GAZETTEER

PUNJAB

ROVINCIAL VOLUME.

1888-9.



Compiled and Published under the authority of the PUNJAB GOVERNMENT.

CALCUTTA:

PRINTED BY THE CALCUTTA CENTRAL PRESS COMPANY, LIMITED, 5, COUNCIL HOUSE STREET.

PREFACE.

The period allowed by the Punjab Government for the compilation of the Gazetteer of the Province was fixed at twelve months, within which time the Editor was to compile, publish in draft, revise, and publish in its final form a separate volume for each of thirty-one districts. It may readily be supposed that the scheme did not include the preparation of an account of the Province, brief but complete in itself, which, condensed from the more detailed district accounts into the limits, of a single volume, might properly be called the Provincial Volume of the series.

At the same time it was found, as the compilation of the several district volumes went on, that there were certain subjects which could not properly be treated in them, and which it would be scarcely possible to notice at all, unless some portion of the series assumed a more or less general form. Geology could not be discussed intelligently save for the Punjab as a whole; the great railways and canals pass through many districts; some of our public institutions belong to the Province, rather than to the district in which accident has placed their buildings; and so forth.

Again, while the Gazetteer was in process of compilation, the Punjab Administration Report for 1882-83 appeared. Circumstances combined to give it a very special character. Not only did it include those sections of the report which are ordinarily written only every five years, but it was the first report for ten years in which these sections had been included. The report on the Census of 1881, moreover, had just been published. Accordingly much pains had been taken to render the more permanent portions of the Administration Report complete in themselves, and of lasting interest and value. These portions have been transferred almost bodily to the present volume.

Thus the Provincial Volume of the Gazetteer series is in no manner or degree a Gazetteer of the Province. It consists of a series of fragments, complete in themselves, so far as the necessary limitations of the work furnish, but covering only a small portion of the field which a complete Gazetteer should embrace. The lacunæ lie in the list of subjects treated, rather than in the treatment of individual subjects. The Volume will be a useful, and indeed a necessary, supplement to the district volumes of the series; while some portions of it are not wholly devoid of general interest.

Acknowledgments are due to the following gentlemen, who have contributed the sections noted against their respective names:—

. Mr. Denzil Ibbetson. Description of the Province MR. H. B. MEDLICOTT. Geology Mr. W. R. H. Merk, c.s.i. History Mr. Denzil Ibbetson. Statistical and Social Land Tenures Mr. D. G. BARKLEY. Mr. Baden-Powell, c.i.e. Industries and Manufactures System of Public Instruction Mr. Pearson. MR. E. W. PARKER. The Punjab University Literary Societies -Punjab Railways CAPT. PITT, R.E. Canals Mr. CATTON.

The Volume, though completely compiled by the Editor, has been passed through the press by Mr. M. W. Fenton.

THE EDITOR.

CONTENTS

	Page.
CHAP. I.—THE PROVINCE	1
II.—GEOLOGY	22
A:-Introductory	22
B.—THE ARAVALI REGION	24
C.—The Plains	27
D.—THE SALT RANGE AND ITS WESTERN EXTENSION	35
E.—Himalayan District—Tertiaries F.—Himalayan District—The Mountain Regions	, 44 ·
F.—HIMALAYAN DISTRICT—THE MOUNTAIN REGIONS	58
G.—The Afghan Region	72 78
H.—THE SULEMAN RANGE	10
" III—HISTORY	,. 80
" IV.—THE PEOPLE.	· 110
A.—STATISTICAL	110
B.—Social	121
C.—LAND TENURES	, _. 135
" V.—INDUSTRIES	142
" VI.—EDUCATION	158
A System of Public Instruction	158
B.—THE PUNJAR UNIVERSITY	166
C.—Schools And Colleges	175
D.—LITERARY SOCIETIES	185
" VII.—POLITICAL	: 190
A.—NATIVE STATES	190
B.—The Frontier	192
" VIII.—PUBLIC WORKS	195
A.—Punjab Northern State Railway	195
BNorth-Western State Railway .	209
C.—Indus Valley State Railway	221
D.—MINOR AND PROJECTED RAILWAYS	228
E — THE BARI DOAB CANAL F.—THE SIRHIND CANAL	236 240
G.—The Western Jumna Canal	249
STATISTICAL TABLES	260
CHAPTER I.—THE PROVINCE.	•
Introductory—Position, Shape and Size	1
Boundaries—Political Divisions, Area, and Population	2
Mountain Systems—The Sulemans—The Aravalis—The Himala	
The Western Himalayas—The Mid-Himalayas—The Outer-Him	alayas 4
The Hills of Simla and Hazára—The Siwáliks—The Salt Ram	ge and the
Pesháwar Hills	5
The River System—The Jumna—The Area of closed drainage—	The Indus 6

