Document No. 26.

SEVENTH ANNUAL REPORT

OF THE

INSPECTOR

OF

Factories and Workshops

OF THE

STATE OF NEW JERSEY,

1889.

OFFICERS.

CHIEF INSPECTOR,

L. T. FELL, ... *Orange.*

DEPUTY INSPECTORS,

E. R. WHITE, ... *Vineland.*

P. CALLAN, ... *Newark.*

JOHN D'ARCY, ... *Trenton.*

REPORT.

OFFICE OF
INSPECTOR OF FACTORIES AND WORKSHOPS,
STATE OF NEW JERSEY.
ORANGE, N. J., October 31st, 1889.

Hon. Robert S. Green, Governor of State of New Jersey:

Sir—I have the honor to submit the sixth annual report of the Inspector of Factories and Workshops for the year ending October 31st, 1889.

After carefully reviewing the work of the deputies of this department for the year I am satisfied that the present force of the department is sufficient to properly inspect and enforce the different laws coming under the jurisdiction of the department, provided we have further legislation, making the present laws operative, and, in some cases, it will be necessary to carefully revise them, making them constitutional, as I am advised by counsel that some in their present form are not operative, and that it would not do to bring suit for the violation of certain sections of the laws until they are amended so as to comply with the Statute.

I beg leave to call your attention in a special manner to the Compulsory Educational Law, and the non-compliance with the same on the part of some of the City and Township authorities, hoping that the legislature will make it mandatory upon the authorities of every school district to enforce this most salutary law.

The statistics of the report will show the work accomplished during the past year, and, taking into consideration that the additional deputies have only been at work for a short time is very gratifying to me, as it is evident that the same force can, during the coming year, bring under the supervision of the department all the factories in the State employing minor help.

EMPLOYMENT OF CHILDREN.

Of the total number of employes in the factories inspected during the year five thousand five hundred and seventy-seven, or 4.8 per cent., are under sixteen years of age.

Comparing this with the report of last year there is a decrease of 1.45 per cent. It can, therefore, be readily seen that there is a growing tendency on part of employers to comply with the requirements of the law, and to avoid as much as possible the employment of children under the legal age.

There have been one hundred and nine permits granted to orphan children during the year by the department, which is an increase of 8 per cent. over last year; the cause of this increase was no doubt due to the dullness in trade during the year, which made it hard for widows with large families to maintain them without the aid of their children.

COMPULSORY EDUCATION.

The compulsory education laws are being gradually enforced, especially in some of the large cities where truant officers have been appointed to look after truants and compel their attendance at school. The greatest obstacle to contend with in the enforcement of this law is the lack of school accommodation.

The object of this law will never be attained until the municipalities are compelled by law to furnish accommodations for all children who apply for admission. Night schools have been opened in all the cities and in many of the small manufacturing towns, and are well attended; many of those schools are maintained at the expense of the manufacturers of the locality to enable their employees to comply with the law, and themselves the inconvenience of frequent changing of employees.

MEANS OF EGRESS IN CASE OF FIRE FROM FACTORIES, ETC.

This portion of the law is not being complied with to my satisfaction, and owing to the complication in the law I am somewhat reluctant in rigidly enforcing it. In my opinion this is a matter of the greatest importance and every precaution should be taken to make the exits from factories and buildings in which large numbers of persons congregate sufficiently large to meet any emergency,

and to keep them at all times free and accessible. Of the factories two or more stories in height, inspected during the year, only 21 per cent. of them have fire escapes or tower stairways. Such a percentage is entirely too small when the number of large factories in the State is taken into consideration. A factory cannot be considered amply supplied with means of exit unless it has tower stairways, outside iron fire escapes or bridges connecting each floor with adjacent buildings, and the employees familiar with the use of them.

MACHINERY AND ELEVATORS.

I am pleased to note that from my own observations and from the reports of the deputies during the year that the old styles of machinery and elevators, which was the result of many serious accidents, are fast being replaced by those of more modern construction. It is a rare occurrence to find machinery of modern manufacture, to find the gearing, etc., without a hood or proper covering, and the elevators are being equipped with improved safety appliances. I think it should be made imperative that all elevators should be supplied with those devices that render them less dangerous and thus prevent many accidents.

In conclusion I desire to call your attention to the third annual convention of the "Factory Inspectors of the United States," held at Trenton, N. J., August 6—9, 1889, which will give the citizens of New Jersey an idea of the great interest taken in this work by our fellow citizens of other states.

The following states were represented, viz:

Massachusetts, Ohio, Wisconsin, Connecticut, New York, Maine, Rhode Island, and since the convention Pennsylvania has been added to the number. After the address of President Rufus R. Wade, of Massachusetts department, many valuable papers upon subjects in connection with inspections of factories were read by several of the delegates to the convention, and discussed by members of the convention to the enlightenment of all interested in the details of the work of the different departments of Factory Inspector.

All of which is respectfully submitted.

L. C. FELL,

Inspector of Factories and Workshops.

APPENDIX.

APPENDIX.

FACTORIES INSPECTED.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Jersey City	Colgate & Co	Soap	3, 4, and 5 stories of brick	400	400	.....	75
"	Poidabard & Co	Silk	2 stories of brick	500	250	250	20
"	C. Stohn	"	2 " wood	25	24	1	2
"	John Mehl & Co	Pocketbooks	4 " brick	175	115	60	40
"	F. G. Otto & Son	Surgical Implements	3 " brick	65	65	.....	.....
"	Louis Pattberg & Bros	Novelties	4 " brick	150	130	20	35
"	J. Thorp	Woodwork	2 " wood	8	8	.....	.....
"	Chapman Bros	Embroideries	2 " brick	7	2	5	.....
"	Dixon Crucible Works	Lead Pencils	3 and 4 stories of brick	347	199	148	125
"	Tubler Barrow Co	Wheelbarrows	2 stories of wood	35	35	.....	.....
"	Jersey Iron Works	Machinery	1 " wood	25	25	.....	.....
"	Henry Wilkens	Tanks	2 " wood	10	10	.....	.....
"	Corcoran M'fg Co	Windmills	2 " brick	30	30	.....	.....
"	J. J. Donohue	Corsets	4 " brick	13	.....	13	.....
"	Cockburn Machine Co	Barrows	2 " wood	30	30	.....	.....
"	Brady Metal Co	Metals	2 " wood	6	6	.....	.....
"	Liberty Soap Co	Soap and Oils	2 " wood	10	10	.....	.....
"	J. Tomes	Pumps	1 " wood	8	8	.....	.....
"	N. J. Embroidery Co	Embroideries	2 " wood	22	.....	22	7
"	Wm, Cosgrove	Ventilators	1 " wood	25	25	.....	.....

FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Jersey City	J. McDonald	Desks	2 stories of brick	20	20	.....	.....
"	L. & M. Rubber Co	Rubber	3 " brick	75	75	.....	.....
"	Springer Balance Co	Scales	4 " bric	50	50	.....	.....
"	A. Gross & Co	Oils	2 " brick	50	50	.....	.....
"	Tartar Chemical Co	Chemicals	2 " brick	40	40	.....	.....
"	Geo. Mathers Sons	Ink	3 " brick	30	30	.....	.....
"	Ribbon & March	Machinists	2 " brick	50	50	.....	.....
"	Geo. Smith	Iron Foundry	1 " brick	18	18	.....	.....
"	A. Cranschau	" "	1 " wood	10	10	.....	.....
"	John Maslin	Pumps	1 " wood	10	10	.....	.....
"	C. R. James & Co	Machines	2 " wood	25	25	.....	.....
"	Carnes & Collins	Castings	1 " wood	50	50	.....	.....
"	N. J. Car Spring Co	Car Springs	2 " wood	100	100	.....	.....
"	B. Mills & Sons	Oakum	2 " brick	25	25	.....	5
"	J. C. Paper Co	Paper	2 " brick	30	24	6	.....
"	Stratfords Oakum Co	Oakum	2 " wood	60	60	.....	8
"	U. S. Cocoanut Co	Cocoanut Essence	4 " brick	15	12	3	.....
"	Frazer M'fg Co	Axle Grease	1 " brick	12	12	.....	.....
"	H. S. Hall	Gloves	4 " brick	35	10	25	1
"	Standard Watch Co	Watches	4 " brick	150	75	75	.....
"	Boynton Furnace Co	Stoves	3 " brick	100	100	.....	.....
"	C. A. Woolsey Paint Co	Paints	2 " wood	35	27	8	.....
"	John C. Fox & Sons	Mantles	2 " wood	14	14	.....	1
"	Grand St. Iron Works	Castings	1 " wood	15	15	.....	.....
"	R. H. Stoll & Co	Brooms	2 " wood	10	10	.....	.....
"	E. Waldeck & Co	Paper Boxes	2 " wood	45	13	32	5
"	Standard Oil Clothing Co	Oil Clothing	2 " wood	140	60	80	2

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Jersey City	Hyderleine Soap Co	Soap	3 stories of wood	6	6		
"	Daft Electric Co	Motors	3 " brick	125	125		
"	Royal Chemical Co	Medicine	2 " brick	6	4	2	
"	Mexican Pulican Co	"	4 " wood	6	6		
"	Heidt & Sons	Barrels	4 " wood	15	15		
"	R. Hellers & Sons	Drugs	5 " brick	20	20		
"	G. J. Brown	Medicine	2 " wood	12	7	5	
"	W. O. Davey & Sons	Oakum	2 " brick	90	90		
"	R. H. Steel & Co	Laundry	2 " wood	30	13	17	
"	Hepe. Koven & Co	Boiler Ranges	3 " wood	40	40		
"	Renicke Bros	Vinegar	2 " wood	10	10		
"	James Leo	Paper Boxes	2 " wood	175	75	100	15
"	P. Lorillard & Co	Tobacco and Snuff	4 buildings, 8 stories	3,000	500	2,500	200
"	Greenfield Machine Co	Machines	2 stories of wood	50	50		
"	Alex. Hamil	Iron railings	1 " wood	10	10		
"	Wallace Iron Works	Machines	1 " wood	200	200		
"	Vulcan Iron Works	Boilers	1 " wood	25	25		
"	Brown & Miller	Cleets	1 " wood	40	40		
"	J H. Gautier & Co	Firebricks	2 " brick	100	100		
"	Detweiler & Street	Fireworks	1 " brick	120	85	35	10
"	Eureka Hose Co	Hose	1 " brick	15	15		
"	J. J. Hines	Gold burnish	2 " wood	10	10		
"	Spear & Co	Bandages	2 " wood	8	2	6	
"	Heppenheimer Sons	Lithographers	2 " brick	235	235		40
"	A. A. Griffen Iron Co	Radiators	1 " wood	600	600		
"	Passaic Zinc Co	Zinc	3 " wood	250	250		
"	Hudson Steam Laundry	Laundry	3 " brick	75	35	40	
"	Caniste Sash Works	Sash and blinds	1 " wood	25	25		
"	R. Hillers & Son	Licorice	1 " wood	8	8		
"	J. Taylor & Co	Dye works	2 " brick	20	20		
"	Pioneer Slate Co	Mantles	1 " wood	15	15		
"	N. J. Steam Laundry	Laundry	2 " wood	45	10	35	5
"	H. C. Knitting Mills	Worsted goods	2 " wood	25	5	20	
"	Mathiesen & Wichers	Sugar	7 buildings from 1 to 9 brick	1,200	1,192	8	
"	Winter Ball M'fg Co	Umbrellas	3 stories of brick	150	150		25
"	N. J. Standard Wood Co	Wood carvers	4 " brick	24	24		
"	Leslie Iron Works	Iron foundry	2 " brick	25	25		
"	Jersey City Wheel Co	Car wheels	1 " brick	100	100		
"	Eagle Tube Co	Tubes	2 " wood	25	25		
"	Ames Spike Co	Spikes	1 " brick	75	75		
"	M. Maloney	Wood turning	1 " wood	10	10		
"	Gould & Hedley	Machinists	1 " wood	10	10		
Centreville	Wm, McFarland & Co	Silk	2 " brick	118	20	98	48
Harrison	Clark's Mile End	Thread	4 " brick	820	220	600	40
"	Clark's O. N. T	"	4 " brick	900	150	750	77
"	Marshall & Co	"	4 " brick	600	150	450	32
"	Kerr Thread Co	"	3 " brick	60	20	40	10
"	Nairn Linoleum Co	Linoleum	2 " brick	130	130		24
"	Winnas Bros	Hats	2 " wood	75	50	25	
"	N. J. Adamant Co	Plaster	2 " wood	8	8		

FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Harrison	Edison Lamp Co.	Lamps	4 stories of brick	365	250	115	25
"	Harold & Co.	Cutlery	2 " wood	45	42	3	8
"	Stewart & Hartshorn	Window shade rollers	3 " brick	165	150	15	.....
"	Newark Machine Tool Co.	Machinery	3 " brick	50	50	.....	.....
Arlington	Bader Flint Co.	Sand paper	2 " wood	40	40	.....	.....
"	Beckerts Machine Co.	Machines	3 " brick	90	90	.....	.....
"	Hoyt Metal Co.	Metal	1 " brick	10	10	.....	.....
"	Arlington Cuff and Collar Co.	Cuffs and collars	2 " wood	60	45	15	.....
Hoboken	Myenberg Silk Co.	Silk	5 " brick	200	75	125	.....
"	Keuffel, Esser & Co.	Surveying instruments	4 " brick	100	94	6	6
"	American Lead Pencil Co.	Lead pencils	4 " brick	300	100	200	16
"	Barnes & Hogan	Paper	2 " wood	10	10	.....	.....
"	James Reynolds	"	2 " brick	30	23	7	.....
"	Lehman & Clark	Pocket books	5 " brick	100	65	35	10
"	R. Neuman & Co.	Leather	4 " brick	70	70	.....	.....
"	N. Randell	Planing mill	1 " wood	8	8	.....	.....
"	R. P. Francis, Jr.	" "	2 " brick	15	15	.....	.....
"	Coogan & Co.	Laundry	2 " brick	16	2	14	.....
"	Villar & Co.	Corks	2 " wood	16	7	9	3
"	R. Lowry & Co.	Paste	3 " wood	16	14	2	2
"	A. Redlinger	Leather	3 " wood	18	18	.....	.....
"	Kitz & Grempler	Chemicals	1 " brick	8	8	.....	.....
"	Munsfield & Fagan	Iron railings, etc.	3 " wood	75	75	.....	.....
"	Robt. Meyer	Ink	2 " brick	10	10	.....	.....
"	Chapel, Chase & Maxwell	Coffins	4 " brick	70	64	6	.....
"	John Boyle	Oil cloths	1 " wood	8	8	.....	.....
"	Geo. Fussell	Window shades	2 " wood	25	25	.....	.....

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Hoboken	John Brown & Co	Stone yard		180	180		
"	G. Hauser	Segars	3 stories of brick	30	20	10	
"	Demerest & Stagg	Stair builders	2 " wood	20	20		
"	Hotop & Co	Varnish	1 " brick	10	10		
"	Geo. Focht	Iron buckets	1 " wood	50	50		
"	John McLaren	Machinery	2 " brick	75	75		
"	Snyder & McGrane	Tallow	2 " wood	15	15		
"	Progressive Iron Works	Railings	1 " wood	20	20		
"	Hoboken L. and Impt. Co	Machine shops	2 " brick	75	75		
Town of Union	Town of Union Silk Mills	Silk	3 " brick	225	120	105	
"	John Erskine & Co	"	2 and 4 stories of brick	200	135	65	2
"	Clifton Silk Mills	"	3 stories of brick	100	65	35	2
"	Bergenwood Silk Mills	"	1 " brick	35	25	10	1
"	Givernaud Bros	"	2 " wood	400	30	370	25
"	Conturat & Co	"	1 " wood	80	60	20	
"	R. & H. Simon	"	3 " brick	500	250	250	
"	B. Alt	Fishing tackel	1 " wood	3	3		3
"	H. Herold	Silk	3 " wood	24	17	7	
"	Heffenstein & Co	"	2 " wood	50	20	30	1
"	H. Sontag	Fringe	2 " wood	25	5	20	
"	Oscar Roepeke	Caps	2 " wood	10	9	1	
"	H. Wallack	Shirts	2 " brick	90	1	89	2
"	Jas. Ware & Sons	"	3 " wood	80	10	70	
"	A. Hagin	Watch cases	1 " brick	30	30		
"	John Boderman	Silk	2 " wood	50	20	30	2
West Hoboken	Oesmann & Givone	"	3 " wood	85	50	35	
"	Givernaud Bros	"	3 " brick	500	350	150	20
"	Schwarzenbach & Co	"	3 " brick	430	230	200	10
"	Jos. Ratti	"	3 " wood	45	27	18	
"	Jos. Comby	"	3 " wood	140	60	80	2
"	A. H. Alexander	Feathers	2 " wood	18	6	12	
"	W. J. Alexander	"	2 " wood	15	4	11	2
"	B. Fontaine	Fancy boxes	2 " wood	25	17	8	1
"	E. B. Bondell	Lamp shades	2 " wood	15	4	11	
"	Favorite Silk Mills	Silk	3 " brick	150	30	120	
Newark	Tucker Letter and File Co	Automatic suspension cabinets	2 " brick	15	15		
"	Wm. T. Measeran	Brass	4 " brick	230	220	10	18
"	Cahoun & Barnett	Brass, saddlery, hardware	4 " brick	140	30	110	8
"	Wm. L. Starr	" " "	2 " wood	22	20	18	2
"	C. M. Theatreth	Brass goods	4 " brick	40	40		
"	B. Conlon & Co	" "	3 " brick	70	30	40	10
"	Westerhoff	" "	4 " brick	18	16	2	
"	Geo. Havill	" "	2, 3 and 4 stories of brick	250	175	75	12
"	Reiley & Osborne	" "	4, 5 and 6 " brick	400	300	100	20
"	Rich'd Sims	Brass and metal goods	2, 3 and 4 " brick	15	15		
"	Thos. H. Brown	Brass	2 stories of wood	10	10		
"	Jas. E. Mergott	Brass frames	4 " brick	50	48	2	10
"	M. Gould & Sons	Brass stair rods	4 " brick	67	60	7	
"	Goerts & Co	Brass frames	3 " brick	80	75	5	5
"	Deffney & Co	Brass goods	3 " brick	30	25	5	

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FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Newark	Newark Novelite	Brass goods	3 stories of brick	24	20	4	.....
"	C. P. Gould	" "	4 " brick	20	10	10	4
"	R. C. Jenkinson	Bag frames	4 " brick	100	100	.....	6
"	J. & H. J. Devlin	Brass mouldings	2 " wood	5	5	.....	1
"	Neunberg M'fg Co	Buttons	2 " brick	100	25	75	9
"	Thos. Davis	"	3 " brick	60	55	5	.....
"	Hubner & Sons	Buttons and pearl jewelry	1, 2 and 3 stories of brick	50	38	12	.....
"	McCutchon & Crane	Buttons	2 stories of wood	60	30	30	.....
"	Henry Smith	"	3 " brick	18	14	4	.....
"	Frank & Co	"	3 " brick	150	30	120	15
"	Pearsols Button Co	"	4 " brick	.....	.....	.....	.....
"	F. Frenz	"	4 " brick	32	13	19	4
"	Toms & Reed	"	3 " brick	21	6	15	.....
"	Wm. Donovan	"	4 " brick	70	25	45	.....
"	N. J. Button M'fg Co	"	4 " brick	145	70	75	10
"	H. M. Yates	"	3 " brick	20	12	8	.....
"	Safety Alarm Co	Alarms	4 " brick	9	9	.....	.....
"	Albrecht & Kock	Books	4 " brick	35	25	10	.....
"	Wm. Hill	Brewery	6 stories brick, 3 stories wood	37	37	.....	.....
"	Godfried Kreuger	"	1 to 9 stories of brick	100	100	.....	.....
"	Balantine & Co	"	6 stories of brick	60	60	.....	.....
"	" "	" (ale)	3, 4 and 6 stories of brick	170	170	.....	.....
"	Jos. Hensler	"	4 stories brick, 4 stories wood	55	55	.....	.....
"	Chas. Trefz	"	2 stories wood, 4 stories brick	44	44	.....	.....
"	Geo. W. Wedmeyer	"	4 stories of brick	15	15	.....	.....
"	Franz J. Kastner	"	4 " brick	50	50	.....	.....
"	J. Feigenspan	"	4 " brick	65	65	.....	.....

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Newark	Enterprise Brewing Co.	Brewery	4 stories of brick	25	25	.....	.....	
"	Morton Brewing Co.	"	3 " stone	25	25	.....	.....	
"	Lyon & Son	"	4 " brick	25	25	.....	.....	
"	Wm. Titus	Baking	3 " brick	100	100	.....	.....	
"	Mangels & Schmidt	"	2 " brick	80	80	.....	.....	
"	Adam Turkes	"	3 " wood	40	40	.....	.....	
"	Fritzsche Bakery	"	3 " brick	25	25	.....	.....	
"	Eggers & Co.	Bags	2 " wood	30	28	2	.....	
"	J. D. Marquett	Boxes	3 " brick	65	30	35	.....	
"	Reiley & Osborne	Boxes and bag frames	4 " brick	40	20	20	.....	
"	E. T. Hart	"	4 " brick	113	13	100	3	
"	B. Osborn	"	2 " brick	50	.....	50	.....	
"	Gauch & Co.	"	3 " brick	150	85	65	.....	
"	Chas. Osborn	"	4 " brick	45	15	30	2	
"	John Davidson	"	4 " brick	75	15	60	.....	
"	Mergott & Howell Co	"	3 " brick	20	20	.....	4	
"	Chas. Appel	"	3 " brick	24	10	14	.....	
"	Neuman & Co.	Bag frames	4 " brick	120	120	.....	.....	
"	Goodenough & Co.	Bric-a-brac	3 " brick	10	8	2	2	
"	C. W. Coney	Brushes	4 " brick	17	5	12	.....	
"	E. W. Dixon	Brushes	3 " wood	63	23	30	5	
"	Jos. Baldwin	Bits and spurs	3 " brick	20	20	.....	6	
"	Wm. A. Britzenhoffer	Cigars		.....	.....	.....	.....	
"	Jos. G. Gluting	"		.....	.....	.....	.....	
"	H. Donaldson	"		.....	.....	.....	.....	
"	Fridenthal & Adler	"	5 stories of brick	11	11	.....	.....	
"	Wm. Salter	"	5 " brick	7	2	5	.....	
"	J. B. Axt	"		.....	.....	.....	.....	
"	Cramford & Co.	"		50	45	5	7	
"	Wm. Craft	Clothing	3 stories of brick	150	20	130	2	
"	Jacob Meyer	"	4 " brick	130	30	100	.....	
"	Hammerslough Bros	"	4 " brick	90	25	65	10	
"	Bernheim, Bauer & Co.	"	4 " brick	160	8	152	.....	
"	John V. Deffenthaler	"	4 " brick	42	12	30	1	
"	Chas. H. Curtis	"	4 " brick	25	7	18	.....	
"	Wendel Koska	"	2 " wood	42	14	28	10	
"	Peter Geiger	"	2 " wood	140	40	100	4	
"	John Fleming	"	1 " wood	25	5	20	3	
"	A. Steiner	"	1 " wood	30	10	20	8	
"	Jacob Schmidt	"	3 " wood	12	3	9	.....	
"	Geo. Miller	"	4 " brick	30	4	26	.....	
"	Christian Arnold	"	3 " wood	11	8	3	1	
"	W. Levin	"	2 " wood	18	12	6	.....	
"	Jos. Haas	"	2 " wood	12	4	8	.....	
"	Martin Singer	"	2 " brick	13	4	9	.....	
"	M. Kogel	"	1 " wood	20	5	15	.....	
"	Ph. Rottger	"	2 " wood	19	3	16	.....	
"	Geo. Braun	"	2 " wood	10	2	8	.....	
"	Geo. Heller	"	3 " wood	12	3	9	.....	
"	A. Brutchman	"	2 " wood	25	15	10	.....	

