

IN THE CITY OF SAINT PAUL

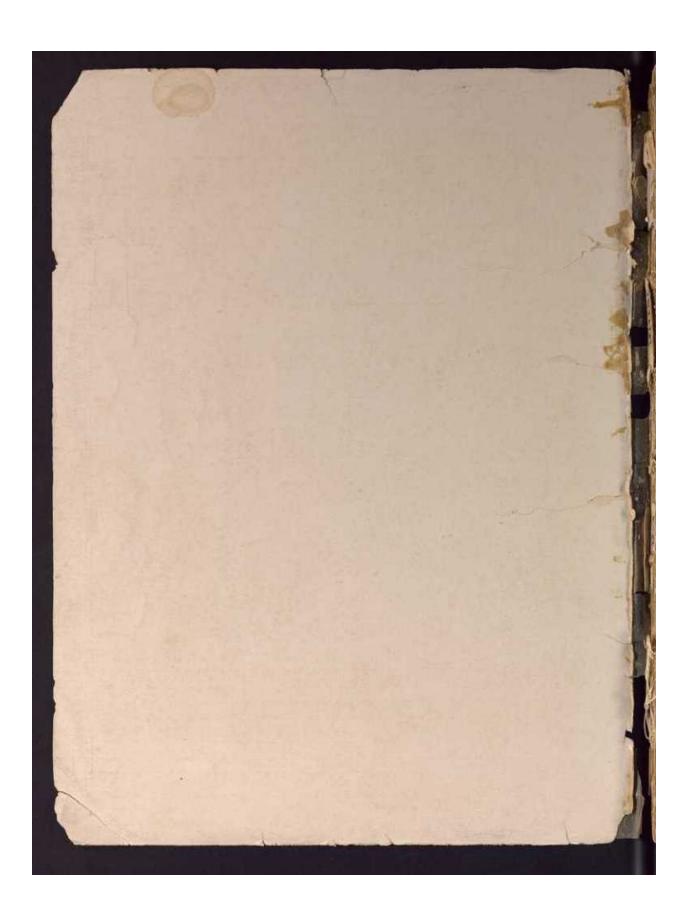


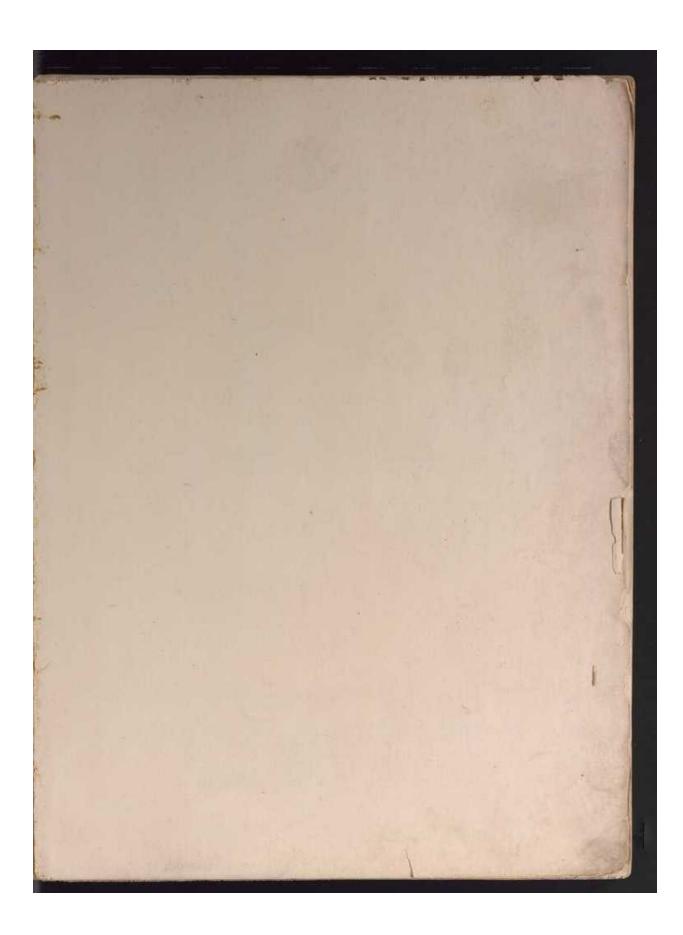


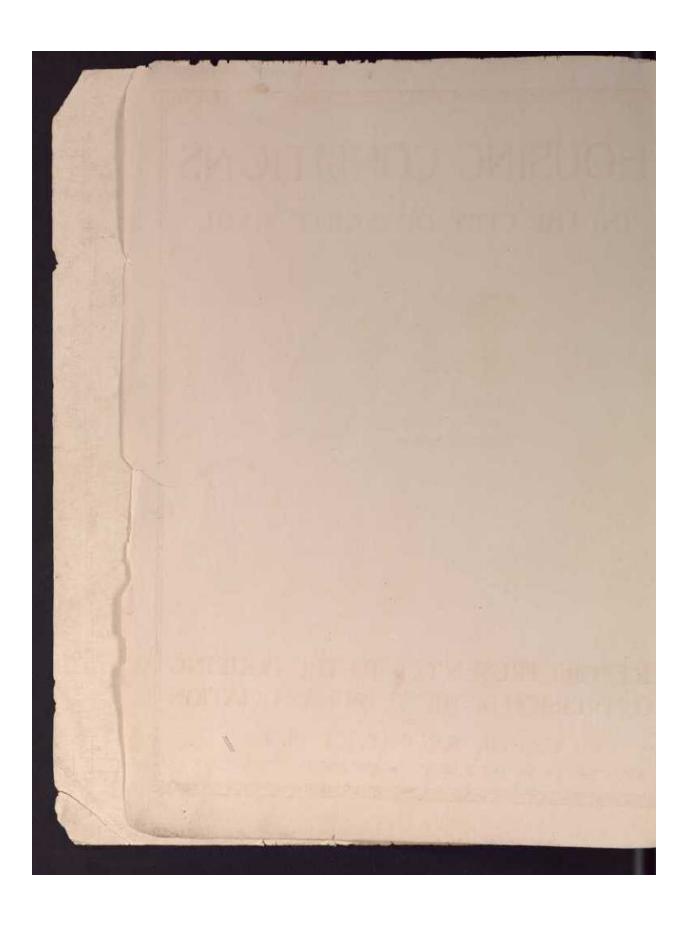
REPORT PRESENTED TO THE HOUSING COMMISSION OF THE ST. PAUL ASSOCIATION CAROL ARONOVICI Ph.D.

DIRECTOR OF SOCIAL SERVICE. AMHERST H WILDER CHARITY

IPPICE SO CENTS







HOUSING CONDITIONS

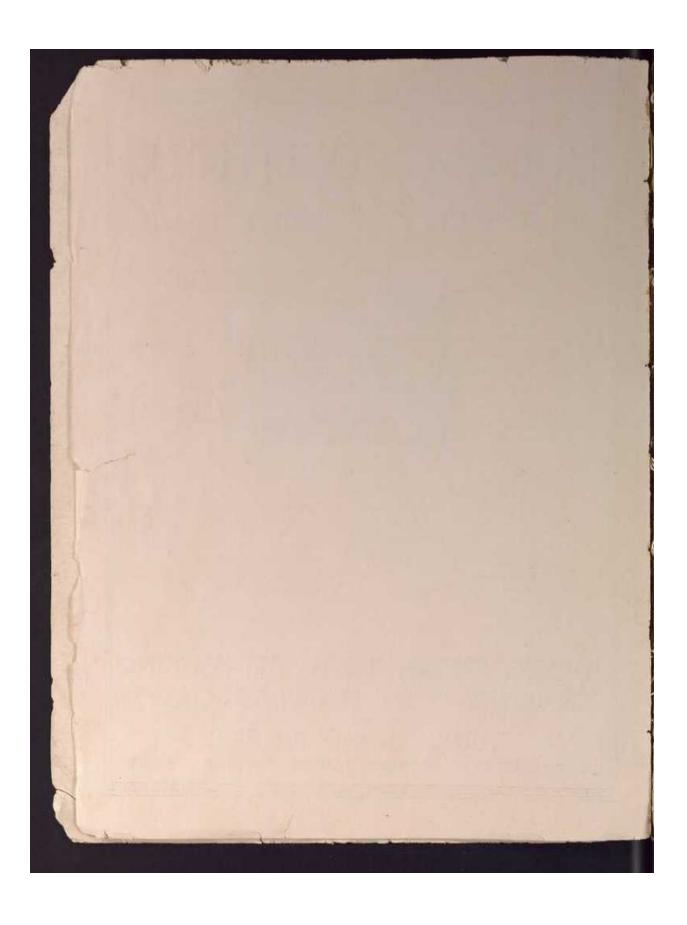
IN THE CITY OF SAINT PAUL



REPORT PRESENTED TO THE HOUSING COMMISSION OF THE ST. PAUL ASSOCIATION CAROL ARONOVICI Ph.D.

DIRECTOR OF SOCIAL SERVICE -- AMHERST H. WILDER CHARITY

NO CONTRACTOR OF THE PROPERTY OF THE PROPERTY



Preface

THIS investigation was undertaken by the Amherst H. Wilder Charity Foundation at the suggestion of the St. Paul Association. The work was done under the personal direction of Dr. Carol Aronovici, whose experience and knowledge are attested to by more than two score communities throughout the country in which he has assisted in the study and improvement of conditions.

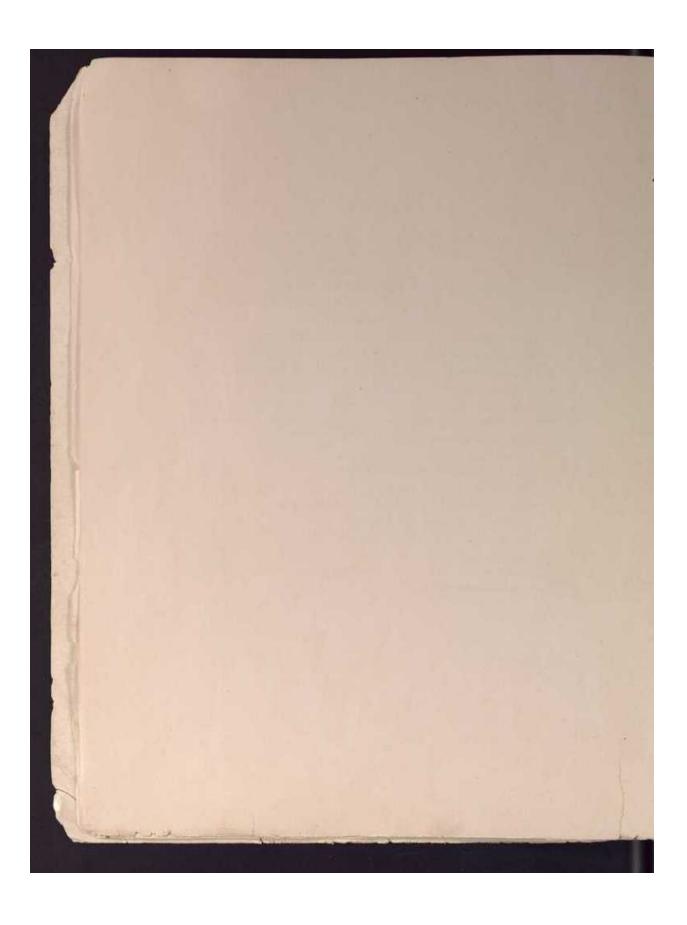
The Housing Commission of the St. Paul Association has kept in constant touch with the work and its members have personally inspected many of the conditions referred to in this report. The statements made, we believe to be in conformity with the facts, and we are fully in accord with the suggestions for improvement. The Commission and its members will do all that is in their power to provide the necessary machinery for the removal of existing evils and remain at work until this machinery has proved its efficiency or has been supplanted by other and more efficient means of attaining the desired ends.

COMMISSION.

STANLEY G. MILLER, Chairman. HOWARD F. WARE, Vice-Chairman. CAROL ARONOVICI, Director. E. F. MACDONOUGH, Secretary.

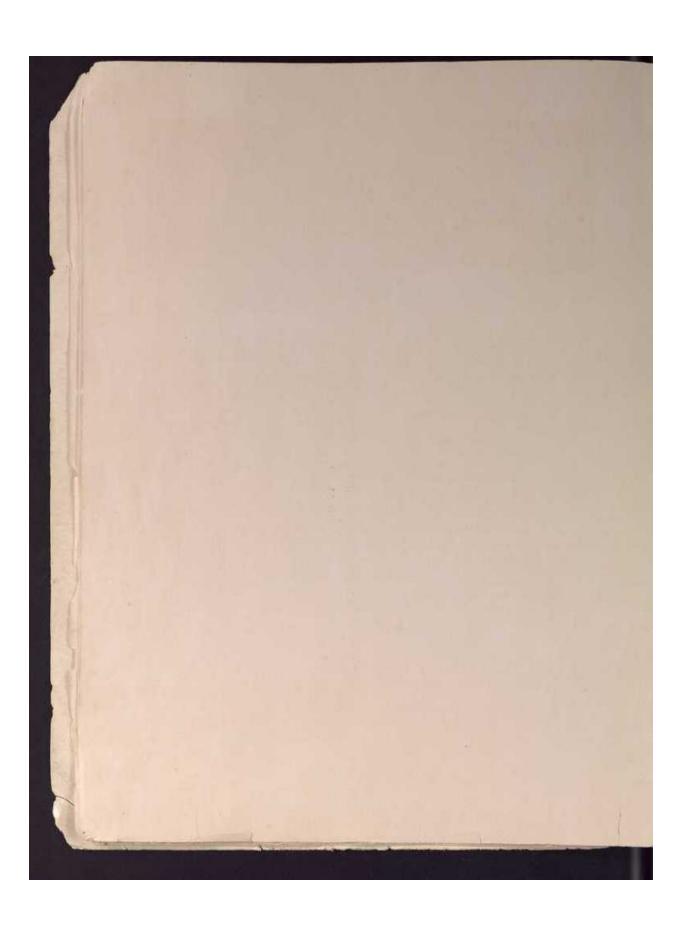
MRS. DAVID ABERLE,
ARTHUR S. DEVOR,
MRS. ALBERT R. HALL,
JULE M. HANNAFORD, JR.,
THOMAS G. HOLYOKE,
GEO. W. LAWSON,
GUSTAVUS I.OEVINGER,
DR. EUGENE L. MANN,

GERTRUDE F. MURRELL, LOUIS F. NIENABER, FRED H. ROMER, MRS. I. L. RYPINS, JAMES H. SKINNER, FRANK E. WHITMAN, WM. S. WILLIAMS.



Contents

Preface	. 3
Introduction	
Housing Survey	. 9
Condition of Repair	18
Toilets and Baths	. 25
Sewers and Water Supply	36
Garbage, Ashes and Rubbish	. 38
Lighting and Ventilation	
Lodger Problem	. 51
The Lodging, Rooming Houses and Hotels	56
Valuation of Properties and Revenues	- 64
Relation Between Housing and Other Social Conditions	68
Achievements to Date	. 70
Conclusions	
Recommendations	. 76
Analysis of Laws in Cities and States Throughout the Country	
Proposed Ordinances	101





Introduction

Citizens of Saint Paul who expected the results of the Housing Survey to be startling in its revelation of conditions will be disappointed no less than will the complacent business man and the professional booster, who believe that all is well relative to the safety, comfort and sanitation of the working people of this city.

It must be stated at the outset that the housing evils in this City are no worse and no better than are the evils found in most of the rapidly growing cities of this country. The measure of the quality of our local patriotism is not to be measured by the extent of the evils which we have tolerated through ignorance, but by the rapidity with which we improve conditions once they are known and the means of removing them made clear.

This Survey of Housing conditions in the City of St. Paul was undertaken by the Wilder Charity in the belief that new and more effective housing legislation is necessary, and that through the instrumentality of the Housing Commission of the St. Paul Association and with the co-operation of City officials, conscious of the seriousness of the existing evils, such legislation and machinery for its enforcement would be secured without unnecessary delay.

The information gathered in the course of the Survey, while not covering the whole of the city, relates to the homes of over 21,000 people whose living conditions are of sufficient moment to demand attention. That limitation of time and the exorbitant cost of a complete survey of the community have made it necessary to confine our observations to specific areas will be evident to those familiar with undertakings of this kind. The best conditions will not receive much attention in this report, and we fear that some of the worse evils have escaped our observation. The evidence that we have been able to gather, however, is of sufficient extent and seriousness to command public attention.

It is to be hoped that the citizens of St. Paul will not take the unpleasant facts revealed in this report as intended to disparage either the potential or actual merits of St. Paul as an industrial and residential center, but that they will see it as a diagnosis of such pathological, social, and sanitary conditions as the average citizen is likely to overlook to the detriment of his community, with disastrous effects upon the people affected.

In so far as existing legislation and available machinery for its enforcement permit, a considerable number of specific evils have been removed through the instrumentality of the local Department of Health. The main task, however, remains to be accomplished through the concerted efforts of the Municipal Council and the various City Departments.

The undersigned wishes to express to the Housing Commission of the St. Paul Association his gratitude for their earnest co-operation in the carrying on of the survey, and especially for the work done in the shaping up of the proposed Housing Ordinance.

The writer also wishes to express his indebtedness to the staff of field workers who gave their services at a time when such work is most difficult. They proved themselves vitally interested in their task and rendered most efficient service.

CAROL ARONOVICI.



Rear lot homes

Housing Survey

General Considerations

PURPOSE OF INVESTIGATION.

This survey was carried on primarily for the purpose of revealing to the public sanitary conditions that may be a menace to the health of the residents of the poorer sections of the city with a view to stimulating more efficient service on the part of the municipality in the control of existing evils. This primary object is, however, neither fundamental nor far reaching. The prevention in the future of the development of similar conditions by proper legislative control, and the pointing out of the error of the past that proved neither economical to the individual builder nor promotive of the best interest of the City, are of far greater importance than the palliative remedial work, that conditions revealed by our investigation may stimulate.

Should St. Paul become aware of the need for a city-wide housing policy of a constructive character, and hasten to translate this awareness into constructive housing by means of amenable and necessary legislative measures, that will promote rather than restrict building of high standard, our purpose shall have been accomplished, and the future of St. Paul as a residence community assured.

FIELD COVERED.

It was realized at the beginning that a complete survey of the housing conditions of the entire population was neither necessary nor practicable because of the enormous expense, the long delay, the difficulty of obtaining sufficient workers capable of doing the work, and the large proportion of houses that represent a high standard of housing and sanitation. It is also clear that there are in every community certain typical evils and defects which come to light in any housing inquiry if the field is selected with sufficient care to be representative. In the last analysis social diagnosis concerns itself with the ascertaining and measurement of abnormal, undesirable conditions, rather than with the evolution of the desirable and normal.

With this point of view in mind certain sections of the City were selected. They are shown in Map No. 1 and cover an area of about 30 blocks with a population of 21,000. We are aware that there are other districts in this City which should have been made the subject of investigation if our aim was to be purely a checking up of the work of the Health and other departments concerned with the health and safety of our people. Our task, however, was merely the application of an efficiency test to given districts most in need of efficient service, and not a complete inspection of conditions throughout the entire community which is the duty of the local governmental agencies.

The area covered by this investigation was divided into eighteen districts. After some preliminary investigation, districts V, VI, VII, XIII, were eliminated because the conditions found did not warrant a thorough house to house investigation, although some conception of the conditions were formed from a superficial investigation in the districts that we did not cover by a house to house canvas. The eighteen districts may be described as follows:

General Consideration

District	Ward	Descriptive Title	Boundaries
1	6	West Side Lower Levee	East of Wabosha and North of Fairfield.
11	-	West Side Lower Flats	East of Wabasha between Fairfield and C. G. W. Ry.
333	6	West Side Upper Leves	North of Fairfield from Wabasha southwesterly to city limits.
LV	6	West Side Upper Flats	West of Wahasha between Fairfield and Prospect Terrace.
V	4	Upper Plateau	Jackson, Sammit, Fourth and Eagle (except District VI).
VI	48	Principal Retail District	Jackson, Eighth, St. Peter and Mississippi River.
VII	-24	Principal Wholesale District	Jackson, Eighth, Pine and Union Depot Tracks.
VIII	-3	Old Lower Town and R. R. Yards .	Jackson, Grove and R. R. Tracks (except District VII).
1X	1	Williams St. and Vicinity	Grove, Mississippi, G. N. Ry, and Soo Tracks.
X	- 1	Collins St. and Vicinity	Surrounded by R. R. Tracks (G. N., Omnha and N. P.).
XI	2	Phalen Creek (Swede Hollow)	Between N. P. (Dulath Line) and Bluff.
XII	-9	Upper Broadway and Vicinity	Mississippi, Grove, Jackson and G. N. Ry. Tracks.
XIII	-	State Capitol and Vicinity	Rice, Summit, Jackson and G. N. Ry. Tracks.
XIV	#	West of Rice and North of G. N. Ry	Farrington, Rice, Hatch and Arwater Sts.
XV	0	East of Rice and North of G. N. Ry.	
XVI	1.66	Farrington AveComo to Carroll .	-Both sides of Farrington.
XVII	5	West Seventh St. to River	Eagle St. to Omaha Shops.
XVIII	5	Upper Levee (under High Bridge)	-Between Bluff and River,

TIME.

The time consumed in carrying on the field work was a little less than 3 months, beginning about April 15th and ending about the 1st of July. This gave the field workers an opportunity to see conditions during the most trying periods of the year, and during the summer when cleaning up and emergency repairs can be made without encountering climatic, difficulties. That throughout the entire period of field investigation many nuisances were found that should have been removed without delay will be shown in the later parts of this report.

The question as to whether these trying times of international complication and war emergencies were opportune for the consideration of local, and from the international point of view, minor issues, has sometimes been raised in connection with this survey. The only pertinent answer to this question is that as the waste of human life in war increases and comes closer to our own national life, the higher rises the value of our human resources. Good housing is fundamental to good health, decent surroundings are essential to patriotism, warfare depends upon both. Can any one question the efficiency of housing reform as a war measure, especially as the length of the struggle seems to show no signs of coming to a speedy end? Healthy, efficient, patriotic men will be needed-they cannot be raised in the slums.

LEGISLATION AND LAW ENFORCEMENT.

A study of the amount and character of legislation available for the control of housing conditions and an examination of the machinery for the enforcement of whatever legislation does exist proved to us beyond a question that both need reorganization and radical change. St. Paul conditions should therefore not be laid at the door of the local city officials entrusted with the enforcement of legislation, but to the neglect on the part of the legislative bodies. State and City, and in the last analysis, upon the citizens who so far have failed to recognize the needs of this community for better and more constructive methods of dealing with the housing of the people. The most drastic housing legislation can not be entirely effective without comprehensive city planning of a constructive character. The facilities for obtaining the maximum amount of light and air, the economical use of land without hindrance to requirements of safety, sanitation, convenience, or permanency of investment, are problems of city planning that housing legislation in its ordinarily accepted interpretation cannot cope with.

St. Paul has already established a zoning system which protects the owners of dwellings against deterioration of values due to failure to segregate industrial and commercial activities. Some effort is also being made to protect strictly residential areas against encroachment through construction of tenements, apartments or apartment hotel buildings which are out of keeping with the character of the neighborhoods which they are attempting to invade.

That a considerable task along the lines of developing a consistent policy of city planning is still to be added to the present scheme of community development that both public and private agencies are engaged upon, is evident to any one examining the map of the City of St. Paul.

This report does not pretend to deal with the problems of city planning except as they relate directly to the area studied and affect the types of building that come under our observation. A careful survey of city planning problems should be a direct corollary of this investigation. The sections generally known as "Swede Hollow" and the "Flats," which constitute the lowest types of residential districts not only in St. Paul but of many cities that it has been the writer's privilege to examine, offer remarkable opportunities for replanning. The complete wiping out of the former district would afford a most unusual opportunity for the development of a park area which would serve as a breathing space for a district growing in congestion and in need of open space.

Phalen Creek and the banks of this stream are ideal for park purposes, while in their present state they constitute a menace to the health of the residents and to the community at large.

The "Flats" if properly treated would afford a splendid opportunity for the development of an industrial zone accessible to rail and river transportation instead of being what they are today, a slum of the worst character.

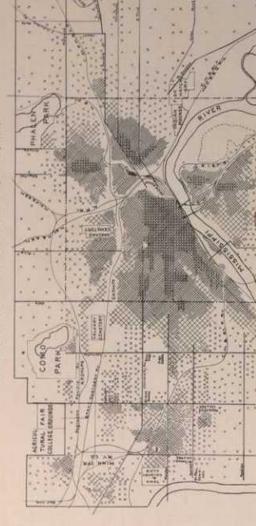
The entire city needs a constructive plan, but the elimination of the slums and the redistricting of the city to meet the housing and industrial needs of the wage carners and poorer elements of the population, should take precedence over the construction of costly public buildings, the development of improving thoroughfares, the building of boulevards designed for the automobile tourist, the opening up of park areas in districts undeveloped and inaccessible sections of the City. These things, while desirable, should not take precedence over the immediate needs for the improvement of the living conditions of the people.

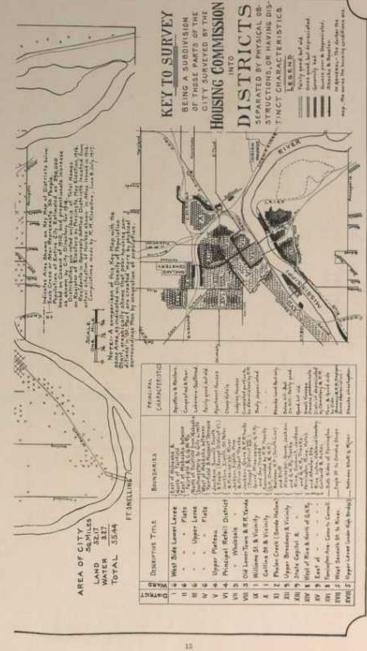
POPULATION.