The state of the s	age.
The Sutlej-The Chenab-The Beas and Ravi-The Jhelum-The Distri-	•
bution of the Punjab Rivers	7
The Punjab Plains	8
The Punjab Plains—Rainfall Painfall Temporature and Climate	9
Rainfall—Temperature and Climate Temperature and Climate—Natural Divisions of the Province	10
Natural Divisions of the Province—The Himalayan Tract	11
The Submontane Tract—The Eastern Plains	12 13
The Eastern Plains—Ethnography of the Eastern Plains	14
Ethnography of the Eastern Plains-The Western Plains	15
The Western Plains—Natural Divisions of the Western Plains	16
Natural Divisions of the Western Plains-Ethnography of the Western	
Plains—The Salt Range Tract	17
The Salt Range Tract—Ethnography of the Salt Range Tract	18
Ethnography of the Salt Range Tract—Summary of the above with leading Statistics	10
	19 21-(
building of the above with leading buttered	1-41
· · · · · · · · · · · · · · · · · · ·	
CHAPTER II.—GEOLOGY.	
Section A.—Introductory—	•
Geography dependent on geology-Postulates of geology-Main geologi-	
cal regions of India	22
The Punjab Plains—The Punjab Mountains—The extra-peninsular moun-	
tain region of the Punjab-The non-parallelism of its mountain	
ranges discussed	23
The non-parallelism of its mountain ranges discussed-The peninsular	
rock-system extends beneath the Punjab plains	24
Section B.—The Aravali Region—	
· · · · · · · · · · · · · · · · · · ·	٠.
Limits of the Aravali Region Limits of the Aravali Region—The Aravali and Delhi rock-systems—Age	24
of the Aravali system. Lower limit	25
Age of the Aravali system. Lower limit—The gneiss of the Aravali	20
Region—The Vindhyan system—Age of the Aravali system. Upper	
limit—Intrusion of the extra-peninsular system	26
•	
Section C.—The Plains—	
Sources of the Punjab sands—Formation of the Punjab plains	27
Formation of the Punjab plains—North (and south slope of the Punjab plains—Erosion of the present valleys of the Punjab rivers. The	
plains—Erosion of the present valleys of the Punjab rivers. The Bar and western plains	28
Erosion of the present valleys of the Punjab rivers. The Bar and western	23
plains—The Thal—The area of closed drainage. Eastern plains	29
The area of closed drainage. Eastern plains—The rivers have only	
recently ceased to deposit and begun to erode—Saline nature of the	
well water in the area of closed drainage—Submontane tract. Absence	
of the Tarai zone	30
The Tarai only recently disappeared—The underlying deposits of the Pun-	01
jab plains	31
Formation of tertiary fluviatile deposits in the plains area—Effect of the upheaval which raised the Siwahks upon the underlying deposits of	
the plains	32
gramma, 111	_