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FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Newark	John Heabley	Clothing	4 stories of brick	11	3	8	.....
"	M. Freeman	"	4 " brick	10	3	7	3
"	J. Fried	"	1 " brick	50	25	25	3
"	Ph. Berz	"	2 " wood	25	20	5	.....
"	J. Thumo	"	4 " brick	45	39	6	.....
"	Mrs. Van Riper	"	3 " wood	24	5	19	.....
"	John H. Wheaton	"	4 " brick	15	4	11	.....
"	Continental Corset Co	Corsets	4 " brick	400	15	385	10
"	James Bowers & Co	"	4 " brick	400	14	386	8
"	Ferris Bros	"	5 " brick	200	12	188	2
"	Crutty Bros	"	4 " brick	60	2	58	.....
"	Weingartner Bros	"	4 " brick	75	1	74	1
"	Bristol Corset Co	"	4 " brick	75	3	72	.....
"	Whiting & Smallgood	"	4 " brick	25	1	24	.....
"	B. Herzog	"	3 " brick	30	.....	30	14
"	Essex M'fg Co	Corset steels	3 " brick	30	2	28	14
"	G. W. Jackson	Corsets	4 " brick	125	5	120	4
"	John Bea	Horse collars	3 " brick	28	28	.....	.....
"	Newark Lime and Cement Co	Cement	2, 3 and 4 stories of brick	80	80	.....	.....
"	John J. Kersing	Composition	4 stories of brick	25	5	20	.....
"	D. S. Plumb	Clock works	5 " brick	30	30	.....	.....
"	H. Howarth	Cigars	3 " brick	30	8	22	.....
"	Bannester	Cutlery	2 and 3 stories of brick	50	30	20	10
"	Robt. Meyer	Chemicals	1 stories of wood	6	6	.....	.....
"	Passaic Chemical Co	"	3 " wood	30	30	.....	.....
"	Union Chemical Co	Cream of tartar	3 " wood	17	17	.....	.....
"	Chas. Cooper & Co	Chemicals	2 " brick	70	68	2	.....

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Newark	Morris & Clark	Coffins	3 and 4 stories of brick	70	69	1	
"	James Quimby	Carriages	4 stories of brick	100	100		
"	Wm. Strubey	Carriage hardware	2 and 3 stories of brick	65	60	5	
"	Celluloid Novelty Works	Celluloid	1 stories of brick	150	150		
"	Celluloid Novelty Works	"	2 " brick	200	150	50	
"	Celluloid Novelty Works	"	2 " brick	500	200	300	
"	Celluloid Co	"	4 " brick	5	4	1	
"	Wm. Kirk	Carpenter	4 " brick	50	50		
"	Atha & Hughes	Cloth rubber	3, 4 and 5 stories of brick	138	138		
"	Heath & Son	"	3 and 4 stories of brick	20	20		
"	L. Joy & Co	Cloth	2 and 3 " brick	19	17	2	
"	Eureka Cement Co	Cement	1 stories of wood	5	5		
"	Central Railroad of N. J	Railroad cars	1 " wood	100	100		
"	Stanard & Lefferts	Wire cloth	2 " brick	25	23	2	
"	Harmer Bros	Desks	3 and 4 stories of brick	60	60		
"	Benjamin Bros	Dress extenders	4 stories of brick	60	1	59	5
"	H. Bauman	Embroidery	4 " brick	59		59	5
"	Thos. & Geo. Stone	Engravers	3 " brick	50	50		
"	Newark Electric and Power Co	Electric lighting	3 " brick	450	300	150	
"	Electric Accumulator Co	Electrical accumulators	1 " brick	70	70		
"	Elastic Hair Co	Elastic hair	4 " brick	20	20		
"	A. Schluetor & Co	Engraving	4 " brick	15	15		
"	Bradley & Cage	"	1 " brick	20	20		
"	Spencer Optical M'fg Co	Eye glasses	5 " brick	120	104	16	15
"	Lister Bros	Fertilizers	3 stories brick, 1 and 2 of wood	500	470	30	
"	Wilkinson, Gaddes & Co	Flour	3 stories of wood	15	15		
"	H. S. Miller	Fertilzer	2 " wood	175	166	9	
"	F. F. Lane	"	2 " wood	125	122	3	
"	Heller Bros	Files and rasps	1 and 2 stories of brick	125	125		
"	John Ray	"	2 stories of brick	30	30		
"	Newark Gas Light Co	Gas light	3 and 4 stories of brick	60	60		
"	Balbach & Son	Gold and silver smelting	1, 2 and 3 stories of brick	62	62		
"	Le Long Bros	Gold refiners	4 stories of brick	12	12		
"	Yates & Wharton	Hats	4 " brick	300	240	60	
"	Wheeler & Russell	"	4 " brick	200	175	25	
"	Ferry & Napier	"	4 " brick	200	130	70	
"	Meyer Marcy	"	4 " brick	300	235	65	
"	Jos. Schuman	"	3 " brick	150	120	30	
"	C. F. Seitz & Son	"	3 " brick	125	90	35	
"	J. Rummele & Co	"	3 stories brick, 2 stories wood	130	95	35	
"	G. M. Espinsheidt	"	1 and 3 stories of brick	100	76	24	
"	Chas. Crossley	"	4 stories of brick	130	60	70	
"	Wheeler & Bushell	"	2 stories brick, 2 stories wood	100	85	15	
"	C. B. Alston	"	2 stories of wood	67	52	15	
"	Albert Sietz	"	3 " wood	40	26	14	
"	W. H. Noory	"	3 " wood	60	35	25	
"	David Wolf	"	4 " wood	75	50	25	
"	Jas. Flish & Co	"	2 " wood	60	40	20	
"	Jas. Rolestrom	"	3 " brick	60	35	25	
"	C. M. Hedden & Co	"	3 " brick	300	270	30	

FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Newark	G. M. Mason	Hats	3 stories of brick	100	80	20	.....
"	Bernard Daily	"	2 and 3 stories of wood	73	63	10	.....
"	Oscar Willigerode	Hat bodies	2 stories of wood	37	27	10	1
"	Phiffer & Co	"	3 " wood	37	25	12	.....
"	Douglass M'fg Co	"	4 " brick	20	15	5	.....
"	Tyler Parmly	Hats	2 " wood	20	15	5	.....
"	T. S. Carlez	"	4 " brick	180	160	20	.....
"	H. Fulcher	"	2 " brick	76	58	18	.....
"	J. H. Herman & Co	Hat blocks	2 " brick	18	18	.....	.....
"	Geo. Yule	Hat machinery	2 " brick	20	20	.....	.....
"	Mack & Romberg	Straw hats	3 " wood	100	76	24	4
"	MacClair & Davis	"	4 " brick	50	10	40	.....
"	Thos. Nickols	Hats	3 " wood	60	30	30	.....
"	Peter Calhoun & Co	Harness	5 " brick	250	235	15	.....
"	Wm. Steretz	Hubs	3 and 4 stories of brick	27	27	.....	.....
"	Demerest & Co	Harness	3 stories of brick	90	90	.....	.....
"	Wm. Crabb & Co	"	4 " brick	17	17	.....	.....
"	E. F. Beck & Son	"	2 " brick	101	100	1	.....
"	F. W. Bonneau	"	4 " brick	30	27	3	.....
"	Butler & Ward	"	3 " brick	43	18	25	.....
"	S. S Seargent M'fg Co	"	3 " brick	100	74	26	8
"	A. Albright	"	4 " brick	25	11	14	.....
"	R. C. Winters	"	3 and 4 stories of brick	35	35	.....	.....
"	Weiner & Co	Saddlery hardware	5 stories of brick	80	80	.....	4
"	A. Buerman	"	4 " brick	25	25	.....	.....
"	Crane & Co	"	4 " brick	200	180	20	.....
"	Vanness	"	3 " brick	24	24	.....	.....

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Newark	P. Hayden	Saddlery hardware	3 stories of	brick	100	100	7	.....	
"	Reynolds & Zann	"	2 "	brick	32	31	1	.....	
"	Oscar Barnett	"	3 "	brick	60	60	.....	.....	
"	Bradley & Pierson	"	2 "	wood	25	25	.....	2	
"	E. C. Whitehouse	"	3 "	brick	16	16	.....	.....	
"	Kuehnhold & Co	"	3 "	brick	40	38	2	.....	
"	A. T. Meffins	"	3 "	brick	60	60	.....	.....	
"	Geo. Maag	"	4 "	brick	10	10	.....	.....	
"	Carter, Sloan & Co	Jewelry	4 "	brick	250	185	65	.....	
"	Krement & Co	"	4 "	brick	125	100	25	.....	
"	Day & Clark	"	4 "	brick	90	78	12	3	
"	Durand & Co	"	4 "	brick	80	65	15	.....	
"	M. Krouse	"	4 "	wood	70	70	.....	.....	
"	Schoenmaker, Pickering & Co	"	4 "	brick	84	80	4	.....	
"	Thos. G. Brown & Co	"	5 "	brick	100	75	25	.....	
"	W. Riker	"	4 "	brick	75	60	15	.....	
"	Wm. C. Edge & Son	"	4 "	wood	100	95	5	.....	
"	Wm. Rich & Co	"	3 "	brick	34	31	3	.....	
"	Kerr & Battin	"	3 "	brick	45	42	3	.....	
"	M. Huger	"	4 "	brick	19	18	1	.....	
"	Chas. Schuets & Son	"	4 "	brick	60	55	5	.....	
"	A. Alling Reeves	"	2 "	brick	18	12	6	.....	
"	Champeinos & Co	"	5 "	brick	45	35	10	.....	
"	Mayhew & Co	"	3 "	brick	13	13	.....	.....	
"	Elcox & Co	"	4 "	brick	50	44	6	.....	
"	W. H. Ball & Co	"	4 "	brick	25	20	5	.....	
"	A. P. Morris	"	4 "	brick	24	14	10	.....	
"	T. W. Adams & Co	"	4 "	brick	22	20	2	.....	
"	Chas. Knobs & Co	"	5 "	brick	15	9	6	.....	
"	King & Co	"	4 "	brick	9	9	.....	.....	
"	Dorance & Lang	"	3 "	brick	15	14	1	.....	
"	Uhry & Alworth	"	3 "	brick	6	5	1	.....	
"	Block & Bergfgle	"	3 "	brick	13	13	.....	.....	
"	A. Jewlman	"	4 "	brick	15	11	4	.....	
"	Rothchild Bros	"	4 "	brick	25	21	4	.....	
"	T. Bassett Jewelry Co	"	2 "	brick	7	7	.....	.....	
"	O. E. Hendrick & Co	Gold chains	4 "	brick	22	12	10	.....	
"	Pomery & Son	Ink	3 "	brick	22	20	2	.....	
"	Sloan & Chase	Instruments	2 "	brick	70	70	.....	.....	
"	M. J. Halpin	Leather	2 "	wood	17	17	.....	.....	
"	Robt. Dingnell	"	3 "	wood	15	15	.....	.....	
"	M. Caffery	"	2 "	brick	20	20	.....	.....	
"	J. H. Halsey & Smith	"	2 and 4 stories of	brick	150	150	.....	.....	
"	T. P. Howell & Co	"	3 and 4 stories of	brick	150	150	.....	.....	
"	C. W. Meyer & Son	"	4 stories of	brick	50	50	.....	.....	
"	Reuben Trier	"	2 "	wood	17	17	.....	.....	
"	Cowfare & Co	"	2 "	wood	35	35	.....	.....	
"	Carhon & Flynn	"	2 "	wood	30	30	.....	.....	
"	T. A. Schaffer & Co	"	3 "	wood	25	25	.....	2	
"	Bingham	"	2 "	wood	14	14	.....	.....	

FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Newark	Schattock & Bingham	Leather	2, 3 and 4 stories of brick	60	60	.....	.....
"	Bentz, Ditsch & Betz	"	3 stories of wood	200	200	.....	4
"	W. Fred Quimby	Leather goods	4 " brick	25	11	14	.....
"	Phœnix Leather Co.	"	4 " brick	16	16	.....	.....
"	John H. Moyer	"	2 and 4 stories of brick	20	20	.....	.....
"	Newark Kidd Works	"	3 stories of wood	20	20	.....	.....
"	John Daley	"	2 " brick	60	2	58	10
"	John Dwyer	"	3 and 4 stories of brick	16	16	.....	.....
"	Butler & Ward	"	3 stories of brick	50	25	25	.....
"	Newark Steam Laundry	Laundry	4 " brick	35	5	30	3
"	B. and M. Letter Co.	Letters	4 " brick	25	20	5	.....
"	Tucker Letter and File Co.	Letter files	2 " brick	15	15	.....	.....
"	C. N. Lockwood	Lamps	3 " brick	18	18	.....	.....
"	F. Moller	"	3 " brick	15	15	.....	.....
"	American Steam Laundry	Laundry	4 " brick	14	4	10	.....
"	T. J. Preston	Linseed oil	2 " wood	7	7	.....	.....
"	J. Hubel	Locks	4 " brick	10	10	.....	.....
"	Thos. Sleight	"	4 " brick	10	10	.....	.....
"	Phœnix Lock Co.	"	3 " brick	38	35	3	8
"	Kellogg & Douglass	Lead pipe	4 " brick	20	20	.....	.....
"	Newark Licorice Works	Licorice	1 " brick	140	140	.....	.....
"	Wm. R. King	Sole leather	4 " brick	20	2	18	.....
"	Chas. McAvoy	"	3 " brick	50	50	.....	5
"	Smith & Co.	"	1 to 4 stories of brick	175	175	.....	3
"	R. G. Salomon	"	2 to 5 " brick	248	246	2	0
"	C. H. & J. D. Harrison	"	3 stories of brick	110	110	.....	.....
"	H. P. Witzel	"	3 " wood	20	20	.....	.....

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Newark	C. L. & R. E. Smith	Sole Leather	4 stories of brick	15	15		
"	Cummings Bros.	"	4 " brick	40	40		
"	M. Reardon	Leather	3 " wood	30	30		
"	Seidenback & Mahone	"	3 " brick	120	120		
"	John Reiley	"	3 " wood	40	40		
"	Robt. Dingwell	"	3 " wood	14	14		
"	Conroy & Meyranch	"	3 " wood	10	10		
"	Hugh Smith	"	4 " wood	100	100		
"	Chas. Smith	"	2 " wood	15	15		
"	R. P. Lister	"	3 " wood	15	15		
"	Patrick Reiley & Son	"	3 and 4 stories of brick	200	200		
"	Blanchard Bros. & Lane	"	2 and 3 " brick	150	150		
"	Stengel & Rothschild	"	2 stories of wood	70	70		
"	J. H. & J. W. Dawson	"	2 to 4 stories of brick	160	160		
"	E. S. Ward	"	3 to 4 " wood	55	55		
"	Reiley & Mackin	"	4 stories of wood	15	15		
"	S. Halsey & Son	"	1 to 4 stories of brick	180	180		
"	Harry Lang	"	2 and 4 " brick	40	40		
"	Meyers & Egner	"	1 to 3 " brick	24	24		
"	M. Strause	"	2 stories brick, 2 stories wood	65	65		
"	Smith Bros.	"	3 and 4 stories of brick	73	73	0	3
"	A. Lowenberg	"	3 stories of brick	59	59		
"	John W. Carr	"	2 " wood	20	20		
"	Palmer & Smith	"	5 " brick	40	40		
"	Louis Meyer	"	2 " wood	20	20		
"	Jacob Stumpf	"	2 " wood	50	50		
"	Schaffer & Co	"	3 " wood	25	25		
"	Chas. Felder	Machinery	3 " brick	9	9		
"	E. O. Chase	"	4 " brick	10	10		
"	Watts Campbell Co	"	3 " brick	175	175		
"	Huges & Phillips	"	2 to 4 stories of brick	300	300		
"	Gould & Eberhard	"	2 to 4 " brick	72	72		
"	Domestic Sewing Machine Co	Machines	5 stories of brick	1,000	1,000		2
"	"	" woodwork	5 " brick	250	250		
"	Hohensteine Machine Co	Machinery	2 " brick	15	15		
"	Tissell's Gas Machine	Gas Machinery	3 " wood	12	12		
"	C. H. Redmen	"	4 " brick	20	20		
"	George Ohl	"	2 " brick	22	22		
"	Atlas Manufacturing Co	"	2 " brick	25	25		
"	John M. Hawkins	"	3 " brick	18	18		
"	John R. Williams	"	3 stories brick, 2 stories wood	15	15		
"	Wm. H. Chapman	Machinery		8	8		
"	H. C. Clawson	"	4 stories of brick	31	30	1	
"	C. C. Collins	"	2 " brick	10	10		
"	Chas. Felder	"	4 " brick	18	18	0	2
"	Skiner & Leary	"	4 " brick	16	16		
"	A. B. Pierce & Co	"	5 " brick	25	25		
"	Seymour & Kittock	"	4 " brick	40	40		
"	J. S. Mundoay	"	4 " brick	60	60		
"	Chas. E. Greene	Metal Supplies	3 " brick	18	18		

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FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Newark	H. H. Richmond	White metal	3 stories of brick	10	10	.....	2
"	Van Vites	Malt	9 " brick	29	29	.....	.....
"	Smith & Landwell	Machinery	4 " brick	10	10	.....	.....
"	Barnett & Co	Paints	2 " brick	20	20	.....	.....
"	Hedges Plumbers' Supply Co	Plumbers' supplies	4 " brick	30	30	.....	.....
"	H. Bidwell	Pasteboard	1 " wood	17	17	.....	.....
"	Snelling & Matches	Paperware	4 " brick	7	5	2	.....
"	Chambers & Ansley	Plumbers' supplies	4 " brick	35	35	.....	.....
"	E. R. Carhoff	Potash	2 " brick	38	38	.....	.....
"	Vulcher	Rules	4 " brick	12	12	.....	.....
"	S. O. Smith	"	4 " brick	6	6	.....	.....
"	C. Roberts	Rubber	4 " brick	40	20	20	.....
"	Newark Rivet Works	Rivets	2 " wood	25	25	.....	.....
"	Dan'l Delaney	Springs	3 " brick	20	20	.....	.....
"	Tomlinson Spring Co	"	3 " brick	80	80	.....	.....
"	Richardson & Boro	Saws	4 " brick	193	183	10	9
"	Bless & Drake	Smoothing irons	3 " brick	.....	.....	.....	.....
"	H. M. Richmond	Standard scales	3 " brick	9	9	.....	2
"	Bash & Greenfield	Shoddy	3 " brick	50	8	42	1
"	Tiffany & Co	Silver-plated ware	4 " brick	70	70	.....	.....
"	Elrick Art Tile Works	Stoves	4 " brick	15	15	.....	.....
"	Newark Pottery	Stone ware	3 " brick	6	6	.....	.....
"	Zipps Pottery	Pottery ware	1 " wood	13	13	.....	.....
"	I. Ogden & Son	"	2 " wood	25	25	.....	.....
"	Richardson	Saws	3 " brick	107	91	16	.....
"	E. E. Hogan	Shoes	4 " brick	240	140	100	.....
"	Johnson & Murphy	"	4 " brick	165	135	30	.....

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Newark	S. J. & J. Anderson	Shoes	4 stories of brick	100	80	20	.....	
"	W. Dirsh & Son	"	4 " brick	156	126	30	20	
"	Ober & Miller	"	4 " brick	100	80	20	.....	
"	Jas. A. Bannister	"	4 " brick	150	75	75	6	
"	John Burger	"	2 " wood	75	50	25	4	
"	August Len	"	4 " wood	80	65	15	.....	
"	Felter Bros	"	4 " brick	40	20	20	1	
"	P. Hogan	"	4 " brick	300	200	100	.....	
"	A. Schmidt & Co	"	4 " brick	80	65	15	.....	
"	Thos. Cirt Jr	"	2 " wood	63	55	8	.....	
"	J. During & Co	"	3 " brick	20	20	.....	.....	
"	A. J. Miller	"	4 " brick	18	6	12	.....	
"	Thos. Werton	"	3 " brick	20	.....	20	.....	
"	L. Boyden	"	4 " brick	155	125	30	.....	
"	Whitman Saddle Co	Saddles	2 " brick	16	16	.....	.....	
"	Wheeler & Shiner	Shirts	4 " brick	100	10	90	.....	
"	Thos. Linnett	"	4 " brick	38	5	33	.....	
"	A. F. Meagher	"	3 " brick	30	6	24	1	
"	C. H. Booth	"	3 " brick	9	.....	9	.....	
"	Manhattan Shirt Co	"	3 " brick	50	.....	50	.....	
"	Smith Shirt Co	"	4 " brick	30	4	26	.....	
"	Lowentraut S ate Works	Skates	3 " brick	100	100	.....	3	
"	Speaths Skate Works	"	3 " brick	10	10	.....	.....	
"	Newark Steel Works	Steel	2 " wood	500	500	.....	.....	
"	Harvey Steel Works	"	1 " wood	60	60	.....	.....	
"	Illingsworth Steel Works	"	2 " wood	400	400	.....	.....	
"	R. Heinrich & Son	Scissors	3 " brick	100	100	.....	.....	
"	J. Weirss	"	3 " brick	85	85	.....	4	
"	Clark's O. N. T	Thread	5 " brick	1,500	200	1,300	60	
"	Geo. B. Jenkinson	Trunks and bags	2 to 4 stories of brick	470	450	20	20	
"	Simon Bros	"	4 stories of brick	270	258	12	.....	
"	Lissa & Co	"	2 to 4 stories of brick	68	63	5	.....	
"	Edgar Farmer	"	4 stories of brick	124	116	8	8	
"	Wm. O. Headley & Co	Trunks	3 and 4 stories of brick	250	245	5	10	
"	J. Lacgowitz	"	4 stories of brick	350	320	30	14	
"	John Tobler & Son	Trunk rollers	2 " brick	70	68	2	5	
"	Geo. M. Ballard	Trunk hardware	1 " brick	30	30	.....	.....	
"	Oscar Barnett	"	2 " brick	40	40	.....	.....	
"	Phoenix Stamping Co	Stamping	4 " brick	10	10	.....	.....	
"	Central Stamping Co	Tinware	3 to 5 stories of brick	450	.....	.....	.....	
"	John Tobin & Co	"	2 stories of wood	25	24	1	.....	
"	A. Turner & Co	"	3 " brick	30	30	.....	.....	
"	N. J. Sheet and Metal Co	"	3 " brick	25	24	1	.....	
"	H. W. Woodman	Tin and Metal	4 " brick	30	30	.....	.....	
"	Stillwell & Co	Tools	2 " brick	15	15	.....	.....	
"	Dodge & Lyons	"	2 " brick	15	15	.....	.....	
"	H. L. Osborne	"	2 and 3 stories of brick	30	30	.....	.....	
"	Matthias Price	"	3 stories of brick	40	40	.....	.....	
"	Wm. Johnson	"	3 " brick	45	45	.....	4	
"	Henry Foster	"	3 " brick	18	18	.....	.....	

FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Newark	F. Wychelhaus	Tools	3 stories of brick	7	7	.....	.....
"	C. Osbourne	"	3 " brick	60	60	.....	5
"	Schewerman & Co	"	2 " brick	20	20	.....	.....
"	Newar Edge Tool Co	"	1 and 2 stories of brick	80	80	.....	.....
"	Campbell. Lane & Co	Tobacco	4 stories of brick	60	35	25	.....
"	Ladies' Undergarment Co	Undergarments	4 " brick	160	35	125	16
"	Ultamarine Works	Ultamarine blue	1 to 4 stories of brick	70	50	20	6
"	Newark Watch Co	Watches	4 stories of brick	30	30	.....	.....
"	Henry Le Fort	Watch crowns	4 " brick	150	145	5	.....
"	Pinnelli May & Co	" cases	4 " brick	25	23	2	.....
"	A. Milne	" crowns	4 " brick	25	25	.....	.....
"	Essex Watch Case Co	" cases	4 " brick	46	40	6	.....
"	Conivesier Watch Case Co	"	2 " brick	200	200	.....	.....
"	C. T. Williamson	Wire novelties	3 " brick	60	58	2	.....
"	Bogardus Art Co	Wood novelties	4 " brick	70	70	.....	.....
"	John Somers & Son	" ware	3 " brick	25	25	.....	.....
"	J. H. Watts' Sons	" turning	4 " brick	44	44	.....	.....
"	Dalrymple Faitoute	" "	2 " brick	10	10	.....	.....
"	Central Planing Mills	" "	1 story of wood	17	17	.....	.....
"	Ripley & Sons	Wood sawing etc	1 and 2 stories of wood	35	35	.....	.....
"	Chapin Hall Lumber Co	"	3 stories of brick	160	160	.....	.....
"	John Rindell & Son	"	3 " brick	60	60	.....	.....
"	Newark Planing Co	"	2 " brick	20	20	.....	.....
"	C. T. Miltz	Wood turning	3 " brick	7	7	.....	.....
"	M. Danklefsen	" and ivory turning	3 " brick	8	8	.....	.....
"	Wm. King & Co	" turning and sawing	3 " brick	100	100	.....	.....
"	Swain & Jones	" planing	2 and 3 stories of brick	16	16	.....	.....

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Newark	Hedden & Son	Wood sawing, etc	2 and 3 stories of wood	60	60		
"	The Oliver M'fg Co	Wagon wheels	1 stories of brick	15	15		
"	Searls, Randle & Co	Whip sockets	4 " brick	43	43		
"	The Eagle Winker Co	Winkers	4 " brick	30	22	8	
"	Rheneas, Jones & Co	Wheels	4 " brick	90	90		
"	Franklin Murphy & Co	Varnishes	2 " brick	50	50		
"	John L. Armitage	"	2 " brick	20	20		
"	N. J. Zinc and Iron Co	Zinc and iron	2 " brick	250	250		
West Orange	Edison Laboratory	Electric apparatus	1 to 3 stories of brick	500	300	200	
East Orange	Seaburys	Medicinal plaster	3 stories of brick	225	58	167	3
"	E. J. Brooks	Railroad supplies	3 " brick	30	23	7	
"	Spiral Weld Tube Co	Tubes	1 " brick	150	150		
South Orange	S. Orange Hat Co	Hats	3 " wood				
Orange	Cummings & Mathews	"	2 and 3 stories of brick	200	150	50	
"	No Name Hat Co	"	2 and 3 stories of brick	100	85	15	
"	F. Berg & Co	"	3 and 4 stories of brick	240	103	137	
"	McGall, Allen & Co	"	2 and 3 stories of brick	450	350	100	
"	E. V. Conett & Co	"	4 stories of brick	225	170	55	
"	Austin, Drew & Co	"	1 to 3 stories of brick	200	150	50	
"	Puff & Yeoumens & Co	"	3 stories of wood	60	50	10	
"	McChesney & Fisher	"	2 " wood	100	80	20	
"	Jenkins, Dodd & Co	Boxes	1 and 2 stories of wood	80	60	20	
"	F. O. Ingling	Paper boxes	3 stories of wood	27	13	14	
"	Long & Co	Hats	2 " wood	50	40	10	
"	Dougherty & Co	"	2 " wood	42	30	12	
"	Harrop, Gist & Co	"	2 stories, wood extension	90	60	30	
"	J. J. Perrine	"	1 to 2 stories of wood	80	60	20	
"	A. Dykman & Co	"	2 stories of wood	250	200	50	
"	A. Brandes	"	2 " wood	52	40	12	
"	Porter, Crofert & Co	"	2 " wood	150	120	30	
"	Brannen & Co	"	3 " wood	150	120	30	
"	Barry, Quinlan & Co	"	3 " wood	180	140	40	
"	Smith & Sons	"	2 " wood	65	50	15	
"	E. B. Whiting	"	2 " wood	35	25	10	
"	Jas. Young & Son	"	2 " wood	37	25	12	
"	Kearscher	"	2 " wood	80	60	20	
"	T. Walker	"	2 " wood	80	60	20	
"	F. G. Barber	Sash and blinds	2 " wood	20	20		
Bellville	DeWitt Wire Co	Wire	2 stories brick, 4 stories wood	150	75	75	
"	P. Hogan	Hats	3 stories of wood	50	35	15	
"	Oscar Neninger	Iron	2 " wood	5	5		
"	Riverside Rubber Co	Rubber	3 stories brick, 3 stories wood				
Bloomfield	P. Hayden	Harness mountings	1 to 3 stories of brick	80	78	2	
"	James Moffett	Brass goods	1 " wood	15	15		
"	R. S. Goumon	"	2 " wood	35	35		
"	H. K. & F. S. Benson	Silver plated metal	2 " wood	16	16		
Wattsesing	Thompson, Eller & Co	Hats	2 " wood	80	60	20	
"	Medical and Surgical Plaster Co	Medicinal plaster	2 " wood	20	14	6	

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FACTORIES INSPECTED.—Continued

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Wattsesing	De Laval Separator Co	Machinery	1 stories of brick	25	25	.....	.....
"	Thomas Oakes & Co	Woolen goods	3 " brick	189	149	40	10
"	Combination Rubber Co	Rubber	3 " brick	47	45	2	2
"	James Crisp	Sewing machine belts	4 " wood	10	10	.....	.....
"	S. Gibson	Hats	3 " wood	40	29	11	.....
"	Eller, Law & Co	"	2 " wood	100	82	18	.....
"	Eller Bros	"	3 " wood	90	72	18	.....
"	Peloubet Organ Co	Organs	3 " wood	75	75	.....	.....
Milbourn	H. Graves	Hats	2 " wood	35	20	15	.....
"	F. Forrat	"	2 " wood	80	60	20	.....
Franklin	Kingsland Paper Mill	Paper	1 to 3 stories of wood	45	29	16	.....
Montclair	Samuel Crump & Co	Labels	1 story of brick	275	235	40	10
Rahway	Gordon Press Works	Printing presses	2 and 4 stories of brick	30	30	.....	.....
"	Henry Rosenbaum	Shirts	2 stories of wood	175	50	125	20
"	W. L. Mershorn	Printers	3 " brick	140	105	35	.....
"	W. L. Mershorn	"	3 " brick	60	48	12	.....
"	Laforge Wheel and Spoke Works	Wheels, spokes and springs	4 " brick	20	20	.....	.....
Raritan	Raritan Woolen Mills	Woolen goods	4 " brick	560	410	150	32
"	Somerset Mfg. Co	"	2 " brick	360	285	75	40
"	Kenyon & Bros	Machinery	1 to 3 stories brick	40	40	.....	.....
Perth Amboy	Henry Mauer & Sons	Fire brick	2 to 3 stories brick	190	190	.....	3
"	Amboy Terra Cotta Co	"	1 to 3 stories brick	400	400	.....	4
"	Arthur Buel & Co	Paris white-chalk	1 to 2 stories brick	25	25	.....	.....
"	United Refiners Export Co	Oil refiners	2 stories of wood	75	75	.....	4
"	Henry White	Foundry	2 " wood	14	14	.....	.....
"	Rosseler, Hassbacker & Co	Chemicals	2 " brick	12	12	.....	3
"	Ashland Emery Mill	Emery paper	1 to 3 stories of wood	15	15	.....	.....

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Perth Amboy	Thos. Lingley	Machinery	2 stories of wood	15	15	.....	.....	
"	Raritan Power Co	Pressed bricks	4 " wood	125	125	.....	4	
"	John Hornsby & Co	Fire brick	3 " wood	35	35	.....	4	
Plainfield	Vandeventer & Co	Carpet	2 " wood	55	10	45	4	
"	Pond Tool Co	Tools	1 and 2 stories of brick	400	400	.....	2	
"	Potter Printing Press Works	Printing presses	1 stories of brick	220	220	.....	.....	
"	Walter Scott & Co	"	2 " brick	160	160	.....	.....	
"	Centeral Co	Table oil cloth	1 and 2 stories of brick	45	45	.....	.....	
Long Branch	Piddington Bros	Sash and blinds	2 stories of wood	9	9	.....	.....	
"	L. D. Edwards	Planing mills	2 " wood	120	120	.....	.....	
Littlesilver	E. G. Hazard & Co	Catsup	2 stories brick, 1 story wood	50	20	30	.....	
Mattawan	J. L. Rue	Sash and blinds	2 " wood	40	40	.....	.....	
"	R. C. Winters	Horse collars	3 " brick	16	16	.....	.....	
"	Dunn, Dunlap & Co	Stoneware	2 " brick	16	16	.....	.....	
"	W. D. Bailey	Sash and blinds	2 " wood	13	13	.....	.....	
Menlo Park	Menlo Park Ceramanic Works	Volkmar tiles	3 " brick	10	8	2	.....	
Red Bank	C. C. Reagles	Billiard balls	2 " wood	4	4	.....	.....	
"	L. P. Conklin	Sash and blinds	2 " wood	12	12	.....	.....	
"	J. Broadmeadow	Canned goods	3 " wood	57	22	35	.....	
"	C. L. Davis	Sash and blinds	1 " stone	13	13	.....	.....	
"	J. W. Mount & Bros	Carriages	2 " wood	13	13	.....	.....	
"	J. W. Stout	Canned goods	1 " brick	175	75	100	.....	
"	Rodgers & Walling	Carriages	2 " wood	10	10	.....	.....	
"	E. R. Roberts	Safety boilers	1 " brick	12	12	.....	.....	
South River	John Whitehead & Co	Bricks	1 " wood	60	60	.....	.....	
"	Mark Davison & Co	Shirts	1 " wood	22	4	18	.....	
"	Herman Aukman & Co	Handkerchiefs	3 " brick	400	100	300	26	
South Amboy	Swan Hill Pottery	Stoneware	2 " bric	40	40	.....	.....	
"	South Amboy Tile Co	Tile	2 " brick	27	27	.....	.....	
Tremley	Cartereh Brick Works	Building brick	1 " brick	35	35	.....	.....	
"	Standard Chemical Co	Acids	1 stories brick, 2 stories wood	55	55	.....	.....	
Woodbridge	Salamander Works	Fire brick	1 and 2 stories of brick	72	72	.....	.....	
"	W. H. Berry & Co	"	2 stories brick, 2 stories wood	45	45	.....	.....	
"	Valentine Bros	"	2 " brick	72	72	.....	.....	
"	Spa Springs Brick Co	Building brick	2 " brick	40	40	.....	.....	
"	Amiss & Lyle Manufacturing Co	Fire brick, etc	2 " brick	200	200	.....	.....	
Asbury Park	H. J. Rodgers & Rodgers	Sash and blinds	1 and 2 stories of wood	35	35	.....	.....	
Bound Brook	Bound Brook Woolen Mills	Woolens	2 " brick	275	185	90	11	
"	Hickman Hose Coupling Co	Gas fixtures	2 " wood	69	51	18	.....	
"	Hartford Air Pump Co	Compressed air pumps	2 " brick	25	25	.....	.....	
"	Standard Paint Co	Roofing felt	1 " wood	17	17	.....	.....	
"	Shackelton Car Heating Co	Steam radiators, etc	2 " wood	50	50	.....	.....	
Cartereh	Colwell Iron Works	Machinery	1 and 2 stories of brick	148	148	.....	2	
"	Williams, Clark & Co	Fertilizers	1 and 2 stories of wood	50	48	2	2	
Elizabeth	Washington Rubber Works	Rubber clothing	4 stories of brick	78	28	50	.....	
"	Peter Briedth	Brewery	4 " brick	28	28	.....	.....	
"	P. Sheridan	Planing mill	2 " brick	14	14	.....	.....	
"	Chas. H. Forsyth	Drain pipe	3 " wood	11	11	.....	.....	

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FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Elizabeth	City Flour Mills	Flour and feed	3 stories of wood	11	11	.....	.....
"	Pacific Rubber Co	Rubber clothing	2 " wood	28	8	20	1
"	Chas. Miller & Co	Hardware	2 " wood	7	7	.....	.....
"	Elizabeth Nickel Plating Co	Novelties	2 " wood	7	7	.....	.....
"	Lamberts Machine Works	Machinery	2 " wood	6	6	.....	.....
"	Jas. Waddell	Plumbing supplies	1 " wood	3	3	.....	.....
"	D. B. Churchill	Shirts	1 " brick	55	4	51	4
"	Union Oil Cloth Co	Table oil cloth	2 " wood	17	16	1	.....
"	A. & F. Brown	Machinery	2 " wood	75	75	.....	.....
"	Elizabeth Cordage Co	Rope and twine	1 to 3 story of brick	500	300	200	16
"	Haywood & Co	Clothing	3 stories of brick	40	8	32	.....
"	Isaac Worrall	Machinery	1 to 3 stories of brick	12	12	.....	.....
"	Sam'l Moore & Sons	"	1 to 3 stories of brick	200	200	.....	.....
"	W. H. Rankin	Felt roofing	1 stories of brick	16	16	.....	.....
"	G. M. Grafh & Co	Stoves	2 " brick	44	44	.....	.....
"	Elizabeth Oil Cloth Co	Table oil cloth	1 and 2 stories of brick	205	205	.....	.....
"	Eugene Mansell & Co	Stoves	4 stories of brick	100	100	.....	.....
"	W. O. Smith	Shears	1 " brick	7	7	.....	.....
"	Rising Sun Brewing Co	Brewery	3 " brick	18	18	.....	.....
"	L. B. Beerbower & Co	Pottery	3 " brick	100	82	18	16
"	N. J. Dry Dock Planing Mill	Planing mill	1 " wood	75	75	.....	.....
"	N. Y. Fire Proof Paint Co	Fire proof paint	1 " wood	4	4	.....	.....
"	Borne, Sergmaer & Co	Oil refinery	3 " brick	95	95	.....	.....
"	Bowker Fertilizer Co	Fertilizer	1 to 4 stories of wood	125	125	.....	.....
"	Staten Chemical Co	Chemicals	1 and 2 stories of wood	22	22	.....	.....
"	N. J. Extraction Works	Copper and silver	2 stories wood, 2 stories brick	100	100	.....	.....
"	Singer Manufacturing Co	Sewing machines	1 to 4 stories of brick	3,229	3,029	200	200

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Elizabeth	Central R. R. Co	Railroad cars	1 and 2 stories of brick	500	500	.....	.....
"	Thos. H. Smith	Hats	3 stories of brick	49	12	37	.....
"	Alfred S. Campbell	Advertising cards	2 " wood	47	24	23	16
"	Joseph Blatz	Tannery	3 " brick	60	60	.....	.....
Keyport	C. S. Bucklin	Canned goods	1 " brick	100	30	70	.....
Linden	Lion Silk Mfg. Co	Silk	2 " brick	46	20	26	6
Manasquan	W. B. Taylor	Sash and blinds	2 " wood	4	4	.....	.....
"	Thomas Vauhn	Shirts	3 " wood	18	2	16	.....
"	R. F. Vanshoick	Sash and blinds	1 " wood	5	5	.....	.....
"	W. M. Stouh & Son	Canned goods	2 " wood	30	10	20	.....
"	D. B. Wyckoff & Sons	Flour and feed	2 " wood	18	18	.....	.....
New Brunswick	Consolidated Fruit Jar Co	Fruit jar tops, etc	2 to 4 stories of wood	350	302	48	13
"	N. J. Lamp and Bronze Co	Bronze goods	4 stories of wood	80	73	7	1
"	Janeway & Co	Wall paper	5 " wood	150	150	.....	3
"	N. J. Rubber Co	Rubber shoes, etc	4 " wood	500	250	250	31
"	Washington Rubber Co	"	4 " wood	403	254	149	1
"	Janeway & Carpenter	Wall paper	5 " wood	250	223	27	13
"	Adam Green	Earthenware	3 " wood	15	15	.....	.....
"	George Butler & Sons	Sash and blinds	2 " brick	42	42	.....	.....
"	Crouke & Voorhees	"	2 " brick	37	37	.....	.....
"	John Guible	Shoes	2 " brick	17	12	5	.....
"	J. B. Archer	"	3 " brick	25	18	7	.....
"	J. Messrole	Shirts	2 " wood	26	1	25	.....
"	Norfolk and New Brun'wk Hosiery Co.	Knit goods	4 " wood	800	300	500	40
"	L. J. Ives & Co	Machine needles	3 " wood	50	50	.....	.....
"	Johnson and Johnson	Medicinal plasters	3 " wood	125	45	80	.....
"	Middlesex Shoe Company	Shoes	3 " wood	150	97	53	4
"	S. B. Vannise	Carriages	3 " wood	8	8	.....	.....
"	J. D. Watson & Co	Colors	3 " wood	7	7	.....	.....
Freehold	Henry Rothschild & Co	Shirts	2 " brick	350	150	200	1
"	J. M. Allen	Segars	2 " wood	9	3	6	.....
"	Combs & Bowden	Iron foundry	1 to 3 stories of brick	40	40	.....	.....
"	Stokes Bros. Mfg. Co	Files	1 and 2 stories of brick	20	20	.....	.....
Rahway	Taylor & Bloodgood	Underwear	2 and 3 stories of wood	200	170	30	.....
Jamesburg	Wm. H. Martin	Shirts	1 story of wood	45	2	43	.....
"	Downs & Finch	"	1 and 2 stories of brick	348	173	175	3
Helmetta	G. W. Helme Co	Tobacco and snuff	3 to 6 stories of brick	198	152	46	.....
Milltown	Meyer Rubber Co	Rubber boots and shoes	3 & 4 stories brick, 3 & 4 wood	450	250	200	.....
Bridgeton	Soll, Miller & Co	Shirts	3 stories of brick	30	3	27	.....
"	Moorehouse & Lenhart	Paper	2 " brick	40	28	12	.....
"	Probasco & Lanning	Canned goods	2 " wood	125	25	100	25
"	Cumberland Glass Co	Glass	1½ " wood	270	270	.....	60
"	Ferracute Machine Co	Machinery	3 " wood	80	79	1	.....
"	Barker Bros	Glass	1½ " wood	20	20	.....	2
"	Home Knitting Mills	Hosiery	2 " brick	25	7	18	2
"	J. L. Rice & Co	Shoes	2 " wood	42	29	13	.....
"	Getzinger & Son	Glass	2 " wood	157	156	1	8
"	East Lake Glass Co	"	1½ stories of wood	80	80	.....	.....

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FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Bridgeton	Cohancy Glass Co	Glass	1 to 3 stories of wood	540	538	2	46
"	Moore, Jones & Moore	"	1½ stories of wood	155	155	.....	30
"	Burgis, Montelius & Co	Shirts	3 stories of brick	75	5	70	4
"	Cumberland Nail and Iron Co	Nails	1½ " brick	308	308	.....	8
"	Perfection Funnel Co	Funnels	2 " wood	12	9	3	.....
"	C. E. Lanning	Iron foundry	2 " brick	9	9	.....	.....
"	Bridgeton Mills	Enamel cloth	1 " brick	30	26	4	.....
"	East Lake Woolen Co	Woolen goods	3 " brick	100	60	40	12
Camden	Camden Woolen Mills	Woolen cloth	3 " brick	351	251	100	15
"	Wm. Conlin	Shoes	3 " brick	7	6	1	.....
"	N. J. Knitting Mills	Underwear	3 " brick	25	3	22	7
"	Northrop M'f'g Co	Steam tricycles	3 " brick	5	5	.....	.....
"	Jos. Campbell & Co	Preserves	3 " brick	45	35	10	2
"	H. B. Anthony	Shoes	3 " brick	100	75	25	6
"	Harvey & Green	"	3 " brick	10	6	4	1
"	Dorrell & Seymour	"	3 " brick	30	18	12	2
"	Burke & Co	"	3 " brick	40	22	18	2
"	West Jersey Paper Co	Paper	3 " brick	30	27	3	1
"	T. J. Francis	Cigar boxes	3 " brick	4	2	2	.....
"	William Butcher	Shoes	2 " wood	25	17	8	.....
"	Brighton Mills	Rubber	3 " brick	45	33	12	3
"	M. A. Furbush & Son	Woolen machinery	3 " brick	200	200	.....	6
"	W. Wharton Fisher	Dye stuffs	1 and 2 stories of brick	32	30	2	.....
"	I. L. Cragin & Co	Soap	3 stories of brick	15	10	5	.....
"	Adams & Boltenhouse	Shoes	2 " wood	30	19	21	1
"	Kifferley Morocco Co	Morocco	2 and 3 stories of brick	125	121	4	2
"	Isaac Ferris	Shoes	2 stories of wood	60	40	20	.....