In the study of housing conditions much is frequently attributed to the methods of living in vogue among the occupants of the dwellings examined. The "foreigner" is generally made the excuse for existence of housing evils, and the trite stories about the potatoes in the bath tub or the goat in the parlor are related with much satisfaction and with no little success in postponing legislation and avoiding or delaying law enforcement. The same kind of reasoning was used in New York City at the time when slum conditions were created by a large increase in German and Irish population thirty or forty years ago, as is used throughout the whole country against the Italian, the Pole, the Armenian, or any other

DENSITY OF POPULATION CHART ST. PAUL, MINN.

COMPILED FOR THE HOUSING SURVEY, JULY, 1917.





nationality that prevails in a given community, for which no adequate provisions have been made by those who are most in need of foreign labor or by the booster who points with pride to inflated census figures of population, and shuts his eyes to the growing slum and its ally, a high criminality and death rate.

The following figures relate to the nationality of the population residing in the area studied in the course of this investigation regarding which accurate data was obtained:

Table 1. Distribution of Population Studied According to Nationality of Parents or Heads of Families, Exclusive of Lodgers.

A STATE OF THE PARTY OF THE PAR	Number of	Per Cent
Nationality	People	Total
Jews	2,800	18,22
Americans	2,373	12.62
Germana	2,053	19,22
Scandinaviana	2,023	10.58
Italian	2,215	6.96
Iriah	906	5.25
Russian	890	4.84
Poles	550	2.99
French	1018	2.87
Negroes	376	2.05
Bohemians.	226	1.24
Syriana	200	1.19
Heigligh	200	1.15
Roumanlans	191	1:05
Hungarians	103	0.57
Scotch	66	0.46
Mixed or indefinite	3,548	10.22
Total	18,425	100.00

 Nationality of the family is based upon the country of birth of both parents, except in the case of the Jews.

If we eliminate the 3,548 of mixed and unknown nationalities we find that out of a total of 14,877 people, 5,397, or 36.2 per cent, were either American or of nationalities ordinarily considered as of desirable character such as Germans, French, English and Scotch. That the ordinary conditions of neglect, misuse or abuse of property found in the course of our investigation may be laid upon the methods of living of the tenants is the contention that is ordinarily accepted by the general public, and in some instances is justifiable. The fact, however, that such defects as poor lighting, fire hazard, lack of sewer facilities, land sweating and other similar conditions which are purely structural, have been permitted by law, and the buildings were, in 92 per cent of the cases where information was available, older than 10 years, would seem to indicate that the failure of the State and local government to provide adequate control of buildings and necessary provisions for its enforcement. is clearly the responsibility of the people who determine at the polls the standards of safety and sanitation under which they desire to have the people of the City, native and foreign, live.

Mixed or Indefinite	3,548	People	parasa.
Jews	2,023		[3532 W
Americana	2,525		222
Germana	2,251	(6)	[3242]
Scandinavians	2,023	100	DOM:
Italian	1,115	0.00	Most
triph	966		2237
Russian	899		Hitt:
Polea	550	14	12/00
riench	85%		[2202]
Negroes	378	· ·	12053
Bohemiana	226	28	DMSC
agriana	220	D 22	CLIE-
English	209	10	(3165)
Roumaniane	191	- 17	(FORE)
Hungarians	103	-	90.57:3 111
Scotch	86		[648-1m
Total	18425		to the second of the second

Distribution of Population According to Nationality of Heads of Families

OWNERSHIP AND SIZE OF FAMILIES.

Not infrequently the proportion of families owning their own homes determines the extent of neglect and lack of sanitary conditions in a community or a given district. The following Table shows the frequency of ownership according to nationality of the head of the family:

Table II. Showing number and per cent of rented and owned dwellings by nationality.

	Re	nters	0	ADECS
Nationality	No	Percent	No.	Percent
American	410	76.27	129	23,73
German	284	60.78	192	59,33
Scandinavian	314	70.36	122	29,64
Jewish	202	06.56	155	43.44
Irish	151	73.67	54	26,37
Italian	105	59.18	97	41.80
Negro	96	82.76	20	17.24
French.	82	80.32	20	29.68
Russian	73	71.56	29	25.44
Polish	63	68,49	29	31.51
English	41.	87.24	0	12,76
Syrian	20	74.76	10	25.64
Bohemian	21	42.00	29	58,00
Roumanian	29	72.50	11	07.50
Hungarian	16	69.58	7.	20.42
Scotch	18	佛工,形型	4.3	18,18
Mixed	542	TE-49	286	27.51
TOTAL	2,506	65.90	1,120	31.10

These figures show that in order of their proportion of ownership the nationalities represented, the Jews, the Italians, the Germans and the Scandinavians have the largest number of home owning families. Among the nationalities of which more than 100 families were studied, the French and the Negroes only showed a smaller proportion of home owning families than the Americans. That many of the Americans capable of owning homes have been driven out of these districts with the encroachment of the foreigners is a well determined fact.

The size of the family is another element that frequently determines the congestion and the attending evils of congestion. In order to ascertain to what extent the size of the family may reasonably be attributed as a cause of the bad sanitary conditions found, we have analyzed the data gathered with the following results:

Table III. Showing number and per cent of rented and owned dwellings by size of families.

	H.	ntera	0	wners	Total	
Size of		Per		Per		Per-
Families	No.	cent	No.	cent	No.	cent
1/2	505	71.39	200	28.01	T08	100
23-8	717	70.44	232	24.55	949	100
本-在	356	92.65	216	37.35	572	100
7-8	334	53.73	115	46.27	243	100
9-10	40	56.98	22	43,02	9.3	100
Over 10	1.0	83.33	2	16.67	310	100
TOTAL	1,764	68.28	819	33.72	2,583	1

The above figures show that out of a total of 2,583 families only 354, or 13.71 per cent, were of more than six persons or four children and the parents. It is also clear that the families of the renters were larger than those of owners since only 184 out of a total of 1,764 or 10.43 per cent, were of more than six persons while there were 170 out of a total of 819 families or 20.76 per cent, home owning families with more than six persons per family.

SIZE OF HOUSES.

The number of rooms is the only index of the size of apartments and is in a sense a measure of the tendency towards congestion. In order to ascertain the distribution of the various sizes we have distributed the various apartments according to number of rooms

and have separated the apartments in multiple dwellings from those in single dwellings.

Table IV. gives the distribution of apartments according to number of rooms in single and multiple dwellings:

Table IV. Showing Distribution of Single and Multiple Dwellings According to Number of Rooms.

No.	Multiple:	Dwellings	Soude D	wellings
Reome	Number	Percent	Number:	Percen
1	(59)	2.49	04	.21
#	153	0.45	28	2.81
91	4000	37.31	106	8.26
4	394	29.55	363	19.23
5	353	27.42	604	20.45
6	187	7.92	12009	21.19
7)	62	2.79	1000	12.46
8.	17	.72	151	8.01
9	. 5	332	24	2.55
10	- 2	.015	0.4	1.27
8.5			25	1.13
122	1	.09	- 6	.01
排進			- 4	.21
34			.2	.85
(85)				
300	3	01		
57			3	(30)
(8)				
19			1	03
20			#	.10
Tot	al 0,340	100.00	1,886	100,00

Table IVa. Showing Number of Persons in Single and Multiple Dwellings According to Number of Rooms.

	Mul	tiple	Sin	ete.		
		lings		Hiters	To	tal
No.	No.	Per-	No	Per-	No.	Per-
Room	a Persons	tent	Persons	cent	Persons	cent
1	239	3.26	A.	.015	124	.00
3	331	3.02	344	1.40	ATS	12.42
3	1,072	14.11	246	5.58	SURGO.	5.63
	16,239.0	DELEK-	3,583	10.00	4,500	25.61
4	SULT.	29.10	2,058	20.84	4,673	35,68
9	086	10.94	2,050	21.18	2,068	35.50
7	922	2.40	3,400	14.72	1,622	5.50
	126	1.25	996	10.13	1,122	3.95
黄	18	,30	299	4.05	417	2.21
10	-11	.12	220	2.02	23.1	1.00
11			197	1.00	INT	.99
38	30	.223	74	-75	314	.49
1.0			61.4	765	494	.34
14			15	.15	1.5	.04
375						
16	(10)	13.3			10	.05
37			34	-34	314	-18
18						
19			33	.22	22	-12
30			34	.14	14	.07
Tota	1 9.017	100,00	9,945	200,00	15,862	100.00

The above figures (Table IV) show that out of the 4248 apartments studied 1886 or 44,44 per cent were single family houses and 2362 or 55.56 per cent were multiple dwellings. This prevalence of multiple dwellings in the poorer districts of the city deserves fur-

ther attention because of the present tendency toward a smaller number of rooms per apartment in the multiple dwellings than in the single dwellings. This is evidenced by the fact that in proportion to the total number of each type of building there were almost four times as many one and two room apartments in multiple dwellings (8.95 per cent) as compared with the number of one and two room apartments in single dwellings (2.22 per cent). If we consider the three room apartments, there were more than twice as many such apartments in the multiple as compared with the single dwellings. On the whole, the figures show that there were far more apartments with less than four rooms in the multiple dwellings (26.24 per cent) as compared with the number of apartments with less than four rooms in single dwellings (11.04 per cent). If we go a step further and include apartments with four rooms we find the same disproportion between multiple dwellings (65.65 per cent) as compared with individual dwellings (30.27 per cent)

Accepting on trial the fact that rooms in multiple dwellings are smaller, with lower ceilings and usually with less access to light or facilities for ventilation, the disproportion of apartments with four or less rooms would seem to indicate that the multiple dwelling is not desirable as a means of increasing the extent of privacy or avoiding congestion in our houses.

This larger proportion of apartments with less than four or five rooms, while indicative of a certain tendency towards reducing the available rooms per family, unfortunately does not prove quite as advantageous when we consider the number of rooms per person in the apartments of less than five rooms in single as compared with multiple dwellings. The figures show that 5003 persons in multiple dwellings occupied apartments of less than five rooms. The total number of rooms in these apartments was 5328 or 106.4 rooms for every hundred persons, while in the case of single dwellings 2183 persons lived in 2004 rooms located in apartments of less than five rooms or only 93.6 rooms for every hundred persons.

On first consideration it would seem to indicate a greater tendency toward congestion in individual dwellings but the average size of the rooms, the larger kitchens which are often used as dining and sitting rooms, and the better lighting and ventilation that prevails in the single dwellings as compared with the multiple dwellings would more than offset the smaller proportion of rooms per hundred persons in single dwellings with less than five rooms. When we consider the total population in relation to the total number of rooms occupied we find that there is practically no difference between the single and multiple dwellings; the former having 107.5 rooms per 100 persons and the latter 107.4 rooms per 100 persons. It is clear that no great congestion exists and that altho some instances of serious crowding were found, they were limited mainly to abnormal dependent families with low standards of living.

ROOM OCCUPANCY BY DISTRICTS.

In the study of room occupancy it becomes clear that the difference in the amount of congestion must be considered both on the basis of total rooms and room occupied for sleeping purposes. It is also evident that there is a marked difference in the average number of persons per room in the various districts studied

Table V. Distribution of Average Room Occupancy According to Type of Dwelling in Relation to Total Rooms and Sleeping Rooms for Apartment by Districts Studied.

0 21	Av	erage No. Per	rsons Per	Raom
	Single!	Dwellings	Multiple	Dwellings
District	Rooms	Bed Rooms	Rooms	Bed Rooms
17	1.10	2.07	1:09	25.19
11	1,02	8.95	1.07	2.00
111	1.12	2.33	.90	2.13
IV	.84	3.81	.99	2.01
VIII	.90	0.50	-91	1.69
FX:	.83	1.42	1.0.1	1.84
X	364	1361	180	1.95
XI	1.17	2.05	.81	1.98
XII	.91	1.84	1.94	2.15
XIV	.67	1.87	.075	2.86
XV	38.5	1.74	.95	2.24
XVI	37	1.08	-34	1,60
XVII	190	1.98	.04	2.20
XVIII	1.07	2.55	1.55	2.74

The average occupancy of rooms and bedrooms in single and multiple dwellings as shown by the above table indicates clearly that while the difference in room occupancy is not materially different between the single and multiple dwellings, the bed rooms are more congested in the case of the multiple dwellings in all but three districts. The differences even in these districts are slight and the character of the neighborhoods either scattered or old residence areas that have become deteriorated such as the Phalen Creek district. These figures further emphasize the fact that while in point of numbers the rooms in multiple dwellings are more numerous, their use is so fixed as to make bedrooms available for sleeping purposes only and that these rooms are not in sufficient numbers to avoid congestion to the extent shown by the single dwellings. An examination of the map on page 12 which shows the character of each district clearly indicates that the degree of bedroom congestion is closely related to the character of the neighborhood.

Condition of Repair

EXTERIOR CONDITION.

It is not possible to state in any definite form the condition of repair of buildings in a manner that would convey a notion in keeping with any particular standard. We might have used a system of scoring but while the margin of error may have been reduced somewhat under this system the scale would not have been applied by the workers with any greater degree of accuracy than the ordinary classification of good, fair, and bad. To pretend statistical accuracy where there is no accepted uniform standard of measurement is not advisable. The relation bettween the number of families and the condition of repair is ordinarily well defined where the age of the buildings averages the same. Table VI shows this relationship.

Table V1. Showing State of Outside Repair of Bldgs, According to No. of Families Occupying,

No.		ont	y	air.	3	Tad	No In	formation
Eamilies	No.	Percent:	No	Petrent	(200)	Percent	No.	Percent
15	621	22.93	658	34.6	227	10.65	999	14.0
(8)	292	266,94	254	33,67	196	13,96	137	33,63
.0	317	33.64	6.7	37,27	20	19,18	3.2	10.01
- 4	53	30.46	25	22.81	16	15.24	11	20.49
Ä		28.0%	39	10.03	A	23.45	4	19.06
0.	3	13,63	10	45:45	- 8	27.26	3	13,64
	- 3	38.84	#	22.22	12	22.02	2	112.22
	1	50	1	50				
9	2	50					2	30
No Int.	24	38.08	11	17.46	12	19.07	14	25.79
Total	30840	35.22	1,036	33.61	400	3,6,63	965	13.11

There was a total of 1084 or 35.22 per cent. buildings in good condition of repair, 1036 or 33.64 per cent. in fair condition and 493 or 16.03 per cent. in bad condition of repair. Where the information was not stated with any degree of accuracy it was not tabulated.

The most striking fact about the above figures is the large proportion of buildings in good repair in structures occupied by four families. This is of course, due not to any special virtue of this type of building, but to the fact that a large share of the four family tenements is of recent construction, as can be seen from the records of the Building Department, and has therefore not had time to deteriorate to the same extent that other buildings have deteriorated without receiving the necessary repairs.

The elimination of the buildings regarding which information was not given will increase the proportion of buildings in good repair. It also becomes clear that the proportion of buildings in good repair occupied by one family constitute 39.84 per cent, of all buildings of this type instead of 33.85 per cent, and in the case of two family buildings the proportion of houses in good repair increases from 36.94 per cent, to 43.99 per cent, of the total houses of this type. Throughout our experience in the present investigation the one family dwellings were invariably represented by buildings of earlier construction in greater proportion than the multiple dwellings, unless the latter were originally intended as single dwellings and had been altered more recently for occupancy by more than one family.

Our observation throughout this study has proved conclusively that alterations for the purpose of increasing the number of families for which the building is intended, without materially increasing the capacity or the sanitary conveniences of the building, is most dangerous from a sanitary and moral point of view, and represents in this city the worst type of dwellings. The tendency in legislation in the cities of this country has been to exercise a very limited control over reconstruction of houses and a very considerable control, where control exists, over new construction. This has made it possible for enterprising individuals to purchase old small buildings and by some slight changes and improvements place, two, three or more families in buildings intended for only one family.

CONDITION OF REPAIR AND MATERIAL.

The necessities brought about by congestion of buildings in the line of safety and fire protection have compelled many cities to create fire zones and restrict wood construction to certain areas outside the densely settled districts of our cities.

While certain fire zones exist in the City of St. Paul, and a certain amount of brick and stone construction is to be found both in new and old buildings 2474 or 80.44 per cent, out of a total of 3078 buildings studied are of frame construction; the other buildings being mainly brick with a few stucco and stone structures

That the whole system of fire zoning which limits itself to specific geographic areas instead of types of structure and density of buildings often works hardship and does not encourage low cost construction of one family houses is certain.

That the condition of repair of the buildings is largely dependent upon the kind of material is evident from the following table:

Table VII. Showing Distribution of Buildings According to Material of Construction and Condition of Repair.

	- 0	food	3	Fair		frad	Noln	formation :
Material	No.	Percent	No.	Percent	No:	Percent	No.	Percent
Frame	973	33,15	972	33,65	AND	15.49	397	14.32
Brick	77	42.35	40	21.98	33	38,72	72	17.55
Stone	8	66.65	1	9,314	- 1	5314	2	16.67
Stucco and Cement	10.	76.92	17	7.09	19	7.69	4	7.00
Tar Paper	1	11.81	4	20.35	- 対	61,64		5.94
No Information	1.2	19.05	3.5	23.84	3	7.86	31	49,25
Total	1,054	35.22	1,036	33.61	400.	16,03	465	10.11

If we eliminate the buildings concerning which the information was not sufficiently accurate for use, we find that the frame buildings were in good repair only in 45.4 per cent as compared with 51.33 per cent in the case of the brick buildings. The buildings of stucco and stone were not sufficient in number to bear comparison.

Dunerahip s	no.g/	Condition o	r Repair
Tenants	2438	53.85%	CO.536/5 CEST.50
Owners	1,146	69.57%	26733
Vacancies	358	81.54	3 (8)
Total	3,942	62.12.16	260813 (5.005)

Good Tair Bad Bad

Condition of Repair of Buildings According to Ownership.

Perhaps the worst condition was found in the tar paper buildings which are sort of embryonic homes indicating in many instances a keen desire for home ownership without the necessary financial resources required for the construction of a house. It is difficult to estimate how much of this desire for home ownership is genuine and how much is due to the kind of shiftlessness that leads families to settle in the most unattractive areas, such as the "Flats," with a view to avoiding payment of rent and remain content with the lowest possible standard of housing. We are led to the belief that both types of families resort to this type of construction and in some instances real estate speculators have been quick to seize upon this desire for home ownership and have disposed of properties which they have allowed to be built up with tar construction, thereby creating a home owning class of slum residents whose health is exposed to greater menace from the sanitary and moral point of view than in some of the worse tenement

areas. One of the worst districts of this type recently developed is in what is called the Riverside District.

Those who had the opportunity to observe conditions while the investigation was in progress and the field agents engaged in the housing survey were frequently struck by the condition of neglect found in many buildings where broken doors, dangerous stairs, tumbledown porches, missing cellar doors, broken walls through which the outer air could penetrate, broken and leaking roofs were among the conditions noted. A mere tabulation of such conditions would be a very feeble way of expressing evils that even the photograph could not fully portray. For a more detailed analysis of the conditions of repair we could do no better than to refer the reader to a few of the scores of photographs that were taken in the course of this inquiry.

That certain sections of the City were worse than others is shown by the following

Table VIII. Showing the Distribution of the Condition of Repair of Buildings According to Districts Studied.

	13	Good		like:		Bird	Note	ormation
District	No	Percent	No.	Percent	No.	Percent	No.	Percent
1	53	23.00	46	37.39	AT	27.74	- 27	18.6
11.	143	40.24	1.0%	30,42	2.0	15.54	146	13.65
111	4	18.67	78	8.28	- 2	8.04	24	66,65
IV	24	28.37	41	31.45	112	25,30	21	19.70
VIII	64	29.35	71	31.71	27	11.94	161	26,97
1X	83	41:05	58	216.92	50	24.85	:20	4,09
X	290	28,77	148	20,2	TH	14.29	92	10.74
XI	17	21.26	25	31.22	24	47.52	- 30	1750.00
XII	135	22.3	155	37.3	0.7	10.14	38	34.02
XIV	122	29.99	117	37.56	20	6.44	32	16.71
XV	66	32.04	AR.	42.69	31	15.05	- 23	10.22
XVI	54	22,946	. 8	10.16		8.12		
XVII	102	33.66	218	28:05	40.	10.18	27	6,79
XVIII	33	11.03	46	48.50	11	11.76	22	12.21 22.45
				-	-	2200		OCCUPA-
Total	1,084	33.22	1,000	33.64	490	10.02	465	15.11

Table VIII is more interesting for the evidence it fails to give than for any consistency or resemblance of relationship between the figures. The very best conditions found in the ninth district seem to exist parallel with some of the worst conditions. The only deduction that can be made from these figures are that conditions of bad repair in large pro-

portion are tolerated where both tenants and owners of many houses are making an effort to maintain a high standard of repairs. Frequently officials are called upon to compel necessary repairs but always the plea of poverty on the part either of tenants who fear an increase in rental or of owners who prefer to allow their buildings to fall into disrepair, deters action. The plea of poverty while justifiable in the case of the individual owner, is from the point of view of the community an injustice to the owners who keep their properties in good repair since real estate values are dependent as much upon neighborhood conditions, as upon the actual conditions of properties valued. Investigation carried on in the City of Philadelphia, however, showed that even where the authorities have compelled extreme repairs and improvements of houses the cost of these improvements had no material effect upon rental rates. A neighborhood

that is deteriorating as a whole is bound to reach a point within a short time where it must be removed, but mixed neighborhoods are a menace because of the good conditions that prevail in a limited area which are a protection to the worse conditions. That such is the case in St. Paul is evident to every one familiar with the poorer sections of the City. The injustice that this condition works upon the decent properties needs no emphasis altho it emanates from a certain commendable, if not enlightened sense of charity on the part of the legal and administrative authorities.

CONDITION OF REPAIR IN APARTMENTS AND VACANCIES.

While the condition of repair on the ourside of the apartment depends to a considerable extent upon the general standard of the neighborhood, the condition of repair on the inside of the individual apartments is largely a matter of housekeeping standards on the part of the occupant and the supply of homes in the district in which the people have been living. That the local supply in the sense of neighborhood supply of houses is an important factor is well known among social workers who are constantly encountering difficulties in the way of removing families both because of the cost of moving long distances and



Rear reem of butcher shop. Bad condition of repair.

because of the family and friendly connections which are established in the course of years and which constitute a very significant factor in the lives of the poor and even of the financially more comfortable classes. The expression "We have lived in the neighborhood for twenty or thirty years" is not uncommon even among immigrant families.

That in some instances the problem of paying arrearages in rent, or the leniency of the landlord towards the tenant in so far as the prompt payment of rentals is concerned frequently interferes with removals to better quarters was amply shown by the statements made by the tenants in the course of our house to house inquiries. This was particularly true when the photographs were taken in homes which revealed bad conditions. The tenants were sometimes so much under the influence of the owners as to ask that the fact of their permitting the photograph to be taken be kept from the owners.

A classification of the apartments according to ownership vacancies and condition of repair shows the following distribution:

Table IX. Showing the Distribution of Apartments according to Ownership of Building, Condition of Repair and Vacancies.

				if Repair	t.		
Ownership) (S	most:		Fair		Bad	Total
Tenante	1,312	55.55	716	29.37	6000	TO.TH	2,408
Owners.	2002	69.3T	249	21.72	100	0.01	2,146
Varancies	202	X1.56	21	5.91	4.0	19.61	356
	-	-	-	-			

Information concerning condition of repair in the interior of the apartments was gathered in 3942 apartments and in the distribution of conditions is shown in the above table. It is evident that the condition of repair in the rented apartments was worse than in the apartments that were occupied by the owners as there were twice as many apartments in had condition of repair among the rented as compared with the owned apartments.

Perhaps the most telling fact revealed by this table is the high proportion (81.56 per cent.) of unrented apartments in good repair as compared with either the rented apartments (53.85 per cent.) or the apartments occupied by the owners (69.37 per cent.). The largest proportion of apartments in bad repair was found, as is to be expected, among the rented apartments.

It would seem, therefore, that the occupancy of apartments in bad repair is not due to a shortage of accommodations in good repair, but to other causes which we have not been able clearly to explain to our own satisfaction. It is, of course, true that in some instances the very fact that the apartment was empty gave the owner an opportunity to make the necessary repairs, or, if not, the only other possible explanation of this condition might be found in the fact that he made the necessary repairs in order to obtain a tenant, or else that the houses in better repair were higher in rental than those that were in bad condition of repair. In order to verify the latter contention sixty apartments in bad condition of repair were studied in relation to rent. Of these, 30 were occupied by tenants and 30 were unoccupied. In the case of the unoccupied houses we were compelled to interview the agents or owners. It was found that the average rent per room in the cases of the unoccupied apartments was \$2.07 per month as compared with an average rent per month per room for rented



Yard conditions. Stables close to house.

occupied apartment of \$1.98. This difference is so slight as to have no particular influence upon the choice of homes on the part of the tenants. It cannot be doubted that other causes such as arrearages in payments of rent, especially desirable sizes of apartments and favorable location from the point of view of place of employment, proximity to places of amusement and racial or national gregariousness have a tendency to keep families in the same home despite conditions which they neither desire nor create themselves. That in some cases poor families living in the poorer districts of our cities are responsible for the neglect of their home surroundings, and abuse property in a manner that is nothing short of criminal must be admitted. It is clear to any one investigating conditions first hand, however, that these cases are rare and are

usually referred to by owners as indicative of conditions which they have to contend with as if they were the general rule, instead of being the exception. Potatoes in the bath tub and goats in the parlor have been reported in other cities as indicative of the tenant problem which the owner has to deal with. I have

found that the tub used for potatoes could under no circumstances be used for bathing as there was no means of securing hot water and no way of heating the bathroom; while the classic story of the goat in the parlor turned out to be a case of cruelty to animals when the condition of the parlor was considered.

lo Families	Na Bldga	Per	centage			
1	1984	25.65	36.6		6.65	14.09
2	738	34.94	38.47		15.96	1066
3	110	35.44	3727		(0.16	1091
4	105	50.46		25.5	15.24	10,49
5	Z1	38,08	1905	2.3.8		19.0
4	22	15.43	4343	272	p	1354
7	9	3334	8228	22.22		2,22
8	2	80.0		84	00	Minister
9	4	20.0		1	00	
Ho Inf.	68	38.08	(7.44	1907	3	1301
Total	3078	3502	3544		603	7.511

Condition of Repair of Buildings According to Number of Families.