· vii	
·	age.
Effect of the upheaval which raised the Siwaliks upon the underlying deposits of the plains—Practical importance of the question. Siwalik upheaval probably very limited in its effects Siwalik upheaval probably very limited in its effects—Artesian boring at Ambala—Inconclusive nature of the results—Changes of level conse-	33
quent upon transfer of matter from the mountains to the plains disturbing local equilibrium Changes of level consequent upon transfer of matter from the mountains	34
to the plains disturbing local equilibrium	35
Section D.—The Salt Range and its Western Extension—	-
The three divisions of the Salt Range—Their geological formation Their geological formation—Speculation as to the geological history of the	35
Nature of the evidence; and difficulty of the enquiry into the structure of the region—Saline series—Outturn and quality of salt—Potassium	36
salt Bitumen—Volcanic tufa—Saponaceous clay—Trans-Indus salt—Alum—	. 37
The Kohat salt more recent than the Jhelum salt Extent of the trans-Indus Salt beds—Purple sandstone—Obolus zone—	38
Magnesian sandstone—Speckled sandstone Salt-pseudomorph zone—Carboniferous and triassic limestones, &c.—	39
Jurassic	40
Cretaceous—Eccene—Coal Coal—Limestones—Kohat eccene	41 42
Kohat eocene—General view of the pre-tertiary series	43
General view of the pre-tertiary series	44
Section E.—Himalayan District—Tertiaries—	
Punjab Himalaya peculiarly interesting; due to its terminal position in	
the range	44
Extinction of the lower Himalayan region a structural feature—Fourfold division of the ground—Sub-Himalayan tertiary region how pro-	
duced ' Partial pre-tertiary elevation—Composition of the tertiary series—Deriva-	45
tion from Himalayan ground	46
Original discovery of lower and upper tertiary groups—Tertiary outlier in	
lower Himalayan region—Original relations Steep abrupt junctions—Crucial section at Subatha : pre-tertiary Himala-	47
yan elevation Did not involve contortion here—Probable original limit of basin— Subtitle Deschoi and Kessuli groups a Simour socies	48 49
Subáthú, Dagshai, and Kasauli groups: Sirmur series Subáthú, Dagshai, and Kasauli groups: Sirmur series—Middle tertiary; Náhan group—The Náhan-Siwálik boundary	50
The Nahan-Sirmur boundary—Difficulty as to fossils Difficulty as to fossils—Lost vertebrate fossils of Subathú and Nahan—	51
Original confusion of horizons	, 52
Original confusion of horizons—Probable explanation	53
Probable explanation—Change of the leading structural features—Leading	K 4
structural features of the western area Leading structural features of the western area—The Sirmur zone between the Sutlej and Ravi	54 55
The Sirmur zone between the Sutlej and Ravi—The question to be solved	56
The factions gone in James	57

•	\boldsymbol{P}	age.
Section F.—Himalayan District—The Mountain Regions—		٠.
Two main rock series—The lower Himalayan series		58
Want of fossils-Distribution of the Krol rocks	•••	59
Section at Simla-Trap rocks-Relation of the slate and gneissic ser	ries	
doubtful	•••	60
Relation of the slate and gneissic series doubtful—What is the axis the Himalayas	s of	
The interpretation of watersheds	•••	61 62
The interpretation of watersheds—An imaginary Himalayan axis	•••	63
An imaginary Himalayan axis—The granite	•••	64
The granite—The gneissic rocks	•••	65
The gneissic rocks—Granitoid gneiss or gneissose granite	•••	66
Granitoid gneiss or gneissose granite—Age of gneissose granite	•••	67
Age of gneissose granite—Peculiar metamorphism in the Simla region The trans-Himalayan region	•••	68 69
The Spiti section	•••	70
The Spiti section—The tertiary rocks of the Upper Indus Valley	•••	71
Conclusion regarding the history of the Himalayas	•••	72
G. H. a. G. M. a. A.C. C. Davier		
Section G—The Afghan Region—		
The Afghan Region	•••	72
The Afghan Region—The gneiss	•••	73
The Sirban section—The older sedimentary rocks The older sedimentary rocks—General distribution	•••	74 75
General distribution—The Pesháwar depression	•••	76
The tertiary basin	77	7-78
Section H.—The Suleman Range—		
	71	9 70
The Suleman Range	40	3-79
CHAPTER III.—HISTORY.		
The Moghal occupation and rise of the Sikhs	86	0-81
The Sikh Confederacy	•••	82
The rise of Ranjit Singh-His early relations with the British	•••	83
His early relations with the British—He extends his dominions	•••	84
He extends his dominions	•	85
His closer relations with the British—Death of Ranjit Singh Death of Ranjit Singh—Events subsequent to Ranjit Singh's death	•••	86 87
Events subsequent to Ranjit Singh's death		8-89
Events subsequent to Ranjit Singh's death—First Punjab Campaign	•••	90
First Punjab Campaign—Second Punjab Campaign	***	91
Second Punjab Campaign	. •••	92
Second Punjab Campaign—Annexation of the Punjab—Form of Ad	imı-	93
nistration adopted Form of Administration adopted—Laws framed and other meas	nros	93
introduced	uics	94
Laws framed and other measures introduced—Appointment of a C	hief	
Commissioner	•••	95
Appointment of a Chief Commissioner—The Sepoy Mutiny	•••	96
The Sepoy Mutiny	•••	97
The Sepoy Mutiny—Measures taken for the tranquillity of the Province	e	98
Measures taken for the tranquillity of the Province-Abstention of	éппа	99
Punjabis from the rising of 1857		27 41

