CONTENTS

PART III

_	TIDD	TERMINET	COTTANTETO	TITALITATOR
к	r, PK		SCIENTIFIC	WKIIINU:

		PAGE
I.	STATE MEDICINE	3
II.	THE PUBLIC HEALTH	9
III.	INTEMPERANCE IN THE LIGHT OF THE COSMIC LAW HENRY I. BOWDITCH, 1872	12
IV.	PREVENTIVE MEDICINE AND THE PHYSICIAN OF THE FUTURE HENRY I. BOWDITCH, 1874	17
V.	THE FILTRATION OF POTABLE WATER	26
VI.	On Some Impurities of Drinking-water Caused by Vegetable Growths	39
VII.	A STUDY OF THE RELATIVE POISONOUS EFFECTS OF COAL AND WATER GAS	47
VIII.	REPORT OF A COMMISSION TO CONSIDER A GENERAL SYSTEM OF DRAINAGE FOR THE VALLEYS OF THE MYSTIC, BLACKSTONE AND CHARLES RIVERS	58
IX.	MICRO-ORGANISMS IN THE AIR OF THE BOSTON CITY HOS- PITAL	65
X.	POLLUTION OF ICE SUPPLIES	77
XI.	REPORT OF THE STATE BOARD OF HEALTH UPON THE SEW- ERAGE OF THE MYSTIC AND CHARLES RIVER VALLEYS STATE BOARD OF HEALTH, 1889	86
XII.	SUGGESTIONS AS TO THE SELECTION OF SOURCES OF WATER SUPPLY	106
XIII.	THE GROWTH OF CHILDREN STUDIED BY GALTON'S METHOD OF PERCENTILE GRADES	119
XIV.	Typhoid Fever in its Relation to Water Supplies Hiram F. Mills, 1890	131
XV.	A CLASSIFICATION OF THE DRINKING-WATERS OF THE STATE STATE BOARD OF HEALTH, 1890	139
Th		

¹ The reports of the State Board of Health were almost invariably written by the Chairman, Dr. Henry P. Walcott.

CONTENTS

XVI.	THE EFFECT OF STORAGE UPON THE TASTE AND ODOR OF	
	SURFACE WATERS	144
XVII.	THE POLLUTION OF STREAMS	1 56
XVIII.	THE FILTRATION OF SEWAGE, A GENERAL VIEW OF RESULTS OF EXPERIMENTS AT THE LAWRENCE EXPERIMENT	
	STATION	172
XIX.	THE CHEMICAL PRECIPITATION OF SEWAGE	188
XX.	MICROSCOPICAL ANALYSIS	192
XXI.	INVESTIGATIONS UPON NITRIFICATION AND THE NITRIFYING	
	ORGANISM	208
XXII.	THE INTERPRETATION OF WATER ANALYSES THOMAS M. DROWN, 1892	218
XXIII.	Some Physical Properties of Sands and Gravels, with Special Reference to Their Use in Filtration Allen Hazen, 1892	232
XXIV.	REPORT OF THE JOINT BOARD UPON THE IMPROVEMENT OF CHARLES RIVER	249
XXV.	REPORT OF THE STATE BOARD OF HEALTH UPON A MET- ROPOLITAN WATER SUPPLY	260
XXVI.	A COMPARATIVE STUDY OF THE TOXIN PRODUCTION OF DIPHTHERIA BACILLI	274
XXVII.	SANITARY CONDITION AND IMPROVEMENT OF THE NEPON- SET MEADOWS	293
XXVIII.	A Massachusetts Life Table for the Five Years	
	1893-97	300
XXIX.	REPORT OF THE STATE BOARD OF HEALTH UPON THE GENERAL SUBJECT OF THE DISCHARGE OF SEWAGE INTO	
	Boston Harbor	317
XXX.	Examination of Sewer Outlets in Boston Harbor and of Tidal Waters and Flats from which Shellfish	
	ARE TAKEN FOR FOOD	322
	INSPECTION OF DAIRIES	333
The rep Dr. Henry P	orts of the State Board of Health were almost invariably written by the Charle. Walcott.	irman,