VACANCIES.

It has been shown that the vacant apartments were in good condition of repair in larger proportion than either the apartments occupied by tenants or owners. This would seem to indicate that vacancies do not depend upon the condition of repair but upon some other causes which we have endeavored to suggest, but there is no kind of evidence that could be gathered in a form which would measure the effects of any of the factors suggested.



Condition of Bedroom. House partly occupied.

Out of a total of 4482 apartments examined 2703 or 60,31 per cent, were occupied by tenants, 1254 or 27.97 per cent were occupied by owners and 525 or 11.62 per cent, were vacant. This large proportion of vacant apartments, more than four-fifths of which were in the best condition of repair, represents practically the profit that is ordinarily expected from properties, at least en gros, and from the point of view of the community repre-

sents the double loss of good accommodations remaining unoccupied and the unprofitable vacancies which should be yielding a revenue to the community.

To what extent the proportion of such properties can be reduced through careful social service connected with the ownership of properties will be pointed out in the latter part of this report in which we shall deal with remedies.

Toilets and Baths

TOHLET FACILITIES.

It seems strange that at the present day those interested in housing reform should still find themselves in the "toilet period" of housing reform. I call this the "toilet period" because in the course of our inquiry we were still compelled to devote a considerable portion of our time to the examination of toilet conditions that should make any community blush with shame for tolerating. The photographs which are more forceful in interpreting to the public the conditions that actually exist and which make all statement regarding the conditions practically unnecessary, are especially called to the attention of the reader.

The reason for the existence of such conditions while in many instances attributable to the tenants, is nevertheless the full responsibility of the Health Department which may not be able to cope with the situation both because of limitations in the inspection force and a lack of efficiency, and because the courts are frequently unwilling or unable to realize the importance of using their judicial power in the protection of the health of the people with the same sense of justice that guides them in the protection of mere property.

It may not be fair to assume that the Judges of St. Paul are not able to see clearly their duty in relation to health problems with the same degree of judicial fairness to the injured parties that they apply to other problems of human relationships, but if they do see their duty clearly and have been ready to act, but the Health Department or any other Department of the City government has failed to bring the matter to their attention, those responsible for such neglect should bear the reward of public condemnation, and of judicial or administrative action in removing them from office. Property can be reproduced, health cannot; and judicial action in this case should precede rather than follow the act of offending against the health of the people.

Let us see for a moment what the conditions found in the toilets were, and what factors have contributed toward the creation of these conditions. Table X shows the location of toilets, which is the first element in determining the cleanliness and lighting.

Table X. Showing Distribution of Toilets According to Location.

Location:	Number	Percentage
Yard	1,220	30,37
Bath	1,662	43.38
Hall	249	6,20
Basement	188	:4:67
Apartments	546	10,58
No. Inf.	153	2.80
Total	4.016	100.00

The above figures when considered as relating to some of the poorer sections of St. Paul are sufficient to explain, at least in part, the reason for the serious conditions which were found. Out of a total of 4018 toilets



Outhouse in shed on 14th St

41.24 per cent, were located outside of the apartments, either in the yards or in the halls and basements. Of all objectionable places for toilet facilities the location in the basement is the most objectionable, altho the location in dark halls as was so frequently the case, is by no means greatly more to be desired.

Attention should especially be called to the 546 toilets located in the apartments but not connected with a bath. In many instances these toilets were in very insanitary condition and interfered with the privacy of the members of the family, and made privacy. where there were lodgers, practically impossible.

distribution:

liness.



A further analysis
of our data relative Tollet and water in basement
to the conditions of used by atx families
toilets and their location gives the following

Table XI. Showing Distribution of Toilets According to Location and Condition of Clean-

			C	oudition		No
Location	Nou	Clean	Dirty	Filthy	Nuisang	e Ini.
Vard:	1,220	1633	411	185	66	33
Buth	1,002	1,3146	240	12	314.3	19
Kitchen	277	237	110	8	11	11
Hall	240	150	78	1	- 6	
Basement	189	90	72	11	10	3
Bedroom	88	71	10	1		
Dining room	1 23	24	7	10	0	- 0
Closet	16	14				12
Storeroom	14	0	4	3	4	
Attic	9	0.7	.2	1		
Parlor.	. 60	100	1			
Living room	4	4				
No Inf.	153	70	41	-111	10	920
Total	4,018	2,645	988	147	240	98

Table XIa. Showing Percentage of Distribution of Toilets According to Location and Condition of Cleanliness.

	20114000	Condi	tion of T	olleta	No.	
Location	Clean	Dirty:	Fifthy	Nuisance	Int.	
Yard	51.10	33,07	6,95	3,30	2,70	
Bath	-50,99	14.81	2,02	2.04	1.34	
Kinchen	62.54	29.20	2.10	2.93	3.90	
Hall	60,22	31.35	2.81	2.41	21,223	
Basement.	47,65	28.00	5.85	5.33	2.66	
Bedroom	80,68	18,18	1.14			
Dining room	72,73	21.31	6.00			
Closet	87,50				12.50	
Storeroom	42.66	25,59	21.41	7,14		
Attic	66,65	22.01	11.11			
Parlor	30,00	20.00				
Living room	100,00					
No Inf.	45.73	26.81	T.84	6.54	13.08	
Total	65.88	24,61	30.00	3,49	2,44	

The above table shows a greater variety of location of toilets than Table X and reveals haphazard placement that is bound to prove undesirable in many cases. We find, for example, that bedrooms, closets, dining rooms, parlors and living rooms are selected for the location of toilets instead of separating them in some way from the living quarters in order to afford ventilation and privacy.

The fact that out of a total of 1220 toilets located in the yard only 623, or 51.06 per cent. were clean and the rest were, dirty in 33.7 per cent, of the cases, filthy in 6,97 per cent. of the cases and a nuisance in 5.57 per cent. of the cases, shows how dangerous it is to place toilets outside of the apartment. If we consider, on the other hand, the toilets located in the apartments we find that there is a distinct difference in the condition of cleanliness which is favorable to the bath room toilet. Out of a total of 1662 toilets located in bathrooms 80.98 per cent. were clean and 14.18 per cent. were dirty. In only 1.03 per cent. were the conditions designated as filthy and in 2.04 per cent, as a nuisance. This distribution of conditions of bath rooms also tends to show that in the vast majority of cases bathrooms are not misused.

The fact that out of a total of 4018 toilets examined, 147 were filthy and 140 constituted a nuisance from the point of view of cleanliness alone, shows that there is considerable neglect on the part of the authorities in the inspection of toilets. That the tenants are

some times responsible for the conditions that exist is not to be questioned, but this should be no justification for tolerating such conditions.

The cleanliness of toilets while primarily a matter of housekeeping is also dependent upon the possibility for placing responsibility upon those using them. Toilets located outside of the apartments cannot be supervised and as will be shown later where there is a sharing of toilets with a number of families or even with one, cleanliness is not practicable, whether that be among foreigners who are unaccustomed to modern plumbing or among Americans experienced in the uses of such plumbing.

VENTILATION OF TOILETS.

In the course of our various inspection of toilet conditions, one of the most serious evils was the complete disregard of the need for ventilation. This was especially surprising where every opportunity for providing adequate ventilation existed, but the owners or builders had deliberately, or through ignorance, neglected to make the necessary provisions.



Sink and tollet used by six families.

The figures relating to the distribution of toilets according to provisions for ventilation are contained in the following table:

Table XII. Showing distribution of toilets according to location and provisions for venti-

No is		2,798	1,809	24	26	331
	g foon		3.			- 10
Park		3	1	3	4)	
Attic		.0	- 4	5		
Store	moor	14	4.	2	5.	3.9
Close	4	16	8			(4)
	g ruoi	m 33	11	7	1.5%	1
Bed	room.	98	47	12	16	331
Base	ment	188	4.8	59	OT	(6.6)
Hall		249	86	357	81	47
Kitel	HERE.	111	207	61	80	200
Bath		1,062	1,355	158	32	117
Loca	tion	No.	Adq.	Poor	None	Int.
				Ventilation		No

Table XIIa. Showing percentage distribution of toilets according to location and provisions for ventilation:

	V	entilation	of Toil	ota:
Location	Adq	Poor.	None	No Inf.
Bath	81.51	9.51	2.93	7,05
Kitchen	54.39	16.29	21,23	7.59
Hall	26,43	14.15	32.4%	26,92
Basement	25,55	33.39	19.68	23.38
Bed room	53,38	13.64	18.19	14.79
-Dining room	311,32	22.323	42,43	3,02
Closet	50.00			50.00
Storeroom	28.55	14.25	35.75	21.42
Attic	44.45	38,55		
Parlor	20,00	60.00	20.00	
Living room	75,00			25.00
No int.	35,93	15,68	16.99	31,38
Total	04.65	13.09	10,42	11.84

The above figures show that no provision for ventilation existed in 292 toilets or 10.42 per cent, of the total examined. This does not take into account the yard toilets which with practically no exception had inadequate ventilation, unless the doors were out of order as was frequently the case. The latter condition made privacy impossible. Some of our photographs show the character of some of the yard toilets which had the doors out of order or missing.



Basement containing chickens, fish, pigeons, spring and tollet,

It is interesting to note that the toilets located in the bathroom were adequately ventilated in more than four-fifths of the cases (81.51 per cent), while those located in halls, storerooms, dining rooms, parlors, were well ventilated in less than one-third of the cases. The fact that 21.23 per cent, of the toilets located in kitchens had no facilities for ventilation whatever, shows the situation quite clearly. The toilets located in the halls reveal a still more serious situation, as out of 249 as many as 81 or 21.23 per cent, were without any means of ventilation and 61 or 16,29 per cent, were poorly ventilated.

It is clear to any one familiar with local conditions that an effort on the part of the Health Department, or some other department in which the control of housing sanitation might be placed, could improve the conditions of ventilation in from 50 per cent, to 75 per cent, of the toilets which are now either without ventilation or poorly provided with means of ventilation without compelling costly alterations or serious structural changes in buildings.

REPAIR OF TOILETS.

The character of repair of toilets is often responsible for the condition of uncleanliness. It can hardly be expected that a toilet that does not flush properly or has no flushing facilities would be kept clean, nor are broken seats and dangerous floors conducive to careful use of such toilets.

A tabulation of the figures relating to condition of repair gives some very interesting results:

Table XIII. Showing number of toilets according to location and condition of repair:

		Re	pair		No
Location	No.	Good	Fair	Had	Int.
Yard	1,220	223	#65	470	35
Bath	1.062	1,017	267	119	29
Kitchen	277	1249	7.5	48	-31
Hall	290	146	27	43	.23
Basement	188	92	3.4	50	12
Red coon	48	65	6)	11	2:
Dining room	33	18	7	8.	
Closer	26	10		2 6	-
Storeroom	24	18.		15	
Attic	.01	0.37	- 10		
Parlor.	.5	(2)	- 1	1	
Living room	4	4			
No. Inf.	153	71	127	27	28
Total	4,015	2,218	950	293	165

Table XIIIa. Showing percentage of number of toilets according to location and condition of repair:

romanaum of	C. C. A. sent			
	E	depair of To	let	No
Location	Good	Fair	Bad	Inf
Yard	19.11	38.13	38.51	6.25
Bath	79.24	11.26	7.16	2.34
Kitchen	66.00	19.89	12,73	1.32
Hall	58.63	14.80	17.27	9.24
Basement	48.95	18.00	26,39	6.37
Bed room	73.87	13.36	12.50	0.07
Dining room	54.54	21.21	24.25	
Closet	62.50		12.50	25,00
Store room	57.14		42.56	
Attic	33.35	66,65		
Parlor	40.00	40.00	20.00	
Living room	100.00			
No Inf.	46.40	11.05	17.60	18.30
Total	55.19	21.10	19.55	4.11



Tollets on Phalen Creek.

The above figures show that almost onehalf of the toilets were either only in fair repair or were entirely out of repair. It is quite interesting to note that toilets located within apartments are most frequently in good repair and that those located in the bath rooms show a proportion of 79.24 per cent. in good repair as against 48.95 per cent. in good repair of those located in the basements. Eliminating the few toilets located in the store rooms, almost one half of which, 42.86 per

cent., were in bad repair, the yard toilets showed the greatest frequency of bad repair, with the basement toilets next in order.

Many of these defects were trifling, while others were very serious and were a menace to both health and safety. That much of the worst kind of disrepair was due to neglect on the part of the owners to prevent further deterioration by a small expenditure at the beginning, was evident from many of the conditions found.

LIGHTING OF TOILETS.

Closely associated with condition of repair and cleanliness, but especially cleanliness, is lighting. In our tabulation little attention has been paid to the lighting of yard toilets which are almost invariably constructed on the old model with the moon shaped aperture or small window which does not open. A tabulation of the lighting condition of the toilets located within the building shows the following:

Table XIV. Showing distribution of toilets according to location by condition of lighting:

Total.	2,798	1,680	206	411	305
No Inf.	353	00	100	29	44
Living room	- 4	11			3
Parlor	. 0	11.		30	
Attic	.9	4			
Store room	1.4	4	2	5	2
Closet	16	41	a.		9
Dining room	.00	8	12	12	3.
Bed room	88	38	m	25	12
Basement	188	20	36	50	/14
Hall	249	33	09	121	746
Kitchen	277	198	77	34	25%
Bath	11/6472	1,290	170	73	120
Location	No	Light	Gloomy	Dark	Inf
350			Light		No

Table XIVa. Showing percentage of distribution of toilets according to location by condition of lighting:

	Lig	bring of Foll	eta	No
Location	Light	Gloomy	Dark	Inf.
Bath	27,63	10.76	6.00	7.00
Kitchen	40.6%	26,61	22.29	7.42
Hall	21.29	11.65	48,58	18.45
Basement	15.42	29.70	31,39	23,40
Bed room	43.17	14.78	28.41	13.64
Dining room	24.05	36,36	200,316	3,03
Closet	25,00	18.75		56.25
Store room	28.50	14.29	35.71	21.41
Attic	44,44	33.56		
Parloc	40.00	60,00		
Living room.	75.00			25,00
No Inf.	39,24	12.08	18.91	28,77
Total	60.14	14.10	14.68	11,02

Only 60 per cent, of the 2798 toilets located within the buildings were lighted satisfactorily and 396, or 14.16 per cent, were gloomy, while 411, or 14.68 per cent, were dark. In other words, there was a greater proportion of dark toilets than there was of the type that were gloomy.

The toilets located in the bath rooms were more frequently provided with adequate lighting facilities than the toilets located in any other part of the building. The basement and hall toilets were as objectionable from the



Partitioned toilet in kitchen. Open at top. No other ventilation,

point of view of lighting as from the point of cleanliness, repair and ventilation.

Throughout our entire investigation, the basement and hall toilets were a serious menace to the safety and health of the tenants.



Basement Tollet.

NUMBER OF FAMILIES USING TOILETS.

We have referred in the early part of this chapter to the dangers of divided responsibility in the use of toilets. The following table shows to what extent this division of responsibility exists.

Table XV. Showing number of toilets according to number of families using them and their location:

No. Families			tion-Yan			No Int.	Hall	Apts.	Total
Using		No. 01	Compartn	nenta	0				
- 3	697	25	1	1	0	26	75	2,407	3,240
2	3.38	9.5	13	100	1	4	3.6	161	428
3.	20	20	- 13		1	- 14	18	- 7	72
4		- 11	18	3			12.		37
9					2			9	13
			7				4		
3	107							(2)	- 3
	-		2	2	(8)		3		ほ
Public	50	14					123		- 2
No Int.	144	4				5.8	- 1	92	
55.5 FHE	1000					- 00	1	2.7	137
Total	800	157	14	8	- 4	100	147	0.580	3,929



Shed Outhouse.

The sharing of toilets in yards is a very common practice, and it is not surprising that out of a total of 909 toilets with one compartment, 697 or 76.67 per cent are used by one family only, and 168 yard toilets are used by two or more families.

The most surprising fact revealed by the

above table, however, is to be found in the sharing of toilets by more than one family when that toilet is located in a private apartment. Out of a total of 2589 toilets located in apartments, 175 were being used by at least one additional family besides the one in whose apartment it was located. While this is not an exorbitant proportion, it involves 379 families or about one ninth of the total number of families studied in the course of this inquiry.

A still better conception of the extent of toilet sharing can be obtained from the study of table XVI.

Table XVI. Showing the distribution of overage number of toilets per family according to general location by districts:

District Yard Hall Apts.	1 1.33 3.6 1.	2 1.1 4.12 1.00	1.22		ia.	* 1.11 1. 1.17	9 1.24 2.71 1.00	10 1,36 1,12 1,08
Total	1.19	1.1	1.7	1.5	4	1.15	1.75	1.71
District Yard Hall Apts.	11 1. 1. 1.	12 1.09 2.58 1.07	14 1.33 1. 1. 1.05	10 1,98 1.10 1,96	1.00 1.00 1.00	17 1,15 1. 1,1	18	Total 1,39 2,19 1,07
Total	ī.	1.13	1.14	1.07	1.19	1.33	1.15	1.15

This table shows that the largest average number of families per toilet is to be found in the buildings where the toilets are located in the halls. If we remember that these were also the toilets with the poorest lighting facilities and the most inadequate means of ventilation, the seriousness of the objection to hall toilets is apparent. That in many cases the stench from these hall toilets, especially when out of repair, permeated the atmosphere of the entire building was often evident, and the complaints of the tenants regarding this evil were quite numerous.

SPECIFIC CONDITION OF TOILETS.

YARD	31.5% (1.00%) 33.47 (1.00%) 2.555 (1.00%) 2.755 (1.00%)
BATH	869% T481 109 10078 10078 1048 1348
KITCHEN	GENTAL TO THE TOTAL THE TOTAL TO THE TOTAL THE TOTAL TO T
HALL	IGGIZA SISS II ZALIE ZALIE ZALIE
DADEMENT	45632
BED-ROOM	(SCARE)
DINING-ROOM	[2131-000000] [4:54-000]
CLOSET	(8:50) (8:0)
STORE ROOM	152 (6 N)
ATTIC	(\$6.65%)
PARLOR	(85.00) (26.00)
LIVING-ROOM	100+M Zetan Edita I Zenza Estataj
NO-INTORMATION	(\$5.002) (\$2.001) (\$
TOTAL	FERRITATION CONTRACTOR
treuclean mushide	tillho bur Noinance bu No Int.

Distribution of Toilets According to Condition of Cleanliness and Location. The statistical discussion of the condition of toilets can be concluded in no way more forcefully than by repeating in their original form some of the notes taken at random from the cards used by the field workers in the course of their investigation. These notes were not originally intended for publication but merely for the guidance of the photographer.

"Odor from toilets very bad. They are set on ground with only small hole."

"Place is filthy. Hamburger machine and filthy toilet about 10 feet apart."

"Plumbing in bath all held together with string and rags."

"One toilet on this place so overful it was boarded up—filthy place."

"Four families using one toilet that is situated off kitchen in one apartment."

"Recommend for photo one toilet compartment under stairs (second floor) used by

> seven apartments on second and third floors."

"Cesspool here has not been cleaned for over 6 years and backs up and comes into house. Tenants say the odor is awful in hot weather. The people lived here six years and in all that time it has not been cleaned. It is about 10 feet from house. Also house next door is connected with same cess-



Basement Toilet, Sibley St. pool."

"Toilet in cellar used by shop and two families. Toilet dark and damp,—very bad shape. Storeroom for butcher shop in connection with the toilet. Place very dirty and insanitary."

"Toilet 20 feet from house and a lake between it and house. Toilet under water." "Toilet partly under water at rear of stable."

"Toilet is a hole dug in sand in mushroom cave vicinity. Three families use this."

"Toilet in cave at higher level than cave containing spring water."

"Vessel used as toilet. Bad odor in rear of store."

"The families at 19, 23, 25, 27, 29, and 31, in fact all the houses in the row use toilet in basement of 110 ———— Street."

"One bathroom partitioned off corner of a larger room. No ventilation—no air. Used by nine (9) apartments, twenty (20) individuals."

"Toilet in basement. Home-made box for tank. Fixture broken,—filled up—mouldy awful, (left hand.)"

"Outside W. C. vault full and rubbish on top."

"Pail used as toilet, never emptied."

"Remains of old cesspool under home."

"Toilet in shed used by the thirteen (13) people living here. (Three of whom are under five years). The spring which supplies drinking water is in the same shed. Condition; dirty, dark and no ventilation."

"Shed has spring pipe emptying into it with

toilet on other side. Family also uses same spring for drinking water supply."

"Outside toilet in very bad condition, nothing but a few boards put together. It is located in carriage shed."

"No water all winter until June 7th and no toilet at all. Are using kitchen in vacant house next door as toilet."

"Yard toilet is almost falling down, no seat, and most of roof gone."

"Toilet: only ventilation is through bakery."

"The toilet is badly situated and could not be ventilated except through the living room."

Perhaps these few quotations will suffice to indicate the menace that the toilet problem in this city represents, leaving to the statistical tables to give some conception of the extent of the problem represented by the specific instances given in the above quotations.

In the course of our investigation we were greatly impressed with the large number of families that had baths attached to their homes. This proportion is greater than any that is ordinarily found in the poorer districts of eastern cities. The distribution of families with and without baths according to districts is as follows:

Table XVII. Showing distribution of families according to bathing facilities by districts and number of families using each bath:

		Families Hav- ing No Bath		Fan	illies Havin	g Bath	Families U		
		No.	Total	1	2	3	4	6	7
District	1	199	92	91		. t.			
District	2	308	193	102		1			
District	3	29	2	3					
District	4	163	21	26	ă.				
District	8	231	225	204	16	1	(1)	2	1:
District	9	94	190	153	31	- 4	1	1	
District	10	287	440	385	53	2			
District	11	84	1	1					
District	12	311	:019	280	30	ñ	4		
District	14	265	119	116	3				
District	15	140	50	74	6				
District	16	5.5	55	74 30	17	1	1		
District	17	233	55	81	8	1	1		
District	18	104					The Bree		
Total		2,330	1,837	1,643	166	16	8	3	1

Table XVIIa. Showing percentage of distribution of families according to bathing facilities by districts and number of families using each bath:

		Families With Bath	Families Without Bath		*	o. Familie	o Using 1	Sark:	
District District District	2.0	67.25 01.45 93.53	22.75 28.05 6.45	1 99,93 300,00	*	1.09 -05	*	. 16	T.
District District District District District	# # 10 11	84.11 24.51 33.09 39.49 98.53	13.89 73.49 66.91 80.51 3.45	#2.88 90.07 #0.52 #2.50 100.00	16.12 7.13 16.03 12.03	.44 2.11 .45	.44	.55 .52	.44
District District District	12 14 10	49,38 69,01 63,62	36.38 26.38	N7.76 97.46 92.50	9,41 2,52 7,50	LAT	1,29		
District District	16 17 18	48.32 72.50 100.00	51.88	65,48	30,88 3.67	1,14	1.82 3.14		
Total		55.99	11.00	89,46	0.03	.87	.45	16	MS

Out of a total of 4167 families for which information was gathered, 2330, or 55.98 per cent, had no bathing facilities in their homes,



Note outhouse with piece of tin for door. West Side Flats.

while 1837, or 44.02 per cent. did have bathing facilities, or at least, some accommodation
which might be used for bathing purposes.
That many of these baths were in a condition
of disrepair was found in 194 cases where
they actually could not be used because of bad
plumbing. That many had no way of heating water or heating the bathrooms themselves, was found to be the case very often.

One of the most objectionable features of some of the bathing facilities is to be found in the fact that in 194 cases or 10.54 per cent, the bath tubs located in the hall or in the private apartment of one family were to be used by one or more additional families. The menace to health due to probable contagion and the likelihood of misunderstanding between families as to use and abuse of such bathing facilities would seem to mitigate against frequent or careful use.

With climatic conditions such as we have in the City of St. Paul, which reduce outdoor bathing to only six or seven weeks in the year, and the failure on the part of the City to provide public baths, a condition which singles out this community as one of the most unprogressive among the larger cities of this country, we realize what chance for keeping clean our working classes, compelled to live in homes without bathing facilities, have.

When we consider the distribution of bathing facilities by districts we find that there was not a single bath in the eighteenth district. The eleventh, third and fourth districts had practically no bathing facilities.

When the Amherst H. Wilder Baths were built it was hoped that the municipality would

realize from the success of this enterprise that baths are needed and that the people are eager to use them. So far, however, there has been no action taken by the City government that even contemplates the construction of public baths.



Flat building. One toilet and water in basement used by six families.

Sewers and Water Supply

Two essentials of good housing are sewer connections and water supply. Generally speaking, where there is a water supply there is a sewer system on the streets, and where there is a sewer connected with the house there is also a water supply coming from the general system of the municipality.

When we consider the poorer sections of a given community, however, it is found that there is no very close relation between the proportion of buildings supplied with water and those having sewer connections.

An examination according to districts of the available sewer facilities and water supply shows the following distribution according to districts.

Table XVIII. Showing total sewerage and city water supply by districts:

		TOTA	L HO	USES		
District	Sewer	No Sewer	No Inf.	City Water	No City Water	No In
I	60	83	23	-811	65	8
11	162	137	5.	244	5.6	44
111	2	27	2	1	27	1
IV	43	84	3.	0.0	42	4
VIII	199	1	12	.200		
LX	100	4	17	175		15
X	438	63	18	405	8	16
XI	9	65	4	20	63	
XII	366	33.	6	377	10	0
XIV	991	63	24	287	0	22
XV	1.50	33	3.4	176	. 0	12
XVI	-34	18	1 .	60	331	
XVII	102	170	- 1	140	127	160
XVIII		97			97	
Total	1984	944	114	2304	540	98

Table XVIIIa. Showing percentage total severage and city water supply by districts.

