

**SPAIN. WITH A CHAOTER  
BY AN ASSOCIATE OF  
THE SCHOOL OF MINES**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649709779

Spain. With a Chaoter by an Associate of the School of Mines by Wentworth Webster

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.  
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

[www.triestepublishing.com](http://www.triestepublishing.com)

**WENTWORTH WEBSTER**

**SPAIN. WITH A CHAOTER  
BY AN ASSOCIATE OF  
THE SCHOOL OF MINES**



# SPAIN

117311

BY THE

REV. WENTWORTH WEBSTER, M.A. OXON.

WITH A CHAPTER BY AN ASSOCIATE OF THE SCHOOL OF MINES.

*WITH ILLUSTRATIONS.*

**London:**

SAMPSON LOW, MARSTON, SEARLE, & RIVINGTON,  
CROWN BUILDINGS, 188, FLEET STREET.

1882.

*[All rights reserved.]*

LONDON :  
PRINTED BY GILBERT AND RIVINGTON, LIMITED,  
ST. JOHN'S SQUARE.

## P R E F A C E.

THERE is a difficulty in writing a book of this character on Spain, which does not exist, we think, to the same extent with any other European country. In most European nations the official returns and government reports may be accepted as trustworthy, and the compiler has little more to do than to copy them; but in Spain this is far from being always the case. In some instances, from nonchalance and habitual inexactitude, in others, and especially in all matters of finance and taxation, from designed misstatement, all such reports have to be received with caution and scrupulously examined. The reader must remember also that in Spain smuggling and contraband dealing in various forms is carried on to such a vast extent as seriously to vitiate all trade returns. Thus it is

that Spanish statistics can be considered only as approximate truths.

Another difficulty arises from the very varied character of the Spanish provinces. Hardly any statement can be made of one province which is not untrue of another. The ordinary descriptions of Spain present only one, or at most two, types, the Castilian and Andalusian, and utterly neglect all the rest. The provinces of Spain have been well described as divided into "five Irelands" whose habits and modes of thought, political aspirations, and commercial interests and aptitudes, are often utterly opposed to those of the capital. A brief survey of the whole of Spain is attempted in the following pages.

In a work of this kind one other obvious difficulty is to know what to omit. Some well-worn topics will be found to be absent from these pages. No references are made to the great Peninsular War. This can be easily studied in the admirable pages of Sir W. Napier in English, and of Toreno in Spanish, or in compendiums of these, which again are filtered down in every guide-book. For



---

a like reason Prescott's brilliant works are not alluded to.

For the chapter on Geology and Mining the reader is indebted to one of the most distinguished Associates of the School of Mines, who has been recently engaged in practical geological survey and mapping in Spain.

Much also of the present work is due to private information most kindly furnished by Spanish friends of high position in the literary and political world, and with whom some of the subjects treated have been frequently discussed. To these the author offers his warmest and most grateful thanks.

## ANALYTICAL TABLE OF CONTENTS.

### CHAPTER I.

#### THE GEOGRAPHY OF SPAIN.

	PAGE
Boundaries of the Peninsula . . . . .	1
Area and Coast-line . . . . .	2
Six divisions of Spain . . . . .	<i>ib.</i>
<i>Mountain chains :</i>	
Pyrenees . . . . .	3
Cantabrian, Asturian, and Galician mountains . . . . .	4
Leon . . . . .	<i>ib.</i>
Oca, Sierra Moncayo, and Idubeda chains . . . . .	5
Central Plateau and its passes . . . . .	<i>ib.</i>
Culminating water-shed of the Peninsula . . . . .	6
Guadarrama range . . . . .	<i>ib.</i>
Toledan range . . . . .	7
Sierra Morena and passes . . . . .	<i>ib.</i>
Central ranges and river basins . . . . .	8
Sierra Nevada and offshoots . . . . .	<i>ib.</i>
Minor ranges . . . . .	9
<i>Rivers, river basins, and rainfall :</i>	
Five great rivers . . . . .	10
Rivers of Galicia and Asturias . . . . .	11
Basque Provinces . . . . .	12

	PAGE
<i>Rivers, &amp;c. (continued):</i>	
Ebro and its tributaries and canals . . . . .	12
Catalonia, streams of . . . . .	14
Douro and its tributaries . . . . .	15
Tagus " " . . . . .	17
Guadiana " " and lakes . . . . .	19
Guadalquivir, its tributaries, islands, and marismas . . . . .	22
Segura and its irrigation . . . . .	24
Jucar " " . . . . .	25
Guadalaviar or Turia " . . . . .	<i>ib.</i>
Lakes and Albuferas . . . . .	26
Water toponymy . . . . .	27
Comparative table of principal rivers . . . . .	28
Mineral springs and salinas . . . . .	<i>ib.</i>

## CHAPTER II.

## CLIMATE AND PRODUCTIONS.

Five climates of Spain . . . . .	30
Temperature and rainfall of :	
Galicia and the Asturias . . . . .	31
Santander and the Basque Provinces . . . . .	32
Aragon . . . . .	<i>ib.</i>
Catalonia . . . . .	<i>ib.</i>
Valencia . . . . .	34
Alicante . . . . .	<i>ib.</i>
Murcia . . . . .	35
Cartagena to Almeria . . . . .	<i>ib.</i>
Malaga, Motril, Seville, and Cordova . . . . .	<i>ib.</i>
Granada . . . . .	36
Cadiz, Gibraltar, &c. . . . .	<i>ib.</i>
Elevation of Central Plateau . . . . .	<i>ib.</i>
Temperature and rainfall of Madrid, Salamanca, and Soria . . . . .	38
Agricultural products of :	
Galicia and the Asturias . . . . .	39
Basque Provinces and basin of the Ebro . . . . .	40