	-	Page.
	Abstention of the Punjabis from the rising of 1857-Events subsequent	•
	to the Mutiny Events subsequent to the Mutiny—Noteworthy incidents during past 17	100
	30025	101 102
	Noteworthy incidents during past 17 years—Frontier Tribes	103
		104
	Pacification of the Frontier Tribes Pacification of the Frontier Tribes—Subsequent relations, and border	105
		106
		-109
	CHAPTER IV.—THE PEOPLE.	
Sec	etion A.—Statistical—	
		110
	Distribution over Towns and Villages - Distribution over Area - Distribu-	
•	Migration and Birth-place—Course of Migration in the Punjab	112
	Course of Migration in the Punjab	113
	Course of Migration in the Punjab—Tendency of the Urban Population to concentration, and of the Rural to dispersion—Increase and Decrease	
	of Population	114
	Increase and Decrease of Population—The Ages of the People—The Civil	115
		115 116
	The Propertion of the Sexes—The Occupations of the People	117
	The Occupations of the People	118
		119 120
•		121
900	, `	
Dec	tion B.—Social— The Religions of the People	121
	The Religions of the People—Local Distribution of Religions	122
	Local Distribution of Religions—Composition of Religions by Caste—	
		123
	Local Distribution of Languages—The Castes and Tribes of the Punjab	$\frac{124}{125}$
	The Castes and Tribes of the Punjab—The Páthan, Bilúch and allied	
	Races—The Bilúch	126
	The Bilúch—The Patháns—Allied races—The Jat, Rájpút and allied Castes The Jat, Rájpút and allied Castes—The Jat—The Rájpúts	127 - 128
	The Rajputs—Castes allied to the Rajputs—The Gujar—Minor Dominant	129
	Minor Dominant Tribes—The Minor Agricultural and Pastoral Tribes	130
	Foreign Races-The Priestly Classes and Ascetic Orders-The Minor	
	Professional Castes The Mercantile Castes—The Pedlers and Carriers—The Vagrant, Menial	131
_		132
;	The Vagrant, Menial and Artizan Castes-The Vagrant and Criminal	_~4
	Castes—The Scavenger Castes	133
	The Leather-workers and Weavers-Watermen, Boatmen and Cooks-Other Artizans	194
	771 . 3.5 · 1 · 6 · 1 · 2 · 11	134 135

- 1	Page.
Section C.—Land Tenures—	
General Tenures—Proprietorships—Releases—Rights of Pre-emption Zamı́ndári Tenures—Separate Holdings—Pattidári Tenures—Redistribution of Pattidári Tenures. Pathán system of Vesh Redistribution of Pattidári Tenures. Pathán system of Vesh—Village Communities Village Communities—Quit-rent Payments—Inferior Proprietors Chakdárs and Sılladárs—Tenant's Tenures—Size of Holdings	137
CHAPTER V.—INDUSTRIES.	
Period to which this Review applies—Effect of the European revival of	142
Effect of the European revival of Art on the Punjab Manufactures— Difficulties to be overcome—The Manufactures of the Punjab—All	ĺ
The Manufactures of the Punjab-All handicrafts-Division of Labour	144 145
Localization of Manufactures—Trade Secrets in Families—Trade Dialects	146
Trade Dialects and Nomenclature—Caste and Religion as effecting Manufactures—Review of the Chief Classes of Manufactures—Cotton Fabrics (woven)	1 147
Cotton Fabrics (woven)—Cotton Carpets—Cotton-prints Cotton-prints—Silk fabric weaving—Silk-rearing in Gurdáspur and Kángra	148
The Patoli, or Silk-net and Fringe-maker—Woollen Manufactures—	149 150
DIINAID-I INITI INDIAN OF INTERNAL TOTAL	151
Cane and Basket work Metal work (Brass and Copper)—Cutlery and Gunsmith's work—Damas-	. 152 -
Damascening—Gold and Silver ornaments for personal wear—Gold wire-	. 153 . 154
	155
General Remarks	. 156 . 157
CHAPTER VI.—EDUCATION.	
Section A.—System of Public Instruction—	
Establishment of the Education Department—Early Statistics of Indigenous Education—Organization of Public Instruction Projudices of the People against the Government System—Choice of the	. 100
Urdu Language in the Persian Character—Question of the applica-	-