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Camden	Cotrell & Wolfenden	Hosiery	2 stories of brick	100	40	60	12
"	Edw'd Richardson	Shoes	3 " brick	30	15	15	.....
"	C. & F. Boulter	Hosiery	3 " brick	10	3	7	2
"	W. D. Williams & Co	Dental equipments	3 " brick	10	10	.....	.....
"	Wm. C. Scudder & Co	Sash and blinds	2 " brick	50	50	.....	.....
"	Julien Electric Light Co	Storage batteries	3 " brick	28	28	.....	.....
"	D. B. Murphy	Files	2 " brick	5	4	1	.....
"	Abrofoil Mill	Ginghams	2 " brick	60	20	40	1
"	E. G. Locke	Glazed paper	4 " brick	13	13	.....	.....
"	Acroid & Scull	Worsted yarn	3 " brick	96	44	52	15
"	E. A. Richardson	Shoes	3 " brick	48	29	19	3
"	R. H. Comey	Dye works	3 " brick	25	25	.....	.....
"	J. C. Dunn & Co	Oil cloth	2 " brick	75	75	.....	.....
"	Priestly & Co	Woolens	1 " brick	150	50	100	
"	Pacific Laundry	Laundry	3 " brick	31	11	20	.....
"	Anderson Preserving Co	Canned goods	2 " brick	100	25	75	3
"	J. G. Stratton	Scroll sawing	3 " brick	7	7	.....	.....
"	A. F. Matthews	Shoes	3 " brick	7	5	2	2
"	D. H. Kelly	"	3 " brick	28	17	11	1
"	Wm. S. Scull & Co	Spices	3 " brick	14	8	6	.....
"	S. B. Goff	Medicines	3 " brick	6	4	2	.....
"	Esterbrook Pen M'fg Co	Steel pens	2 to 4 stories of brick	350	50	300	10
"	Geo. Shimer & Boyer	Glass	1½ stories of iron	225	225	.....	25
"	Highland Worsted Mills	Worsted yarns	4 " brick	250	50	200	20
"	Howland Croft & Son	"	4 " brick	400	150	250	30
Millville	Millville M'fg Co	Cotton goods	3 " stone	360	113	247	45
"	Wheaton & Schull	Glass	1½ " wood	80	69	11	5
"	R. D. Wood & Co	Iron pipe	2 " stone	130	130	.....	.....
"	Manantico Dye Works	Dyeing and bleaching	2 " stone	200	194	16	10
"	Whitall, Tatem & Co	Glass	2 and 3 stories of stone	1,145	1,100	45	224
"	Geo. S. Bennett	"	1½ stories of stone	40	40	.....	3
Woodbury	Woodbury Glass Works	"	1 " wood	134	127	7	31
"	Geo. G. Green	Medicines	3 " bric	75	50	25	.....
"	John Wyeth & Bro	Malt extract	3 " stone	28	15	13	.....
"	C. & F. Boulter	Hosiery	2 " brick	65	15	50	6
"	Woodbury M'fg Co	Novelties	2 " brick	16	15	1	1
"	Standard Window Glass Co	Window glass	1½ " wood	64	64	.....	1
Newfield	R. J. Worrell	Baby coaches	1 " wood	29	16	13	.....
Fairton	Gibson, Horton & Co	Glass	1 " wood	50	49	1	6
Mount Holly	E. B. Jones & Co	Canned goods	2 " wood	150	70	80	8
"	Anderson & Son	"	2 " wood	150	50	100	15
"	Mt. Holly Shoe Co	Shoes	2 " wood	85	45	40	3
"	Wm. Holt	Paper boxes	2 " wood	11	1	10	1
"	Fitzpatrick & French	Shoes	3 " brick	75	35	40	.....
"	R. W. Bowker	"	2 " wood	45	25	20	2
"	Lynn & Pettit	Cocoa mats	2 " brick	35	27	8	1
Vineland	E. O. Mills & Co	Pearl buttons	1½ " wood	24	22	2	.....
"	Albert Markland	"	1 " wood	4	3	1	1

FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Vineland	H. Chandler	Shoes	3 stories of brick	56	36	20	1
"	John Northrop & Co	"	3 " brick	21	11	10	.....
"	Chas. Keighley	"	3 and 4 stories of brick	130	96	34	.....
"	W. P. Proctor	"	2 stories of brick	40	20	20	1
"	Holmes, Prince & Co	"	2 " wood	50	39	11	3
"	Gage Tool Co	Edge tools	2 " wood	11	11	.....	2
"	Blairdell Machine Works	Machinery	2 " wood	5	5	.....	.....
"	Jos. Mason	Shoes	3 " brick	30	18	12	2
"	W. A. Daggert	Baking pans	3 " brick	12	12	.....	.....
"	Wm. Cloid	Printer	3 " brick	5	3	2	.....
"	Tillyer Bros	Glass	1½ " wood	100	100	.....	2
"	Armstrong Sons	Castings	2 " brick	13	13	.....	.....
"	Robert Pond	Boxes	1 " stone	4	4	.....	.....
"	Leach & Bros	Saw mill	1 " wood	8	8	.....	.....
"	Kimball Band Saw Co	Band saws	2 " wood	4	4	.....	.....
"	Corner & Billings	Smyrna rugs	2 " wood	6	3	3	.....
"	Kimball, Prince & Co	Sash and blinds	2 " wood	14	14	.....	.....
"	Geo. Cheever	Paper boxes	3 " brick	8	2	6	.....
"	Adam Weber & Son	Brass foundry	1 " wood	5	5	.....	.....
"	Thos. Hirst	Rugs	2 " brick	50	25	25	4
Riverside	Kellog & Lambers	Shoes	2 " wood	74	40	34	5
"	Fred. Pfiifer & Son	Hosiery	1 " brick	13	3	12	1
"	Fauble Bros	"	1 " brick	83	38	45	25
"	Christian Dick	"	1 " brick	24	15	9	.....
"	Pfau Bros	Shoes	2 " wood	30	20	10	3
Beverly	Beverly Hosiery Mills	Hosiery	2 " brick	45	20	25	6
"	Stockton & Co	"	2 " wood	5	4	1	.....

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Beverly	Davis Bros	Shoes	2 stories of wood	35	25	10	.....
"	Geo. Birkhead	Shirts and skirts	2 " brick	17	1	16	.....
Hammonton	C. F. Osgood & Co	Shoes	2 " wood	30	20	10	5
"	Wm. Burnhouse	Sash and blinds	3 " brick	20	20	.....	2
"	John T. French	Paint	2 " wood	5	5	.....	.....
"	Whiffer Bros. & Co	Shoes	2 " wood	75	40	35	3
Pleasantville	Graphic Corporate Co	Printing machines	1 " brick	150	150	.....	.....
"	Pleasantville M'fg Co	Plumbers' supplies	1½ " wood	45	40	5	.....
"	Inventors M'fg Co	Machine work	2 " wood	6	6	.....	.....
Winslow	Winslow Glass Works	Glass	2 and 3 stories of wood	250	250	.....	25
Elmer	Luke F. Smith	Canned goods	1½ stories of wood	135	55	80	5
"	Chas. S. Cotting	Iron goods	2 " brick	30	30	.....	1
"	Butcher & Wadington	Window glass	1½ " wood	45	45	.....	3
"	Brooks & Bacon	Shoes	2 " wood	59	39	20	.....
Greenwich	Job Bacon	Canned goods	1 " wood	330	110	220	25
"	B. F. Maul & Co	"	1 " wood	100	40	60	6
Clayton	Moore Bros	Glass	2 stories wood, 2 stories brick	300	300	.....	125
"	T. M. Peirce & Co	"	1½ stories of wood	112	112	.....	25
Gloucester	Washington M'fg Co	Cotton goods	4 " brick	698	332	362	40
"	Gloucester M'fg Co	Calico prints	2 " brick	280	220	60	.....
"	Walshback Incandescent Gas Co	Incandescent burners	2 " brick	75	23	52	.....
"	Gloucester Gingham Mills	Gingham	2 " brick	475	225	250	32
"	Gloucester Iron Works	Iron pipe	2 and 3 stories of brick	360	360	.....	.....
Salem	John Gayner	Glass	1½ stories of wood	85	81	4	4
"	Morris & Dann	Oil cloth	4 " brick	70	70	.....	.....
"	Craven Bros	Glass	1½ " wood	274	274	.....	120
Mays Landing	Mays Landing W. P. Co	Cotton goods	3 " stone	245	166	79	32
Glassboro	Whitney Glass Co	Glass	1½ " wood	600	597	3	65
"	Warwick Glass Co	"	1½ " wood	150	150	.....	.....
Quinton	Hires & Co	"	2 " brick	100	100	.....	.....
Egg Harbor City	Jacob Obert	Clothing	1 " wood	5	2	3	.....
"	Andrew Beck	"	1 " wood	6	3	3	.....
"	Geo. Ruck	"	1 " wood	9	5	4	.....
"	Adolph Muller	"	1 " wood	7	2	5	.....
"	John Winterberg	"	2 " wood	9	4	5	.....
"	Fred Schuhardt	"	1 " wood	8	2	6	.....
"	Geo. Muller	"	1 " wood	7	2	5	.....
"	Isaac Bernstein	"	1 " wood	9	3	6	.....
"	Geo. Shoemaker	"	2 " wood	8	3	5	.....
"	John Ramsey	Cigars	2 " wood	18	13	5	.....
"	Jacob Reutch	Clothing	1 " wood	8	4	4	.....
"	Henry Beyer	"	1 " wood	8	4	4	.....
"	Chas. Kraus & Son	Canned goods	1 " wood	45	5	40	7
"	John Schwenghammer	"	2 " brick	75	15	60	15
Trenton	Phœnix Iron Co	Structural iron	2 " brick	200	200	.....	.....
"	Trenton Woolen Co	Woolens	3 " brick	109	51	58	7
"	Trenton Vise and Tool Co	Tools	3 " brick	85	85	.....	.....
"	Davis Soap and Chemical Co	Soap and candles	2 " brick	10	10	.....	.....

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FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Trenton	Fisher & Norris	Anvils	2 " brick	50	50	.....	.....
"	Jos. Mayer Pottery Co	Majolica ware	3 stories brick, 2 stories wood	90	60	30	3
"	Trenton China Co	Vitrified china	3 stories of brick	115	91	24	10
"	O. O. Bowman & Co	Terra cotta ware	3 " brick	60	60	.....	.....
"	N. J. Steel and Iron Co	Structural iron, etc	2 " wood	840	840	.....	1
"	Alpaugh & McGowan	Sanitary pottery ware	4 " brick	230	165	65	8
"	Enterprise Pottery Co	"	4 " brick	132	112	10	2
"	Israel Lacy	Pottery ware	3 " brick	200	163	37	25
"	Star Rubber Co	Rubber goods	3 " brick	172	172	.....	2
"	Mercer Pottery Co	Pottery ware	3 " brick	273	178	95	32
"	Home Rubber Co	Rubber goods	3 " brick	75	65	10	.....
"	Willetts M'fg Co	Sanitary pottery ware	3 and 4 stories of brick	250	210	40	15
"	John O. Dowd	Pottery stilts	2 stories of brick	13	5	8	2
"	S. K. Wilson—Fair st. and Factory st.	Woolen goods	4 " brick	700	250	450	82
"	John A. Roebling's Sons	Wire rope	1 to 4 stories of brick	900	800	100	3
"	N. J. Wire Cloth Co	Wire cloth	2 stories of brick	150	100	50	.....
"	Trenton Iron Co	Wire	2 and 4 stories of brick	700	700	.....	.....
"	W. Kirk	Planing mill	1 stories of brick	10	10	.....	1
"	Scudder & Co	Sash and blinds	2 " brick	15	15	.....	.....
"	Duncan & McKenzie	Machinery and boilers	3 " brick	80	80	.....	.....
"	N. J. Agricultural Co	Agricultural implements	2 " brick	22	22	.....	.....
"	American Saw Co	Saws	3 " brick	75	75	.....	.....
"	Dibble M'fg Co	Hemacite goods	3 " brick	35	35	.....	.....
"	N. J. Match Co	Matches	2 " brick	60	15	45	9
"	East Trenton Pottery Co	Pottery ware	3 " brick	150	100	50	11
"	Ott & Brewer Pottery Co	"	4 " brick	300	215	85	14
"	B. W. Titus Sons	Flannels	2 " brick	125	45	80	20

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Trenton	W. Kimble	Vitrified china	2 " stone	25	10	15	3	
"	Dale & Davis	Pottery ware	3 " brick	140	97	43	4	
"	Oliphant & Co	Sanitary pottery ware	3 " brick	207	192	15	1	
"	Crescent Pottery Co	"	4 " brick	256	210	46	11	
"	Thos. Maddock & Sons	"	3 and 4 stories of brick	300	250	50	3	
"	John Moses	Pottery ware	4 stories of brick	275	227	48	13	
"	Greenwood Pottery Co	Vitrified china	2 to 4 stories of brick	250	206	44	20	
"	Adam Exton & Co	Crackers	2 stories of brick	50	50	.....	26	
"	J. S. Thorn	"	2 " brick	32	32	.....	13	
"	Trenton Cracker Co	"	2 " brick	21	21	.....	7	
"	Trent Tile Co	Glazed tile	3 " brick	147	108	39	8	
"	Providental Tile Co	"	2 " brick	53	37	16	3	
"	Fell & Baker	Bricks	1 " wood	60	60	.....	9	
"	H. H. Garwood	Shoes	3 " brick	35	19	16	3	
"	Fell & Heil	Bricks		130	130	.....	23	
"	Fell & Heath	"		90	90	.....	9	
"	H. C. Kafer & Co	"		87	87	.....	7	
"	Donohue & Nolen	"		100	100	.....	13	
"	B. F. Walton	"		116	116	.....	20	
"	Applegate & Co	"		100	100	.....	13	
"	Fell & Roberts	"		97	97	.....	9	
"	Operative Pottery Co	Pottery ware	2 stories of brick	40	29	11	3	
"	Trenton Rubber Co	Rubber goods	2 " brick	152	152	.....	.....	
"	E. Darlington Decorating Co	Pottery decorators	1 " brick	38	8	30	2	
"	International Pottery Co	Pottery ware	2 and 4 stories of brick	192	166	26	6	
"	W. C. Hendrickson & Co	Pottery decorators	3 stories of brick	35	16	19	1	
"	Leigh	Paper boxes	2 " brick	22	3	19	1	
"	Throp & Fell	Pottery ware	3 " brick	150	134	16	7	
"	Whittaker	Chains	1 " wood	25	25	.....	.....	
"	John Watson	Machinery	2 " brick	50	50	.....	.....	
"	John E. Thropp	"	2 " brick	50	50	.....	.....	
"	Jos. Crossley	"	1 " brick	30	30	.....	.....	
"	Peter Wilkes	"	3 " brick	35	35	.....	.....	
"	Chas. W. Donohue	Pottery stilts	2 " brick	10	3	7	2	
"	McCardle, West & Farrell	Carriages	3 " brick	25	25	.....	.....	
"	Fitzgibban & Crisp	"	3 " brick	40	40	.....	.....	
"	Yetter Bros	"	2 " wood	12	12	.....	.....	
"	The Ceramic Art Co	Artistic pottery ware	3 " brick	20	20	.....	.....	
"	Pope & Lee	Pottery decorators	2 " brick	25	5	20	3	
"	Swan & Whitehead	Lamps	3 " brick	85	30	65	10	
"	Dean Decorating Co	Pottery decorators	2 " brick	160	100	60	4	
"	Eagle Pottery Co	Pottery ware	3 " brick	160	100	60	4	
"	Trenton Spring Mattress Co	Spring mattresses	3 " brick	80	35	45	.....	
"	Clark Bros. Pottery Co	Pottery ware	3 " brick	130	115	15	6	
Yardville	Jas. W. Vogst	Cotton batting	1 " brick	12	6	6	.....	
Groveville	Morris Bros	Cotton goods	3 " brick	140	70	70	16	
Hamilton Square	Mercer Rubber Co	Rubber goods	3 " brick	55	55	.....	2	
Hamilton Township	Whitehead Bros	"	2 " stone	50	50	.....	.....	

FACTORIES INSPECTED—Continued.

LOCATION.	NAME OF COMPANY.	GOODS MANUFACTURED.	DESCRIPTION OF BUILDINGS.	Number of Employes.	Males.	Females.	Under 16 Years.
Bordentown	Jacob Miller's Sons & Co	Shirts	3 stories of brick	175	12	163	1
"	W. R. Flynn & Co	Collars and cuffs	3 " brick	33	6	27	1
Flemington	Fulper Bros	Stone ware	2 " brick	14	14	.....	1
Lambertville	J. C. Weeden & Co	Copying paper	1 and 2 stories of brick	20	15	5	.....
"	Wm. Mann	"	3 stories of brick	20	12	8	.....
"	Lambertville Rubber Co	Rubber goods	2 " wood	126	95	31	.....
Burlington	The McNeal Pipe and Foundry Co	Cast iron pipe	1 " stone	350	350	.....	.....
"	Burlington Iron Co	Iron castings	2 " brick	35	35	.....	.....
"	Estate of W. Bunting	Shoes	3 " wood	97	62	35	5
"	I. S. Kimble	"	2 " wood	16	11	5	.....
"	T. J. Rodgers & Bro	"	3 " brick	20	10	10	.....
"	C. B. Spencer	"	2 " wood	38	21	17	2
"	John Lippincott	"	2 " wood	12	8	4	.....
"	John Stokley	"	2 " wood	40	25	15	3
"	G. W. Lewis & Son	"	3 " wood	100	50	50	6
"	R. T. Wood & Co	"	2 " wood	110	65	45	5
"	G. A. Latta	"	3 " wood	35	25	10	2
"	J. F. Budd	"	3 " wood	145	91	54	4
"	Geo. R. Apple	Drain pipe	3 " brick	10	10	.....	.....
Port Oram	Ross & Baker	Silk	2 " wood	185	60	125	12
Dover	Geo. Singleton	"	2 " brick	150	60	90	45
Hackettstown	Ashley & Shaw	"	2 " brick	62	35	27	27
Newton	Sussex Shoe Co	Shoes	2½ " brick	100	70	30	5
"	H. W. Merrimen Shoe Co	"	5 " brick	345	222	123	15
Rockaway	C. H. Wilcox	Cardigan jackets	1 " brick	60	20	40	15
Phillipsburg	Standard Silk Co	Silk	4 " brick	360	154	206	54
"	Warren Foundry and Machine Co	Cast iron pipe	1 and 2 stories of wood	400	400	.....	2

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Phillipsburg	Phillipsburg Stove Co.	Stoves	2 and 3 stories of brick	45	45	.....	.....
"	American Sheet Iron Co.	Sheet iron	1 stories of wood	75	75	.....	.....
"	T. P. Howe	Bar iron	1 " wood	93	93	.....	.....
Washington	Washington Shoe Co.	Shoes	3 " brick	62	35	25	2
"	Cornish & Co.	Organs	3 " wood	75	70	5	.....
"	C. P. Bowlby	"	3 " wood	30	30	.....	.....
"	H. W. Alleger	"	3 " wood	35	35	.....	.....
"	The Beethoven Organ and Piano Co.	"	4 " wood	135	130	5	2
Hackensack	Givernaud Bros.	Silk	3 " bric	250	170	80	.....
Rutherford	Standard Bleachery	Bleaching	3 " brick	88	63	25	14
"	Jaeget & Co.	Tinware	2 " brick	19	19	.....	.....
Butler	Butler Hard Rubber Co.	Rubber goods	2 " brick	575	375	200	50
Lodi	Burns Bros.	Calico prints	2 " brick	100	35	65	5
Boonton	Bellgram & Meyers	Silk	3 " brick	225	124	101	32
Paterson	Dolphin M'fg Co.	Flax	4 " brick	800	300	500	200
"	Barbour's (Spruce st. mills)	"	4 " brick	214	44	170	40
"	" (Grand st. mills)	"	4 " brick	1,200	500	700	144
"	Adams Essex Mills	Cotton goods	4 " brick	195	65	130	22
"	J. A. Hall & Co.	Mill supplies	3 " brick	130	50	80	12
"	Kearney & Foote	Files	1 " brick	190	190	.....	.....
"	Sutherland & Edwards	Jute	1 " brick	60	22	38	.....
"	John Ryle's Sons	Machinery	4 " brick	43	43	.....	.....
"	Watson Machine Co.	"	3 " brick	125	125	.....	.....
"	Jackson & Jacquard	"	2 " brick	35	35	.....	.....
"	Cook Locomotive Works	"	3 " brick	600	600	.....	.....
"	McNab & Harlin	Brass goods	3 " brick	270	270	.....	10
"	B. Eastwood	Machinery	4 " brick	300	300	.....	.....
"	Roger's Locomotive Works	Locomotives	4 " brick	1,000	1,000	.....	.....
"	Van Riper M'fg Co.	Bobbins	3 " brick	50	50	.....	.....
"	Pearless Plush Co.	Plush	2 " wood	70	58	12	3
"	Lyons Silk Co	Silk	3 " brick	30	25	5	1
"	Ashley & Bailey	"	3 " brick	600	300	300	25
"	Haley & Heyley	"	2 " brick	40	21	19	10
"	Peter Casper	"	3 " brick	30	20	10	.....
"	Columbia Silk Co.	"	4 " brick	27	12	15	3
"	Fred Allcock	"	4 " brick	250	100	150	10
"	Thos. Henshall	"	1 " brick	46	26	20	7
"	Domestic Tapestry Co.	"	3 " brick	50	39	11	2
"	Cole & Knett	"	3 " brick	100	50	50	3
"	Comforth & Marx	"	3 " brick	65	45	20	4
"	Jos. Hartley	"	3 " brick	35	15	20	1
"	Alfred Crew	"	4 " brick	32	24	8	2
"	McGill & Farnhoust	"	4 " brick	26	19	7	2
"	John Simpson & Co.	"	4 " brick	56	44	12	2
"	John C. Ryle	"	1 " brick	53	20	33	.....
"	Louis Frank & Co.	"	3 " brick	175	50	125	12
"	Adams' Industro Mills	"	4 " brick	470	170	300	25
"	Richey Bros.	"	2 " brick	140	90	50	8

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FACTORIES INSPECTED—Continued.