		PERSON	INT H	OUSES		
		No	No	City	No City	
District	Sewer	Sewer	Int.	Water	Water	No Inf.
- 1	28,45	53,28	8,32	52.23	41.65	0.10
11	50.22	45,00	1.63	90.25	19.09	.06
111	6.66	90,00	3.34	6.66	90,00	3.34
IV	42.15	52.96	4.91	53.92	41.17	4.91
VIII	99,00	.05	.03	100,00		
1X	88.99	2.11	8,99	92.21		7.79
X	84.42	33.12	3,46	95,38	1.54	3,08
XI	11,54	82.34	5,12	22.83	80.76	8,41
XII	92.69	3.79	1.52	95,44	3.94	1.52
XIV	725.65	19.80	7,55	50,25	2.53	6.92
XV	75.19	16.77	7.14	89,46	4.55	6.09
XVI	73.97	24,66	1.07	80.18	17.82	
XVII	36.07	62.16	1.77	49.49	48.29	2.12
XVIII		100,00			100,00	
Total	67.43	28,60	3.88	78.31	16.36	3.33



Artesian well-Upper Leves.

The above figures show 844 houses or 28.69 per cent, of the total studied not connected with sewers. The situation relative to sewer connections is still worse when we consider specific districts. We find, for example, that Dis-



Sink drains through side of house into yard.

trict Eighteen which is one of the worst that has come under our observation, and which is located on the Upper Levee, is without any sewer connections whatever, while the Third District on the West Side Levee and practically the entire Eleventh District generally known as Phalen Creek, were without sewer facilities. The situation relative to sewer connections is also quite serious in the Seventeenth District, the district which consists of the West Sev-

enth Street District to the River. The makeshifts for drainage, the repulsive condition of

yards and pollution of Phalen Creek, which is nothing more than an open sewer, indicate a need for a better development of drainage facilities in some sections, at least, that could with difficulty be equaled in cities of the size of St. Paul. Some of the photographs reproduced in this report show the absence of drainage facilities, and the conditions that attend failure to provide proper drainage. CITY WATER is one of the essential requirements of health and cleanliness. One spring or pump for from 10 to 20 families, at a distance amounting to from about thirty to a thousand or more feet from the house, is not conducive to high standards of cleanliness, especially during the very severe winters that prevail in this elimate. With the City's failure to provide public bathing facilities and the complete absence of an adequate and easily accessible water supply, the condition of filth in homes and the frightful neglect of the personal cleanliness of tenants are not out of keeping under existing circumstances.

In the case of water as in the case of sewers, the Eighteenth District, known as the Upper Levee, had no supply of water beyond such supply as is derived from a spring or a pump. In several instances from five to twenty families shared in one source of water supply and in the Third District, known as the West Side Upper Levee, the supply was wholly inadequate for the number of families using the existing supply.

It may be said that the sewer system and water supply are least adequate where they are most needed, and that where there is an inadequate sewer system there is also a poor supply of water.



Dark area on stove pipe shows high water mark during flood. Note dark rooms in rear.

Garbage, Ashes and Rubbish

The unsightly appearance of many of the streets and yards in the poorer sections of this City is frequently due to the failure on the part of the owners or tenants to provide and utilize receptacles for the storage of garbage and ashes. That the City authorities share in the responsibility for the failure to provide and use receptacles is clear, since the City ordinances provide that such receptacles should be available in connection with every building in the City of St. Paul.



Rear of Cody Block. Garbage and waste infested with rats.

An examination of the adequacy of the facilities for storing garbage showed the following distribution of buildings according to availability or absence of garbage cans.

Table XIX. Showing distribution of buildings according to presence or absence of garbage cans.

St. Line of the last	A CONTRACTOR OF THE PARTY OF TH			
		ptacles illable	78741789	
TO MAKE STREET				ecoptacles
District	No.	Per Cent	No	Per Cent
1	42	29.38	101	70.62
H	144	48.32	154	51.68
111	2	7.14	26	92.86
IV	34	36,15	60	63.85
VIII	145	71.45	50	28,45
1X	118	66.65	39	88.85
X	202	68.12	152	31.78
XI	33	18.04	10	\$1.96
XII	260	72.82	97	27.18
XIV	163	57.42	121	42.58
XV	118	65.56	62	34.44
XVI	37	59.68	25	60.32
XVII	103	37.85	169	62.15
xvm			96	100.00
Total	1,509	55,23	1,221	44.77
2 0000000000000000000000000000000000000			1,000	390.14

The above Table shows that out of a total of 2,882 buildings only 1,509, or 55.23 per cent. had receptacles for the storage of garbage. With such inadequate provisions it is to be expected that the families would dispose of such garbage either by burning it, which is

more desirable than any other method of disposal, or by throwing it into the alley, street, or yard as the case may be.

The feeding of garbage to animals, particularly chickens, is not uncommon and in some instances saves the surroundings of the home from the conditions that attend failure to dispose of garbage either through municipal collection or incineration in the home.

It is surprising that in the whole of the Eighteenth District, which consists of the Upper Levee, not a single receptacle was found, while the West Side Lower Levee, designated



Yard condition. Manure, garbage and rabbish.

in this report as the First and Third Districts respectively, the proportion of receptacles was only 29.38 per cent. for the Lower Levee and 7.14 per cent. for Upper Levee. The appearance of each of these districts and the frequency of garbage found in yards, cellars, streets, alleys, and open spaces was sufficient to demonstrate the need for adequate receptacles

for garbage and the proper collection of such garbage at frequent intervals.

The condition of storage of garbage found is so much more to be regretted when we remember that on March 26, 1917, Mayor Irvin approved an ordinance that reads in part as follows:



Condition of yard. On State St.

Section L.

"'Garbage' shall be construed to mean all vegetable or animal matter which is the refuse or offal of the food of human beings.

Section II.

The owner of every building within the corporate limits of the City of St. Paul, inhabited, used or occupied as a tenement, dwelling-house, lodging house or hotel, or in which any restaurant or lunch-room is conducted, or in which any garbage is produced, shall provide and maintain sufficient, proper and suitable receptables for receiving and holding garbage. Said receptacles shall be of galvanized iron or other metal which will not easily rust and can be readily cleaned, and shall be provided with a close, well-fitting lid of the same material, and shall not be less than ten gallons nor more than twenty gallons capacity.

Section III.

The lid shall always be kept upon such garbage receptacles, and when removed for necessary purposes shall be immediately replaced.

Section IV.

Section V.

All garbage receptacles shall be kept on the ground floor or yard in the rear of the premises at a place easily accessible to the garbage collector. * * *

Section VI.

Any person violating the provisions of this ordinance shall be punished by a fine of not less than Five Dollars or more than One Hundred Dollars, or by imprisonment for not exceeding ninety days. While the ashes do not constitute a menace from the sanitary point of view, their presence in the yards, cellars, alleys or streets creates a condition which merely adds to the already unattractive atmosphere of given districts. It must be admitted that during the winter months it is difficult to remove ashes at regular intervals, and that the snow and ice are a factor in promoting the delay of such removal.

Our investigation, however, was carried on during the spring and part of the summer months when the removal of such ashes

could not be considered difficult. The following Table shows the distribution of buildings according to provision of storage facilities for ashes:

Table XX. Showing number and proportion of buildings for which ash cans were provided.

	Can	No	Ash Can
No.	Per Cent	No.	Per Cen
15	12.45	166	87.55
38	13,37	246	86.63
		24	100.00
8	9.51	76	20,42
40	20.74	353	79.26
52	21.53	113	68.47
144	30.57	327	69.43
		40	100.00
	31.24	229	68.76
63	19.05	221	#0.93
43	25.75	124	74.25
22	37.09	20	62.91
24	9.12	239	90.88
		87	100.00
-	-	-	-
543	20.99	2,044	79.01
	No. 15 38 8 40 52 144 104 52 40 22	15 12.45 38 13.37 8 9.51 40 20.74 52 21.52 144 30.57 104 31.24 53 10.05 40 25.75 22 87.09 24 9.12	No. Per Cent No. 15 12.45 166 38 13.37 246 38 3.51 76 40 20.74 153 52 31.52 113 144 20.57 327 60 104 31.24 229 53 12.05 221 25.75 124 22 27.09 29 24 9.12 223 87

The proportion of houses which had provision for the storage of ashes was 20,99 per cent, which is pitifully inadequate. In three of the districts studied no ash cans were found, on any of the premises examined, and in one district only 9,51 per cent, of the buildings and yards examined had adequate provision for the storage of ashes.



Junk yard surrounded by dwellings. Fire hazard and infested with rata.

The fact that the ashes accumulate in yards, cellars, and streets is shown in some of our photographs, but the serious menace that the failure to collect ashes in proper receptacles presents is the danger that comes from mixing such ashes with garbage and other perishable materials which constitute a danger to health through the accumulation of vermin of every kind. One of the most serious conditions of accumulation of filth was found in a yard where ashes made foundations for a dump that was recking with vermin and where the rats were actually terrorizing the neighborhood.

ACCUMULATION OF RUBBISH AND YARD DRAINAGE are essential factors in determining the surroundings of the home. Where yards do not drain properly and rubbish is permitted to accumulate, the conditions are bound to become unattractive, making it impossible for the families to use the yards and driving children into the streets, especially in the areas where there are no adequate playground facilities.

Below is a Table showing the distribution of condition of yards according to character of drainage and presence of rubbish according to districts:

Table XXI. Showing the distribution of condition of yards according to character of drainage—by districts.

		YARD-	DRAIN	AGE*		
			o Specia Pro-			No Infor- Infor-
Dist.	Sewet	Surface	Prov.	Swampy	Water	mation
- 1	1.47	51.62	12.5	14.71	2.94	7.30
-11	7:08	66.55	:29	9.45	8.26	7.87
m		55.54		33.33		11.11
IV	1.16	56,06		6.97	1.16	4.65
VIII	6.18	83,72	36	1.68		7.86
IX	新战争	79.57				15.10
X	7.95	76.14				15.91
XI		87.18				12.82
XII	552	86.98				12.50
XIV		87.54	-30	-30		11.86
XV		36.42				13.58
XVI	2.17	32.56				14.27
XVII	.68	31,56				17.36
XVIII		94.2		1.45		4.35
Tota	1 3.20	80.59	.72	2.06	.93	12.48

Total 2.29 20.59 72 2.96 .53 12.48 "For want of space we have eliminated the numbers and used only percentage figures. Table XXIa. Showing the distribution of condition of yards according to presence of rubbish—by districts.

YARD-RUBBISH*

					No In-
Dist	Free	Some	Much	Nuisance	formation
- 1	22.8	33.11	27.21	13.22	2,66
11	22.06	33.85	22,06	13.38	N.65
111		44.45	99.95		33.33
IV	52.31	24.42	8.15	5.81	9.31
VIII	37,65	34.27	15.71	5.52	5.75
TX	50,76	24.09	8.91	5.76	30,4%
X	\$8,27	15.73	0.49	1.16	21.75
XI	55.15	26.83	256		15.88
XII	52,31	20.85	7.81	33.95	12.0%
XIV	62.63	17.92	3.95	1.91	14.89
XV	88,75	25,62	2.54	2.01	12.08
XVI	57,15	15.86	6.35	3.17	17.47
XVII	70.42	10.51	.68	1.02	17.36
XVIII	26,08	27,56	26.08	4.35	15.93
Total	50.83	22,04	8.65	4.61	14.07

Tables XXI and XXIa show that 13.06 per cent, of the yards were either encumbered with a good deal of rubbish or presented what might be considered a misance. Only one-half of the yards were entirely free from rubbish. The most serious conditions were found in the West Side Lower Levee and Flats, with considerable accumulation in the Upper Levee district and under the High Bridge. These conditions correspond very closely with the general condition of the houses in these districts mentioned.

Coupled with the problem of accumulation of rubbish is the problem of yard drainage. In this respect, as is apparent from Table XXIa, the yard drainage was such as to produce swampy conditions or stagnant pools in 17.65 per cent. of the yards on the West Side Lower Flats, and 33.33 per cent. on the West Side Upper Levee. These were perhaps the worst districts, and in most instances where there was a dump or swampy condition of the



Yard filled with rags.

yard, was also to be found an accumulation of rubbish of more or less serious character. The inspection of the yards having been made long after the snow was off the ground, there was no justification of the conditions found on the ground of climatic difficulties. The photographs which we were able to take of existing conditions are sufficiently explicit as to the degree that the accumulation of rubbish might reach and need no further comment.

Lighting and Ventilation

The height and proximity of buildings, the orientation of streets, the location of windows, all are determining factors in the lighting and ventilation of rooms.



Small bedroom without window, occupied by three adults.

To have studied the possibilities of improving the lighting and ventilation of buildings from the point of view of possible improvements would have carried us too far afield. In a single instance, an attempt to meet the need



Carbage chutes in air shaft,

for constructive suggestions was made in the case of a large tenement building now under the control of one of the most prominent real estate men of the city. It was found, however, that the building had originally been constructed with such faulty lighting and ventilation facilities that changes which would comply with a reasonable standard must exceed in cost what would ordinarily be expected to represent a fair relation between investment and return. The owners were therefore advised to abandon any plans for improving the lighting and ventilation of the building. The small proportion of the apartments rented render the building a decided liability to the owners. The destruction of this structure is bound to follow if the land upon which the building now stands is to produce the revenue which it is potentially capable of yielding.

While in many cases a cursory inspection of buildings suggests ways and means of improving the lighting and ventilation without unreasonable expenditures of money, we have for reasons of expediency confined our study to existing conditions alone:



Airshaft and court showing elevator, fire escapes and garbage chutes.

LIGHTING.

When we consider the lighting of the various rooms for which we obtained information, we find the following distribution:

Table XXII. Showing distribution of rooms according to lighting according to type of rooms.

				One F	amily E	Ioune.				
						Ligi	it			
	T	otal:	G	boo	V	air	GI	oomy:	7D	ark
Rooms	No:	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Living	892	100	722	90.15	36	4.49	10	4,99	3	.37
Dining	1,147	3.90	1,002	87,45	45	3,92	92	8.02	7	.61
Bed	4,216	200	3,588	55.22	218	5.18	371	8.82	33	.78
Kitchen	1,649	100	1,410	85.51	86	5.21	129	8,42	24	.85
Bath	776	100	587	75.66	24	2.69	25	12.63	67	8.62
Alcove	21	100	17	73.91	3	12.65	2	8.63	4	4.35
Hall	1.6	100	13	95.71			127	14.29		
Attie	6	100	140	23,33	201	50.00			- 1	16,67
Den.	5	200	4	80.00			-1	10.00		0.700000
Total	9.380	100	8 643	45.75	410	2.69	221	244	196	194

Table XXIIa. Two family house.

				Two F	amily E	fouse.				
						Litte	nt.			
	T	otal	G	boo	P	nir	GI	oomy	D	ark
Rooms	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Living	653	100	581	30.51	19.	2.91	42	6.43	- 1	.15
Dining	987	100	824	84.50	35	3.54	112	11.35	- 6	.61
Bed	2,530	100	2,061	81.47	100	4.30	338	13.36	22	.87
Kitchen	1,400	100	1,182	84,49	70	5.01	145	10.36	9	.14
Bath	995	100	685	72.38	25	2.76	117	12.93	108	11.93
Parior	611	100	560	91.65	18	2,94	33	5.41		
Alcove	34	100	30	88.24	10	2.94	2	5.88	1.	2.94
Hall	1	100	2	66,67	1	33.33				
Attic	7	100		71,45	2	29.55				
Den	- 3	100	3	100.00						
Total	7,122	100	5.924	\$2.07	280	3.92	789	11.05	140	196

Table XXIIb.

				Y OHO	rand to F. Vi	OHRE.				
						Light	ht.			
	T	otal	0	ood	Pair		Gloomy		-D	ark
Rooms	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Living	530	100	465	87.74	18	3,39	43	8.12	4	111111111111111111111111111111111111111
Dining	643	100	521	81.04	28	4,36	90	13,98	4	.62
Bed	1,830	100	1,415	77.31	80	6.37	265	14.48	70	2.82
Kitchen	1,022	100	791	76.55	61	6.19	164	15.91	-14	1.35
Bath	672	100	312	46.14	71	2.12	133	19.64	207	20.80
Parlor	362	100	324	89.50	12	2.32	93	6.91	1	27
Alcove	50	100	35	70,00			12	14.00	×	16.00
Efall	7	100	7	100.00						
Attic	4	100			1	25.00	2	75.00		
Den	3	100	2	66.67			-1	33,33		
Total	5,134	100	3,872	75.41	224	4.36	730	14.22	208	6.01

It is clear from the above figures that of the 9,380 rooms in single dwellings, only 126 or 1.34 per cent were dark, the largest proportion of which were attic rooms, baths or alcove rooms. In the two family houses 140 or 1.96 per cent, of the rooms were found to be dark and in most instances these were also either attic or bath rooms. When, however, we consider the tenements or buildings occupied by three or more families, we find that there were 308 or 6.01 per cent dark rooms.

While on the whole the proportion of totally dark rooms used for habitation was comparatively limited, when we consider the rooms which were gloomy, which meant use of artificial light at least during part of the day, we find that out of a total of 21,647 rooms, 2,864. or 13.26 per cent, were gloomy or totally dark. This is especially to be regretted when we find that 9.6 per cent. of the bedrooms in single dwellings, 14.23 per cent, of the bedrooms in two family houses and 18.3 per cent. of the bedrooms in tenements were either gloomy or dark. It is clear that the tenements are less well provided with lighting facilities and that the bedrooms in this type of dwellings are more frequently without sufficient lighting than either the one or two family houses.



Dark room used for habitation and storage-back of store,

The kitchens, which are so often used for sitting room and bedroom purposes, were also

found to be poorly lighted in a considerable proportion of the cases. Gloomy and dark kitchens constituted 9.28 per cent., 10.5 per cent, and 17.26 per cent. in single dwellings, two family dwellings and tenements respectively. As the major part of the family activities are frequently carried on in the kitchen, particularly during the cold



winter months, it provides light and ventilation for all rooms.

is keenly to be regretted that more than one sixth of the kitchens in tenement houses should be either gloomy or totally dark.

It is generally agreed, and many cities have translated the agreement into law, that bath rooms and toilets need the same lighting facilities per unit of floor space as any other rooms. It is surprising, therefore, to find that 21.25 per cent., 24.86 per cent. and 50.44 per cent. of the baths in the single dwellings, two family dwellings and tenements respectively, were either gloomy or dark. The tenement bath rooms, like all other types of rooms being lighted inadequately in more than one half of the cases.

VENTILATION.

Where lighting is poor, ventilation is likely to be poor. Narrow shafts and such conditions as are revealed by the air wells provided in the old tenement houses shown by our photographs, not alone fail to provide fresh air, but

present conditions which befoul the air that already is enclosed by the buildings.

The following Tables show the distribution of rooms according to the condition of ventilation:

Table XXIII. Showing distribution of rooms according to the condition of ventilation.

On	45	E	cras	ιii	N	E	to	165	25	ì

		y House	No.			Ventil	lation.		
Total		Ge	bod	Fair		1	Bad	200	one
No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
862	100	686	85.52	78	9.74	38	4.74		
1,147	100	589	86.24	114	9.94	43	3.74	1	.08
4,210	100	3,383	80.43	517	19.27	205	7.23	3	.07
1,649	190	1,351	81.94	183	11.10	115	6.96		
776	100	004	77.83	50	6.45	69	8.89	53	6.82
748	100	657	87.83	68	9.09	25	31.08		
21	100	18	78.25	4	17.40	1	4.35		
14	100	14	100.00						
6	100	2	23,23	187	50.00	1	16.67		
5	100		80.00	1	20.00				
9,380	100	7,710	82.21	1.018	10.84	595	6.24	57	.61
	No. 802 1,147 4,210 1,649 776 748 21 14 6 5	Total No. Per Cent 802 100 1,147 100 4,210 100 1,648 100 748 100 21 100 14 100 6 100 5 100	Total General No. Per Cent No. Set 100 686 1,147 190 988 4,210 100 3,381 1,648 190 1,351 776 190 664 748 190 667 22 190 18 14 160 14 6 190 2 5 190 4	No. Per Cent No. Per Cent 802 100 686 85.52 1,147 190 889 88.24 4,210 100 1,383 80.43 1,648 190 1,351 81.54 776 100 604 77.83 748 190 657 87.83 23 100 18 78.25 14 100 14 100.00 6 100 2 33.33 5 100 4 80.00	Total Good F No. Per Cent Per Cent Per Cent No. Per Cent Per Cent	Total Good Fair	Total Good Fair 1	Total Good Fair Bad	Total Good Fair Bad No. No. Per Cent No. Per Cent No. Per Cent No. Per Cent No. 802 100 686 85.52 78 9.74 38 4.74 1,147 100 589 86.24 114 6.34 43 3.74 1 4,210 100 3,886 50.43 517 12.27 205 7.23 3 1,648 190 1,351 81.94 183 11.10 115 6.96 775 190 604 77.82 50 6.45 69 8.89 53 748 190 657 87.83 68 9.09 23 3.98 22 100 18 78.25 4 17.40 1 4.35 14 100 14 196.00 4 80.00 1 20.90 1 16.87 5 100 4<

Table XXIIIa. Two Family Houses.

		Two Famil	y House	CV			lation.			
	Total Good		3	air	1	Ind	None			
Rooms	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent.
Living	653	100	543	83.18	79	12.09	30	4.50	1	.15
Dining	987	100	856	84,71	105	10.63	45	4.56	1	.10
Bed	2,530	100	1,973	77.97	284	15.17	168	6.67	5	.19
Kitchen	1,400	100	1,102	78.72	208	14.86	88	6.28	2	.14
Bath.	905	100	672	74.24	64	7.07	101	11.17	68	7.52
Parlor	611	100	527	86.27	50	8.17	34	5.56		
Alcove	34	100	24	76,49	7	20.57	1	2.94		
Hall	3	100	2	66.67	1	33,33				
Attic	17	100	- 2	42.86	3	42.86	1	14.28		
Den		100	2	66.67	1	38.83	-			
Total	7,103	100	5,686	79.74	902	12.61	468	6.57	77	1.08

Table XXIIIb. Three Family Houses.

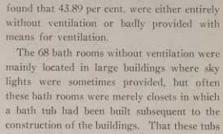
	76	Tenement otal				444		lation.		
	118	DEAL	5.54	ood		air	- 1	lad	- N	one
Rooms	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent	No.	Per Cent
Living	500	100	419:	79.06	76	14.35	27	5.08	- 8	1.51
Dining	643	100	597	78.86	78	12.12	52	8.24	5	.77
Bed	1,820	2.00	1,311	71.64	271	14.51	228	12.46	20	1.09
Kitchen	1,033	100	748	72.43	176	17,03	104	10.06	6	.48
Bath	672	100	322	47.02	-55	8.18	144	21.41	151	22.48
Partor	362	100	309	85.37	31	8.56	22	6.07	-	
Alcove	50	100	28	76.00	6	12.00	0	12.00		
Hall	7	100	7	100.00				. 44-00		
Attle	4	100			3	75.00	1	25.00		
Den	2	100		100.00		1.000000	11811	- manager		
Total	5,184	100	3,661	71,42	-	100	-	-	-	-
	Array.	200	97009	11.50	699	13.61	585	-11.40	180	2.67

The above Tables show a total of 21,647 rooms with 1,971, or 9.09 per cent, either without ventilation or badly ventilated. It must be remembered in this connection that in appraising the ventilation, account was taken only of the possibilities for ventilation, and not of the actual use of such possibilities. That many of the tenants were not availing themselves of the ventilating facilities was frequently apparent, but as our concern was mainly with structural defects, the use of ventilation was not taken into account.



Typical rear view of old type of single dwellings. Note proximity of buildings.

The ventilation of rooms in single dwellings was everywhere more amply provided for than in either two family or tenement dwellings, the proportion of rooms without ventilation being 0.61 per cent., 1.08 per cent. and 3.67 per cent. in single, two family and tenement dwellings respectively. The proportion is still more striking when we consider rooms with bad ventilating facilities, as we find 6.34 per cent., 6.57 per cent. and 11.40 per cent. of the rooms with bad ventilating provisions in the one family, two family and tenement dwell-



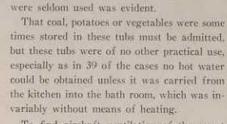
ings. Throughout, it was found that the bath-

rooms were less adequately provided with pos-

sibilities for ventilation than any other rooms.

and this was especially true of the bath rooms

located in tenement buildings, where it was



To find airshaft ventilation of the worst type was unexpected in so small a city as St. Paul, but while this condition was limited as to numbers it was nevertheless repre-



Milk bottling establishment in fifthy cellar.

sentative of what does take place when inadequate legislative control prevails.

Within recent years various types of tenements and so called apartment bouses have been built in the City of St. Paul. It is unfortunate that the Building Department of the City does not publish any data relating to the types of buildings constructed every year. A casual inspection, however, shows that the three and four story tenement is becoming increasingly a menace to the community, the difference

between the tenement, as generally understood, and the apartment, being mainly in the kinds of doors, woodwork, wall paper, lighting fix-



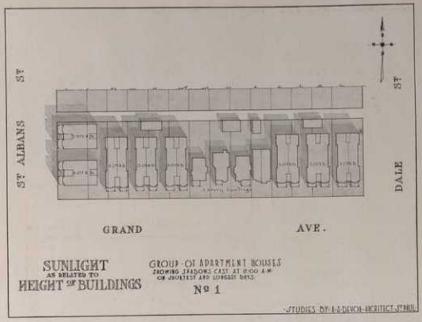
Shack occupied by family with 10 children.