. ,	Page.
Important change in 1860 in the System—Progress of Education from 1860 to 1870—Effect of the Decentralization Scheme of 1871	16.0
Further Development of the Educational System of the Punjab—Brief Notice of Important Measures subsequent to 1871—Progress of Edu- cation from 1871 to 1883	161
Progress of Education from 1871 to 1883—History of the Punjab University	162
History of the Punjab University—Organization of Schools for General Education	163
	164
Indigenous Schools - 165	-166
Section B.—The Punjab University—	
	166 -168
Sanction to the Punjab University College	169
Sanction to the Punjab University College—The Punjab University College	
	170 171
	172
	173
	-175
Section C.—Schools and Colleges—	
	-176
	177
	178
	179
	180
Mayo School of Art, Lahore—Elementary Training—Advanced Instruction	
	182 183
	184
DRIFTOLG A COCULTURAL DOCTOOL	TOT
Section D.—Literary Societies—	
	185
The Anjuman-i-Punjab—The Guru Singh Sabha—Anjuman-i-Islamia, Lahore—Sat Sabha, Lahore—Anjuman-i-Hamdardi Islamia, Lahore	186
Hindú Sabha, Lahore—Sanskrit Prachárini Sabha, Lahore—Bhásha	
Prachárini Sabha, Lahore—Anjuman-i-Himáyat Urdu, Lahore—The	. ,
Indian Association, Lahore—Anjuman-i-Kasúr—Anjuman-i-Farzán-	
i-A'm, Gujránwála—Anjuman-i-Íslámia, Gujránwála—Social Club,	
Ferozepore	187
Anjuman Islamia, Amritsar—Majlis Islamia, Amritsar—Hindú Sabha,	
Amritsar—Majlis Akhlaqia, Amritsar—Arya Samaj, Amritsar— Union Council, Amritsar—Singh Sabha, Amritsar—Anjuman-i-	•
Rafáh-i-A'm, Ludhiána—Bhariti Sabha, Dera Ismail Khan—Anju-	
man-i-Pesháwar, Pesháwar—Anjuman-i-Hazára, Hazára—Anjuman	
	188
Aniuman Islámia, Delhi—St. Stephen's Club, Delhi	189

	Page.
CHAPTER VII.—POLITICAL.	
Section A.—Native States—	
37 11 C	190
TO 11 1 TO COLLA 1 NO.	191
Section B.—The Frontier—	
T (1) T (1) T (1)	100
Principal Frontier Tribes Principal Frontier Tribes—The Bilúch-Afghán Boundary. The extreme	192
	193
The Biluch-Afghan Boundary. The extreme difference between these	1
	194
CHAPTER VIII.—PUBLIC WORKS.	•
Section A.—Punjab Northern State Railway— Early narrow gauge line—Reconstruction on the broad gauge—Financial	
	195
Dates of opening and lengths of Sections-Results of change of gauge-	
	196
	197
The Kohat Branch—The Salt Branch—Head-quarters at Rawalpindi—	198
Open mileage. Capital expended and cost per mile	199
Profits of Working and Statistics	200
Profits of Working and Statistics-General description of bridges on	
P. N. S. Ry. Principles on which designed—Alexandra Bridge across the Chenab—	201
	202
Operations completed—Stone protection for the Piers—Final completion	•
and total cost—Subsequent shortening of the bridge	203
The Ravi Bridge-History of the work-Opened for narrow gauge	904
traffic—Change to broad gauge Cost of the bridge—The Jhelum Bridge—Operations begun—Operations	204
	205
Metre gauge traffic at first-Cost of the bridge-The Attock Bridge over	
	206
Design of the bridge—Road Subway and Guard House—Operations begun	207
Operations begun—Erection of girders—Bridge opened for traffic—Cost	
m that D North William Chata Dalland	
Section B.—North-Western State Railway—	
The Sind Railway—The Steam Flotilla established—The Punjab Rail-	209
way—The Delhi Railway—Amalgamation Contract between Government and the Company—Sind Section and Indus	203
Flotilla—Punjab Section described	210
Punjab Section described-Delhi Section described-The dates of opening	
the various Sections	211
The dates of opening the various Sections—Gauge of the Railway, Permanent Way, &c.—Damages by floods—Recent extensions of the	
system. Sirhind Canal Railway	212
Recent extensions of the System. Sirhind Canal Railway-Raewind	
Branch—Head-quarters at Lahore—Growth of Traffic	213
Growth of Traffic—Cost of the Railway—Statistics	214