Location.	Name of Company.	Goods Manufactured.	Description of Buildings.	Number of Employes.	Males.	Females.	Under 16 Years.
Paterson	Naef Bros. & Co.	Silk	4 stories of brick	81	40	41	5
"	Van Riper & Co.	"	4 " brick	60	30	30	1
"	Union Silk Mill	"	3 " brick	60	20	40	6
"	N. J. Hawkes & Co.	"	4 " brick	75	45	30	4
"	Paragon Silk Co.	"	3 " brick	140	45	95	12
"	Paterson Ribbon Co.	"	4 " brick	125	85	40	.....
"	Pelgram & Meyers	"	3 " brick	500	300	200	13
"	Horandt & Son	"	2 " brick	150	75	75	6
"	Jos. Hanlon's Sons	"	3 " brick	80	42	38	4
"	Bamford Bros.	"	4 " brick	275	100	175	20
"	Nightengale Bros.	"	2 " brick	100	50	50	15
"	Hopper & Scott	"	3 " brick	150	75	75	40
"	Seymour Bros.	"	3 " brick	20	5	15	5
"	Heweita Mills	"	4 " brick	130	73	57	5
"	Wm. F. Milton & Co.	"	3 " brick	15	7	8	4
"	Wm. Ball	"	3 " brick	15	10	5	2
"	Butler Silk M'fg Co.	"	3 " brick	25	10	15	3
"	Mackay & Rowsen	"	4 " brick	70	37	33	25
"	Read & Lovett	"	4 " brick	86	40	46	25
"	Wm. D. Holmes	"	4 " brick	75	50	25	13
"	D. McAllister	"	2 " brick	77	40	37	6
"	R. Mich & Co.	"	1 " brick	100	50	50	6
"	Clay & Groocock	"	3 " brick	100	65	35	2
"	Hess & Goldschmidt Co.	"	4 " brick	150	50	100	10
"	Samuel Thorpe	"	3 " brick	50	18	28	8
"	C. E. Meding	"	3 " brick	230	120	110	12
"	Hamil & Booth	"	3 " brick	300	165	135	35

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Paterson	Pioneer Silk Co	Silk	1	"	brick	560	250	300	40
"	Dougherty & Wadsworth	"	4	"	brick	350	175	175	2
"	Phœnix Mills	"	3	"	brick	600	300	300	60
"	Geo. Frost's Sons	"	4	"	brick	250	125	125	15
"	Grimshaw Bros	"	4	"	brick	735	335	400	25
"	Dexter & Lambert	"	2	"	brick	650	200	450	30
"	Wm. Strange & Co	"	4	"	brick	850	450	400	35
"	Hamill Mills	"	3	"	brick	300	220	80	25
"	Rogers' Mills	"	4	"	brick	100	50	50	6
Passaic	Manhatten Print Works	Satinets	2	"	brick	125	120	5	3
"	Passaic Woolen Co	Woolens	4	"	brick	100	50	50	4
"	Reid & Barry	Cotton goods	3	"	brick	750	635	115	15
"	Rittenhouse M'fg Co	Woolen "	3	"	brick	450	200	250	18
"	Dundee Woolen Co	"	4	"	brick	120	83	37	12
"	Pitkin & Holdsworth	Worsted "	4	"	brick	205	155	150	10
"	Passaic Print Works	Cotton "	2	"	brick	450	390	60	.....
"	N. Y. Belting and Packing Co	Rubber "	2	"	brick	200	160	40	10
"	N. Y. Okonite Co	Electric wire	1	"	wood	150	125	25	7

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MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Jersey City....	Colgate & Co.....	Fire escapes and several stairways....	Stand pipes, hose, fire extinguishers & buckets.
"	Poideboard & Co.....	Stairway.....	Hose, fire extinguishers and buckets.
"	C. Stohn.....	Fire escapes and stairways.....	
"	John Mehl & Co.....	Fire escape and stairway.....	Buckets of water.
"	T. J. Otto & Son.	Outside stairways.....	Fire extinguishers.
"	Louis Pattberg & Bros.....	Several stairways.....	Sprinklers, fire extinguishers and buckets.
"	Dixon Crucible Works.....	Fire escapes and several stairways....	Hose, sprinklers and fire extinguishers.
"	Corcoran Mfg. Co.....	Several stairways.....	" "
"	N. J. Embroidery Co.....	Stairway.....	
"	J. McDonald.....	Several stairways.....	
"	L. & M. Rubber Co.....	"	Hose, sprinklers and buckets.
"	Springer Balance Co.....	Fire escapes and several stairways....	" "
"	A. Gross & Co.....	Several stairways.....	Hose and buckets.
"	Tarter Chemical Co.....	"	Hose and fire extinguishers.
"	Geo. Mathers & Co.....	"	" "
"	Ribbon & March.....	"	" "
"	C. R. James & Co.....	"	Hose, pumps and extinguishers.
"	N. J. Spring Co.....	"	Hose and buckets.
"	J. C. Paper Co.....	"	Hose and sprinklers.
"	Straffords Oakum Co.....	"	Sprinklers, fire extinguishers and buckets.

Jersey City	H. S. Hall	Fire Escapes and stairway	Stand pipe and hose.
"	Standard Watch Co	Several stairways	Fire extinguishers and buckets.
"	C. A. Woolsey Paint Co	"	Hose and buckets.
"	E. Waldeck	"	Fire extinguishers and buckets.
"	Daft Electric Co	" and fire escapes	Hose and fire extinguishers.
"	R. Hillers & Co	"	Fire extinguishers and buckets.
"	W. O. Davy & Sons	"	Hose and sprinklers.
"	R. H. Steel & Co	"	Buckets.
"	James Leo	Stairway	Buckets and hose.
"	P, Lorillard & Co	13 Fire escapes and several stairways	Hose, fire extinguishers and fire department.
"	Heppenheimer's Sons	Several stairways	Hose and fire extinguishers.
"	Passaic Zinc Co	"	Hose, fire extinguishers and sprinklers.
"	Hudson Steam Laundry	"	Hose and buckets.
"	H. C. Knitting Mills	1 Stairway	Buckets.
"	Mathieseon & Weichers	Several stairways	Hose, fire extinguishers and buckets.
"	Winter Ball Manufacturing Co.	" and fire escapes	Buckets.
"	N. J. Standard Wood Co	Fire escapes and one stairway	Hose.
Centreville	Wm. McFarland	1 Stairway and fire escape	Hose and fire extinguishers.
Harrison	Clark's Mile End Thread Wks.	Several tower stairs	All fire appliances.
"	Clark's O. N. T. Thread W'ks.	" " and fire escapes	" "
"	Marshall & Co	" " " "	" "
"	Nairu Linoleum Co	Several stairways and fire escapes	" "
"	Winnas Bros	1 Stairway	Hose and buckets.
"	Ken Thread Co	Fire escapes and several stairways	Hose and fire extinguishers.
"	Edison Lamp Co	Several stairways and bridges connec'g	" " "
"	Harold & Co	"	Buckets.
Arlington	Beckert's Machine Co	"	Hose and buckets.
"	Arlington Collar and Cuff Co.	1 stairway	Hose and hose.
Harrison	Stewart & Hartsohn	Fire escapes and stairways	Hose and fire extinguishers.
"	Newark Machine Tool Co	Severel stairways	Hose.
Hoboken	Meyenberg Silk Co	Tower stairs and fire escapes	Hose, pumps and buckets.
"	Keuffel, Esser & Co	" " "	Hose and buckets.
"	American Lead Pencil Co	Several stairways and fire escapes	All fires appliances.
"	Lehman & Clark	" " "	Fire extinguishers and buckets.
"	R. Newman & Co	" " "	" "
"	Chapel, Chase & Maxwell	Several stairways and tower stairs	Hose and buckets.
"	G. Hauser	1 Stairway and fire escapes	Fire extinguishers.

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Hoboken	Demerest & Stagg	Stairway	
"	Geo. Focht	"	Hose.
Town of Union.	Town of Union Silk Mills	Fire escapes and several stairways	Hose and buckets.
"	John Erskine & Co	" "	Fire extinguishers.
"	Clifton Silk Mills	Tower stairs	" hose and buckets,
"	Givernard Bros	Fire escapes and stairways	" "
"	R. H. Simon	" "	All fire appliances,
"	H. Herold	" "	
"	Heffensteim & Co	Several stairways	
"	H. Sonntag	Outside stairways	
"	H. Wallace & Son	Several stairways and fire escapes	Buckets.
"	James Ware & Son	Several stairways	
"	John Bodeman	"	Buckets.
West Hoboken.	Oesmann & Gioone	"	Hose and pumps.
"	Givernand Bros	"	Buckets.
"	Schwazenback Co	Several stairways and fire escapes	Hose, pumps and buckets.
"	Jos. Comby	Stairways	Fire extinguishers and buckets,
"	B. Fontaine	"	Buckets.
"	Favorite Silk Mills	Fire escapes and stairways	Hose and buckets.
Newark	C. A. Tahelreth	" "	

Newark	B. Conlon & Co.	Stairways	Hose.
"	George Havill	Fire escapes and stairways	All fire appliances.
"	Reiley & Osborne	Stairways	" "
"	Richard Sims	"	
"	Jas. E. Mergott	Stairways and fire escapes	
"	M. Gould & Son	" "	Hose.
"	Goertz & Co	" "	"
"	Deffney & Co	" "	"
"	Newark Novelty Co	Stairways	
"	Clarance P. Gould	"	
"	R. C. Jenkinson & Co	Stairways and fire escapes	All fire appliances.
"	Namburg Button Mfg. Co	" "	Hose.
"	Thos. Davis	" "	
"	Hubner & Sons	Stairways	
"	McCutchoen & Cram	"	
"	Frank & Co	"	Hose.
"	Persauls	"	"
"	F. Frentz	"	
"	Toms & Reed	"	
"	Wm. Donovan	"	
"	N. J. Button Mfg. Co	"	All fire appliances.
"	H. M. Yates	"	Fire extinguishers.
"	Gottfried Krugler	Stairways and fire escapes	All fire appliances.
"	Ballantine & Co	" "	Pumps and hose.
"	Jos Hensler	" "	"
"	Chas. Trefz	" "	"
"	Franz Kastner	Stairways	"
"	Feiganspan	"	"
"	Enterprise Brewing Co	"	"
"	Morton Brewing Co	"	"
"	Lyon & Son	"	"
"	Mangels & Schmidt	"	
"	Adam Turks	"	
"	Fritzche	"	
"	Eggers & Co	"	
"	J. D. Marguett	"	
"	Reiley & Osborne Box Factory	Outside stairway	

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Newark	E. J. Hart	Stairway	Hose.
"	B. Osborn	"	
"	Gauch & Co	Stairways	Buckets.
"	Chas. Osborn	"	Hose.
"	John Davidson	1 Stairway	
"	Mergott, Howell & Co	Several stairways	All fire appliances.
"	Chas. Apple & Sons	Several stairways and fire escapes	
"	Newmann & Co	Several stairways	
"	Goodenough & Co	"	
"	E. W. Dixon	"	
"	Jos. Baldwin	"	
"	Wm. A. Bunandhoffe	"	
"	Wm. Craft	"	
"	Jacob Meyer	"	
"	Hammerslough & Co	Several stairways and fire escapes	
"	Bernheimer, Bauer & Co	Stairways and fire escapes	
"	John V. Defenthaler	Several stairways	
"	Chas. H. Curtis	Several stairways and fire escapes	
"	Peter Geiger	Several stairways	
"	John Fleming	"	

Newark	George Miller	1 Stairway	
"	M. Kœgel	Several stairways	
"	P. H. Berg	"	
"	J. Thume	1 Stairway	
"	Mrs. Van Riper	"	
"	George W. Cinter	Fire escape and stairway	
"	Continental Corset Co	" " "	All fire appliances.
"	James Bowers & Co	Stairways	" "
"	Ferris Bros	Fire escape and stairways	" "
"	Crutty Bros	" " "	Hose.
"	Wimgartner Bros	" " "	All fire appliances.
"	Bristol Corset Co	Stairways	
"	Whiting & Smartwood	"	
"	B. Herzog	"	
"	Essex Manufaeturing Co	"	
"	G. W. Jackson	Fire escapes and stairways	All fire appliances.
"	John Bea	Stairways	
"	Newark Lime and Cement Co.	"	Hose.
"	John Kearsing	Fire escape and stairways	Buckets.
"	H. Hawarth	Stairways	
"	Bannister	"	
"	Passaic Chemical Co	"	All fire appliances.
"	Charles Cooper & Co	"	
"	Morris & Clark	"	Hose and buckets.
"	J. M. Quimby	Fire escapes and stairways	All fire appliances.
"	Wm. Stuely	Stairways	Hose.
"	Celluloid Novelty Co	"	All fire appliances.
"	Wm. Kirk	"	Hose.
"	Atha & Hughes	Stairways and fire escapes	All appliances.
"	Heath & Son	Stairways	Hose.
"	L. Joy & Co	"	"
"	Stannard & Lefferts	"	"
"	Herman Bros	"	"
"	Benjamin Bros	Stairways and fire escapes	All fire appliances.
"	H. Bowman	" " "	Buckets.
"	T. & G. Stowe Engraving Co.	Stairways	All fire appliances.
"	Newark Elec. L't. & P'r Co.	"	" "

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES OR OVER.	MEANS FOR EXTINGUISHING FIRE.
Newark.....	Newark Electric Light Co....	Stairways, fire escapes.....	All fire appliances.
"	Electrical Accumulator Co....	"	" "
"	Elastic Hair Co.....	"	Hose.
"	Lister Bros.....	"	All fire appliances.
"	H. S. Miller.....	"	Hose.
"	F. F. Lane.....	"	"
"	Heller Bros.....	"	
"	John Ray.....	"	
"	Newark Gas Light Co.....	"	Hose.
"	Balbach & Son.....	"	All fire appliances.
"	Yates & Wharton.....	"	" "
"	Wheeler & Russell.....	"	
"	Ferry & Napier.....	" fire escape.....	Hose.
"	Meyer Mercy.....	"	"
"	Jos. Schuman.....	"	
"	C. F. Seitz & Son.....	"	Hose.
"	J. Rummele & Co.....	"	All fire appliances.
"	G. N. Espinshied.....	"	" "
"	C. Crossley.....	"	Hose.
"	Wheller & Bushell.....	"	"

Newark	C. B. Alston	Stairways	All fire appliances.
"	A. Seitz	"	
"	W. H. Moyy	"	
"	David Wolf	"	Hose.
"	Jos. Feinsh & Co	"	
"	Jas. Robertson	"	Hose.
"	C. M. Hedden & Co	"	
"	Geo. M. Mason	"	
"	Bernard Daily	"	
"	Oscar Willigerode	"	Hose.
"	Phiffer & Co	"	"
"	Douglass M'fg. Co	"	"
"	T. S. Connelly	"	"
"	H. Fulcher	"	"
"	Geo. Yule	"	All fire appliances.
"	Mork & Romberg	"	" "
"	McClare & Davis	" and fire escape	
"	Thos. Nickols	"	All fire appliances.
"	Peter Calhoun & Co	"	" "
"	E. T. Beck & Son	" and fire escape	
"	F. W. Bonneau	"	
"	Butler & Ward	" and fire escape	All fire appliances.
"	S. S. Seargent M'fg Co	"	" "
"	A. Albright	" and fire escapes	" "
"	R. C. Winter	"	" "
"	Weiner & Co	" and fire escapes	Hose.
"	A. Buerman	" and fire escapes	
"	Crane & Co	"	
"	Vanness	"	
"	P. Hayden	"	
"	Reynolds & Zahn	"	Hose and buckets.
"	Oscar Barnett	"	All fire appliances.
"	Beadley & Pierson	"	Hose
"	Kuehnhold & Co	"	
"	A. T. Steffens	"	
"	Carter, Sloan & Co	"	
"	Krements & Co	"	

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Newark	Day & Clark	Stairways	
"	Durand & Co	"	All fire appliances.
"	M. Krans	"	
"	Schoemaker & Pickering	"	
"	Thos. G. Brown & Co	"	
"	Wm. Riker	"	
"	Wm. C. Edge & Son	"	
"	Wm. Rich & Co	"	
"	Kerr & Battin	"	
"	Chas. Schieets & Son	"	
"	Champeinos & Co	"	Buckets of water.
"	H. Elcox & Co	"	
"	Wm. H. Ball & Co	"	
"	A. I. Morris	"	
"	T. W. Adams & Co	"	
"	King & Co	"	
"	Rothschild Bros	"	
"	O. E. Hendrick & Co	"	
"	Doolittle	"	Hose.
"	Phoenix Lock Co	"	

Newark	Romer & Co	Stairways	
"	Newark Licorice Co	"	Hose.
"	Wm. R. King	"	"
"	J. H. Halsey & Smith	"	Pumps and hose.
"	T. P. Howell & Co	"	" "
"	C. W. Meyer & Son	"	" "
"	Reuben Trier	"	" "
"	Cowfare & Co	"	" "
"	Cashon & Flynn	"	" "
"	F. A. Shoffer	"	" "
"	Shattock & Bingham	"	" "
"	Bentz, Ditch & Betz	"	" "
"	W. F. Quimby	" and fire escapes	
"	John N. Moyer	" " "	Pumps and hose.
"	Newark Kidd Works	" " "	" "
"	John Dailey	" " "	" "
"	Butler & Ward	" " "	All fire appliances.
"	Newark Steam Laundry	Stairways	Hose.
"	B. & M. Letter Co	"	
"	Charles McAvoy	"	Hose and Pumps.
"	Smith & Co	"	" "
"	R. G. Salmon	"	" "
"	C. H. & J. D. Harrison	"	" "
"	R. P. Witzel	"	" "
"	Cummings Bros	"	" "
"	M. Reardon	"	" "
"	Siedenback & Mahone	"	" "
"	John Riley	"	" "
"	Hugh Smith	"	" "
"	Patrick Riley & Son	"	Pumps, hose and steam apparatus.
"	Blanchard Bros. & Lane	"	" " "
"	Stengel & Rothschild	"	" " "
"	J. H. & H. J. Dawson	"	" " "
"	E. S. Ward	"	" " "
"	Riley & Mackin	"	" " "
"	S. Halsey & Son	"	" " "
"	Henry Lang	"	" " "

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES OR OVER.	MEANS FOR EXTINGUISHING FIRE.
Newark	Mies & Egner	Stairway	Pumps, hose and steam aparatus.
"	M. Strause	"	" "
"	Smith Bros	"	" "
"	A. Lawenberg	"	" "
"	John W. Carr	"	" "
"	Palmer & Smith	"	" "
"	Jacob Stumpf	"	Hose and pump.
"	Wm. Zahn	"	"
"	Watts, Campbell & Co	"	Hose.
"	Hews & Phillips	"	"
"	Gould & Eberhard	"	
"	Cyress Curry & Son	"	Hose
"	Domestic Sewing Machine Co.	"	"
"	Dom. Sew. Ma. Co., wood dep	"	All fire appliances.
"	C. H. Redman	"	
"	Atlas Manufacturing Co	"	
"	H. C. Clausson	"	
"	Seymour & Whitlock	"	
"	Barnett & Co	"	All fire appliances.
"	Chambers & Ansley	"	" "

Newark	E. A. Carhoff	Stairways	Hose.
"	C. Roberts	"	
"	Richardson Bros.	"	Hose and buckets.
"	H. M. Richmond	"	
"	E. E. Hogan	Stairways and fire escapes	Hose and buckets
"	Johnson & Murphy	" "	Buckets.
"	S. J. & J. Anderson	" "	Hose.
"	Wm. Dirsh & Son	Stairways	Hose and buckets.
"	Ober & Miller	"	Hose.
"	Jas. A. Bannister	"	All fire appliances.
"	John Burgeer	"	Pumps and hose.
"	August Lentz	"	All fire appliances.
"	Felter Bros	"	Buckets.
"	A. Schmidt	Stairways and fire escape	
"	Thos. Court, Jr	Stairways	Tank and buckets.
"	J. Durning & Co	Stairways and fire escape	
"	A. J. Miller	Stairways	
"	Thos. Weston	Stairways and fire escape	
"	L. Boyden	Stairways	
"	Whitman Saddle Co	"	Hose.
"	Richardson Saw Co	"	Hose and buckets.
"	Wheeler & Shiner	"	Hose.
"	Thos. Lennet	"	
"	S. F. Meagher	"	Buckets.
"	Manhattan Shirt Co	"	
"	Smith Shirt Factory	"	
"	Towentrout Skate Works	"	Hose.
"	Heinsch & Son	"	"
"	J. Weiss	Outside iron stairway	
"	Clark's O. N. T. Thread Wks.	Tower stairways and fire escapes	All fire appliances.
"	Geo. B. Jenkinson	Stairways	
"	Simon Bros	"	All fire appliances.
"	Lissa & Co	"	" "
"	Edgar Farmer	"	Hose and buckets.
"	W. O. Headley & Co	"	" "
Harrison	J. Lackowitz	"	
Newark	Geo. M. Ballard	"	

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Newark	Central Stamping Co	Stairways and fire escapes	All fire appliances.
"	A. Turner & Co	"	
"	W. W. Woodman	Stairways and fire escapes	
"	H. S. Osborne	"	Hose.
"	Matthias Price	"	"
"	Wm. Johnson	"	
"	C. Osborne	"	
"	Newark Edge Tool Co	"	Hose.
"	Newark Watch Co	"	Buckets.
"	Henry Lefort	"	All fire appliances.
"	Pinnelle, May & Co	"	
"	A. Milne	"	
"	Essex Watch Case Co	Stairways and fire escapes	Buckets.
"	Conivisier Watch Case Co	"	Hose.
"	C. T. Williamson	Stairways and fire escapes	All fire appliances.
"	Bogardes Art Co	"	" "
"	John Somers & Son	"	
"	J. H. Watts & Son	"	
"	Ripley & Sons	"	
"	Chapin Hall Lumber Co	"	All fire appliances.

Newark	John Rindell & Son	Stairways	
"	Newark Plaining Co	"	
"	Wm. King & Co	"	
"	Hedden & Son	"	Hose.
"	Searles & Randell	"	All fire appliances.
"	Eagle Winker Co	"	Sprinklers and hose.
"	Wm. Hill	"	Pumps & hose.
"	Wm. T. Messreau	"	All fire appliances.
"	Calhoun & Barnett	"	" "
"	Albrecht & Koch	" and fire escapes	Buckets.
"	Tompkins & Maudeville	"	
"	Pomeroy & Son	"	Buckets.
"	Sloan & Chace	" and fire escapes	All fire appliances.
"	Richardson	"	Buckets.
"	Campbell, Lane & Co.	"	All fire appliances.
"	Ultramarine works	"	" "
"	Fraklin Murphy & Co	"	" "
"	Cogswell & Butler	"	
"	P. Jones & Co	"	Hose.
"	Bash & Greenfield	"	All fire appliances.
"	Crawford & Co	"	Buckets.
"	Tiffany & Co	"	"
"	Spence Optical M'fg. Co	" and fire escapes	All fire appliances.
"	Ladies Undergarment Co	"	
"	Cummings & Mathews	Several stairways	All fire appliances.
"	No Name Hat M'fg. Co	"	" "
"	F. Berg & Co	Stairways	" "
"	McGall, Allen & Co	Several stairways	" "
"	E. V. Connett & Co	Stairways	" "
"	Austin, Drew & Co	"	" "
"	Puff & Yeomans	"	" "
"	McCheniz & Fisher	"	Buckets.
"	Jenkins & Dod	"	"
"	T. O. Ingling	"	"
"	Long & Co	"	"
"	Dougherty & Co	1 stairway	"
"	Hanop, Git & Co	Several stairways	Buckets & extinguishers.

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES OR OVER.	MEANS FOR EXTINGUISHING FIRE.
Orange	J. J. Perrine	Several Stairways	Buckets and extinguishers.
"	A. Dykman & Co	"	Hose, buckets and extinguishers.
"	A. Brandis	"	Buckets.
"	Porter, Croful & Hidgkinson	"	Hose, buckets and extinguishers.
"	Brannan & Co	"	" "
"	Berry Quinlan	"	" "
"	Smith & Sons	"	Buckets.
"	E. B. Whiting	"	"
"	Jas. Young & Son	"	"
"	Chas. Keascher	"	Hose and buckets.
"	L. Walker	"	" "
"	T. G. Barber	"	" "
West Orange	Edison Labratory	"	All fire appliances.
East Orange	Seaburys	"	" "
"	E. T. Brooks	"	" "
"	Spiral Weld Tube Co	"	" "
South Orange	South Orange Hat Co	"	Buckets.
Belleville	DeWitt Wire Co	"	All fire appliances.
"	I. Hogan	"	Hose.
Bloomfield	P. Hayden	"	All fire appliances.