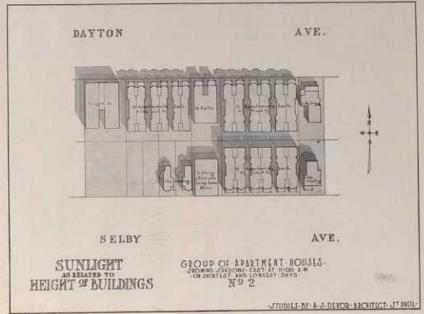
tures, etc. In so far as lighting and ventilation are concerned, the difference seems to be very slight.

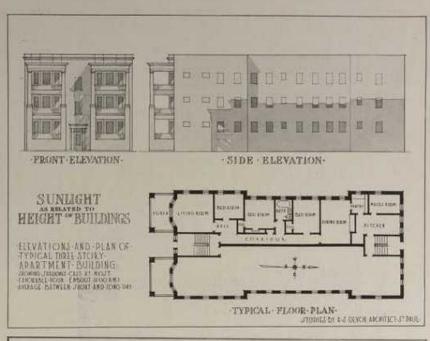
SPECIAL LIGHTING STUDY.

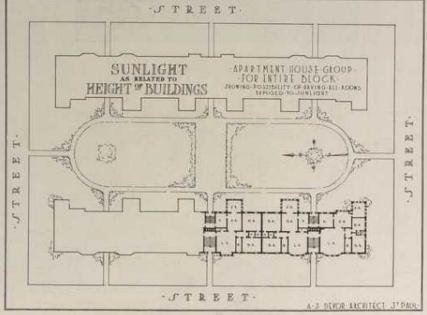
In order to convey some conception of the extent of the problem of lighting in the common type of three story tenement house in relation to adjoining buildings, we have selected two typical blocks of buildings, one between St. Albans and Dale Sts. on Grand Ave., and the other between Summit and Farrington on Selby and Dayton Aves. It will be noted that all rooms on the inside of the lot and in the rear of the lot do not get direct sunshine at 11 o'clock in the morning, which is the time of the maximum sunshine possible on the streets considered. The apartments shown in the half tones have the smallest exposure to direct sunshine, where the proximity of the building is such as to interfere with direct sunlight on the side of the buildings. The two story buildings also are deprived of proper lighting and the desirable effects of the rays of the sun. That the lots are entirely too deep for proper lighting and ventilation can be readily seen by a glance at the half tone on page 48. This difficulty is further emphasized on the north side of the block, which is never affected by direct

sunshine because of the too great occupancy of the lot area, as illustrated by the block of buildings on Dayton Ave. Such construction should be entirely prohibited if the present investment in so called apartments is not to become the foundation upon which new city slums are to find their being. New York's experience in land sweating should lead to far sighted protection of investors against building enterprises, the rate of deterioration of which is so rapid as to impair the safety of the original investment and the whole housing standard of the City of St. Paul. The buildings shown in the half tones are not cheaper because they are crowded upon small lots. The cost of material and labor is the same, the cost of maintenance is the same or greater. and the rate of depreciation more rapid. The only economy is in the land. This economy does not represent a fixed value except as we permit, or do not permit, crowding and land sweating. Land values increase in proportion as crowding increases. The land sweater in one section of the city courts the double offense









of lowering standards of buildings occupying his own property, and in depriving other land owners of the legitimate market for their property. Proper distribution of building only distributes values over a large area in proportion as we distribute sunshine and air. Tenements and land sweating concentrate values as we reduce the sunshine and air in our homes.



Typical new type of cheap tenement construction.

The Lodger Problem

In all housing reform the problems of congestion have been nowhere more acute and more difficult to control than where the lodger evil has come to interfere with the privacy and comfort of the family. This is sometimes due to a desire on the part of the families to meet monthly rentals, but the main reasons for the lodger evil are to be found in the gregarious habits of the foreign elements, and the failure on the part of our cities to provide adequate and reasonably cheap housing accommodations for the unmarried workers and those who have no family connection in the community in which they are working.

Whatever may be said about other communities, the failure to provide housing accommodations for persons without family connection in the community is one of the most neglected aspects of the local problem, both in point of actual provisions and from the point of view of legislative and administrative control. In the latter part of this study we shall discuss more in detail the existing problem of the hotel and rooming house in this city.

Let us consider for a moment the problem of the lodger in the homes which we have been able to study in the course of this investigation. The following table shows the number of families with and without lodgers according to ownership of homes found in the single dwellings and in the apartments.

Table XXIV. Showing distribution of single and multiple dwellings according to ownership and proportion of families with lodgers:

Type	Renters No		Owners No		Total No	
Dw'lling Single	743	278	699	174	1,443	452
Multiple	200	575	1,019	233	3,137	35m

	Renters		Owners		Total	
Type	No	-	No		No	
Dw'lling	Lodgers	Lodgers	Lodgers	Lodger	s L dg rs	Lingits
Single	72,77	27.23	80,07	19.93	70.14	22.86
Multiple	82.45	17.55	53.99	16.01	83.01	16.99
Total	78.81	21.19	81.00	18.74	79.58	20.42

This table shows that there is a greater frequency of lodgers among the families living in rented houses than among owners, the former having lodgers in 21.19 per cent. of the cases as compared with only 18.74 per cent, among the home owning families. It is evident however, that the difference is of no great importance. The most interesting fact, how-

ever, shown by these figures is the greater frequency of families keeping lodgers in rented homes in single dwellings, as compared with the frequency of families keeping lodgers in families renting apartments in multiple dwellings. It is also evident that the owners of multiple dwellings and occupying an apartment in such dwelling are less likely to keep lodgers than if they were owners and occupants of single dwellings.



Basement room occupied by old lady living alone.

This condition, while in a sense favorable to the multiple dwelling, merely indicates that it is less convenient to keep lodgers in multiple dwellings, both because of the limited floor space and because of the difficulty to utilize rooms not intended for bedrooms, for lodging purposes.

This fact is more clearly proven when we

remember that in an earlier part of this report it was shown that the bedroom occupancy, not to say congestion, was greater in the apartments located in multiple dwellings than in single dwellings, despite the fact that there is a greater frequency of families with lodgers in the latter group of dwellings.

NATIONALITY AND THE LODGER PROBLEM.

Table XXV. The relation between nationality and the practice of keeping lodgers has frequently been pointed out in various housing surveys that have been made within recent years in this country. To test the extent of the relationship between these two factors in the houses investigated in the City of Saint Paul the following table was prepared from the data available:

		Re	nters		Owners		ī	amilies	Reuters Families		Owners Familie	
0300000000			F	amilies				With	Families		Families With	
Nationality		ies Only	With	Lodgera	Fami	HesOnly.	To To	ulgers	Only	Lodgers		Lodgers
	No	Per Ct	No	Per Cr.	No.	Per Cu	No	Per Ct.	200	witchest give	Cathelle	POUREER
Americans	317	78,58	93	68,39	9.0	21.42	43	31.61	77,93	22.75	60.63	III all and
Germans	244	61.80	100	56.43	151	18.20	31	43,55	83.9			3133
Scandinavian	240	69.77	24	73.27	105	30,23	22			14.1	H9,95	17,03
Jews	156	56,62	46	50.00	110	43.38	104	36.73	26,45	23,33	79.55	\$0.45
Irish:	100	T3.91	21	72.45	46	26.00		40,01	77,92	22.75	70,70	23,25
Italiana	92	37.01	43	60.56			1.3	27,52	88.18	13.82	85.10	14,81
Negro	04	55.29	22	78,04	69	82.UR	26	39.44	68.15	33.55	11.15	28.85
French	55	82,32			11.	14.71	2	21,00	66.65	33.35	55,00	45,00
Russian	19	71.01	動	74,96	11	16.66	360	23,04	WT.005	32.95	55,00	45.00
Poles	44		24	70.73	20	进机96	0.	27.97	67:14	72.56	68.99	31.01
English		64:74	20	79,74	24	33.26	(A)	20,84	410,15	10.1	92.76	17.24
	324	87.26	7	87,50	0.	133.24	1	10.50	92.0	17.1	53.24	16.66
Syrians	275	TIL48	1.40	80.00	3.0	26.52	1	20.00	86.71	13.79	90.00	10.00
Bohemians	21	42.00			229	-58.00			300.00	1000000	100.00	30300
Roumanians	1.7	68.00	12	80.01	8	32.00	(4)	19.00	38,65	41.35	72.75	
Hungariana	16	69.00			7	211.00		0.0010.00	100.00	35000		27.25
Scotch	7.5	79.95	120	200.00	4	29.05			83.22		100.00	
Mixed	401	71.02	141	75.04	150	29.48	67	24.96		16.68	100.60	
	-	-		22.00	-W///	2010	1000	24,000	73.09	26.00	77.19	22.61
Total	1,020	69,02	5900	T1.53	9400	30.08	252	28,47	76.65	22.75	77.08	35.93

This table is in most striking contrast to the ordinary conception of the lodger evil in relation to racial and national groups. Considering the families occupying rented homes, we find that 586 families out of 2,506 families or 23.35 per cent keep lodgers. This proportion is only slightly above the proportion of families with lodgers classed as American, the latter having a proportion of 22.75 per cent families with lodgers. The largest proportion of families with lodgers was found among the Hungarians who occupy rented dwellings, and the smallest proportion of such families was found amoung the Irish tenants. In the

case of the Hungarians, however, the figures do not have any potent significance because of the very limited number of families of this national group, while in the case of the Irish, the figures are sufficiently large to indicate the trend of the general distribution of lodgers in such families.

The other national and racial groups which stand out in relation to the frequency of keeping lodgers are the Negroes, French, Russians, Italians and Poles in the order of their importance. In all these groups the families kept lodgers in more than 30 per cent of the cases. When we consider the distribution of lodgers in the families owning their homes we find that the American families stand out as keeping lodgers in 33.35 per cent of the cases as compared with only 22.92 per cent of foreign families owning their own homes and keeping lodgers. With the exception of the Negro and French families, the American families owning their homes seem to show a greater frequency of lodgers than any of the other national and racial groups. The problem of the negro in securing adequate housing accommodations leads to crowding and no doubt adds to the lodger evil.

On the whole, evidence that we have gathered in the course of this inquiry shows that the lodger evil is far from representing the acute problem that we ordinarily find in the eastern cities, but as we shall point out later the transient character of the lodger population in St. Paul, and the failure on the part of the City or business interests to meet the local need for accommodating the floating labor has created a rooming house and hotel problem that is as serious as any that can be found in the congested areas of the eastern industrial centers.

SIZE OF FAMILY AND LODGERS.

It is generally conceded that lodgers add to the congestion of the home and interfere with the privacy of its members. The following table gives some conception of the relationship between the size of the family and the number of lodgers.

Table XXVI. Showing the number and proportion of lodgers according to the size of the family;

No.																	
Lodger		2	3.	4	5	4	7.	8	.9	10	11	12	131	15	17		
Eamilie	8															Totals	Per Ct
1	124	tri	31.	- 6	- 12	13	2	1	2	生			1			244	10.61
2	113	-50	36	18	4	.5	2	2	3	(2)	727	1	- 1			540	22,90
(3)	99	56	23	7	3	17	2	3	2	1.22	2	1				483	21.30
- 4	97	4.4	44	- 13	- 5		4	3		2	7.8	1		2		454	20.35
0.00	6.1	128	34)	4	1	3	1	1			1	1				248	10.89
(0)	29	17		7		2	1	1		1					1	169	7.49
T N	34	- 2	3	12	1	- 1										60	2.66
	3.2	12	740	1												38	1,68
9 10 11	3.				2											17	.75
30																2	.00
11					1											- 5	.00
4000000	2000	7.7	-	2.212	-	100	100	-	-	-	-	-	-	-	2		Total Control
Total	486	235	102	88	100	25	5.3	11	77	180	- 26	4.7	12	1/2	31	9.959*	100.00

^{*}Thirty-five lodgers in families size of which was not ascertained accurately.

Table XXVI shows that lodgers are most common in families with few children or at least that 55.98 per cent of the lodgers lived in families of three persons only, and that if we add the families with four persons who also keep lodgers, they accommodate 76.11 per cent of the total number of lodgers found in the course of this survey. The keeping of lodgers in large families is evidently not popular, and in all probability this lack of popularity of lodgers in large families is due as much to

the families as to the lodgers who prefer to live in small families.

Whatever the direct cause of the practice of keeping lodgers in families may be, it would seem that the size of the family with its economic problem of food and payment of rent, which are the essentials of all expenditures in wage earning families, have no very telling effect upon the frequency of lodgers in such families.

LODGERS AND RENTS.

In order to ascertain the influence that the keeping of lodgers may have upon the rental rates in various districts in dwellings of different sizes, whether they be in single or multiple dwellings, the following tables were prepared from the available data:

Table XXVII. Showing distribution of rents according to type of dwelling and district on basis of distribution of families with or without lodgers:

		Apa	rtments	Houses		
		Family Only	Families With Lodgers	Family Only	Families With Lodgers	
District	1	1.78	1.44	2.56	Longers Lan	
District	11	2.68	2.91	2.05	1,76	
District	III	.48	44	1.90	1.43	
District	IV	2.17	2.30	2.32	2.39	
District	VIII	6.40	2,49	2.87	4,54	
District	IX	3.39	2.26	2.59	1.30	
District	X	2.00	2.58	2.45	2,61	
District	X1	2.25		,TE	318	
District	XII	3.06	3.08	2.59	2.97	
District	XIV	2.50	2.50	2.01	1,60	
District	XV	2.72	2.42	0.52	2.47	
District	XVI	33.43	2.35	3.05	10.04	
District	XVII	2.74	3.71	0.21	2.95	
District	XVIII	1.61	1.10	1.07	1,00	

Table XXVIIa. Showing distribution of rents according to size of dwelling on basis of distribution of families with or without ladgers:

	Aparta		Houses				
		Families		Families			
No. of	Family	With	Family.	With			
Rooms	Only	Lodgers	Only	Lodgera			
2 3	21,73	3.27	5.50	1.00			
34	3.57	2.69	0.87	2.51			
14	0.83	2.65	25.65	1.78			
4	2.60	2.62	2.67	2.55			
0.7	0.64	2.90	2.63	2.79			
4 5 6 7 8	2.25	1.93	2.18	2,90			
28	4.38	2.95	2.25	2,72			
	2.22	3.00	2.42	3.13			
10	2.50			2.86			
1.1			2.55	2,09			
12	1.67		.71	1,67			
1.0	100		.77	2.57			
14				2.14			
3.0							
16							
17							
18							
19							
20				2.00			
				77.25			

In the above tables the classification was based on per room rental in order to facilitate comparison between the various sizes of dwellings and to make the comparison by districts more easily perceptible. These figures, of course, eliminate all homes owned by the occupants as it would not have been safe to make estimates of rentals.

When we consider the figures in Table XXVII we find that the distribution of rental rates varies considerably with the location of the districts. The Eighth District, which is by no means one of the best, shows the highest rentals. This district is not only congested, but from the point of view of sanitary facilities it is one of the worst. The new changes in the railroad trackage will do away with a good share of this district. Districts Twelve, Sixteen and Seventeen, which also represent high rental rate, are, as will be seen from the map on page 10, not among the best districts, and yet the rentals are quite high. The most surprising fact, however, is the lack of any clearly definable relationship between the frequency of the practice of keep-



Egress for 75 persons. Hall obstructed.

ing lodgers and rentals per room. That there is some relation between the type of district and the number of lodgers in such districts is evident from the following table:

Table XXVIII. Showing the distribution of ladgers according to districts:

		Lord	gera.
		No.	Per Cent
District	1)	103	4,45
District	TL	213	9.26
District	111	20	131
District	IV	23	3.18
District	VIII	702	20.59
District	IX	215	9,37
District	X	223	14.09
District	XI	49	2.14
District	XII	261	12.26
District	XIV	80	3.48
District	XV	70	2.06
District	XVI	77	3.36
District	XVII	51	2.93
District	XVIII	28	1.92
Total		2,293	100.00

These figures show that the larger number of lodgers was found in the district that is about to be demolished by the railroad, and that the Ninth and Tenth districts are also affected by lodgers. All three of these districts are among the worst in this City, while the First, Second and Twelfth are made up of homes owned and occupied by squatters or are generally in bad condition.

This close relationship between the character of the neighborhood and the number of lodgers is, of course, significant, and observation has shown that many of the homes where lodgers are kept are generally in bad condition of repair aside from being located in deteriorated neighborhoods.

The proximity of these districts to the railroads, shows the need for better accommodations of railroad employees, a need which has been definitely recognized by the railroads but which they have failed to meet except in one or two instances. These provisions are wholly inadequate, and in at least one case, not better than some of the worst of the lodg-



Box-car sleeping quarters.

ing houses of the City, as is shown by photographs embodied in this report.

The large number of homes in which lodgers are kept, and the large number of lodgers who are housed in the area about to be torn down by the railroads, raises another problem of housing which in some way should be met if the present conditions of more or less normal room occupancy is not to degenerate into a very serious problem of congestion. When the properties occupied at the present time by families and lodgers are torn down, these families will have to seek other places of habitation. While there are in some sections many homes that are standing idle, there is no doubt that the families in the area to be removed will move to the nearest sections and will take no steps to change their place of residence beyond a limited area in the vicinity of their present habitation.

How to meet this situation will be pointed out at the end of this report. That a machinery for locating families is necessary can hardly be doubted, especially if we consider the fact that there is no very material difference in the rental rates in good and poor homes, in so far as repair is concerned, and that there is a very large proportion of homes that are at present unoccupied.

The Lodging, Rooming Houses and Hotels

GENERAL CONSIDERATIONS.

It has been pointed out in the section on "The Lodger Problem" that the extent of the practice of keeping lodgers does not present a very serious evil in the City of St. Paul. If, however, the problem is not serious in the private homes where lodgers are kept, conditions found in the rooming and lodging houses, ninety of which were covered in the course of this inquiry, revealed a local situation which in lack of sanitary and safety facilities can hardly be surpassed by any other city in the United States.

As the investigation progressed, various aspects of the problem came to light, but the limitation of time and the feeling that such problems as prostitution and illegal liquor traffic were rather removed from housing as it is ordinarily understood, these phases have not been taken under consideration. That the character of some of the rooming houses and hotels studied was such as to unfit them for other than illicit use was quite evident.

Some conception of the extent of the investigation of rooming houses and hotels may be gained from the following table:

Table XXIX. Showing lodging houses investigated according to number of rooms and total rooms.

Number of Rooms	Total Number each Size of Hotel Total	Number Rooms
6-10	10	91
11-20	33	166
21-20	1.6	480
31 and over	31	1432
Total	90	2569

Ninety hotels and rooming houses selected from the 150 hotels and licensed rooming houses in the city represent 60 per cent, of the total. In our study we made an effort to include all types of establishments in order to show the extent of the present inefficiency of the inspection system, which is no doubt due to inadequate appropriation and the recent changes in the organization of the Hotel Inspection Department as a part of the Department of Oil Inspection. Forty seven of the establishments examined contained more than twenty rooms and the total of such establishments contained 19120, or 74,42 per cent, of all the rooms examined. In other words, whatever conditions were found related mainly to large establishments. What



Rooming house shack in Midway district.

the existing conditions were we shall point out shortly, but before we enter upon a discussion of conditions we must say a word about the prices charged. This is made necessary by the frequent statement in defense of the poor condition in hotels and rooming houses that there must be some place for the men and women who cannot pay more than five or ten cents a night. That such a place may be necessary is not to be doubted, but whether the strikingly poor conditions that exist are due to low rates needs corroborative evidence.

In order to present in detail the classification of rates according to sizes of establishments and classification of rooms the following table was compiled from the original records made in the field. Unoccupied and dormitory rooms were excluded.

Table XXX. Showing classification of establishments studied according to size of establishment, rates and location of rooms in relation to lighting:

Size of	Total				Cost Per Roum Per Night									
		Rooms		C	2	90	25		- 2	0c	-7	5c	4	:50
House 6	Jutuide	Inside	Out.	In.	Out	In.	Chit	In	Out.	In.	Out	In.	Out	In.
0-10 Rooms	90	180	100				17	-31		1	-	1100		
11-20 Rooms	282	102					99	223	15.		26	8	41	791
21-30 Rooms	237	117					19	20	14		15	121	19	- 2
Over 30 Rms	L 5/7H	399	32	6	20	61.	8	70	34	1200	81	37	47	- 5
Take Contract	77.52.000	THEFT	-	-	-	775	-	-	-	-	745		-	1
Total	1,757	646		70	24	62	407	338:	437	28	129	50	107	19
"" of which	are 17	SIDE	RMS					15	of whi	ch acc	INSII	DE R	MS.	

Size of		ñc :	101	No.	71	ic	\$1.0	0	\$1.50		\$2.00		50.0	oro :
Lodging House	Out.	In.	Out.	In.	Out	In.	Out	In	Out	In.	Our.	En.	Ont	In.
n-in Rooms	15	110	1		5		10							
11-20 Rooms	413	6U	24	121	49	20	0.00	3.00	55		41		4	18
11-20 Rooms	15	-60	19		-46	17	130	122	1	13	2			
Over 30Rooms	300	193	53	2	- 92	20	163	(20)	619	4	37	-33	15	
	344	-	-	-	-	-	-	-	-	-	-	See	-	-
Total	210	230	81	- 81	192	900	493	247	184	50)	(20)	38	9	- 31

Perhaps the most interesting fact revealed by this table is the large proportion of inside rooms which totaled 646 or 26.88 per cent. of all the single rooms examined. This astonishingly large proportion of inside rooms was located in most instances so that artificial lighting only was possible. The ventilation, as will be shown later, was also difficult or impossible.

When we consider the rates charged for these rooms we find that out of a total of 1491 outside rooms only 109, or 6.35 per cent, were rented at rates of 25 cents or less, and that there were no rooms renting for 10 cents per night. In the case of the inside rooms it was found that those renting for 25 cents per night or less amounted to 185 out of a total of 635 inside rooms, or 29.13 per cent. These proportions would seem to indicate that the cheap rooms are mostly inside rooms, quite undesirable and as we shall see from later discussion, in many cases quite unfit for occupancy. The largest proportion of the rooms in these sec-

ond and third rate hotels and rooming houses were of the type renting for between 30 and 50 cents per night. In this group we found 50.68 per cent, of the inside rooms and 32.95 per cent, of the outside rooms. These figures do not seem to warrant the argument that the cheap lodging house and hotel with its disproportionate number of inside rooms is run for the benefit of the poor who can not afford to pay more than 10 cents per night. If such a need does exist it is clear from the above figures that it is not being met.

Perhaps the worst conditions were found in the dormitory rooms of which twenty in all were examined. In these twenty dormitory rooms, of which 3 were inside dark rooms, 223 beds were found, and of this number of beds 149 rented at 15 cents per night, the balance renting at from 20 to 50 cents per night. The condition of the beds and bedding in some of these dormitories is a menace to the health of the occupants, and some of our photographs, altho faithful to the conditions, fail to

reveal the true conditions of ventilation, lighting and cleanliness, or rather the lack of all of these.

As it was stated at the beginning of this chapter, it is not our intention to deal in this report with the liquor problem or the problems of immorality. A close study of the conditions, however, reveals the fact that a conservative estimate of 50 per cent. of the hotels and rooming houses in the City of St. Paul derive either one-half or the whole of their income from illegal liquor selling and from the

traffic of prostitution carried on either directly by the owners or managers, or simply by renting rooms to street walkers who utilize them for immoral purposes.

An analysis of the physical conditions of the buildings shows a remarkable fire hazard which is easily controllable under the State laws, an unusual amount of neglect to control sanitary conditions which are under the jurisdiction of the State Hotel Inspector, and general health conditions which could easily be controlled by the Health Department of the City of St. Paul.

While the statistical data presented in this report gives some impression of the conditions



Shack converted into hotel in Midway district.

that exist, the field notes made in the course of the investigation are perhaps more valuable in presenting a diagnosis of the situation than the statistics which we have been able to gather. It is for this reason that some of the field notes have been copied in their original form with such abbreviations as seemed immaterial in presenting an accurate picture of the conditions. It should be remembered that these statements in many instances have been verified and police records examined. Any one personally interested in ascertaining the hotels to which reference is made in the following notes can obtain such information through the Real Estate Board of the St. Paul Association or through the Wilder Charity.

NOTES TAKEN ON LODGING HOUSES AND HOTELS

_____, ____ E. 7th St.

Ten dark inside rooms out of a total of eighteen rooms.

-, - E. 7th St.

When we came to proprietor's kitchen, found four girls—not in street attire. Notice scale prices; \$1.00 is charged for an inside room and \$1.50 for one little better than an inside room.

-, - Jackson St.

No fire escapes on third floor, wooden steps down to ground from second floor, rear. Roof is old and leaks. Proprietress called investigator "DEAR" in answering questions. No sitting or recreation rooms.

-, - E. 7th St.

This woman—who looks like a sport—says she is continuing the place "temporarily." That the owners asked her to keep it until "changes are made." It may be she has been raided by the police. She has a "Furnished Rooms" sign in the window, the place looks decidedly suspicious and she reluctantly let investigator look things over.

, - E. 5th St.

Place was raided some months ago as a disorderly house. No sitting room.

-. St. Peter St.

Disorderly place. She may have 3 roomers by the week, but all other rooms are evidently rented over and over again to transient couples off the street.

-, - S. Wabasha St.

For bed-bug conditions this place is one of the worst. Proprietor frankly says building should be condemned. It is an old-time wooden structure, without fire escapes. In the yard is a long wooden stable which adds greatly to the fire hazard. Proprietor says he would not sleep in the rooms himself because of the bugs.

— W. Exchange St.

Notwithstanding this is a wooden structure 3 stories, all the fire escapes there are is an iron ladder in the rear. Wife of proprietor says owner positively will not make needed repairs, and frankly says the building should be condemned so as to force owner to act.

-, - St. Peter St.