CONTENTS	vii
XXXII. A REVIEW OF TWENTY-ONE YEARS' EXPERIMENTS UPON THE PURIFICATION OF SEWAGE AT THE LAWRENCE EX-	
PERIMENT STATION	341
XXXIII. THE OCCURRENCE OF INFANTILE PARALYSIS IN MASSA- CHUSETTS, 1907-12	350
XXXIV. FOOD AND DRUG INSPECTION OF THE MASSACHUSETTS STATE BOARD OF HEALTH	366
PART IV	
ABSTRACTS OF SCIENTIFIC ARTICLES AND REPORTS	
STATE BOARD OF HEALTH; ANNUAL REPORTS:	
First, 1870	377
Second, 1871	377
Third, 1872	380
Fourth, 1873	382
Fifth, 1874	384
Sixth, 1875	387
Seventh, 1876	388
Eighth, 1877	-
Ninth 1848	391
Ninth, 1878	393
Tenth, 1879	395 396
STATE BOARD OF HEALTH, LUNACY AND CHARITY; SUPPLEMENTS TO	390
Annual Reports:	
First, 1879	396
Second, 1880	397
Third, 1881	398
Fourth, 1882	399
Fifth, 1883	400
Sixth, 1884	400
Seventh, 1885	401
STATE BOARD OF HEALTH; ANNUAL REPORTS:	
Eighteenth, 1886	402
Nineteenth, 1887	402
Twentieth, 1888	403
Twenty-first, 1889	403
Twenty-second, 1890	404
STATE BOARD OF HEALTH; SPECIAL REPORTS ON WATER SUPPLY	
AND SEWERAGE:	
Part I, 1890	405
Part II, 1890	407
STATE BOARD OF HEALTH; ANNUAL REPORTS:	
Twenty-third, 1891	410
Twenty-fourth, 1892	412

viii

CONTENTS

STATE BOARD OF HEALTH;					
Twenty-fifth, 1893 .					 414
Twenty-sixth, 1894 .					
Twenty-seventh, 1895					 416
Twenty-eighth, 1896					416
Twenty-ninth, 1897.	.				 417
Thirtieth, 1898					 417
Thirty-first, 1899					 418
Thirty-second, 1900.					 418
Thirty-third, 1901					 419
Thirty-fourth, 1902 .					 420
Thirty-fifth, 1903					 421
Thirty-sixth, 1904					 421
Thirty-seventh, 1905	 .				 421
Thirty-eighth, 1906					 422
Thirty-ninth, 1907					 423
Fortieth, 1908					 425
Forty-first, 1909					 425
Forty-second, 1910 .					 426
Forty-third, 1911					 426
Forty-fourth, 1912					 426
Forty-fifth, 1913					427
Forty-sixth, 1914					 427
STATE BOARD OF HEALTH;	SPECIAL	REPORTS:			
Sewerage of the Mystic			allevs. 1	88a	 429
Improvement of Charle	s River. 1	804			 430
Metropolitan Water Su	pply. 180				 430
Improvement of Upper	Charles I	River. 1806			 432
Improvement of Nepon					433
Cerebro-spinal Meningi	tis. 1808				 433
Restoration of Green Ha	arbor, 180	8			 434
Sewerage of Salem and	Peabody.	т8о8			 434
Discharge of Sewage int	o Boston	Harbor, 10	00		435
Sanitary Condition of S					435
Undertaking and Emba	lming, 10	24			 436
Dumping Garbage into	Harbors.	1004			 436
Mystic River and Alew	ife Brook.	1006			 436
Water Supply of Lynn,	1007				 437
Sanitary Condition of N	Terrimack	River, 100	8		437
Pollution of Boston Har					438
Green Harbor, 1909					438
Lake Quannapowitt, 19					438
Sewage Disposal for Wo	orcester In	sane Hospi	ital. 1000		439
Water Supply of Salem.	Beverly	and Peaboo	lv. 1011		 439
Water Supply of Salem, Sanitary Condition of M	1errimack	River, 101	3.		 439
Danvers River and its I	Estuaries.	1013			 440
Dorchester Bay, 1913 .					 440
Sewerage of Reading, 19	014				 441
INDEX					