Bloomfield	R. S. Grummor	Several stairways	Hose.
Wattsessing	Thompson, Eller & Co	"	"
"	The Dr. Torval Separator Co.	"	"
"	Thomas Oakes & Co	"	All fire appliances.
"	Combination Rubber Co	"	Buckets and hose.
"	S. Gibson	"	Buckets.
"	Eller, Son & Co	"	"
"	Eller Brothers	"	Buckets and hose.
"	Peloubet Organ Co	"	All fire appliances.
Millburn	H. Graves	"	Buckets.
"	F. Fourat	"	"
Franklin	Kingsland Paper Mill	"	All fire appliances.
Montclair	Samuel Clump & Co	"	" "
Elizabeth	Washington Rubber Works	Several stairways and fire escapes	Hose and buckets.
"	Peter Briedh	Several stairways	Hose, pumps and buckets.
"	Pacific Rubber Works	"	" " "
"	D. B. Churchill	"	" " "
"	Union Oil Cloth Co	Several stairways and fire escapes	" " "
"	A. & F. Brown	Several stairways	Hose and buckets.
"	Elizabeth Cordage Co	"	Hose, pump and buckets.
"	Heywood & Co	"	Buckets.
"	J. M. Grafh & Co	1 Stairway	Hose, pumps and buckets.
"	Elizabeth Oil Cloth Co	1 "	Buckets.
"	Eugene Munsell & Co	1 "	"
"	L. B. Beerbower	Several stairways	Hose, pumps and buckets.
"	Borne, Sergmeser & Co	1 Stairway	Standpipe, pumps and buckets.
"	Bowker Fertilizer	1 "	" " "
"	Staten Chemical Co.	1 "	Hose, pumps and buckets.
"	N. J. Extraction Works	Several stairways	Hose, pumps and sprinklers.
"	Singer Manufacturing Co.	Tower stairs and several stairways	" " "
"	Central Railroad Shops	Several stairways	Hose and pumps.
"	Thomas H. Smith	"	Hose.
"	Joseph Blatz	"	All fire appliances.
Linden	Lion Silk Manufacturing Co.	Several stairways and fire escapes	" "
Woodbridge	Wm. H. Berry & Co	Several stairways	All fire appliances.
"	Valentine	"	All fire appliances.
"	Spa Spring Brick Works	"	" "

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Woodbridge. . . .	The Anniss & Lyle M'fg. Co. .	Several stairways.	All fire appliances.
Cartereh	Colwell Iron Works.	"	"
"	Williams, Clark & Co.	"	"
New Brunswick	Consolidated Fruit Jar Co.	" and fire escape.	Stand pipe, hose and buckets.
"	N. J. Lamp and Bronze Co. . .	" "	All fire appliances.
"	Janeway & Co.	Tower stairs.	"
"	N. J. Rubber Co.	Fire escapes.	Hose and buckets.
"	Washington Rubber Co.	" and stairways.	Hose, sprinklers and buckets.
"	Janeway & Carpenter.	Several stairways.	All fire appliances
"	Adam Green.	"	"
"	Geo. Butler & Sons.	"	"
"	Cronket & Voorhees.	"	Hose and buckets.
"	J. B. Archer.	1 stairway.	Pumps, hose and buckets.
"	J. Merssole.	"	All fire appliances.
"	Norfolk & N. B. Hosiery Co. .	Several stairways.	Hose, pumps and buckets.
"	L. I. Ives & Co.	" and fire escapes.	" "
"	Johnson & Johnson.	" "	Buckets.
"	Middlesex Shoe Co.	" "	Pumps and buckets.
Rahway.	Gordon Press Works.	"	Buckets.
"	Henry Rosenbaum.	"	Pumps, hose and buckets.

Rahway	W. L. Mershon & Co.	Fire escapes and stairs	All fire appliances.
"	W. L. Mershon	Several stairways	Buckets.
"	Laforge & Spoke Works	"	"
Raritan	Raritan Woolen Mill	" and fire escapes	All fire appliances.
"	Somerset M'fg. Co	" "	"
"	Kenyon & Bros	"	Hose, pump and buckets.
Perth Amboy	Henry Maner	"	" "
"	Amboy Terra Cotta Co	"	All fire appliances.
"	Arthur Buel & Co	"	Hose and buckets.
"	United Refiners Export Oil Co	"	All fire appliances.
"	Ashland Emory Mills	"	"
"	Raritan Hollow Brick Co	1 stairway	Buckets.
"	Johns, Hornsby & Co	Several stairs	"
Plainfield	Vandewenter & Co	2 stairways	Buckets and Hose.
"	Pond Tool Co	Several stairways	All fire appliances.
"	Potter Printing Press works	"	Hose and buckets.
"	Walter Scott & Co	"	"
"	Central Co	Tower stairs	Hose and sprinkler.
Long Branch	Piddington Bros	Several stairways	Hose and buckets.
"	L. D. Edwards & Co	"	Hose and sprinklers
Little Silver	E. C. Hazard Co	"	Standpipe, hose and buckets.
Matawan	J. L. Rue	" and tower	Hose and buckets.
Helmetea	Geo. W. Helme & Co	"	All fire appliances.
Freehold	Henry Rothschild & Co	"	"
"	Combs & Bowden	"	Hose and buckets.
"	Stokes Bros. Mfg. Co	"	Buckets.
Rahway	Taylor & Bloodgood	"	Hose and buckets.
Jamesburg	Downs & Finch	"	"
Milltown	Meyer Rubber Co	" and fire escapes	All fire appliances.
Red Bank	Broadmeadow	"	Buckets.
South River	Herman Ankan & Co	"	Hose and buckets.
South Amboy	Swanhill Pottery	"	Buckets.
"	South Amboy Tile Co	"	"
Bound Brook	Bound Brook Woolen Mill	" and fire escapes	All fire appliances.
"	Hatford Air Co	"	Hose and buckets.
"	Shackelton Car Heating Co	"	Buckets and hose.
Tremley	Standard Chemical Co	"	Buckets, hose and standpipe.

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Egg Harbor City	John Schwenghammer	1 Stairway	Buckets, and hose.
Hount Holly	Lynn & Pettit	"	Buckets.
"	Fitzpatrick & French	"	"
"	R. W. Bowker	"	Buckets and tank.
"	Mount Holly Shoe Co	Several stairways	Buckets.
"	Anderson & Son	1 Stairway	Buckets and hose.
May's Landing.	R. D. Wood & Son	Stairways and fire escapes	All fire appliances.
Camden	M. A. Furbush & Sons	" "	" "
"	N. J. Knitting Mills	" "	
"	H. B. Anthony	1 Stairway	Hose, fire extinguishers and buckets.
"	Jos Campbell & Co	Stairways and fire escape	Hose and buckets.
"	Highland Mills	" "	Sprinklers and buckets.
"	W. Wharton Fisher	Several stairways	Pump, hose and buckets.
"	W. C. Scudder	"	" "
"	Edward Richardson	"	Hose and buckets.
"	Geo. Shimer & Boyer	Outside stairway	" "
"	The Esterbrook Pen Co	Stairways and fire escapes	All fire appliances.
"	E. A. Richardson	1 Stairway	Buckets.
"	Abrofoil Mills	"	Buckets and fire extinguishers.
"	Julien Electric Co	1 stairway and fire escape	Sprinklers and fire extinguishers.

Camden	Pacific laundry	1 Stairway	Sprinklers, hose and buckets.
"	Brighton Mills	1 stairway and fire escape	Buckets.
"	Dorrel & Seymour	1 Stairway	
"	W. J. Paper Co	Several stairways	Hose and buckets.
"	Burk & Co	1 Stairway	
"	Howland Croft & Son	1 Tower and other stairways	Hose, buckets and fire extinguishers.
"	D. Kelly	Stairways and fire escape	Buckets.
"	Camden Woolen Mills	" " "	All fire appliances.
"	Cotrell & Wolfender	1 Stairway	Hose and buckets.
"	Wm. A. Bulcher	"	" "
"	Adams & Boultinghouse	"	Buckets.
"	Kifferly Morocco Co	Several stairways	Hose and buckets.
"	Isaac Ferres	1 Stairway	Buckets.
"	R. H. Comey	"	"
Vineland	Holmes, Prince & Co	Several stairways	Hose and buckets.
"	W. P. Proctor	1 Stairway	Fire extinguishers and buckets.
"	Charles Keighley	Several stairways	All fire appliances.
"	Harry Chandler	"	Hose and buckets.
"	John Northrop & Co,	1 Stairway	" "
"	Joseph Mason	1 "	Buckets.
"	Thomas Hirst	1 "	"
Gloucester	Gloucester Gingham Mills	1 "	Pumps, hose and buckets.
"	Welshbach Gas Light Co	Several stairways	All fire appliances.
"	Gloucester Manufacturing Co	"	" "
"	Washington Manufacturing Co	Several stairways and fire escapes	" "
"	Gloucester Iron Works	Several stairways	Hose and pumps.
Bridgeton	Home Knitting Mills	1 Stairway	Pumps and buckets.
"	J. L. Rice Shoe Co	1 "	Buckets.
"	Burgess, Montelius & Co	Several stsirways	"
"	Moorehouse & Lenhart	"	Pumps and hose.
"	Soll, Miller & Co	1 Stairway	
"	East Lake Woolen Mills	1 Stairway and fire escape	Hose sprinklers and buckets.
Hammonton	C. F. Osgood & Co	1 Stairway	Buckets,
"	Wm. Bernshouse	1 Stairway and fire escape	"
"	Whiffen Bros. & Co	1 Stairway	Fire Extinguishers.
Woodbury	G. G. Gree	Several stairways	Hose and buckets.
Riverside	Kellogg & Lambert	1 Stairway	Buckets.

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES AND OVER.	MEANS FOR EXTINGUISHING FIRE.
Elmer	Charles S. Cotting	1 stairway	Buckets.
"	Brooks & Bacone	"	"
Beverly	Beverly Hosiery Mills	"	Buckets of water.
Riverside	Pfau Bros.	"	Buckets and hose.
Millville	Millville M'fg. Co	Tower & other stairway, & fire escape.	All fire appliances.
"	Manantico bleachery	1 stairway	"
"	Whithall, Tatum & Co	Several stairways and fire escapes.	"
Trenton	Trenton Woolen Co	" "	Hose, fire extinguishers and buckets.
"	Jos. Mayer Pottery Co	"	Hose and buckets
"	Trenton China Co	"	"
"	Alpaugh & Magown	"	Hose, buckets and extinguishers.
"	Enterprise Pottery Co	"	Hose and buckets.
"	Israel Lacy	"	"
"	Star Rubber Co	"	All fire appliances.
"	Mercer Pottery Co	"	Hose and buckets.
"	Home Rubber Co	"	"
"	Willets M'fg. Co	" tower stairs	All fire appliances.
"	S. K. Wilson (Fair St.)	Fire escapes and tower stairs	"
"	S. K. Wilson (Factory St.)	Several stairways,	Hose and buckets.
"	Trenton Iron Co	"	"

Trenton	Dibble M'fg. Co	1 stairway	Hose and buckets
"	N. J. Match Co	2 "	All fire appliances.
"	East Trenton Pottery Co	Several stairways	Hose and buckets.
"	Ott & Brewers Pottery Co	"	"
"	D. W. Titus	"	All fire appliances.
"	Dale & Davis	"	Hose and buckets.
"	Oliphant & Co	"	All fire appliances.
"	Crescent Pottery Co	"	Hose and buckets.
"	Thos. Maddock & Son	"	"
"	John Moses	"	"
"	Greenwood Pottery Co	"	"
"	Trenton Tile Co	"	All fire appliances.
"	Providential Tile Co	1 stairway	Buckets.
"	H. H. Garwood	"	"
"	Operative Pottery Co	Several stairways	"
"	International Pottery Co	"	Hose and buckets.
"	W. C. Hendrickson & Co	1 Stairway	Buckets.
"	Fell & Throp	Several stairways	Hose and buckets.
"	Dean Decoration Co	1 stairway	
"	Eagle Pottery Co	Several stairways	All fire appliances.
"	Trenton Spring Mattresses Co.	1 stairway	
"	Clark Bros. Pottery Co	Several stairways.	Hose and buckets.
"	McCardle, West & Farrell	"	"
"	Fitzgibbons & Crisp	"	All fire appliances.
"	Swan & Whitehead	"	"
Groveville	Morris Bros	" and tower stairs	"
Ham'n Square	Mercer Rubber Co	"	Hose and buckets.
" Twp.	Whitehead Bros	1 stairway	"
Bordentown	Jacob Millers Sons & Co	1 stairway and fire escape	Buckets,
"	F. W. R. Flynn & Co	2 stairways	"
Lambertville	J. C. Weeden	1 "	"
"	Lambertville Rubber Co	Several stairways	All fire applicants.
"	W. Mann	1 stairway	Hose and buckets.
Port Oram	Ross & Baker	"	All fire appliances.
Dover	Geo. Singleton	Several stairways	"
Newton,	Sussex Shoe Co	1 "	Buckets.
"	H. W. Merrimen Shoe Co	Several stairways and fire escapes	" and hose.

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued.

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES OR OVER.	MEANS FOR EXTINGUISHING FIRE.
Phillipsburgh	Standard Silk Co.	2 Tower stairways.	All fire appliances and trained fire dept.
Washington	Washington Shoe Co.	1 Stairway	Hose and buckets.
"	Cornish & Co.	2 Stairways,	All fire appliances
"	Bethoven Organ and Piano Co.	"	" "
"	H. W. Alleger & Co.	1 Stairway	Buckets,
"	C. P. Bowledy.	"	"
Hackensack	Givernaud Bros.	2 Stairways	All fire appliances.
Rutherford	Standard Bleachery	Several stairways	" "
"	Jaeger & Co.	"	Extinguishers and buckets.
Butler	Butler Hard Rubber Co.	"	All fire appliances.
Lodi	Burns Bros.	"	" "
Boonton	Pillgrim & Meyers.	Several stairways and fire escapes.	" "
Paterson	Dolphin Mfg. Co.	" "	" "
"	B. Eastwood.	Several stairways	" "
"	Barbours, (Spruce St.)	Tower stairways.	" "
"	Barborns, (Grand St.)	3 "	" "
"	Essex's Mills, (Adams)	2 Outside stairways	" "
"	J. A. Hall & Co.	2 Stairways.	" "
"	Kearney & Foote.	1 Stairway	" "
"	John Ryles Sons.	2 Stairways.	" "

Paterson	Watson Machine Co.	3 Stairways	All fire appliances.
"	Jackson & Jacquard	1 "	" "
"	Cook's Works	Several stairways	" "
"	McNab & Harlem	2 Stairways	" "
"	Rogers' Works	Several stairways	" "
"	Van Riper Manufacturing Co.	1 stairway	" "
"	Lyons Silk Co	1 "	Fire extinguishers and buckets
"	Ashley & Bailey	1 "	Hose and buckets.
"	Pearless Plush Co	2 stairways	Fire extinguishers and buckets.
"	Haley & Heley	1 "	" " "
"	Peter Casper	2 "	Buckets.
"	Columbia Silk Co	2 "	Fire extinguishers and buckets.
"	Fred. W. Alcock	Stairways and fire escapes	" " "
"	Thomas Henshawl	1 "	Hose, fire extinguishers and buckets.
"	Domestic Tapestry Co	1 Stairway and fire escapes	Fire extinguishers and buckets.
"	Cole & Knett	2 Stairways	" " "
"	Comfort & Marx	1 "	
"	Joseph Hartley	2 "	Fire extinguishers and buckets.
"	Alfred Crew,	Several stairways	" " "
"	McGill & Farnharst	1 Stairway	" " "
"	John Simpson & Co	1 "	" " "
"	John C. Ryle	2 Stairway	Hose and buckets.
"	Lewis Frank & Co	3 Tower stairways	" " "
"	Adams Industry Co	2 " "	" " "
"	Richie Bros	2 Stairways	" " "
"	Naif Bros. & Co	1 Stairway and fire escapes	Buckets.
"	Van Riper & Co	1 Stairway	"
"	UnionSilk Mills	"	Hose and buckets.
"	N. J. Hawkes & Co	Stairways	Fire extinguishers and buckets.
"	Paragon Silk Co	"	" " "
"	Paterson Ribbon Co	"	" " "
"	Pelgram & Meyer.s	2 Tower stairways and fire escapes.	All fire appliances.
"	Horandt & Son	Stairways	Hose and buckets.
"	John Hanlon's Sons	Tower stairways	" "
"	Bamford Bros	Stairways	" "
"	Nightingale Bros	2 Stairways	Hose.
"	Hopper & Scott	2 "	All fire appliances.

MEANS OF EGRESS AND MEANS FOR EXTINGUISHING FIRE—Continued

LOCATION.	NAME OF COMPANY.	MEANS OF EGRESS IN CASE OF FIRE IN FACTORIES 2 STORIES OR OVER.	MEANS FOR EXTINGUISHING FIRE.
Paterson	Seymour Bros.	Stairways	All fire appliances.
"	Helvetia Mills	1 Stairway	Hose and buckets.
"	W. H. Milton & Co	2 Stairways	Buckets and extinguishers.
"	William Ball	2 "	" " "
"	Butler Silk Manufacturing Co.	1 Stairway	" " "
"	McKay & Rowlston	1 "	" " "
"	Reed & Lovett	1 "	" " "
"	W. D. Holmes	1 "	" " "
"	D. McAllister	Stairways	Buckets and fire extinguishers.
"	lay & Groocock	Stairways and fire escapes	" " "
"	Hess & Goldschmidt	" " "	" " "
"	C. Meading	2 Tower stairs	Hose and buckets.
"	Hamil & Booth	Fire Escapes and stairway	All fire appliances.
"	Dougherty & Wordsworth	Stairways	" "
"	George Frost's Son	2 Stairways	" "
"	Grimschaw	Stairways and fire escapes	" "
"	Dexter & Lambert	Stairways	" "
"	Wm. Strange & Co	"	" "
"	Hamil Mill	"	" "
"	Progress Mills	"	" "

Passaic	Manhattan Print Works	Stairways	All fire appliances.
"	Passaic Woolen Mill	Tower stairs and fire escapes	" "
"	Reeda Barry	3 Stairways	" "
"	Rittenhouse Manufacturing Co.	Stairways and fire escapes	Hose and buckets.
"	Dundee Woolen Co	" " "	All fire appliances.
"	Pitkin & Halsworth	" " "	Hose and buckets.
"	Passaic Print Works	Several stairways	All fire appliances.
"	N. Y. Belting and Packing Co.	" "	" "

CHANGES ORDERED BY INSPECTORS.

LOCATION.	NAME OF COMPANY.		CHANGES ORDERED.
Centreville	Wm McFarland & Co	1	Guard several belts.
Harrison	Clark's O. N. T. Mill	1	Guard belts in card room.
"	Marshall & Co	2	Guard belts put fans in preparing room.
"	Nairn Linolemn Co	4	Guard belts and fly-wheel and erect fire escape.
"	N. J. Adament Co	2	Guard hatchway and fly-wheel.
"	Harold & Co	1	Guard belts in grinding room.
Hoboken	Barnes & Hogan	1	Guard belt.
"	Jas. Reynolds	1	Toilet room for females.
"	R. P. Francis, Jr	2	Guard belt and platform.
"	Coogan & Co	1	Guard belt in wash room.
"	R. Lowry	3	Fire escape, hand-rail on stairways and remove obstructions from stairways.
"	A. Redlinger	1	Guard belt on hatchways.
Town of Union	Bergenwood Silk Mills	1	Designate water closets.
"	Givernand Bros	2	Guard belt, open main door out.
"	B. Alt	1	Guard belt.
"	H. Herold	3	Fire escape, guard fly-wheel belts and open main door out.
"	Heffenstein & Co	2	Fire buckets in press room, open main door out.
"	H. Santag	1	Fire buckets.

Town of Union	Oscar Roepecke	1	Fire buckets.
"	James Ware &Son	1	Fire buckets in sewing room.
"	A. Hagan	3	Guard belts, stairway opening and place fire buckets in various rooms.
West Hoboken	B. Fountaine	1	Guard belt.
Jersey City	Colgate & Co	1	Guard belts on second floor.
"	Poidebard & Co	1	Main doors to open out.
"	C. Stohn	1	Fire buckets.
"	F. G. Otto & Sons	1	Guard hatchway openings.
"	J. Thorp	1	Fire buckets.
"	Liberty Soap Co	1	Guard main belt.
"	L. & M. Rubber Co	2	Guard belt and hatchways.
"	A. Gross & Co	1	Guard hatchway openings.
"	Tartar Chemical Co	1	Hand-rail on stairways.
"	Geo. Mathers & Son	1	Guard hatchway openings.
"	Frazer Manufacturing Co	1	" "
"	H. S. Hall	2	Fire escape and guard belt.
"	Hyderoline Soap Co	2	Guard fly-wheel belt and hatchway.
"	Daft Electric Co	2	Guard belt and elevator.
"	Royal Chemical Co	1	Guard main belt.
"	G. J. Brown	1	Toilet room for females.
"	W. O. Davey & Sons	1	Guard fly-wheel.
"	R. H. Steel & Co	1	Guard belt in wash room.
"	P. Lorillard & Co	1	Guard shafting of stitching machines.
"	J. H. Gautier & Co	1	Guard several belts.
"	Spear & Co	1	Guard shafting of stiching machines.
"	Passaic Zinc Co	1	Guard main belt.
"	H. C. Knitting Mill	1	Toilet room for females.
"	Mathieson Wichero	1	Fire escapes.
"	Winter Ball M'fg Co	1	Guard belts.
"	Ames Spike Co	2	Guard belts and fly-wheel.
Egg Harbor City	Jacob Obert	1	Toilet room for females.
"	Andrew Beck	1	" "
"	Adolph Miller	1	" "
"	Fred Scuchardt	1	" "
"	Geo Miller	1	" "
"	Isaac Bernstein	1	" "

CHANGES ORDERED BY INSPECTORS.

LOCATION.	NAME OF COMPANY.	CHANGES ORDERED.
Egg Harbor City....	Henry Byer.....	Toilet room for females.
"	Chas. Kraus & Son.....	" "
Salem.....	John Gayner.....	Guard main belt.
Quinton.....	Hires & Co.....	" "
Camden.....	Burk & Co.....	Guard pulleys.
"	Cottrell & Wolfenden.....	Guard belts.
"	Julian Electric Works.....	Guard stairway.
"	H. H. Conrey.....	" "
"	Anderson Preserving Co.....	Guard elevator openings.
Bridgeton.....	Ferracute Machine Co.....	Guard shafting.
"	Home Knittimg Mills.....	Guard shafting of knitting machines.
"	Soll, Miller & Co.....	Guard shafting of stitching machines.
Paterson.....	Jos. Simpson & Co.....	Fire escape.
"	Bamford Bros.....	Guard belts.
"	Helvetia Mills.....	Fire escape.
"	Progress Mills.....	"
"	Rittenhouse M'fg. Co.....	"
"	Pitkin & Holdsworth.....	"
Trenton.....	Rubber Valve and Spring Co.....	Guard gearing of mill.
"	Davis Soap and Chemical Co.....	Guard hatchway.