Three prostitutes appeared from as many rooms, evidently looking for trade. When proprietor showed investigator around later, she deftly omitted showing these rooms from which the women emerged.

- W. 7th St.

This place is in an old, falling-into-decay building where there is considerable fire hazard—yet no fire escapes.

. - Exchange St.

This place has had an unsavory reputation in the past as being rooming place of so-called "high-class" sporting women and kept women.

-, --- Wabasha St.

Proprietor is a fat, coarse, talking and acting woman, going around in a kimona. Her manners are those of a "Madam." Regarding extra dark, miserably ventilated inside rooms on third floor, chambermaid explained: "Oh, these rooms are all right if the girls wants to stay in here a little while." There are four inside rooms not fit for use as sleeping



Steep stairway in down town hotel.

rooms. Back yard is extra dreary and dirty. She has no definite business standards—for instance—a rear room 8x10 with single bed is placed at \$1.50. This to investigator is conclusive proof that she is not running a legitimate hotel. The only fire escapes are wooden stairs in rear—not adequate. Paper and rubbish has been thrown out back of a restaurant, increasing fire risk. A passageway out to W. 9th St. would be very difficult to find at night and especially if a fire was on, and yard full of smoke.

-, - University Ave.

When it is remembered that from 160 to 300 rough men center in here from the various sleeping places, the washroom can be imagined and the towels which are like those in a fourth class printing office.

- University Ave. In rear of about University Ave. with same proprietor. Their beds are placed 20 inches apart up under slant roof. On hot afternoons the air is vile. It is inhuman to ask thirty men to sleep in such a place. Men wash at another hotel. Place in which men sleep is fully as bad as anything we bave found in the city, building is wooden, ramshackle and has rickety outside stairs. One man told me

that many men move simply because they cannot endure such sleeping conditions. The first floor is in such extra had repair it is not used now. Windows boarded up. One in passing would never imagine house is used at all. Over large room has been written in chalk "Hotel de Bum". Outside downstairs some one has chalked: "All who inter this home leave all hop behinde," A refuge comparable with the famous sewer lodgings of Paris.

Annex -

Investigator found beds all torn up. Man who takes care of rooms said had been burning sulphur—"to kill bugs." Air was still so bad one could hardly breathe. This man said; "Pretty rotten, huh?" Evidence of much drinking in rooms.

Annex -

It would hardly be possible to overstate conditions in this Annex and one side of Annex — There are no fire escapes. Paper and rubbish in hall—increasing fire risk. From number of whisky bottles it is evident there is much drinking in rooms.

-, - Minnesota St.

No sitting writing-recreation room.

—, —— E. 7th St.

This place is run by two women. The -



Rese exit of hotel. Gate focked.

one who showed investigator round is the confidential sort and decidedly suspicious. Wanted investigator to "send her some business." Without doubt her second floor rooms are rented to transient couples. She was wholly unable to explain how it comes she charges \$1.00 for a nice large room with two great big windows and the same for a 6x8 room. No sitting room.

- E. 8th St.

An assignation house. In most all rooms may be seen the little wash basin used by women. While investigator and proprietor were talking by the office, a painted prostitute stepped into stairway with a man. Seeing us he fled. When investigator came down in a minute and passed out, she ran after her victim, pulled his coat, trying to induce him to come with her—but he refused, whereupon she cursed him. This in broad daylight. Proprietor claims he has men roomers.

- E. 7th St.

Proprietor would have investigator believe he has laboring men roomers. Proprietors of lodging houses around him say he has a few rough fellows on 4th and 3rd floors, but caters to the "Couple Trade"—many of them disreputables. There are no fire escapes. Brick building. Wash rooms, poor condition. Roller towels. Evidently much drinking going on. Empty beer cases about in halls. Men staggering up to their rooms.

-. - Minnesota St.

Proprietor was in a hurry to say he has "most all men roomers." This place formerly was raided at different times and has frequently changed hands.

-. - E. 8th St.

This dirty place certainly does not deserve the name "Hotel." It is a fire trap. Men asleep in little coops on 4th floor would not have one chance in a hundred to escape, should fire break out. The whole building is a make-shift, an old wooden structure made over—making it exceedingly difficult to keep clean. This proprietor owns also the — which has often had trouble with the police.

-, -- E. 7th St.

To stow away 62 men in 12 rooms and in such foul conditions is criminal. Investigator would consider Fire Marshal could stop use until changes are made. Wooden steps in rear to ground only fire escape. In case of fire men would be trapped in inside rooms like rats. Inside rooms, roller towels (foul condition) and vermin. In two rooms they were burning sulphur.

___ Jackson St.

No fire escapes. Rope appliance in several rooms so occupant may lower himself to ground. Wooden steps from 2d floor to ground in rear.

_____ E. 6th St.

-. - E. 5th St.

Was closed for a year under Abatement Law. Gas is used. Man lost his life about month ago-overcome by gas.

. — Vandalia.

No fire escapes. Lamps are used in hotel and shacks. Whisky bottles all around and 5 cases empty beer bottles in entry of hotel. Roller towels (filthy condition) are used in defiance of State Law.

-, - Hampden.

These Midway Hotels are all run on about the same plan. Many rooms have large whisky bottles. 13 regular beds and 3 singles up in attic right under roof.

-, -- E_ 3rd St.

Women there—Chief said they hung out windows. Gave warning to manager.

, - Rosabel St.

No fire escapes.

-, -- E. 8th St.

This old woman (in explaining cancellation of license) frankly admits she let immoral women frequent the place and bring men there.

-, - E. 7th St.

Serious fire hazard. Movies on first floor. Fire broke out in picture show and threatened building.

---, ---- W. 4th St.

Big fire risk.

-, - E. 3rd St.

A marked fire hazard.

, - Como Ave.

Grave fault is that many of the locks are old, could scarcely unlock door. In case of fire this might cause loss of life.

-, - Wabasha St.

Charitable Institution has long been known as not conforming to standards. Old Opera House made over: Fire Marshal condemned it. Sleeping rooms were found on either side of dirty toilets.

- Jackson St.

Restaurant in this place called "——" and one can feel the free and easy conditions of hotel upstairs. Much drinking in rooms.

Four people sleep in some of the inside rooms during rush times. . - Wabasha St.

This is unquestionably one of the dirtiest places, morally, in town. There are ten inside rooms. The yard needs attention.

- St. Peter St.

Few hotels are better fitted out or better kept. It is unfortunate that the moral condition is so much below the physical condition.

-, - E. 7th St.

Building is old, everything dirty. No chamber maids employed—beds made by men. Roller towels. In several rooms the sunlight never enters.

_, __ E. 3rd St.

There are no rooms,—simply cots. One water closet of two compartments may accommodate 100 men. In winter men pay 10 cents to sleep on floor of office. Roof leaks terribly. Rear windows pailed at top, increasing fire risk.

- E. 7th St.

No fire escapes. Manager explains they do not need them, since the men can escape to roof of adjacent building and go over two or three buildings where they will find fire escape to ground. No wash room on 4th floor. One on 3rd floor.

, - W. 4th St.

It rises in the rear to 3 stories. Fire trap. Narrow wooden stairs. Absolutely no protection against fire. Smoky, dirty lamps used. The proprietor has been arrested many times for violating liquor laws.

____, ___ Minnesota St.

Investigator learns license was cancelled because of bad moral conditions. While they are supposed to rent only by the week, it seems some rooms are still rented by the day to transient couples.

- Camp near Midway Transfer,

This camp has sleeping quarters in 5 cars on a siding. One car contains 20 bunks (singles) in doubledeck iron frames. There are 16 little windows 2x2 (screened) and side doors are left open for ventilation. Bunks dirty, poorly cared

for. One car has 18 double-deck frames containing double beds accommodating 4 men each, 32 in ear. 8 little windows, 18 inches by 24 inches. But one side door open. Dirty, poor beds. Another car has provision for 32 men. Regular sized beds, double deck. Car about 10x55 ft. 8 small (18x24 inches) windows and one door left open. One mattress badly torn. Beds bad condition. The next car is smaller, 9x36 ft. Contains 24 bunks. Has but four little windows (21/2x21/2). Doors open. Roof of car is low. Man who showed me around admits bunks have bugs in them. He says the average time a man stays is less than 10 daysthat men come and go. The fifth car is same size and style as the 4th-provision for 24 men. Only three 21/2x21/2 windows and an end window 2x4 is screened. Only one side door open. A yard toilet structure is used by some 80 men, and is in rankest condition-a positive nuisance. Men wash in a long, low wooden trough. Roller towels extra dirty."

If, as it appears from the above statements, a considerable share of the rooming house and hotel accommodations in the City are used for illicit purposes, the problem is not one of shortage of accommodations, but one of weeding out unnecessary and obnoxious establishments, an intensive vigilance, and a control of the remaining establishments which do, so far as possible an honest business. This would reduce much of the fire hazard and save considerable in the difficulties now encountered by State and City officials in the control of vice

and the liquor traffic.

That the war should be a strong impetus in stimulating drastic action is recognized by every one. If we are to retain our training camps and assist in maintaining a high standard of efficiency among the men who have come to this City for purposes of military training, the first step in the direction of increasing the control over the present situation, in so far as drink and morality are concerned, is the closing up of superfluous and law breaking hotels and rooming houses in the City of St. Paul.

LIGHT AND VENTILATION.

The problems of light and ventilation in hotels and rooming houses are mainly structural. The occupants do, of course, determine for themselves as to whether they care to use the existing ventilating facilities when such ventilation is to be provided by means of doors and windows; but the inadequacy of the provisions for both lighting and ventilation depends upon the character of the building and its location in relation to other buildings. The following Table shows the distribution of rooms according to light and ventilation.

Table XXXI. Showing distribution of rooms according to light and ventilation by size of establishment:

Number of		Light						Vent	listion			
Rooms in Ho	3250	Light	No 1	light	G	nod	F	nie	В	ad	Ver	y Bad
	No.	%	No.	96	No	55	No.	%	No.	1/2	No.	56
6-10	48	70.15	15	22,82	27	42,82	10	20.04	11	17.47	12	19.07
11-20	401	75.34	131	24,00	326	61,25	0.7	12.00	27	5.07	112	21,08
21-30	283	72.46	108	27.51	267	68.29	122	3.06	10	4.09	96	24.56
30 and over	965	68.78	439	31.22	920	08,46	103	11,03	63	4.49	365	26.02
	1	-	1000	2000	-	277	-	-	200	-	-	773
Total	3.697	71.05	69.5	25.95	1440	60.27	2042	10.55	117	4:89	5885	24.49

The above Table reveals the fact that 692 out of a total of 2394 rooms, or 28.95 per cent. were dark. Of these rooms some were completely devoid of light and had no windows to the outer air, while others had windows opening onto narrow passage ways or shafts. These dark rooms provide accommodations for 1006 persons. With almost one-third of the rooms dark it is needless to comment upon the need for more rigid law enforcement, and the closing up of a very considerable number of these rooms so that they may not be used for purposes of housing lodgers. That the frequency of dark rooms increases with the increase in the size of the establishment is evident from the above Table, which shows only 23.82 per cent. dark rooms in establishments of less than ten rooms, and 31.22 per cent. dark rooms in establishments of more than 30 rooms, with a gradual increase between these two extremes.

The condition of bad ventilation corresponds in frequency to the frequency of bad lighting. Only 1440 rooms out of a total of 2389 rooms examined for ventilation were adequately provided with means of changing the air either by some method of artificial ventilation or by means of windows and doors. As in the case of lighting, the greatest frequency of the worst provisions for ventilation

were found in the hotels and rooming houses with 30 rooms or more. It must be said, however, that there were a very considerable number of small establishments with rooms badly ventilated (17.47 per cent).

The whole problem of lighting and ventilation is intimately related to the fire hazard. Dark alleys, air shafts, and dark rooms are the true measure of the fire hazard represented by the rooming houses and hotels of the City of St. Paul.

We cite below some of the most important cases of conditions which represent fire hazard. Sufficient to say that out of a total of 47 establishments with more than 20 rooms, 26 were found to present a serious menace to occupants in case of fire. Absence of fire escapes, locked back yards with narrow obstructed front exits, nailed up windows, keys that do not work without a great deal of manipulation and effort, halls obstructed by furniture or beer cases, and similar conditions were found, and no control seems to have been exercised to remove these conditions.

The difficulties in the way of enforcing legislation through the State Fire Marshal and the State Hotel Inspector seems to be mainly lack of funds. The law is quite adequate for the removal of the most flagrant abuses at least.

Valuation of Properties and Revenues

In considering the valuations of properties we were compelled to resort to the only source of information available and which is perhaps both most reliable and has been made on a basis that has some scientific value, namely, the Assessor's Office of St. Paul.

On the basis of these figures we were able to secure information relative to gross returns in rentals obtained from three classes of property, namely: single dwellings, two family houses and three or more family houses which are ordinarily defined in housing legislation as tenements.

In order to avoid misinterpretation of figures, all properties which contained stores and where the value of the store could not be separated from the rent of the building occupied for residential purposes and also in order to avoid confusion due to unlet property, we have included in our calculations only such properties as were actually and fully occupied for residential purposes.

The total amount of property values considered was \$3,458,533 and the rents from these properties should be about \$333,829,20, or a rate of 9.66 per cent gross. This rate is not

excessive, if the conditions were the same throughout and the people were getting proper accommodations. As we generally conceive of rental rates in the poorer section of American cities, and considering the cost of maintenance, the amount of repairs that are needed, at least sometimes, in order to save the property, if not to save the health of the occupants, the taxes, water rates, etc., would seldom leave more than from five to six per cent clear, which for this type of property is quite

low. To what extent the valuation recorded by the Assessor corresponds with the actual values of the property we are not prepared to say. Those familiar with local conditions are in a better position to furnish such information.

That all properties did not yield the same rate of revenue is evident when we consider one, two and three family houses separately. It was found that on this basis the single dwelling yielded a gross return of 6.31 per cent as compared with 12.06 per cent for two family houses and 11.87 per cent for dwellings with three or more families. This rate of annual return is especially interesting because it shows that the best paying property is not, as is ordinarily assumed, the tenement with three or more families, but the two family house, which is frequently occupied by the owner and one tenant or only by tenants.

While the ideal home is the one family building with private yard and with light on all sides, the alternative of two family houses seems to be satisfactory as an investment and is, of course, far superior to the tenement which is so undesirable for sanitary as well



Junk yard surrounded by dwellings.



Junic dealer's store and home.

as social reasons. It is understood, however, that from the point of view of the real estate owner two-family houses built as a duplex are not profitable and do not offer a good market.

That the rate of revenue shown for the whole of the area studied does not hold true of some of the individual districts is shown by the fact that District II, which is classed as poor and deteriorated, showed practically no difference between the rental rates of tenements and two family houses, the former yielding an average rental rate of 12.08 per cent as compared with 12.28 per cent for the latter. District IV, which is fairly good, but where the one and two family houses are mostly old structures, while the multiple dwellings are of more recent construction, shows a rental rate of 13.36 per cent for tenements and only 7.85 per cent and 9.80 per cent for one and two family houses respectively. That the tenements being new should yield a high rental rate was to be expected, but as tenements deteriorate more rapidly than one and two family houses this rate can hardly persist for any considerable length of time.

The other two districts which show a rather abnormal distribution of rentals was found in Districts X and XVII. In the Tenth District the rental rate ranged from 10.64 per cent

for one family houses to 13.06 per cent in two family houses, and 14.46 in the tenements, while in the Seventeenth District the rentals ranged from 12.61 per cent in single dwellings, 14.36 per cent in two-family houses and 15.81 per cent in tenements. These districts in which the tenements are such paying investments were among the worst found in the City of St. Paul.

The other districts did not deviate materially from the general rental rates revealed

by the figures relating to the entire area considered in this survey. The tendency toward tenement construction, which, as has been shown, does not pay on the average as well as the two family house, is due in many cities to the need for congestion caused by limited land areas available for the building of homes.

Table XXXII shows the distribution of land areas by districts according to occupancy.

Table XXXII. Shows the distribution of land areas according to districts, according to occupancy:

District	Unoccupied	Per cent	Occupied	Per cent
1	818,000	50.05	816,700	40.05
11	948,450	27,82	2,450,625	72.18
111		2744	*******	2444
IV	665,000	46.65	761,950	53,85
VIII	176,475	13.67	1,114,025	56.33
1X	481,125	24.61	1,472,000	75,39
X	1,189,789	25.58	2,974,688	71.42
XI	454,592	19.91	1,945,653	80,09
XII	257,375	14.55:	1,512,265	85.45
XV	510,005	45.78	612,450	54.22
XVI	215,825	11.32	1,600,150	38,65
XVII	005,847	02.38	3,157,185	77,62
XVIII	260,823	43,35	352,300	56.05
	0,028,528	26.85	18,860,891	\$3.15

With 26.85 per cent of the area studied unoccupied the problem of congestion is far from becoming serious especially if we remember that these are the most congested residential areas of the City of St. Paul. The

opportunity for a concrete demonstration of the possibilities for the construction of cheap, comfortable one or two family houses which would stand out as an example of good planning for the actual needs of the people of a given district, is nowhere more imperative and favorable than in the very districts in

which so much squalor, dilapidation, neglect and bad management were found. From the point of view of its availability, there is no land problem in the poorer section of the city, although there is a distinct and growing problem of congestion of buildings, as we shall point out later.

VALUATION OF LAND AND BUILDING.

It has been shown that 26.85 per cent of the land area in the districts we have studied is non-productive. When we turn from the measurement of the unoccupied area to its valuation we find the following:

	Table	XXXIII.	
	LANI) VALUES	
District	Unoccupied	Occupied	Building values
-1	\$142,575.00	\$197,900.00	8346,965.00
-11	133,656.00	364,325.00	797,050.00
IV	50,200.00	105,730.00	259,825.00
VIII	96,130.00	.000,500.00	288,450,00
TX	45,850.00	#33,325.00	726,700.00
X	92,000.00	406,600,00	1,068,725.00
XI		39,510.00	9,795.00
XII	67,155.00	441,580,00	975,050,00
XIV	34,500.00	149,222.00	456,433.6n
XV	37,375,00	76,800.00	258,170.00
XVI	31,850.00	207,275.00	615,225,60
XVII	69,130.00	425,773,00	1,135,750,00
XVIII	5,350.00	31,300.00	36,350.00
Total	8739,285.00	\$3,949,570.00	\$7,184,090.00

These figures show \$739,285 worth of land out of use or 15.75 per cent, of the total valuation of the area studied for which we were able to obtain a more or less accurate estimate of values. The proportion of values of unused lands does not correspond to the proportion of the unused area. Whether this is due to a lower assessment on unused land or whether the unused areas are less valuable we are not competent to judge. The assessment of the occupied land averages about 21

cents a square foot, while the average assessment on unoccupied areas is 16 cents a square foot. This low value of properties suggests the very pertinent question of facilities for parking and playground areas which at this time could be obtained by the municipality at a very low cost, especially as those districts are most in need of more ample and more strategically located playground facilities, both because of the greater congestion of population and because of the marked differences in the character of various unit areas which form distinct social and economic strata. Table XXXIII presents another rather interesting feature to which attention should be called, namely, the relation between assessed valuation upon land as compared with the buildings or so-called improvements.



Bakery with barn attached, Filthy surroundings,

The total valuation of the occupied land is \$3,949,570, while that of the buildings is \$7,184,090. In other words, the value of the land is 35.45 per cent of the total valuation of built up areas. This is greatly out of proportion with what is ordinarily recognized as a standard of land value in relation to

houses in areas where strictly tenement property, such as we see in New York or Boston, has not yet developed. Twenty to twentyfive per cent would be sufficient value for the density of population and extent of congestion of buildings such as we found in most of the areas studied.

LOSS TO THE COMMUNITY DUE TO NON-USE OF PROPERTY.

The impression conveyed to one examining, even superficially, the areas to which this housing survey relates, prompts one to refer to the waste due both to unoccupied territory, and to unoccupancy of buildings with a view to interpreting the facts in terms of social values.

In an earlier part of this report the frequency of vacancies and losses of rentals through such unoccupancy was referred to. The figures compiled in connection with the earlier discussion, however, relate to dwellings alone. The following table deals with all rentable properties, including stores, pool-rooms, etc.:

Table XXXIV. Showing total rentals for month received and lost through accupancy, by

TREE TO SEC.				
	R	ENTALS		
District	Unoccupied	Per cent	Occupied	Per cent
1	8254.00	833.99	\$1,562.00	86.01
- 11	566.50	15.11	4,569.23	84.89
III	34.75	23.01	116,00	76.99
TV	282,75	15,84	1,497.58	84.10
VIII	522,00	7.05	6,882,00	92.95
1X	934,00	10.0	4,679.30	93.5
X	948.00	20,45	3,679,00	79.55
XI	34.50	7.8	407.50	92.2
XII	893.25	10.82	7,337,00	89.18
XIV	288.00	19,15	2,573.75	89.85
XV	219.50	9.59	2,066.75	90.41
XVI			1,292.10	100.00
XVII	217.25	6,37	3,189.60	93,63
XVIII	32.25	12,1	234.50	87.9
Total	EX1675	11.99	40,406,53	68.01

A glance at the above table shows that \$5,516.75 is lost every month because of unoccupancy. This means a loss of \$66,201.00 per year in rentals from unoccupied properties, and in the Third and Tenth Districts the loss through failure to rent exceeds one-fifth of the total rentals collected in those areas. When we add to this loss the unproductive values in land, we have a very considerable



Mushroom caves and manure piles near homes.

problem which adequate organization of the real estate interests, the development of promotive social methods of construction of homes, combined with social rent collection might, at least partially, obviate. The cost of such organization and focusing of effort in the direction of making property productive would be trifling compared with the losses that keep multiplying and increasing with every additional year.

Relation Between Housing and Other Social Conditions



Map showing distribution of cases of dependency dealt with by the United Charities of the City of St. Paul in 1918. Prepared by C. C. Stillman.

It has frequently been shown that the improvement of housing conditions is co-extensive with the improvement of the physical, mental and moral conditions of the people whose homes have been improved. The effect upon the death rates, the morbidity rates, the physical development of children, the rate of

crime, etc., due to the removal of families from slum areas into garden city communities has been proved beyond a doubt. Within the scope of this inquiry it was not feasible to undertake a lengthy inquiry into the relation between various social factors and housing. We were, however, able to study the distribution

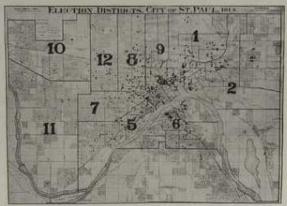
> of cases of relief, cases of tuberculosis and cases of juvenile delinquency in relation to the areas studied, and which on the whole represent the major portion of the most poorly housed families in the City of St. Paul.

> The accompanying maps show the distribution of cases of relief, tuberculosis, and juvenile delinquency dealt with by the United Charities, the Tuberculosis Division of the City Health Dept. and the Juvenile Court, respectively.



Map showing distribution of cases of tuberculosis in 1916 in the City of St. Paul. Prepared by Miss Virginia Rice.

While the distribution of cases does not correspond exactly with the geographic areas studied in the course of this survey, the concentration of cases in these areas is such as to warrant the conclusion that a close relationship between those factors does exist.



Map showing juvenile delinquency cases in 1916 in the City of St. Paul, Prepared by Dr. A. J. D. Haupt.

HEALTH AND THE CITY BUDGET.

Housing is a health problem and the control of housing conditions depends, at least in part, upon the amount of money available for inspection and prosecution of cases of insanitation found in the community. An examination of the budget of the City of St. Paul shows that there has been a general increase in appropriation of \$279,557,20 in 1917 over 1916, or 9,77 per cent. On the other hand the increase in the appropriation for health work in St. Paul for 1917 as compared with 1916 was \$4,260 or 6.65 per cent or less than the increase in the total budget.

A comparative study of the cost of health work per person in the various cities of the class of St. Paul shows that while the average per capita cost of health work in cities of between 100,000 and 300,000 population was 31 cents, the average per capita cost in St. Paul was only 25 cents.

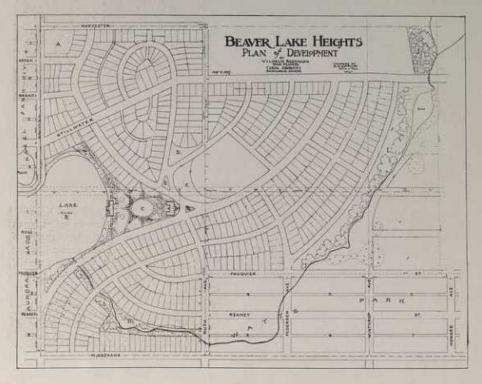
We have cited these figures as indicative of the fact that on the whole, the health work of the City of St. Paul, which includes housing control, is far below the average in financial resources for such work, even though the Department of Health may be highly efficient.

Achievements to Date

It was the policy of the Housing Commission and the Director of this Survey to avoid giving unnecessary publicity to the information gathered in the course of the investigation. This was necessary in order to make it possible to enter the homes for purposes of investigation. There were, however, conditions which seemed so flagrantly dangerous to the health of the occupants as to place upon the Commission the responsibility for reporting the conditions in order to secure action on the part of the Health Department of the City.

In 31 instances definite reports were made to the Health Department and in most cases satisfactory action was secured. In the course of the investigation, owners became aware of the dangerous conditions that existed in their properties, and improvements of more or less extensive character were made. This was especially true of the improvement of toilet facilities, and the removal of waste that was either dangerous as a fire hazard, or as a menace to health. In many instances, conditions found to be especially objectionable were found to have been removed at the time of a second inspection, and this action was taken without interference on the part of the Housing Commission or its representatives.

