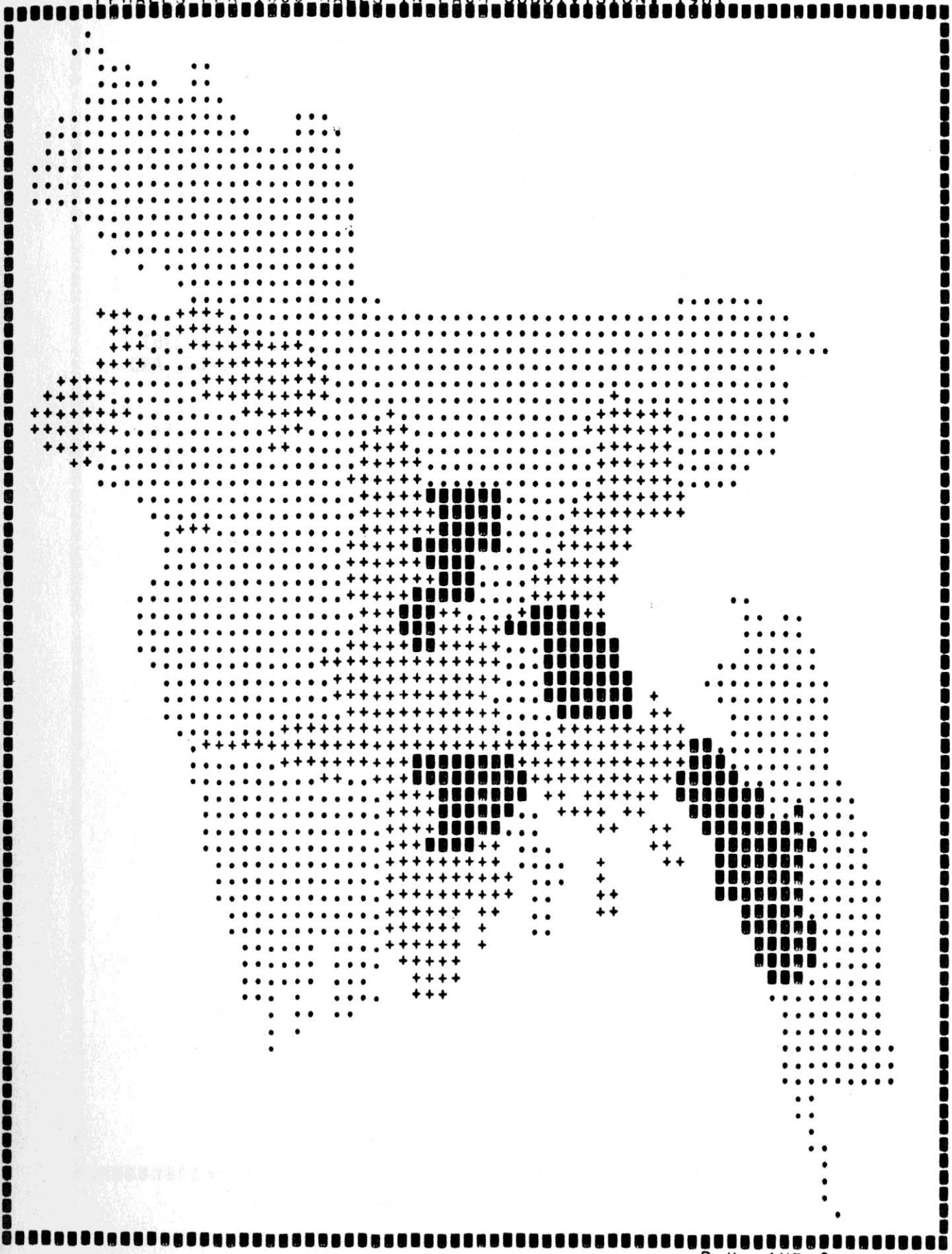
FEMALES PER 1000 MALES IN EACH SUBDIVISION, 1961

700-949	.....
	.....
	.....
	.....
950-1249	+++++
	+++++
	+++++
	+++++
1250-1950	

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,755,000

FEMALES PER 1000 MALES IN EACH SUBDIVISION, 1961



P.H. AND C.W.

DENSITY OF MAJOR LAND ROUTES IN EACH DISTRICT, 1961  
(NUMBER OF METALLED ROADS, MAJOR UNMETALLED ROADS, AND  
RAILWAYS PER SQUARE MILE)

.03-.07 .....

.....  
.....  
.....

.08-.13 +++++

+++++  
+++++  
+++++  
+++++

.14-.20 ████  
█████  
█████  
█████

SOURCE: CENSUS OF PAKISTAN, 1961

SCALE: 1:3,165,000

DENSITY OF MAJOR LAND ROUTES IN EACH DISTRICT 1961



P.B. AND C.W.

#### OTHER PUBLICATIONS IN THE SERIES

Publication No. 1: "Computer Assisted Instruction Programs in Geography:Five Climate Programs" by Paul R. Baumann

Publication No. 2: "Water Balance Atlas of New York State" by Paul R. Baumann

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