Trenton	S. K. Wilson	1	Fire escapes.
"	Trenton Terra Cotta Co	2	Guard gearing and belts.
Woodbridge	Wm. H. Berry	2	Guard elevator and stairways.
"	Valentine Bros	2	Guard elevator and fan belt.
"	Spa Brick Co	1	Guard elevator and stairway.
"	The Annis & Lyle M'fg. Co	1	Guard belt.
Cartereh	Wm. Clark	1	Guard main belt.
Perth Amboy	Henry Maurer & Son	2	Guard stairway and elevator.
"	Raritan Hollow Brick Co	2	Guard stairway and pulley.
"	John Hornsby & Co	2	Guard gearing and grinders.
Long Branch	L. D. Edwards & Co	1	Guard saw belt.
South River	John Whitehead & Co	1	Guard fly-wheel.
"	Mark Davison & Co	1	Guard shafting of stitching machines.
"	Herman Ankan	1	" "
Jamesburg	Jas. H. Martin	1	" "
Bound Brook	Bound Brook Woolen Mills	2	Cover oil pot, ventilate rag picker room.
"	Compressed Air Pump Co	1	Guard fly-wheel.
Mount Holly	R. W. Bowker	1	Guard shaft of stitching machine.
"	Fitzpatrick & French	1	Toilet room for females.
Riverside	Christian Disch	2	Guard belts and shafting.
"	Pfaw Bros	2	Guard belts and engine.
Beverly	Beverly Hosiery Mills	1	Guard belts.
Vineland	John Northrop & Co	1	Guard shafting.
"	Chas. Keighley	1	Alter doors to swing out.
"	Gage Tool Co	1	Guard belts.
"	Jos. Mason	1	Guard shafting.
"	Corner & Billings	1	Fire buckets.
Winslow	Winslow Glass Works	1	Guard pulley.
Elmer	Luke F. Smith	2	Guard belt and fly-wheel.
Newark	Chas. Felder	1	Clean water closet.
"	Ultramarine Works	1	Guard and belt.
"	Cogswell & Boulter	2	Guard shafting, repair closet.
"	P. Jones & Co	1	Guard elevator openings.
"	Spencer M'fg. Co	1	Guard shafting.
Orange	T. O. Ingling	1	Guard hatchway.
"	McGaw, Allen & Co	1	Clean closets.
Belville	De Witt Wire Co	1	Guard and belt.

CHANGES ORDERED BY INSPECTORS.

LOCATION.	NAME OF COMPANY.		CHANGES ORDERED.
Belville	P. Hogan	1	Guard belt and stairway.
"	Riverside Rubber Co	1	Guard belts and gearing and put up fan.
Watsessing	Combination Rubber Co	1	Guard belts and gearing.
"	S. Gibson	1	Toilet room for females.
"	Eller, Law & Co	1	" "
"	Eller Bros	1	" "
Franklyn	Kingsland Paper Mill	2	Guard two belts.
"	Essex M'fg. Co	1	Guard fly-wheel.
"	Underhill M'fg. Co	1	Guard main and other belts.
Elizabeth	Charles H. Miller	1	Guard belt and emery wheel.
"	Haywood & Co	1	Guard shafting.
New Brunswick	N. J. Lamp and Bronze Co	1	Guard elevator opening.
"	George Butler	1	Guard main belt.
"	John Guible	1	Guard shafting.
"	J. B. Archer	1	"
"	L. T. Ives	1	"
"	Middlesex Shoe Co	1	"
Manasquan	Thos Vaughn	1	"
"	R. T. Van Shorck	1	Guard saw belt.
Woodbridge	Salamander Works	2	Guard belt and elevator openings.

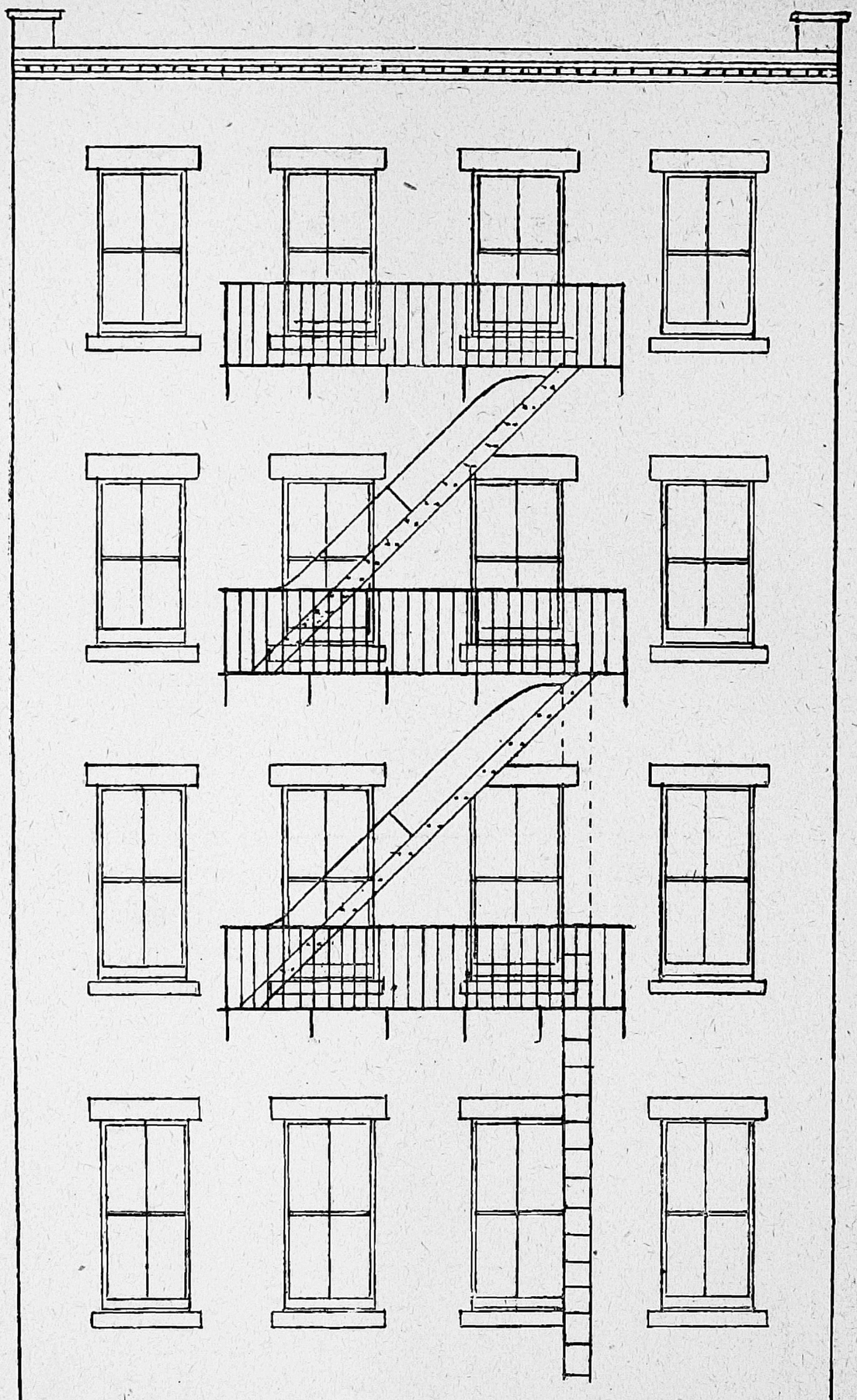
Newark	Bless & Drake	1	Guard belts in grinding room.
"	Johnson & Murphy	1	Guard shaft of stitching machines.
"	S. J. & J. Anderson	1	Guard shafting.
"	Wm. Dirsh & Son	1	"
"	August Lentz	1	"
"	Felter Bros	2	Guard shafting and belts.
"	A. J. Miller	1	Toilet room for females.
"	Thos. Linnett	2	Guard shafting and elevator openings.
"	S. F Meagher	1	Guard shafting.
"	C H. Booth	1	"
"	Manhattan Shirt Co	1	"
"	Smith Shirt Factory	1	"
"	Simon Bros	1	Guard circular saw.
"	Geo. B. Jenkinson	1	Guard shafting of machines.
"	Central Stamping Co	1	Guard belts.
"	Matthias Price	1	Clean water closet.
"	Newark Edge Tool Co	1	Guard main belt.
"	Bogardus Art Co	1	Guard belts.
"	John Samers & Son	1	Guard main belt.
"	Central Planing Mill	1	Guard belts.
"	Ripley & Sons	1	"
"	Chapin Hall Lumber Co	1	Guard belts on first floor.
"	John Rindell & Son	1	Guard belts.
"	Newark Planing Mill Co	2	Guard belts and fly-wheel.
"	Wm. King & Co	1	Guard belts.
"	Wm. Hill	1	"
"	W. L. Starr	1	Guard main belt.
"	— Bannester	1	Guard a belt.
"	F. & G. Stone	2	Guard belts and shafting.
"	Newark Electric Light Co	1	Dressing room for females.
"	Wilkinson & Gaddis	1	Guard belting on first floor.
"	Wheeler & Russell	2	Guard pully and stairway.
"	Meyer Mercy	2	Guard belts and shafting.
"	Joseph Schurman	1	Guard belts.
"	C. F. Seitz & Son	1	Guard shafting.
"	Chas. Crossley	1	Guard belts.
"	David Wolf	1	Guard shafting.

CHANGES ORDERED BY INSPECTORS.

LOCATION.	NAME OF COMPANY.		CHANGES ORDERED.
Newark	T. S. Carley	1	Guard shafting.
"	Merk & Romberg	1	Guard shafting.
"	McClair & Davis	1	"
"	G. Winans & Bro	2	Guard shafting and elevator openings.
"	Carter, Sloan & Co	2	Guard belts and screen stairway.
"	T. J. Preston	1	Guard belts.
"	C. N. Lockwood	1	"
"	Smith Brothers	1	"
"	Tirrells Gas Machine Co	2	Guard elevator openings.
"	Domestic Sewing Machine Co. (wood shop)	1	Guard belts.
"	H. C. Clawson	1	Clean water closets.
"	Chas. E. Green	1	Guard a belt.
"	Smith & Landell	2	Hand rail on stairs and guard belts.
"	S. O. Smith	1	Guard belts.
"	C. Roberts	1	"
"	Stewart & Hartshorn	1	"
"	Newark Rivet Works	2	Guard belts and wheels.
"	Richardson Bros.	1	Guard belts.
"	Riley & Osborn	2	Fire escape, guard belts.
"	Thos. Davis	2	Guard belt and shafting.

Newark	McCutchson & Crane	1	Guard belt.
"	Frank & Co.	1	Toilet room for females.
"	Pearsols	1	Fire escape.
"	F. Frentz	1	Connect water closets with sewer.
"	Wm. Donovan	1	Guard a belt.
"	N. J. Button Manufacturing Co.	1	Fire escape.
"	Ballantine & Co.	1	Guard belts.
"	C. Trefz	1	"
"	Feiganspan	1	"
"	Enterprise Brewing Co.	1	"
"	J. D. Marguett	1	Guard elevator openings.
"	Riley & Osbourne (box factory)	2	Guard two belts.
"	E. T. Hart	1	Guard main belt.
"	B. Osborne	2	Guard fly-wheel and belt.
"	Chas. Opple & Sons	1	Guard elevator openings.
"	Wm. Craft	2	Fire escape and guard shafting.
"	Bernhiem, Baner & Co.	1	Guard shafting.
"	Chas. H. Curtis	2	Guard shafting and limewash.
"	J. Fried	1	Guard shafting.
"	Jas. Bowers & Co.	2	Fire escape and guard shafting.
"	Ferris Bros.	1	Guard machine shafts.
"	Crutty Bros,	1	Guard shafting.
"	Weingarter Bros.	1	"
"	Bristol Corset Co	1	Guard shafting of machines.
"	Whiting & Smartwood	1	Guard shafting.

LOCATION.	NAME OF FACTORY.	NAME OF INJURED PERSON.	NATURE AND RESULT OF ACCIDENTS.
Newark	Lister Bros. Bone Works	Christian Metzger	Caught on a shaft while oiling; killed.
"	Richardson Saw Works	William Seerey	Hand caught in gearing, loss of two fingers.
Jersey City	Heppenheimer Sons	Paul Mehnert (15)	Hand caught in a press; loss of hand.
Plainfield	Vandeventor & Co.	Mary McDowney	Hair caught on winding machine.
Elizabeth	Cordage Co.	Susan Holt	By stopping machine; losing three fingers.
"	Cordage Co.	Michael Dougherty	Arm caught in pulley; seriously injured.
Millville	Millville M'fg. Co.	Geo. S. Estelon	Caught on elevator shaft; slightly injured.
Bridgeton	Ferracute Machine Co	J. Howell Reeves	Hand caught on circular saw.
Camden	Anderson & Co.	James Mehan	Injured by steam pipes bursting.
Millville	Millville M'fg. Co.	John Mintz	Hand caught in gearing; slightly injured.
"	Whitall. Tatum Co.	John Stanger	Injured by the bursting of a emery wheel.
Camden	West Jersey Paper Co	Jos. Tash	Foot caught on belt, breaking his leg.
Vineland	Hirst Rug Works	Constaine Ferrais	Hand caught on wind'g mach.; loss of finger.
Mount Hope	Mount Hope Mines	Richard Burrows	Fell from a ladder.
Hiberina	Andover Iron Mines	James Hart	Fall of rock, leg and foot bruised.
"	" "	John Dudas	Fall of rock, killed.
Mount Hope	Mount Hope Mines	Jas. Hill	Fall of ore from a pillow; killed.
"	" "	Thos. Quigley	" " foot crushed.



This diagram is intended to give a general idea only of an approved form of stepladder fire escape. The materials must be of the proper size and strength for the purpose and place for which it is to be used, and it must always be secured to the building in the best possible manner, as prescribed by Section 4 of the Act of 1887.

Upon the Necessity of a System of Fire Drill in Factories.

BY INSPECTOR CALLAN.

Of all the dangers that threaten the lives of employees in the large and crowded factories of our cities and towns, the most imminent, ever threatening, and that which needs to be most carefully guarded against, is fire. So great is the fear of this deadly element that even the mere cry of fire, where none really existed, frequently caused panic, excitement, and loss of life; it becomes, therefore, one of the highest duties of the factory inspectors, to whom the State has, in a special manner, entrusted the lives of many of its people, to study well this all important subject, and to ascertain as far as possible the best means of prevention and escape. With this thought in view I gave much attention during the past year to this matter, and as I visited the great factories in my district, noted down the different modes and contrivances that are in general use, and while I do not pretend to tell anything new I may, perhaps, by mentioning this subject in my report be the means of opening up avenues of thought on it to others.

For the prevention of fire in the various factories visited I have found almost every contrivance worthy of notice, namely: the steam pump, the stand pipe and hose, the automatic sprinkler, the chemical engine, the portable fire extinguisher, the hand grenade, and water tank with buckets and cups. The workrooms of every large factory, particularly where easily ignited or combustible goods are manufactured or used, should be supplied with all or most of these appliances. From what I can learn from those who have had occasion to use them, the automatic sprinklers are the most effective for workrooms; the reasons given are that being placed overhead they will drench all parts of the room at once and with great expedition, besides they are not an obstruction to egress, which many

other contrivances are, especially where, as is often the case, there is but one means of exit. For general use the steam pump and chemical engine are considered the best; the portable extinguishers, hand grenades, and buckets are good also, but no large factory should depend on them alone.

The modes of escape in general use are as follows: the tower stairway, the stout outside iron ladder with a landing at each story, the perpendicular ladder reaching from the ground to the roof, the rope and pulley fire escape, and the canvass shute. There are two other modes which some owners of factories are very anxious to impress on the minds of the inspector as excellent escapes, but I cannot class them as such. One is the scuttle hole in the roof through which the employes can gain access to the roofs of adjoining buildings, and the other is the elevator. The former as a fire escape is absurd, but as a means of exit it is better than none.

The elevator is always liable to accident, and in time of fire acts as a flue for the smoke and flames. In my judgment a law should be enacted requiring that all elevator doors should have a metal covering, and should be immediately closed upon the alarm of fire. The very best means of egress is the tower stairway; it is by this stairway that the operatives go to and from their work, they know it, are used to it, and prefer it to any other means. It should in all cases be properly constructed and provided with doors that swing outward. Here let me say in regard to doors that I have found them opening in, out, and both ways, and on slides and to be raised up. The law should, in my opinion, require that all outside doors, whether main or not, should open outward and all inside doors should swing both ways.

The perpendicular iron ladder is not a good arrangement, it is so straight that few, especially females, could muster courage enough to descend it, even when moved by fear. It should be replaced as soon as possible by the slanting step-ladder escape, as illustrated on page 78 of this report. This is, I think, one of the best outside fire escapes yet invented, and is less liable to accident than any of the others. The portable rope and pulley arrangement is good in its way, but should not be solely depended upon in large establishments, except as an adjunct, and then it should be always at hand and ready for use, and not thrown carelessly in some corner until needed, as I found it in a factory occupying the fourth

floor of a large building where sixty girls were employed. The owner of this factory prided himself upon having an exemplary fire escape, being anxious to see it, search had to be made for it, and it was found after a long delay in the attick covered with rubbish, and when it was brought down to be used the owner did not know how to adjust it. All means of escape can be used with good effect, provided that the one great principle, without which nothing can be done well, is enforced, namely, order. Properly enforced order restores confidence when danger and even death is impending. It teaches us to meet both with calmness and courage. With order there are eight out of ten chances to escape, without it the chances of perishing are eight to ten.

What must be done then to carry out this great principle in our large factories in the face of danger? The answer is enforce *discipline!* Let the employees be trained under cool and competent persons in charge of the workrooms and departments, to know their places and what is expected of them in case of emergency; let the owners of all large factories be required at least once a week to drill their operatives in fire manouvres, and soon they will become so familiar with the means of saving themselves that they will know what to do and how to do it in the hour of real danger.

I deem it proper to here mention an establishment which is in this respect, as well as many others from my standpoint, a model factory. While there are several excellent factories in my district I desire to make special mention of Seabury's Pharmaceutical Labratory, at East Orange, where the very highest point of perfection possible so far has been attained. Upon the occasion of one of my visits to this factory the Superintendent demonstrated what could be done by discipline. He ordered the fire alarm to be sounded, and in less than thirty seconds the building was cleared of nearly three hundred hands (two-thirds of whom were females) and four streams of water ready to play on the building. I could well understand as the Superintendent informed me that this remarkable exhibition presented ability not only to escape danger but also to combat the fire itself, was only brought about by enforced discipline among the employees and a diligent course of training in the use of the various devices. At first, when this training begun, there was great confusion and several of the females fainted, thus taking several minutes to clear the building; it was not long, however,

before the time was reduced to the present standard. This goes to show not only for the protection of the employees but for the employers also, what can be done when there is a system of fire drill in their works.

I consider it proper in concluding to mention another factory, in contrast with the one last spoken of. A lead pencil factory employing about three hundred and fifty hands, eighty of whom were females; a fire occurred there from an explosion of lead parings, or supposed to occur from that source; a great rush was made for the doors and windows in rooms where the fire was not near, several girls jumped from the third story and were hurt, one of them dangerously, and though the building is well supplied with fire escapes; some of the girls jumped from the windows which the fire escape was fastened to, not one of them used the fire escape or even noticed it in their excitement. The comparison is, therefore, conclusive evidence that it is of the highest importance that some mode of discipline should be adopted in all large works in addition to having the various modes of escape, so that the greatest of all dangers to employees may be minimized to the lowest possible degree.

LABOR LAWS.

THE EMPLOYMENT OF CHILDREN.

An act to limit the age and employment-hours of labor of children, minors and women, and to appoint an inspector for the enforcement of the same.

SECTION 1. Be it enacted by the Senate and General Assembly of the State of New Jersey, That after the fourth day of July, one thousand eight hundred and eighty-three, no boy under the age of twelve years, nor any girl under fourteen years of age, shall be employed in any factory, workshop, mine or establishment where the manufacture of any goods whatever is carried on.

SEC. 2. That on and after the first day of July, one thousand eight hundred and eighty-four, no child between the ages of twelve and fifteen years shall be employed in any factory, workshop, mine or establishment where the manufacture of any kind of goods whatever is carried on, unless such child shall have attended, within twelve months immediately preceding such employment, some public day or night school, or some well-recognized private school; auch attendance to be for five days or evenings every week during a period of at least twelve consecutive weeks, which may be divided into two terms of six consecutive weeks each, so far as the arrangement of school terms will permit, and unless such child, or its parents or guardian, shall have presented to the manufacturer, merchant or other employer seeking to employ such child, a certificate giving the name of his parents or guardian, the name and number of the schools attended, and the number of weeks in attendance, such certificate to be signed by the teacher or teachers of such child; *provided*, that in case the age of the child be not known, such teacher shall certify that the age given is the true age, to the best of his or her knowledge or belief; *provided*, that in case of orphan children, where necessity may seem to require, the guardian or others having

charge of the same may, upon application to the inspector provided for in this act, receive from him a permit for the employment of such child or children, under such regulations as the said inspector may prescribe.

SEC. 3. That no child or children under the age of fourteen years shall be employed in any factory, workshop, mill or establishment where the manufacture of any kind of goods is carried on, for a longer period than an average of ten hours in a day, or sixty hours in a week.

SEC. 4. That every manufacturer, merchant or other employer employing any person contrary to the provisions of this act or who shall be guilty of any violation hereof, shall be guilty of misdemeanor, and upon conviction be fined for each offense in a sum of not less than fifty, nor more than one hundred dollars, and in default of payment of the same, shall be imprisoned in the county jail for not less than thirty, nor more than ninety days, and that every head of a family, parent or guardian who knowingly permits the employment of such children, shall be likewise subject to a fine of not more than twenty-five, nor less than ten dollars for every child so employed, and for each offense, and in default of such payment, shall be imprisoned in the county jail for a period of not less than ten days, nor more than twenty days; a certificate of the age of the minor, made by him or her, and by his or her parents or guardian at the time of employment, shall be conclusive evidence of the age of such minor upon any trial for the violation of this act; *provided*, that the provisions in this act in relation to the hours of employment, shall not apply to, or affect any person engaged in preserving perishable goods in fruit-canning establishments.

SEC. 5. That the governor shall, immediately after the passage of this bill, appoint, with the advice and consent of the senate, some suitable person, who shall be a resident and citizen of this state, as inspector, at a salary of twelve hundred dollars per year, to be paid monthly, whose term of office shall be for three years; the said inspector shall be empowered to visit and inspect, at all reasonable hours, and as often as practicable, the factories, workshops, mines and other establishments in the state where the manufacture or sale of any kind of goods is carried on, and to report to the governor of this state on or before the thirty first day of October in each year; it shall also be the duty of said inspector to enforce the pro-

visions of this act, and prosecute all violations of the same in any recorders' courts of cities, and justices of the peace, or other courts of competent jurisdiction in the state.