At the time of the investigation it became apparent that the method of street development, particularly in the poorer sections of the City, tended toward the monotonous "grid-



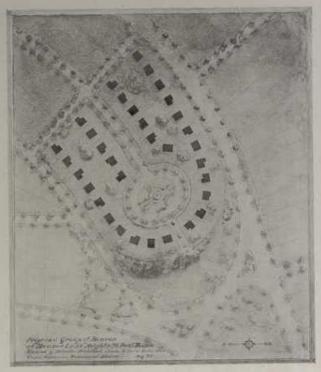
iron" system, which is wasteful of land and wholly unattractive from the esthetic point of view.

As an experiment, the area located in the proximity of Beaver Lake was laid out under the supervision of the Housing Commission, with the assistance of Mr. Wilhelm Bernhard, of Chicago. This plan, with some modifications, was accepted by the City, and a number of small cottages are already being constructed in this area.

A cut on page 70 shows a general plan of that area as laid out by Mr. Bernhard, with the co-operation of the writer. Whether the homes constructed in this area will be up to standard from an architectural point of view

will depend entirely upon those who are financially responsible for the promotion of this enterprise.

It was hoped by the Commission that before the completion of the Survey, a Housing Association would be organized for the purpose of building cheap and attractive workmen's homes, and with this object in mind, an option upon six acres of land, to be used for the purpose of constructing a number of such homes was secured from the owners of the Beaver Lake area mentioned above. Through the kindness of Mr. Thomas G. Holyoke, an architect and member of the Housing Commission,



Proposed grouping of houses on six acre grounds.

a tentative plan of the development of the six acres upon which an option was secured, was prepared, and a number of drawings and sketches of houses were submitted.

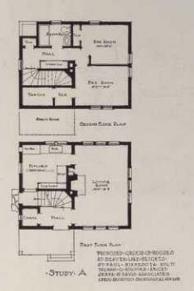


Small Wage Earner's Home

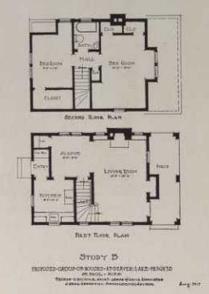
In the preparation of these plans and sketches, the needs of a workman's family were considered in relation to the high cost of materials that prevails at the present time. The average cost of the houses, sketches of which are presented in this report on this page is between \$2,500 and \$2,800, on the basis of prices prevailing on October 17th, 1917. It must be admitted that these houses are above the standard generally included in a survey of housing conditions such as are dealt with in this report, and also, that these houses are above standard both from an esthetic and from a practical point of view and compare very favorably in cost with houses that would command small investments and which are highly unattractive and ill adjusted to the American homes of the wage earning class.



Studies of room arrangement for wage earners' homes.

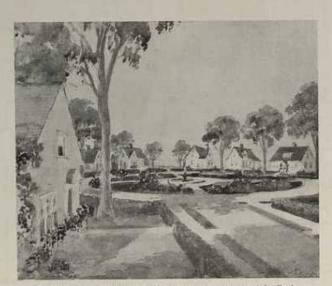


Study of room arrangement for wage earners' homes.



Study of room arrangement for wage earner's home.

It is to be regretted that housing reform is ordinarily confined to slum areas, and does not contemplate as a rule, the improvement of the standard of attractive homes for all of the people. It must be admitted, nevertheless, that improvement in the housing conditions of one class of wage earners, however highly skilled they may be, if it does not involve an increase in the cost of such homes, is bound to have a beneficial effect upon the community as a whole. It is for this reason that the plans prepared by Mr. Holyoke are included in this report.



Study of possible housing scheme in outlying district of St. Paul.

Conclusions

The recommendations published elsewhere in this report embody constructive suggestions for the improvement of conditions based upon first-hand evidence. Some of the evidence, however, while of importance in gauging the seriousness and character of the problem has no particular bearing upon the methods of improvement, except as a means of shaping public opinion in favor of housing reform. Some of the general conclusions which suggest themselves from an examination of the facts are as follows:

- The legislation bearing on the control of housing conditions in St. Paul is inadequate.
- The Health Department is unable to enforce existing laws for reasons of shortage of appropriation and inadequate inspection force.
- Structural defects of new buildings and the low standard of construction prevalent in the earlier days of the development of St. Paul are more largely responsible for bad housing than the habits and standards of life of the people.
- 4. More than one-third of the population whose homes were studied belong to the classes generally designated either as American or of nationalities with high standards of living.
- In districts examined, home ownership is more prevalent among the Jews, Italians, Germans and Scandinavians than among the Americans.
- 6. There is no serious problem of room congestion in the homes of the City of St. Paul, at least, in the districts examined. A few cases of excessive crowding were found,

but they were by no means typical of the general condition.

- Single dwellings were in poor repair in greater proportion than the multiple dwellings. This is due to the greater proportion of single dwellings of old construction.
- 8. In the sections examined there is no shortage of dwellings. There is, however, throughout the City a shortage of homes of high grade adapted to the needs of wage earning families.
- 9. There is a superabundance of toilets, the use of which is shared by from two to ten families with the result that a disproportionate amount of irresponsible use, disrepair and general neglect were found.
- 10. The lodger evil which is so intensely difficult to control in eastern cities is very much less acute in St. Paul. There is, however, a most serious problem of housing the single men and single women, which is coupled with the difficulties to control the rooming houses and hotels of the City. The latter involves a moral as well as a health problem.
- 11. From the statistical data we were able to gather, it would seem that the two family house represents a better investment from the point of view of revenue-yielding power than either the single dwelling or the tenement or multiple dwelling.
- 12. Almost sixteen per cent. of the land area in the sections studied is unoccupied. The assessments show low values which suggest the desirability of securing open spaces for much needed park and playground purposes.
- The poor arrangement of the lots, the unscientific placement of buildings, the

uncontrolled heights of buildings and absence of regulation regarding distances between walls, have caused a disproportionate amount of bad lighting and ventilation and many dark rooms, characteristic of the older slum areas of the City of New York. 14. The failure to provide a city-wide zoning system has done considerable damage to valuable property which might otherwise have been protected. The present zoning system is hardly adequate to meet the needs of the City of St. Paul.



Recommendations

HOUSING CODE.

The experience derived from the present investigation and a comparative study of the housing legislation affecting building enterprise in the City of St. Paul and in other cities of similar size and character shows conclusively that additional legislation is needed to meet the local situation.

Builders and other persons financially interested in the business of contracting and maintaining dwellings of various types have done a great deal toward assuming certain standards of construction which would safeguard structures against collapse or other destruction due to poor methods of construction. The fear of criminal prosecution has removed this aspect of housing legislation from the field of reform into the realm of self protective methods in the interest of builders and owners. It is the neglect of the essential necessities of health, privacy and comfort that most requires the attention of the housing reformer and housing legislation. All dangers from violent injury and death being removed in most instances, there still remains a vast field of legislation and control that deals with those aspects of the housing problem that relate to the protection of tenants and owners occupying their own homes against the almost imperceptible, but positive, wasting of health. While the increase in the death rates cannot always easily be traced to bad housing, there is overwhelming statistical evidence of the close relationship between these two factors.

That crime and immorality and dependency are coupled with bad housing has been shown by the maps published in this report and which correspond closely to the worst areas studied in the course of this inquiry.

A comprehensive city ordinance is appended to this report in the hope that the City which has ample power to do so will adopt it in full as the first means of providing adequate housing legislation for this City.

Certain changes in the present administration of housing legislation are made with a view to increasing efficiency at a limited cost to the City. Eventually it is to be hoped that a State-wide code will be passed by the State Legislature so that uniform control may be exercised throughout the State, and through its instrumentality a State Department of Housing established, such as is in vogue in New Jersey and has been suggested for the State of Pennsylvania. For the time being, however, there is immediate need of action, and local legislation is within the reach of the community, thanks to its present charter which gives to the municipality a considerable amount of home rule.

It is to be hoped that the passage of a local ordinance will carry with it sufficient appropriation to meet the needs for adequate enforcement.

HOUSING BUREAU.

Owing to the difficulties encountered in securing low rent dwellings, the various local agencies are frequently confronted with a situation where they actually assist in the payment of rentals in buildings which are below all standards of sanitation. That there are vacancies of houses which are superior to many of those at present occupied was evident from the facts we have been able to gather in the course of this inquiry. How to keep account of families that need removal from their present environment and secure better accommodations for them is a problem that has not been met so far because of inadequate organization or absence of proper machinery.

A Housing Bureau attached to one of the existing organizations which would be devoted to the work of removing families to better houses and improved surroundings, and which at the same time would keep in constant touch with social agencies regarding the sanitary condition of the homes of their beneficiaries, would be of enormous advantage to the families living under subnormal conditions of housing. Such a Bureau could also act as a means of checking up the work of health inspectors, building and plumbing inspectors and other officials entrusted with the protection of the sanitation and safety of the homes of the people.

The St. Paul Association, the United Charities, the Wilder Charity or all of these could become directly responsible for such a Bureau. Its cost in a City like St. Paul would be trifling compared with the service rendered and the continuity that could be

given to housing reforms through this me-

In view of the experience of other cities where housing surveys have merely resulted in temporary agitation, with a few palliative improvements, but without the development of constructive, progressive programs, one is prompted to assign a great deal more importance to a Housing Bureau than is suggested in the above discussion. Many cities have felt the need for separate permanent organization with budgets ranging from \$2,000 to \$15,000 per year which are devoted entirely to the interests of housing reform. Whether there is need for an independent organization of this magnitude in St. Paul we are not prepared to say. This will be determined wholly by the effectiveness of the work of the existing organizations and the willingness of the City government to heed the needs that have been made apparent through this report, and to act promptly and with the breadth of vision that the importance and magnitude of the local problems demand.

SOCALIZATION OF RENT COLLECTING.

The experience of that very remarkable pioneer in housing reform, Miss Octavia Hill, and the service rendered by the Association bearing Miss Hill's name which has worked for over a score of years in Philadelphia, show that there is much to be gained from both the economic and social point of view by a systematic organization of friendly rent collecting. In the field of industry and commerce the socializing of the relationship between employer and employee, through welfare departments and other social service, has fostered a more intimate relationship between the two classes of people and has promoted efficiency. The methods which in the field of industry and commerce have tended to produce efficiency of service, may to the same extent promote better relationships between owners and tenants with economic results that would reduce losses through unoccupancy and failure to pay rent, while at the same time a reduction in the cost of maintenance due to careless use or abuse of property could be brought about.

This effort need not take the form of a philanthropy or semi-philanthropy plus 4 per cent. It could be organized by individual real estate dealers and agents on a cooperative basis, with a social service worker in charge of the collection of rents, the renting of unlet houses, the supervision of sanitary conditions, the control of the use of the facilities available, the making of necessary repairs, the promotion of garden work, etc., without in any way placing the service on the plane of charity work. In other words, the socializing of the business of rent collection could be brought about with as much benefit to the business of renting and the collection of rents as to the tenants themselves.

The large sums of money lost through failure to rent, the losses of from three to five per cent due to non-collection of rents, which so often occurs and the repairs necessary or required due to abuse of property could be reduced to a minimum at an almost insignificant cost.

It is suggested that this experiment in "Socialized Rent Collecting" be tried in some section of the City of St. Paul by engaging the services of a person experienced in this field, and familiar with real estate problems. The sum of \$1,500,00 should be sufficient to test this method of handling real estate, especially in areas where much deterioration exists and loss through non-occupancy is considerable. In determining upon such a district where this experiment should be tried, the advice of the State Real Estate Board should be taken into account.

HOTELS AND LODGING HOUSES.

The hotels and lodging houses present a serious menace to the health, safety and morality of the community. The police powers of the City are adequate for the removal of the moral dangers, if only the Department in charge of the enforcement of the laws would exercise sufficient vigilance and take action where action is warranted. The courts should, of course, be induced to face the dangers that the numerous hotels present, and co-operate with the Police Department in stamping out the evils.

The control of the safety and sanitation of these hotels is in the hands of the State Hotel Inspector. This official has an appropriation of \$6,000.00 per year, which is by \$2,500.00 less than the income derived from the licensing of hotels and lodging houses. It is admitted that the present facilities for the inspection of the numerous hotels and lodging houses in the State is wholly inadequate, and that in most instances permits to operate are granted without any knowledge on the part of the State Hotel Inspector as to the fitness of the buildings operated as lodging houses and hotels. This condition has naturally led to laxness on the part of the managers and owners with such results as we have pointed out in the body of this It is suggested that the Hotel Inspector make, with the assistance of the local Health Department and State Fire Marshal, a complete study of every hotel or licensed lodging house in the City of St. Paul and throughout the State if possible, so that at the end of the year when license renewals are applied for, the office of the State Hotel Inspector would have accurate and complete information regarding every establishment in the City and State which could be used in determining upon the right of owners and managers to operate under the existing laws.

In view of the fact that the present appropriation of the State Hotel Inspector is inadequate to meet the needs of the State, it is suggested that the City of St. Paul arrange through its Health Department to cooperate in the securing of an adequate system of inspection and the enforcement of both State Laws and City Ordinances, through the instrumentality of one inspector with whom both State and Municipal authority would be vested. Such a plan would avoid duplication of effort and facilitate law enforcement.

Another suggestion that occurs to any one familiar with the local lodging house and hotel situation, is the need for the construction of a cheap, sanitary hotel located preferably in the Midway district, where a considerable share of the transient labor congregates. Such a hotel should be provided with adequate facilities for recreation, restaurant or boarding facilities at low cost, and should be under the management of a corporation or committee made up of citizens interested in maintaining an adequate labor supply, and who are actually employers of labor. Some member of the State Board of Health or its Secretary should be a member ex officio of the managing body.

The Bethel Hotel which is now being conducted as a semi philanthropic establish-

ment and has proved a paying enterprise, should undertake this larger enterprise in preference to continuing the operation of the present establishment which is in every way below standard and should be considered under no circumstances as a philanthropic institution as it is a menace to the health and safety of the occupants. The Bethel Hotel should be closed at once and the managing Board should launch a movement for the building of an up to date workingmen's hotel.

THE REAL ESTATE BOARD.

In our efforts to secure data concerning the rate of deterioration of buildings of various types and the cost of maintenance, we found that no such information was available. The records of the real estate agents, while accurate in many ways are of no use for research purposes. It is suggested that the Real Estate Board of St. Paul undertake an extensive study of construction, maintenance and depreciation costs of single, two family and tenement house buildings in the City of St. Paul with a view to securing accurate information as to the paying powers of the various types of dwellings over a period of years. Such information may prove of social value to the community and of economic value to the real estate interests of the City.

In a bulletin recently issued by the Housing Committee of the National Association of Real Estate Boards, under the Chairmanship of Mr. Fred S. Smith of Minneapolis, the following statement is made in partial answer to the question as to the reason why Real Estate Boards should promote housing legislation:

"BECAUSE, for the protection of real estate interests, you must investigate and study local conditions and sincerely aid in the correction of existing evils and prevent their repetition in new buildings.

BECAUSE, if you leave this work to other civic organizations and individuals entirely, the penalty of your neglect is likely to mean drastic and possibly impractical laws or ordinances."

This attitude reflects credit on the national organization and points the way toward a new professional standard in real estate business which should prove valuable to the communities. The suggestion regarding the need for scientific study of housing problems in the light of their economic and social aspects is made in the hope that new facts may be brought to light which would remove housing reform from the field of superficial and sentimental speculation into the field of scientific legislation and law enforcement.

TOWN PLANS AND ZONING COMMISSION.

The City of St. Paul is protected by a zoning ordinance which is wholly inadequate to meet the needs of the city. The fact that the enforcement of the ordinance depends upon a limited number of property owners is bound to produce conditions wholly out of keeping with the needs of the City, and must in the end fail to protect in the aggregate the normal and economic development of building enterprises, particularly in the residential areas of St. Paul.

Such sections as the Lower and Upper Levees, the Phalen Creek district, and the more recently developed areas of the community, need careful and painstaking consideration on the part of an expert body of engineers, townplanners, and business men, in order to provide the city with a careful plan for its future growth, which would direct the development of the city in the future along the most modern lines, both as an industrial and as a residential center.

Such a Commission should be created by ordinances of City Council, with an appropriation of not less than \$20,000 to be expended during a period of two years, the amount to cover the development of an adequate zoning system, an adequate city plan, and a careful development of standards of heights of buildings.



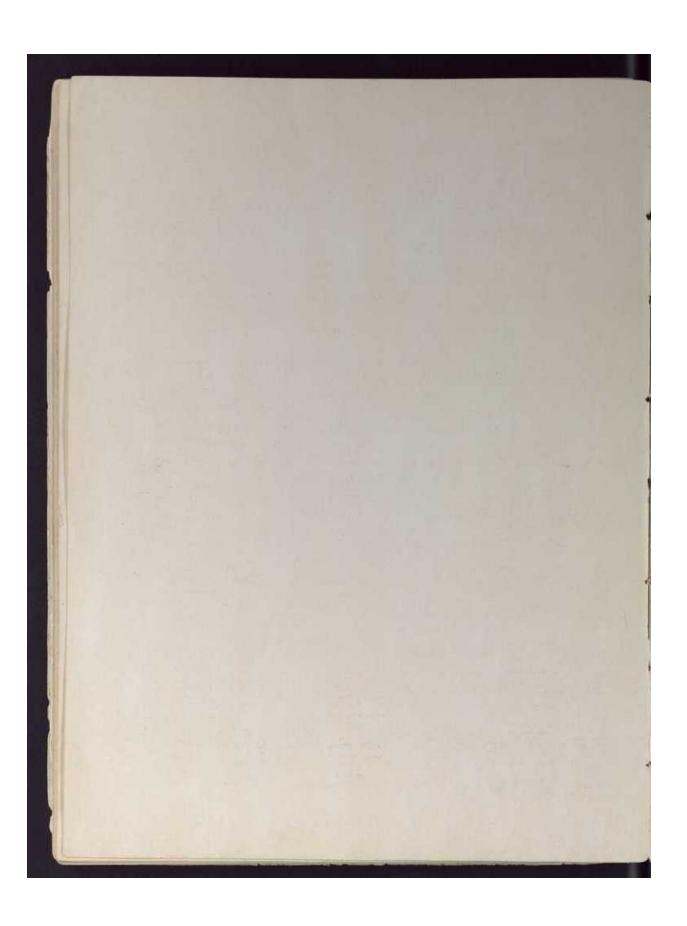
Conditions surrounding public school.

Analysis of

Laws in Cities and States Throughout the Country.

THE following analyses of laws in cities and states are presented in comparative form for the purpose of furnishing a basis upon which to meet the deficiencies of the laws and ordinances affecting the housing of the City of St. Paul. This analysis lays no claim of completeness, as it would have been wholly impracticable to give the full text of the law in every case, with the modifying clauses and amendments that have been made from time to time. Wherever the "Model Law" is referred to it should be taken to mean the bill presented to the Pennsylvania Legislature in 1917 by the Building Code Commission of that state.

Wherever possible, we have compiled the abstracts from most recent printed forms available on the 1st of July, 1917. Abbreviations of legal provisions and summaries have been frequently necessary, and for this reason the possibility for misinterpretation of specific provisions has not been entirely obviated. Despite all these shortcomings, the writer feels that this synoptic analysis affords the reader means of identification of various laws and ordinances which should prove helpful to the reader interested in providing adequate legislation for the City of St. Paul.



Analysis of Housing Laws and Ordinances Affecting Various Cities and States.

Building Code adopted July a 1908, with amendments to April 7, 1914.

Buston, Mass.
The Railding Law of the city of Boston, Arts of 1907 as amended to 221g.

Bridgeport, Conn., Building Code 1215.

Building Code 1315.

Calgary, Can.
Building Ordinances, Oct. 1912. with amendments to May 1, 1914.
Combridge, Mass.
Building Ordinance. Proposed Revision 1517.

Dir. Chiengs, III.

Building Ordinances, Santinary Code, April
1, 1912, with amendments to April 1, 1913.

Cinchandi, Chie
Building Code as payed May 1, 1909, and
as amended to January 1, 1917.

Housing Code, 1917, Ohio

Building Code December 27, 1916.

Beaver, Cole.
Bevised Building Ordinance, 1916.
Bevised Building Ordinance, 1916.
Bules and Regulations for control of building, occupancy and maintenance of dwellings as adopted by Board of Health in 1916 and amended in 1917.

Housing Ordinance, April, 1914.

Bultimore, Md.

Bide occupied by more than 5 families using independently and doing cooling on trembes of by more than 2 families on noce of living und cooling.

A tenement house is a building or au-portion threed complet as a dwelling by more than 7 mailies living independently of each other and deing field on the dis-graph of the complete of the district firm calculations of the complete of the complete living calculations. The complete of the complete of

Reme as Model Law.

Reme as Model Law.

Calgary, Cas.

An "Apt." house is any bldg, with separate housekeeping apts for 3 or more families or for 2 or more families or for 2 or more families over story otherwise occupied.

Cambridge, Mass.

Dwellings occupied by more than 2 families doing their cooking on the premises.

Any house of building or portion used as a home or residence or 2 or more families liv-ing in separate apartments. Cincinant, Ohio Same as Model Law.

Columbus, Obto
Swidding occupied by 2 or more families.
Otherwise same as Model Law.
Dayton, Obto
All buildings occupied by two or more
families. Otherwise same as Model Law.

Denver, Coto.

Any building occupied by 3 or more fam-lies as a dwelling. Heing independently of such other and duling their cooking on the premises.

Detroit, Mich.
Studding occupied by 3 or more families (or by 2 families when portion of building is used

Haitimore, Md.
Tenement more than 5 stories or 70 ft in hoight shall be dre proof, ist story of mon-fire proof immemnt 3 stories high must be dre proof.

Hoston, Mass.

All huldings over a stories high or I stories and basement or over 56 ft. high must be fire proof.

Calgary, Cas.
Teacment more than I stories in beight must be fire proof.

Cambridge, Mass.

Cambridge, Mass.

Chicago, It.

Tenoment more than 5 stories and basement shall be fire proof; tenement of 6 or 4 stories shall be of low surning material and cellar surning material shall be fire proof.

Columbra, Oblo

Required when over three stories high.

'The lines under names of cities denote absence of regulation.

LAWS REGULATING TENEMENT HOUSES

Building Code passed Nov. 17, 1918 and amended to 1916.

Building Ordinances, 1915, with amend-scate to May 1, 1916. Nate Law of the Tenement for 1st class cities, March, 1912. Building Ordinance, 1996.

Hullding Code, Dec. 17, 1912.

Milwanker, Wis. Butiding Code, 1814.

Building Code, 1814.
Minerapolis, Mian.
Housing Act June 1, 2015.
New Orleans, La.
Building Code, an pursue May 14, 1914, and
amended to March 18, 1915.
Building Code, as runned May 16, 1916, and
amended to March 18, 1915.

Paterson, N. J. Building Code 1913.

Building Chie 1914.

Proposed set governing the construction, exection, enlargement, afterston, repairing, maintenance and safe guarding of buildings and the proper safe guarding of the health and lives of persons using such buildings.

Manual of Building Inspection, 1908. State Law of Tenement for 1902. State Law for

Plumbing and Sanitation, 1911, with amend-ments to April, 1914; also certain local ordinances.

Building Code Revised to June, 1915.

Hullding Laws Troffic, Plumbing, etc., Ordinances, State Law, April, 1903, with amendments to April, 1912.

Building Code, 1968, and as amended to

Hochester, N. Y.

St. Paut, Minu.
Rollling Code, July, 1812, with amend-ments to April, 1214.

Neattle, Wash. Hullding Ordinance, April, 1919, with amendments to April, 1911

General Ordinance 1905 with amendments to Feb. 1914.

to Peb. 1914.

Terento, Can.
By-laws for regulating the erection and asfety of hubdings, April, 1912, with amendments to May 1, 1914.

Building Hamilations Peb. 1913. Plumbing Cycle Aug. 1913. Act of Congress approved ments to April, 1914 and 1914.

Werevester, Mass.
Building and Plumbing Ordinances 1917.

DEPINITION OF TENEMENT HOUSE

for business purposes) living independently and having common rights and halls, etc.

Building occupied by more than 2 families living independently but having common right in hallo, etc., and doing cooking on premises.

premises. Indianapolis, Ind.
Any pullding occupied by 3 or more families. Otherwise same as Model Law.
Louisville, Kr.

Same as Model Law.

Hame as Model Law.

Same as Model Law.

Milwankee, Wis.

Same as Model Law.

A hutbling occupied by several families in which rooms are occupied in apartments, suites or groups.

New Orienna, Le.

Indicting occupied by more than 2 families living independently duing their cooking on premises or by 2 families so living above 1st story.

A hullding used as a home for 2 or more families living in separate apariments.

Paternon, N. J.

Bame as Model Law.

Bame as Model Law.

Any building ar part of building occupied as a home by 3 or more families living independently of each other in separate apartments, doing their own booking on the previous and having a common right in stairways halls courts and yards.

Fulfishing h. Fa.

Building occupied by 3 or more families living in separate apartments and doing their cooking on premises.

All buildings entaiting suffer or apart-ments used for permanent habitation by Iwo or more families.

Pravidence, R. L. Building occupied by more than 2 families Uving independently and doing their cooking on premises or by more than 2 families ou flacy with common rights to halfs, etc.

Any building used as a home by more than there families.

Rochester, N. Y.

Ridge compiled by 3 or more families liv-ing independently and daine coulding upon committee and cooking and having com-mon rights, halls, etc.

Beattle, Wash.

Hidg scoupled by 2 or more families living independently and doing cocking on
sension, such having own water closes and
having common rights in halfa, etc.

Bldg, occupied by more than one family on a floor living independently and doing their cooking on the premises.

Toronto, Can.

Any hidg, which has 3 or more suites or sets of rooms for separate occupation by see or more persons.

Bldg used by sore than 2 families living separately and doing their cooking on the premises.

An apartment house is one containing a or more apartments. No definition of testement gives

FIRE PROVISIONS-Fire proof tenements

All hotels and tenements 5 stortes or more neight or with topmost floor 59 ft, above average grade, shall be of fire proof construction.

Denver, Colo.

Detroit, Mich. Buildings ever 8 stories or 100 ft, shall be tre proof.

fre proof.