,	Page.
Statistics	215
Statistics-The Sutlej Bridge at Phillour-Location of line-History of	
	216
	217
Damage by floods—The bridge shortened—Description of design—Cost of	
bridge—The Beas Bridge The Beas Bridge—Construction of Bridge—Damage by floods—Cost of	218
Bridge—Protection Works	219
The Jumna Bridge—Description of site—Design of Bridge—Construc-	
tion—Completion—Protection Works	220
Protection Works-Cost of Bridge	221
Section C.—Indus Valley State Railway—	•
Railway substituted for Indus Flotilla—History of the Work-Lengths	•
	221,
	222
The Sind portion of the line—Head quarters—Importance of this line to	
	223
Importance of this line to the Punjab—Mileage open, Capital expended,	001
Profits earned, &c. Mileage open, Capital expended, Profits earned, &c.—The Empress Bridge	224
	225
	226
History of the Work	227
Airders being erected—Bridge completed and opened—Protection for left	
bank—Cost of Bridge	228
Section DMinor and Projected Railways-	•
	228
Patiála State line from Patiála to Rájpúra-Country passed through-	,
Proposed extension to Bhatinda—Amritsar and Pathankot Railway	
History of the Work—Country passed through—Method of construction	
Method of construction—Cost of line—Arrangements for working—	
	231
	. 232 233
Ludhiána-Ferozepore-Bahawalpur-Patiála-Bhatinda Railway	234
Ludhiána-Ferozepore-Bahawalpur-Patiála-Bhatinda Rallway-Delhi-Um-	
balla Railway—Jullundur-Hoshiárpur Railway—Sialkot-Jamu Rail-	
	235
Wazirabad-Jhang Railway	236
Section E.—The Bari Doab Canal—	
	236
	237
Enlargement of the Scheme 238	3-240
Section F.—The Sirhind Canal—	
	240
The Sirhind Canal—First proposal for Canal—Project of 1856, 1862 and	
1868	241
Project of 1856, 1862 and 1868—Description of the Canal—Cost—The	
head-works •	- 242
The head-works—Main Line—Rúpar bridge—Budki super-passage—	243
Siswan super-passage	440

xiv

	Page.
Dohar syphon, Chamkaur regulator and escape—Lower works—Materials used on the Main Line—Workshops Rúpar Jails—Combined Branches—Abohar Branch—Sutlej Navigation Channel Bhatinda Branch—Feeder Line—Lissára Drainage—Sirhind Nallah—Choa Nallah—Patiála Navigation Channel—Kotla Branch Ghaggar Branch—Choa Branch—Western Jumna Navigation Channel—Nature of work on Branches—General nature of foundation on Branches—Supply of labour No irrigation from Main Line—General description of distributing Channels—Minor Rájbahás—Total length of Channels—Area commanded by irrigation and branches	244 245 246 247
Area commanded by irrigation and branches—Plantations—Water-power	, 249 -
Section G.—The Western Jumna Canal—	
The Western Jumna Canal	249
The Western Jumna Canal—The old Canal	250
	251
Present Canal—History of construction	252
	3-25 5
Final Scheme	255
Final Scheme—Financial working 25	3-257