SEC. 6. That all necessary expenses incurred by said inspector in the discharge of his duty, shall be paid from the funds of the state, upon the presentation of proper vouchers of the same; *provided*, that not more than five hundred dollars shall be expended by him in any one year.

SEC. 7. That all fines collected under this act shall inure to the benefit of the school fund of the district where the offense has been committed.

SEC 8. That all acts and parts of acts inconsistent with the provisions of this act are hereby repealed, and that this act shall take effect immediately.

Approved March 5th, 1883.

A supplementary act, approved in 1884, contains the following enactments:

That the inspector and his deputies shall have power to demand a certificate of physical fitness from some regular practicing physician in the case of minors who may seem physically unable to work, and shall have power to prohibit the employment of any minor that cannot obtain such a certificate.

That any parent or guardian who, when so required by the inspector, or one of his deputies, shall furnish to such inspector, or deputy, a certificate from the office of registration of births, or in the absence of such certificate, an affidavit or affidavits of the age of such minor, and if any one shall knowingly swear falsely in any such affidavit, the person or persons so swearing shall be guilty of perjury and liable to indictment and punishment accordingly.

That section four of the act to which this is a supplement shall be amended to read as follows:

[SEC. 4. That every manufacturer, merchant or other employer employing any person contrary to the provisions of this act, or who shall be guilty of any violation thereof, shall be liable to a penalty of fifty dollars for each offense, to be recovered in an action of debt in any district court in any city, or before any justice of the peace having due jurisdiction, and that any parent or guardian, who knowingly permits the employment of such child or children,

shall be liable in a like action to a penalty of not more than fifty dollars, as the court shall fix; that such action shall be prosecuted in the name of the inspector; the trial shall proceed as other actions of debt, and the first process shall be a summons returnable in not less than five or more than ten days after issue, and it shall not be necessary to indorse the same as in qui tam actions; the finding of the court shall be that the defendant has or has not, as the case may be, incurred the penalty claimed in the demand of the plaintiff, and judgment shall be given accordingly; in case an execution shall issue and be returned unsatisfied, the court, on application, after notice to the defendant, may award an execution to take the body of the defendant, and in case such a defendant is committed under such an execution, he shall not be discharged under the insolvent laws of the State, but shall only be discharged by the court making the order for the body execution, on one of the justices of the supreme court, when such court or justice shall be satisfied that further confinement will not accomplish the payment of the judgment and costs; an affidavit of the age of any minor made by its parent or guardian, at the time of its employment, shall be conclusive evidence of the age of such minor, upon any trial against a manufacturer or employer for the violation of this act, but any parent or guardian that shall knowingly swear falsely in such affidavit, shall be guilty of perjury, and the inspector or deputy inspector shall be authorized in case they shall find any minor employed under any false affidavit given as aforesaid, to order and compel such minor to desist from work; the provisions of this act in relation to the hours of employment shall not apply to or affect any person engaged in preserving goods in fruit-canning establishments.]

GENERAL FACTORY ACT.

The law of April 7th, 1885, known as the General Factory act, is hereby given in full:

A general act relating to factories and workshops, and the employment, safety, health and work-hours of operatives.

SECTION 1. Be it enacted by the Senate and General Assembly of the State of New Jersey, That any person or corporation engaged

in manufacturing, which requires from persons in his or its employ, under penalty of forfeiture of a part of the wages earned by them, a notice of intention to leave such employ, shall be liable to the payment of a like forfeiture if he or it discharges without similar notice a person in such employ, unless in case of a general suspension of labor in his or its shop or factory.

SEC. 2. That all accidents in workshops, factories or mines, which result in death, shall be reported at once by the occupier to the inspector of workshops at Trenton, and the city or district physician, where one is employed as such, which notice may be given by mail.

SEC. 3. That the belting, shafting, gearing and drums in all factories and workshops, when so placed as to be dangerous to persons employed therein while engaged in their ordinary duties, shall be securely guarded when practicable (possible); if otherwise, then notice of its danger shall be conspicuously posted in the factory or workshop.

SEC. 4. That no minor, under eighteen years of age, or woman, shall be required to clean any part of the mill gearing or machinery in any factory or workshop while the same is in motion, or work between the fixed or traversing parts of any machine while it is in motion by the action of steam, water or other mechanical power.

SEC. 5. That the opening of all hoistways, hatchways, elevators and well-holes upon every floor of a factory or mercantile or public building, shall be protected by good and sufficient trap doors or self-closing hatches and safety catches, or strong guard rails at least three feet high, and all due diligence shall be used to keep such trap-doors closed at all times, except when in actual use by the occupant of the building having the use and control of the same.

SEC. 6. That no explosive or inflammable compound shall be used in any factory, in such place or manner as to obstruct or render hazardous the egress of operatives in case of fire.

SEC. 7. That no minor under the age of sixteen shall be employed in any manufacturing, mercantile or mechanical establishment more than ten hours a day or sixty hours a week.

SEC. 8. That suitable places shall be provided in all factories and workshops where girls or women are employed, where unclean work of any kind has to be performed, for such girls or women to wash

and dress, and that stairs in use by female employes in all factories and workshops be properly screened.

SEC. 9. That separate water-closets be provided for the use of employes of either sex in all manufacturing, mercantile and mechanical establishments where persons of both sexes are employed.

SEC. 10. That where the factories or workshops appear so overcrowded, that in the opinion of the inspector of factories there is danger to health, the inspectors shall have power, after being supported in their opinion by some reputable resident physician, to prohibit such overcrowding.

SEC. 11. That the inspectors of factories shall have power to order a fan or other mechanical means of proper construction, if practicable, for the purpose of preventing the inhalation of dust in establishments where any process is carried on by which dust is generated and inhaled by the workers to an injurious extent.

SEC. 12. That all factories and mines be ventilated so as to render harmless all impurities as near as may be.

SEC. 13. That no cellar, room, or place shall be occupied as a bakehouse, which is less than one-half of its height above the level of the street, footway or ground adjoining the same, unless the following regulations are complied with: First, no water-closet, earth-closet, privy or ash-pit shall be within or communicate directly with the bake-house; second, no drain or pipe for carrying off sewage or other impure matter shall have an opening within a bake-house, unless such drain or pipe be trapped with a six-inch water-seal, both within and without the wall of the bake-house, and have a ventilating pipe of one-half the size of drain-pipe between the wall and the outer trap, and which ventilating pipe shall run two feet above the roof of building.

SEC. 14. That the sleeping-places for workmen and others employed in bake-houses shall be separate and distinct from the places used for the making of bread.

SEC. 15. That any person or corporation, being the owner, lessee or occupant of any manufacturing establishment, factory, mine, workshop or store, or owning or controlling the use of any building or room, shall, for the willful violation of any provisions of this act, except sections one and two, be liable to a penalty of fifty dollars for each offense, to be recovered in an action of debt in any district court in any city, or before any justice of the peace having due jurisdiction,

and that any employe who shall be guilty of any violation of the provisions of this act shall be liable in a like action to a penalty of fifty dollars; that such action shall be prosecuted by and in the name of the inspector of factories; the trial shall proceed as other actions of debt, and the first process shall be a summons returnable in not less than five days or more than ten after issue, and it shall not be necessary to indorse the same as in qui tam actions; the finding of the court shall be that the defendant has or has not, as the case may be, incurred the penalty claimed in the demand of the plaintiff, and judgment shall be given accordingly; in case an execution shall issue and be returned unsatisfied, the court, on application, after notice to the defendant, may award an execution to take the body of the defendant, and in case such defendant is committed under such an execution, he shall not be discharged under the insolvent laws of the state, but shall only be discharged by the court making the order for the body execution, or one of the justices of the supreme court, when such court or justice shall be satisfied that further confinement will not accomplish the payment of the judgment and costs; *provided*, nothing herein shall subject any owner of a building or premises to any penalty unless he shall be the proprietor of the business conducted therein.

SEC. 16. That all acts or parts of acts inconsistent with the provisions of this act be and are hereby repealed.

Approved April 7th, 1885.

COMPULSORY EDUCATION LAW.

Here is the text of the act providing for the compulsory education of children, to whose practical working and defective enforcement, so far as I have observed, I desire to call attention.

A supplement to an act to establish a system of public instruction, approved April ninth, one thousand eight hundred and seventy-five.

SECTION 1. Be it enacted by the Senate and General Assembly of the State of New Jersey, That all parents, and those who have the care of children, shall instruct them or cause them to be instructed

in spelling, reading, writing, English grammar, geography and arithmetic, and every parent, guardian or other person having control and charge of any child or children between the ages of seven and twelve years, shall be required to send any such child or children to a public day school for a period of at least twenty weeks in each year, eight weeks, at least, of which attendance shall be consecutive, unless such child or children are excused from such attendance by the board of the school district in which such parents or guardians reside, upon its being shown to their satisfaction that the bodily or mental condition of such child or children has been such as to prevent his, her or their attendance at school, or that such child or children are taught in a private school, or at home, by some qualified person or persons, in such branches as are usually taught in primary schools.

SEC. 2. That no child under the age of fifteen years shall be employed by any person, company or corporation to labor in any business whatever, unless such child shall have attended, within twelve months immediately preceding such employment, some public day or night school, or some well-recognized private school; such attendance to be for five days or evenings every week during a period of at least twelve consecutive weeks, which may be divided into two terms of six consecutive weeks each, so far as the arrangement of school terms will permit, and unless such child, or his or her parents or guardian, shall have complied with the provisions of the act approved March fifth, eighteen hundred and eighty-three, limiting the employment hours of the labor of children.

SEC. 3. That every parent, guardian or other person having charge or control of any child, from twelve to sixteen years of age, who has been temporarily discharged from employment in any business in order to be afforded an opportunity to receive instruction or schooling, shall send such child to some public or private day school for the period for which such child shall have been discharged, unless such child shall have been excused from such attendance by the inspectors of factories and workshops, or by the board of the school district for reasons as stated in section one hereof.

SEC. 4. That in case any parent, guardian or other person shall fail to comply with the provisions of sections one and three of this act, such parent, guardian or other person shall be deemed guilty of a misdemeanor, and shall, on conviction, be liable to a fine of not less than ten dollars nor more than twenty-five dollars for the

first offense, and of not less than twenty-five dollars for each subsequent offense, or to imprisonment for not less than one month or more than three; the said fines, when paid, to be added to the public school money of said school district in which the offense occurred.

SEC. 5. That all children between the ages of seven and fifteen years, who are habitual truants from school, or who, while in attendance at any public school, are incorrigible, vicious or immoral in conduct, and all children between the said ages who absent themselves habitually from school, and habitually wander about streets and public places during school hours, having no business or lawful occupation, shall be deemed juvenile disorderly persons and subject to the provisions of this act.

SEC. 6. That in all cities having a duly organized police force, it shall be the duty of the police authority, at the request of the inspectors of factories and workshops, or of the school authority, to detail one or more members of said force to assist in the enforcement of this act, and in districts having no regular police force, subject to this act, it shall be the duty of the board of education, or the school district officers to designate one or more constables of said city, township or village, whose duty it shall be to assist in the enforcement of this act, as occasion may require, and said board of education shall fix and determine the compensation to be paid such police officer or constable for the performance of his duties under the act; members of any police force or any constable designated to assist in the enforcement of this act, as provided in this section, shall be known as truant officers; *provided*, that in districts where no constable resides, the said board shall have power to appoint some other suitable person as truant officer.

SEC. 7. That it shall be the duty of any such truant officer or officers detailed to enforce the provisions of this act to examine into all cases of truancy, when requested so to do by the inspectors of factories and workshops, or by a district school board, and to warn such truants, their parents or guardians, in writing, of the final consequences of truancy, if persisted in, and also to notify the parent, guardian or other person having the legal charge and control of any juvenile disorderly person, that the said person is not attending any school, and to require said parent, guardian or other person to cause the said child to attend some recognized school within five days from said notice, and it shall be the duty of said parent, guar-

dian or other person having the legal charge and control of said child, to cause the attendance of said child at some recognized school; if said parent, guardian or other person having the legal charge and control of said child shall willfully refuse, fail or neglect to cause said child to attend some recognized school, it shall be the duty of said officer to make or cause to be made a complaint against said parent, guardian or other person having the legal control and charge of such child in any court of competent jurisdiction in the school district in which the offense occurred for such refusal or neglect, and upon conviction thereof said parent, guardian or other person, as the case may be, shall be punished by a fine of not less than ten dollars nor more than twenty-five dollars, or the court may, in its discretion, require the person so convicted to give bond in the penal sum of one hundred dollars, with one or more sureties, to be approved by said court, conditioned that said person so convicted shall cause the child or children under his or her legal charge or control to attend some recognized school within five days thereafter, and to remain at said school during the term prescribed by law; *provided*, that if said parent or guardian, or other person in charge of said child, shall prove inability to cause said child to attend said recognized school, then said parent or guardian or other person, shall be discharged, and said court shall, upon complaint of said truant officer or other person that said child is a juvenile disorderly person, as described in section five of this act, proceed to hear such complaint, and if said court shall determine that said child is a juvenile disorderly person within the meaning of this act, then said court shall thereupon sentence said child to a juvenile reformatory until such child shall arrive at the age of sixteen years, unless sooner discharged by the board of control of said juvenile reformatory; *provided however*, that such sentence may be suspended in the discretion of said court for such time as the child shall regularly attend school and properly deport himself or herself; *it is further provided*, that if for any cause the parent or guardian, or other person having charge of any juvenile disorderly person as defined in this act, shall fail to cause such juvenile disorderly person to attend said recognized school, then complaint against such juvenile disorderly person may be made, heard, tried and determined in the same manner as is provided for in case the parent pleads inability to cause said juvenile disorderly person to attend

said recognized school; *and it is further provided*, that no child under the age of nine years shall be sent to a juvenile reformatory under the provisions of this act.

SEC. 8. That it shall be the duty of the officers empowered, detailed or appointed under the provisions of this act to assist in the enforcement thereof, to institute or cause to be instituted, proceedings against any parent, guardian or other person having legal charge and control of any child, or any person, company or corporation violating any of the provisions of the sections of this act; *provided*, this law shall not be operative in those school districts of the State where there are not sufficient accommodations to seat the children compelled to attend school under the provisions of this act; and that no prosecution shall be instituted against any parent, guardian or child unless they have received due notification from an officer empowered under this act that they are acting in violation of the provisions of this act.

SEC. 9. That when there is not within the distance of two miles from the factory or shop in which a child under the age of fifteen years is employed, or from the residence of the child, a recognized efficient school, attendance at a school temporarily approved by an inspector of factories and workshops shall for the purposes of this act be deemed attendance at a recognized efficient school, and the inspector of factories shall immediately report to the education department every case of the approval of a school by him under this section.

SEC. 10. That two weeks' attendance of children between twelve and fifteen years of age at a recognized half-time or evening school shall for all purposes of this act be counted as one week at a day school.

SEC. 11. That when any of the provisions of this act are violated by a corporation, proceedings may be had against any of the officers or agents of said corporation who in any way participate in or are cognizant of such violation by the corporation of which they are the officers or agents, and said officers or agents shall be subject to the same penalties as individuals similarly offending.

SEC. 12. That all acts and parts of acts inconsistent with this act are hereby repealed, and that this act shall take effect on the first day of September, one thousand eight hundred and eighty-five.

Approved April 20th, 1885.

An act providing for the establishment of schools for industrial education.

WHEREAS, The establishment of well-conducted and liberally-supported schools for the training and education of pupils in industrial and mechanical pursuits must tend to supply a growing want in our community of skilled mechanics, artisans and agriculturists; *and whereas*, it is especially the duty of the state to afford good educational facilities to its youth in those technical studies which are directly associated with the material prosperity of its people: therefore,

SECTION 1. Be it enacted by the Senate and General Assembly of the State of New Jersey, That whenever any board of education, school committee or other like body, of any city, town or township in this state, shall certify to the governar that a sum of money, not less than three thousand dollars, has been contributed by voluntary subscriptions of citizens, or otherwise, as hereinafter authorized, for the establishment in any such city, town or township, of a school or schools for industrial education, it shall be the duty of the said governor to cause to be drawn, by warrant of the comptroller, approved by himself, out of any moneys in the state treasuay not otherwise appropriated, an amount equal to that contribeted by the particular locality as aforesaid for the said object; and when any such school or schools shall have been established in any locality as aforesaid, there shall be annually contributed by the state, in manner aforesaid, for the maintenance and support thereof, a sum of money equal to that contributed each year in said locality for such purpose; *provided however*, that the moneys contributed by the state, as aforesaid, to any locality, shall not exceed in one year the sum of five thousand dollars.

SEC. 2. That all moneys raised and contributed as aforesaid shall be applied under the direction of a board of trustees, organized as hereinafter provided, to the establishment and support of schools for the training and education of pupils in industrial pursuits (including agriculture), so as to enable them to perfect themselves in the several branches of industry which require technical instruction.

SEC. 3. That any city, town or township shall have power to appropriate and raise by tax, for the support of any such school therein, such sum of money as they may deem expedient and just.

SEC. 4. That there shall be a board of trustees of each of such schools, which shall consist of the governor, ex-officio, who shall be president thereof, two persons selected by the state board of education, two by citizens and associations contributing, two by the board of education, school committee or other like body of the locality where such school is established, and one by the common council, township committee or other governing body thereof, if such city, town or township shall contribute to the maintenance of such school; the said board of trustees shall have control of the buildings and grounds owned and used by such schools, the application of the funds for the support thereof, the regulation of the tuition fees, the appointment and removal of teachers, the power to prescribe the studies and exercises of the school, and rules for its management, to grant certificates of graduation, to appoint some suitable person treasurer of the board, and to frame and modify at pleasure such by-laws as they may deem necessary for their own government; they shall report annually to the state and local boards of education their own doings and the progress and condition of the schools.

SEC. 5. That the said trustees shall receive no compensation for their services, but the expenses necessarily incurred by them in the discharge of their duties, shall be paid upon the approval of the governor.

SEC. 6. That all acts and parts of acts inconsistent herewith, are hereby repealed.

Approved March 24th, 1881. P. L., ch. 164.

A supplement to an act entitled "A general act relating to factories and workshops, and the employment, safety, health and work-hours of operatives," approved April seventh, one thousand eight hundred and eighty-five.

SECTION 1. Be it enacted by the Senate and General Assembly of the State of New Jersey, That every person shall, within one month after he begins to occupy a factory or workshop, notify one of the factory inspectors of such occupancy.

SEC. 2. That section two of the act to which this is a supplement be amended to read as follows:

[SEC. 2. That all accidents in workshops, factories or mines, which prevent the injured person or persons from returning to work within

two weeks, or which result in death, shall, within twenty-four hours after the expiration of such two weeks, or after the death, as the case may be, be reported by the person in charge of such workshop, factory or mine, to one of the factory inspectors and to the city or district physician, where there is such an officer, which notice may be given by mail.]

SEC. 3. That section six of the act to which this is a supplement be amended to read as follows:

[SEC. 6. That no minor or woman shall clean any part of the mill gearing or machinery in any factory or workshop while the same is in motion, or work between the fixed or traversing parts of any machine while it is in motion by the action of steam, water or other mechanical power.]

SEC. 4. That all factories, manufacturing establishments or workshops of two or more stories in height, in which thirty or more persons are employed above the first floor thereof, shall be provided with one or (if the proper officials deem necessary) more outside iron fire escapes, not less than six feet in length and three feet in width, properly and safely constructed, guarded by iron railings not less than three feet in height, and taking in at least two windows at each story, and connected with the interior by easily-accessible and unobstructed openings; and the said fire escapes shall connect by iron stairs not less than twenty-four inches wide, the steps to be not less than six inches tread, placed at not more than an angle of forty-five degrees slant, and protected by a well-secured hand rail on both sides, with a twelve-inch wide drop ladder from the lower platform reaching to the ground.

SEC. 5. That for every twenty persons employed on every floor above the second floor of every factory and workshop there shall be one rope or portable fire escape, and that each story shall be amply supplied with means for extinguishing fire.

SEC. 6. That all the main doors, both inside and outside, in factories, shall open outwardly, when the inspectors of factories, in writing, so direct, and that no outside or inside door of any building wherein operatives are employed, shall be so locked, bolted or otherwise fastened during the hours of labor, as to prevent egress.

SEC. 7. That no minor below the age of sixteen shall be employed at any work dangerous to health, without a certificate of fitness from a reputable physician.

SEC. 8. That factories and workshops in which women and children are employed and where dusty work is carried on shall be limewashed or painted at least once in every twelve months.

SEC. 9. That an abstract of the factory and workshop laws to be prepared and furnished by the chief factory inspector, shall be affixed in a conspicuous place at the entrance of every factory and workshop.

SEC. 10. That if the inspector of factories find that the heating, lighting, ventilation or sanitary arrangement of any shop or factory is such as to be injurious to the health of persons employed therein, or that the means of egress, in case of fire or other disaster, is not sufficient, or that the belting, shafting, gearing, elevators, drums and machinery in shops and factories are located so as to be dangerous to employes and not sufficiently guarded, or that the vats, pans or structures filled with molten metal or hot liquid are not surrounded with proper safeguards for preventing accident or injury to those employed at or near them, he shall notify the proprietor of such factory or workshop to make the alterations or additions necessary within thirty days; and if such alterations or additions are not made within thirty days from the date of such notice or within such time as said alterations can be made with proper diligence upon the part of said proprietors, said proprietors or agents shall be deemed guilty of violating the provisions of this act; it shall then be the duty of the inspectors to examine the matter in dispute, and, if adverse to the appellant, he shall carry out the alterations or additions directed by said inspectors within thirty days as aforesaid, and under the like penalty.

SEC. 11. That section fifteen of the act to which this is a supplement be amended to read as follows:

[SEC. 15. That any person or corporation, being the owner, lessee or occupant of any manufacturing establishment, factory, mine, workshop or store, or owning or controlling the use of any building or room, shall, for the violation of any provision of this act, or of the act to which this is a supplement, be liable to a penalty of fifty dollars for each offense, to be recovered in an action of debt in any district court in any city, or before any justice of the peace having due jurisdiction, and that any employe who shall be guilty of any violation of the provisions of this act shall be liable in a like action to a penalty of not more than fifty dollars, as the court shall

fix; that such action shall be prosecuted in the name of the inspector of factories; the trial shall proceed as other actions upon contract, and the first process shall be a summons, returnable in not less than five days or more than ten days after issue, and it shall not be necessary to indorse the same as in qui tam actions; the finding of the court shall be that the defendant has or has not, as the case may be, incurred the penalty claimed in the demand of the plaintiff, and judgment shall be given accordingly; in case an execution shall issue and be returned unsatisfied, the court, on application, after notice to the defendant, may award an execution to take the body of the defendant; and in case such a defendant is committed under such an execution, he shall not be discharged under the insolvent laws of the State, but shall only be discharged by the court making the order for the body execution, or one of the justices of the supreme court, when such court or justice shall be satisfied that further confinement will not accomplish the payment of the judgment and costs.]

SEC. 12. That all acts or parts of acts inconsistent with the provisions of this act, be and are hereby repealed.

Approved May 6th, 1887. P. L., chap. 177.