Duluth, Mina.

Tenament or dwelling over I stories highmust be fire proof.

Indianapolis, Ind.

All tenements of three stories and a base-ment in height must be of fire proof material. Lowell, Mass.

Memphis, Tenn.
All dwellings over three stories and harement must be fire proof.

Milwankee, Wis.
All apts, tenement and lodging houses is stories or more above the basement shall be fire groof. In non-fire proof tenements over

3 stories, lat floor shall be of fire proof con-

Minacopolla, Mina.
All dwellings three stories and over must
be fire proof.

New Orleans, Ls.
Tenement of 55 ft. in height must be fire proof. Omnha, Neb.

Those exceeding five stories in height shall be fire proof.

Tenements, dwellings, hotels and lodging houses. Subvises or more in height shall be of fire resistive construction. Such huldings not norm than 2 stories or an height may be of mill construction or ordinary construction.

Pittsbornk, Pm.
Four stories or more must be fire proof.

Any tenement move than 10 feet in height not ever 120 ft. must be of dre proof construction.

Providence, H. I.

Tenements nece than 4 stories high in the let or business district or more than 45 ft. high in 2d district must be fire proof.

Richmond, Va.

Rachester, N. Y.

St. Paul, Minn.
Tenement more than I stories high shall be fee proof. When any such belig: exceeds 100 ft. in height it shall not be less than 40 ft. wide.

No fice proof tenement shall exceed in height the width of the widest adjusting street plus 25 ft. and in no case 125 ft.

All bloom 100 ft or more in neight much

Tenement over 32 ff. in height shall be fire proof.

proof. Washington, D. C. Hidgs over a stories or more than 25 M. bigh must be five proof." Wurrester, Mass,

FIRE PROVISIONS-Wooden tenements

Wooden tenement or dwelling shall not ex-ceed 30 ft in height.

No scoolen tenements shall be over 2 stories

Indiaunpoits, Ind. Louisville, K7-

Lowell, Mass.

Prohibited in inner fire limits, Shall not be nearer than it It only other blog. However such blogs, must be separated by walls of fire proof material.

Milwonkee, Wis.

No wooden tenement shall be made for eccupancy by more than 8 families.

May be seen the common than a families.

May be seen the common than a families.

If not more than 1 armit the habitat above the basement, nor over 1800 ng. It is seen.

Fronthited in the limits. When suffs in rews they must be seen trained by fire stops.

Prohibited. Cannot be converted into the memeric if they acced 2 sotton in height exclusive of basement or 2s ft. in height exclusive of basement or 2s ft. in height exclusive of basement or 2s ft. in height of the wider than 2s ft. or where than 5s ft. unless inferior be subdivided by fire proof wills to that size. Frivate flidgs, shall not be more than 3s ft. high. Minarapells, Mina.

Shall not be placed on same int with multiple deadlings within fire limits. Wooden bidgs, shall not be build in yow not closer than 7 ft to other bidg to side less line 17 storles, 2 ft, added for every additional story.

Outside the fre Hulle no wooden tenements shall exceed 2 stories in height above basement nor 4005 ag. ft. floor area.

May be built outside the fire limits when not more than 7 stories high.

Probabilist to Patreon. N. 2.

Probabilist to the climate what not exceed a starter in the climate contact of a starter frame double deckers is probabled. Poster betw. and said justs shall be filled with incombustible material.

Pennsylvania (Nodel Law). Tenements may be of frame construction when not more than one story in height.

Pittsburgh, Pa.

Prame tenements shall not exceed los fit in any direction unless a wall of brick or term total reduces the dimensions

Whoden temenents shall not exceed 25 ft.

Bishmood, Va.

Prohibited in the limits. Those outside firm that is a seal and the own 2 stotion high formula traces of such high, and the live m. T. for 1 story and 1,000 eg. 22 tor 2 story blacks.

bidgs.

Richester, N. Y.

Construction of wineden fearments or conversion of other frame halfslings into increasing politicals. It is not district. Additions of a story feet may be under for halfsroom or water closely.

Wooden to the feather with the new 2 choice in height.

Worden telegrate Wash.

Worden telegrate shall not exceed an average of 2 stories or 30 m. in height, but a sories of 4 m. any part.

Wooden tonements shall not be more than at it in beight nor so inside the fire limits.

Taranto, Can-

Tunta shall not be more than 2 stories or to Te. In helpin. Promising within fire limits. Trains, 2 stories high most be of fire pear construction up to and including let floor.

floor

Problished in fire district Those built
continuous shall be separated by a division
wall built of brink term outs or consumate.
Most extend from front to rear from basemeet to 1901.
(Saby 2 apertments on floor.

must be constructed of abcommusation harbrial. Cutumbus, Ohio No wooden terrement exceeding 2 stories in height shall be erected. Hotels and inserting, Ohio Hotels and inserting of the stories has a stories may be appeared of not more than 2 stories may be appeared within 10 ft, said no terrement within 5 ft, of other buildings on lot line. No such building shall be arected within the are limits, except atone. Prohibited in nines for district if 80 ft or more is height. In middle fire district all bidgs must be semi-fire proof. FIRE PROVISIONS.—Fire escapes, requirements for and details of construction

Cambridge, Mass.

Chleage, Hi.

Porbidden Inside See Hinits. Outside of See Hinits wooden tenements shall not exceed 45 ft. in height and above find story it abartment.

probablics in fire limits. If constructed in a row the division walls of different houses must be constructed of incombustible material.

Metal fire escapes required for assembly

halls.

Hidge of 1 stories or more must have sufficient five escapes as required by Supt. of Hidge. Details of genetraction partially specified and left is supt. of Hidge.

Second of the super of singer and be second of the super of singer and be second of the super of singer and be considered equivalent to 1 of the required exist (or all bettings not more than 3 stories high. It may project over public way.

Every tenument of more states must have find the super of the super second of the super su

Columbus, Ohlowers 2 Stories or North Columbus, Ohlowers 2 Stories or North Unless provided with 2 independent flights of stairs accessible from each apt. Shall have an additional fire proof stairway or a fire seams, constructed of from or stairway.

One means of egrees shall be the means of ingress, the other he as inside five proof stairs. As outside inhiding with stairs descending from roof to grade, or a standard for energy

Denver, Cole.

To be provided in all two story bidge in-babited by more than one family. Shall consist of free balconies connected by ron-stairs. No. size and location to be deter-size by bidg. Repector, Not more than 50 persons to use any one trye scape.

Derroit to use any one fire secape.

Derroit, Mich.

For incentum over 2 clories bigh there must be 3. fire escape from 1nd floor is roof. If building is occupied by more than 100 above 1st floor, 2 fore escapes by 485 ff are escaped by floor, 1 for escaped by the particular assembled in the second of the sec

Louisville, Kj.

All tenements of I stories and a basement in height ur over, shall be employed with such free decades as shall be described with such the building department.

Required on public buildings,

Any room is nev upt not fronting on street or yard shall have fire escape in court projecting not more than it. From the house. Each and above list every shall open on fire escape from at least one room.

Milwaukee, Wis.

Minneapolis, Minnessell be located at each story; shall be located at each story; shall consist of iron, stone or concrete bateonies and stairs; shall be placed at an angle of not greater than to degree.

New Orleans, I.m. Steely tonement more than a stories in height must have sufficient means of excess in case of free. Must be approved by City Engineer.

longineer.

Omaha, Neb.

Every tenement of 1 or more steries must be provided with a few steries. Every spit nust have direct access to at least one fire scape unless it has access to 2 fights of stairs. Shall be built of incombustible materials.

Poterson, A. J.

Raiconies and grains shall be of exed. Balconies shall be not more than 1 ft. below
window cill. Shall descend at an angle of
to degrees.

Noti-the proof buildings more than 2 stor-ies high shall be pravided with at least one for counse or tower secan localing to every felory with a starway or gressment ladder to roof.

To root. Philishurgh, Pa.

Tapaments 2 of mires stories high shall have permanent sate external means of encage, number and leading of encage, number of stories of such exacts at the governed by size of building and number of timates. Buildings with over 10p persons shall have 2 such starways. Details of construction portfalls operated to construction portfalls operated on the starways.

Portland, Gre.

Tenements of 3 stories or over must be provided with 1 or more metal fire enuses. extending from its chory to upper stories and root. 2 secures must be provided when population in 100-200 1 additional for every additional con-

olditional 500.

Providence, H. L.

Every tenement shall have proper means of seeing in case of fire Approved by Bailding Inspector.

Richmend, Va.

Every bids. 2 stories or over shall be provided with fire energies, excitoways or other means of errors in case of fire as effected by Pick, Richmend, or other providence. Ourside fire escapes of front challenges of the case of the providence of the providenc

Enchand in the proof walls.

Rechester, A.Y.

Every tenement and a larger high must have the sconpan opening directly from at least I room or private hall is the companion of the meet at each story above the groom aparts and the sconpanion of the proof of the companion of the main of true. The number is to be determined by size, attracture, location and number of inmates.

For y beaution and number of inmates.

St. Peal, Main.

Every learness must have sufficient means of excess in case of thes. Details of construction of the peak o

FIRE PROVISIONS-Fire escapes, regultements for and details of construction-Cont'd

Scattle, Wash.
Tenements must have sufficient means of agrees to case of free Petulis of construction miantely specified to law.

Truery limit must have I independent much sof egrees accessible from such apartment. If over I stories one escape must be unclassed in the proof wall.

Toronto, Can.

Every innt. over 2 stories high shall have proper fire escapes. The exit from bldg to fire escape platform shall be through a hall or carridor. Plans must be approved by Hidg. Imp. and by Chief of Fire Dept.

Washington, D. C.
Thunt, of 3 stories on ever 20 ft, in beight must have one or more fire escapes connected with each floor, as commissioners of districts may determine. Plans of proposed bidgs, must be given to Inspector of fire encapes for examination as to aimber of each appear. Details epoched in Bidg. Cade.

Werrester, Mass.

FIRE PROVISIONS-Encumbrance of fire escapes

Problems.	Hoston, Mass.
Pier serap	on must be unobstructed. Religement, Conn.
Problished.	Catgary, Can.
Promisered.	Cambridge, Mass.
PARTICIPATION OF THE PARTICIPA	Chlenge, III,

Problemed. Profited Chermant, Okio
Most open into street, gard, or after. Cannot open into court intess court contains
a five proof parsage. Fire escapes must be
from from accommission.

Most be unobstructed. Dayton, Ohla

Denver, Cole.
Delver, Cole.
De

Proxibited. Detroit, Mick. Prohibited.
Deficit, Mice.
Prohibited, most be kept in repair.
Indianapolis, Ind.

Prohibited.
Prohibited.
Prohibited.
Prohibited.
Prohibited.
Weispkia, Tenn.
Milwanker, Wis.

Minavapolis, Minn,
Shall be from from abstructions. Shall not open into luner courts.

Probibited. New Orleans, La.

Must be free at all times from obstructions.
If in pourt there must be direct passagestay stong ground to street, pard or alley.

Paterson, N. J.

Prohibited.

Perssylvania (Model Law), No obstruction of any kind shall be placed on any part of the fire escape, it shall be

the duty of any authorized inspector to con-ments preperty found on such fire escape.

Pittsburgh, Pa.

Perfland, Ore.

All fire compare shall be placed on atrect front or have unobstructed across to street or allow along around. All fire escapes shall be left from the manufacture, at all fired.

Providence, R. L. Blehmond, Va. Prohibited.
Prohibited.
Prohibited.
Prohibited.
Prohibited.
Prohibited. Prohibited.
Prublished.
Teresto, Can. Prohibited. Washington, D. C. Prohibited. Worcester, Mass.

Every temperatures Md.
Every temperatures have 1 stairway from foof to 10 floor Temperatures aver a stories must have 2 such stairways.

Benton, Mass.

Tenement house occupied by 2 or more cauties to have 2 or more cauties to have 2 or more stairs reaching from extrance door to top story. Not to show the country above the account story, width or the country in the second story, width or the country to the country of the coun

The number of states shall be in accord-ing with any requirements of the Dept. of Hidgs.

since with any requirements of the rept. or litigs.

Cambridge, Mass.

Every floor above 1st shall have two exits usualing directly to street, placed as far agart as practicable. At least one shall continue to the root of flat.

Every tenement must have 2 flights stairs. Non-site proof tenement of over 10 rooms dillount 30 rooms or fraction thereof. In fire proof tenement of more than 120 rooms an admitted flight for each additional 120 rooms are fraction.

Chechasti, Obio

Cincinnati, Ohto Elaborate details: az good as Model Law-Cotumbus, Ohio

Dayton, Ohio

Biairs shall be in proportion to 2 ft. in width plus I ft. for himirance to 100 persons to be accummediated. Each room or apartment shall have access to at loast 2 suparate and desired means of egrees are placed more than 100 ft. spart additional means shall be provided.

Beaver, Cols.

Detroit, Mich.

Buildings over 2 stories and basement highshall be a stories and basement highshall be inches there are the 2 feet widewith 6 inches there are the additional
1900 sq. 7t. over 1908 sq. ft. ground Boor area,
and Borease of 5 blother for every story above
2. When combined width of stativenys oxcesses V.t. there shall be 2 stativenys. In ten-

FIRE PROVISIONS... Stairs, number of

ement with ever 108 rosms above 1st story there shall be an additional stairway for every added 100 rooms or fraction.

Duluth, Minn.

Divery tenement, with 2 or more families above let story shall have 3 flights of stairs from ground (e top floor, 1% ft. wide.

Fints and andinapolis, lad,
Fints and apartment houses must have at
sent two stairways.
Lenixville, Kr.

Lowell, Mass.

Cowry tenement house over 2 stories high shall have 2 distinct and separate stairs.

All hidge, all heads to the control of the control

Milwankee, Wis.

Minneppolis, Minn.

New Orleans, La.

Every technical shall have at least 1 stair-way from entraine floor to roof. Tenement with more than 30 rooms above is; floor shall have an additional stairway for every additional is rooms or fraction.

Dracks, we round or fraction,

Every interment, more thanks to be a local state was leading to make the floor to for story. Stairs must be at least 1 ft, wide well-tional stairs for every additional stairs for every additional to

Pennsylvania (Model Law).

Temements, etc. shall have at least 5 stairways, one of which shall estimat from the ground to the buildhead and the other from the ground to the buildhead and the other from the ground to the scory. In such oblidings he as additional stairway for every 26 apartments or Fraction throsef. All such additions may be tower the secapes.

Pittsburgh, Pa.
Tenement over I atories must have stair-way accessible from each apariment. Stairs

in hallways must be 2 ft in width for tene-usent with Sem than 13 rooms, from 12 to 22 rooms het less than 25 ft. In width or 25 or more rooms stairs shall be 4 ft in width.

Portland, Ore.

Providence, B. L.

At Jenst 1 Hichmond, Va.
At Jenst 1 Hichmond, Va.
to roof and end in totalhead. Each bidg,
shall have one continuous line of stairs for
each 500 ft, of let covered, and all bidgs, eveering between 2500 and 5000 ft, shall have z
stairs.

Every lenement house shall have a Every lenement house shall have one sight at stairs reaching from entrance floor is noof. Non-frepriced dualidings must have an order to be supported as the stairs and the stairs apartments. Fire proof tenements must have extra fight for every additional 26 spartments.

Every tenement more than 2 stories high shall have at least 2 separate and distingt starrange.

stairways. Scattle, Wash.

A Z sury remement shall have I stairway; I stories I stairway and I pre occape. Tend. more than I stories high must have sufficient means of extest te antialy Sury of Bidg. Each suite shall have I means of exit without passing any open stairway, elevator endr or light shaft.

Stairs in traints, with the rooms above let good ship to the term that the traints with the traints with lave two stairways 3½ ft. wide situated at opposite ends of bldg.

Washington, B. C. Na stalway shall be less than 4 ft, in width. Common halls 159 ft is longth fur-nishing sgress for more than 10 apts of 7 reams each must have stairs at each end

Wercester, Mass.

Every apartment shall have direct access to two stairways leading to the ground.

Prohibited, Dayton, Oblo Bultimore, Md.
Prohibited under 1st story stairs, in non-five proof tangement. Denver, Cole.

Boston, Mass. Bridgeport, Conn. Calgary, Cas.

Combridge, Mass.
Prohibited under wooden stateways except in one or two family dwellings.

Chicago, III,

Prohibited. Cincinnari, Ohio Prohibited, Columbus, Ohio FIRE PROVISIONS-Closets under stairs

Detroit, Mich. Closets are prohibited under 1st story stair-way unless building is fire proof.

Closets under stales to second story are probabiles. Indianapolis, Ind.

Louisville, Ky. Lowell, Mass. Lowell, Mass.

Memphis, Tenn.

Prohibited.

Milwaukee, Wis. Prohibited. Minneapolls, Miss. Prohibited.

New Orienns, La,

Closetz under stairs leading from cellar to
let fleor are prohibited. Omaha, Neb. Prohibited.

Promaylvania (Model Law), Prohibited. PH(aborgh, Pa. Portland, Ore. Providence, R. L.

No closed with a pitch of less than 0 the shall be erected under statronse. Let statr-case may be enclosed for cost closet or follet room.

Bockester, N. Y.

Benver, Colo.

Detroit, Mich.

Dataide stativay shall always be fire scoot. Inside stativary shall always be fire scoot tonement over 2 stories high shall be fire great.

proof. Hoston Mass.

Main sinirense of twommers must be fire proof uniterial extending from entrance floor in cost. Must not extend below in those Shall be enclosed in the proof walls. Openings shall have self closing metal doors.

In buildings executing 3 stories in height the star ball shall be cureded in fire proof material.

material Caigary, Cam.

Apiz, over 2 stories high shall have starrways of fire proof construction.

In mitting dwellings exceeding 2 stories in height stairway shall be surrounded by incumboutible material. Openings to have fireproof doors.

Chicago, III,

firsproof doors.

Chicago, III,

States in tenemonts 2 stories and basement
in height must be fire proof.

Columbus, Ohio
In som-lice proof tracement houses I stories
bigh, the stairs and stair halfs shall be constructed of fire proof material.

Daytes, Ohlo
All stairs in non-fire proof buildings shall be enclosed in freprior walls and ceilings.

Stairs in semi-five proof, composite or mill constructed bidgs, shall be of five proof material.

Chelmanti, Ohio

Probibited.

Probiblied.

Problems in non-fire grouf houses.

No close that he constructed undermeath the staircase of any atory but the space kept from the space kept from incumbrance, but this shall not promise the occlosing without posings the same portion of the first story staircase from the foot of same to a point where the height from the foot of same to a point where the height from the foot of same to a point where the height from the foot of same to a point of the staircase shall not occupied the feet.

Sentite: Wash. Toledo, Ohio Toronto, Con-Washington, D. C.

Prohibited Warrenter, Mass,

	PHRE	PROVISIONS-Winding	ain
--	------	--------------------	-----

	A STATE A STORES OF STREET
Haltimore, Md. Hoston, Mass. Trunks of winders on wall side shall be 10	Probinited. Duloth, Mice. Indianapolis, Ind.
nches wide.	Lantsettle, Ky.
Prohitified. Calgary, Can. Winders must be 7 inches wide. Prohitited. Cambridge, Mass.	Probibited Levell, Mass. Probibited Memphis, Team. Milwanker, Wis.
Chicago, II. For winding stairs frants must be \$55 inch- s wide and 18 inches from strings on well ide. Chechanti, Ohio	Prohibited. New Orienns, i.u. Interior election fire encapes sin from top floor to instement. Open

Prohibited. Paterson, N. J.

Promising Promising (Model Law),

FIRE PROVISIONS—Fire proof states

Detroit, Mich.

Tenement with ground floor of 1100 mg ft.
or over 1 stories and busenesst high must
have one story cholosed in fire proof shaft.
Over 2 stories, one stateway fire proof.

In non-fire proof feetings, the proof.

In non-fire proof feetings I stories high states and halfs shall be of fire proof material broughout.

Indianapelis, Ind. Louisville, Ky. Lewell, Mass.

Memphis, Tena. Stairs and stair hallways in confirsproof since must be enclosed in fire proof mate-

Milwarker, Wis.
In tenements i stores or mure in Swight
the stales while seconstructed of fire proof
material throughout.

in multiple dwellings, Mian.
In multiple dwellings, exceeding I stories in height occupied by more than I families on any long, one stallway must be summarized of fire proof material.

New Orleans, La.

Omnha, Neh.
Stairs and stair halls in all new ages, muss
be of incombustible material, except steps
and handralls. In nonfireproof bidge, ther
units must be enclosed in walls of solid ma-

Poirrson, N. J.

In nun-lirs proof tonement houses i stories and basement and over, the stair case halls shall be of 5re proof material and shall have a fire proof hallway connecting with the street.

Pittschurgh, Pa. Portland, Ore. Providence, B. L. Richmond, Va. Rochester, N. Y. St. Paul, Minn.

Window shall meet approval of hupt or filing. With shall be measured in inches from narrow ent. Narrow end must be 2 torbes wide. Wile and not to exceed in techner.

Teledo, Ohio Terente, Can-Washington, D. C. Worcester, Mass.

Pennsylvania (Model Low). Stairways and walls and cellings around stairways shall be of fire resistive material. Pitrabuyah, Pa.

Portland, Ore.

The stairs and stair halls in all tenemants over 4 stories high shall be constructed of fire proof material throughout.

Providence, R. L. Stairs shall be firs proof throughout or as approved by inspector.

In nuaffreproof spartments 4 stories and beactment, or over, the stativnsys must be enclosed in fire proof walls. In five proof houses the stativ shall be of fire proof material.

Inside fire stairways shall be constructed entirely of frequent material disclosed with scale and shall connect with passage way leading direct to street. Shall have standard fre doors.

Tenements shall have outside fire proof entrance.

Seattle, Wash.

Teledo, Ohio Every hon-fire proof that, over 2 stories and heast is height shall have fire proof stairs.

Migs. 2 stories in height with more than one apt. on any thor must have are proof stairs. Worsester, Mass.

Baltimore, Md.

This inside stairway to basement shall be priced by brick walls and zelf closing

Boston, Mass.

Bridgeport, Conn.

Culgary, Can.

Cambridge, Mass.

Stairways must be enclosed in fire proof partitions with self closing doors.

Cincinneti, Ohio

Cincinneti, Ohio

May be located inside it enclosed in fire
proof material. Openings to have sail closing fire proof doors a two and bettom.

In non-fire proof bldgs, exceeding I stor-les, cellar stairs to be enclosed with F. P. walls; have self closing doors top and bet-tom.

Dayton, Ohlo

Descer, Cole.

Such stairs not to be located under stairs extending above list story unless suclosed in fire proof wall and has fire doors in basement.

Basement shall have 1 stairway, 2% ft. wide, leading directly (to street, if used for

FIRE PROVISIONS-Cellar stairs

living and eleming) to street, alley or floor above. Incide states must be enclosed by brick walls.

herek walls Dulufs, Minn.
In non-fire proof tenement houses ever 2 stories in houses, including the stories in height, hadde cellar starys shall be suchoos with fire proof walls and have self-closing doors.

Indianapolis, Ind.

Louisville, Ky.

Lowett, Mass.

Memphis, Tenn.

Shall be enclosed in the groot walls and provided with self-losing doors at bottom.

Milwankee, Wis.

in multiple dwigs, must be fire proof con-ciruction and have serificioning diors top and buttom, brisk water inches. New Orleans, La.

Omnto, Neb.

Paterson, N. J.
Shall be enclosed in fire proof walls. Bett closing doors at top and bottom.

Pennsylvania (Model Law),

Pittsburgh, Pa.

Portland, Ore.

Providence, R. L. Richmond, Va.

Such stairs leading to every above pro-hibited in in-dreproof houses, but not in dreproof houses.

Desproof houses.

St. Paul. Minn.

The stairs from the cellar or lawest story to the floor next above when placed within acry sparriem house or tenement house, shall next sparriem to the react of the staircast, when practical, to the react of the staircast, when practical, to the react of the staircast, when practical, to the react of the staircast, when the staircast when the staircast when the staircast which is the staircast which is not to the staircast which is not the staircast of the sta

Senttle, Wash.

Toledo, Ohio

Toronto, Can.

Washington, D. C. Cellar stairs must terminate in fire proof compartment.

compariment. Worcester, Mass.
Must not be under stairs leading from lat floor to floores, they will letch or integer walls with self closing fire doors.

FIRE PROVISIONS-Cellar entrance

Outside stairway shall be fire proof.

Boston, Mass.

Bridgeport, Conn.

Calgary, Can.

Cambeldge, Mass.

Chicago, Ill. Chicago, Ill. Culumbus, Ohlo

Dayton, Ohio

Denver, Cols.

Detrait, Mick.
Outside stairways except in frame build-

Dulath, Mian.
Tenement over 2 steries high shall have outside cella entrance.

Baltimore, Md.

In spariment muses the partitions be-lween apts where not separated by halls whall be of fire proof material

Culgary, Can.

Cambridge, Mans.

Cincinnuti, Ohio

Columbra, Ohio
Where houses are built in form of Goobie
houses, intraces or rows there shall be a fire
proof wall separating thom. Provided that
this shall not apply to double frame houses.

Hotels and tenements built in connection with other buildings shall be separated from them by alanders shall be separated from them by alanders proof construction shall be subdivided by standard free proof wals into door areas of not more than 5000 mg. ft. each.

Deaves that

Chlengo, Ill.

Boston, Mass.

Louisville, Ky. Lowell, Mass.

Memphis. Tenn.

Milwankee, Wis.

In multiple dwellings there shall be outside entrance. New Orienna, Lu.

Paterson, N. J.

Pennsylvania (Model Law),
There shall be an entrance to avery cellar and basement from the outside.

Pittsburgh, Pa.

Portland, Ore.

Providence, H. I.

Richmond, Va.

Indianapelie, Ind. Ostaids in non-fire proof houses.

Scattle, Wash.

Toledo, Ohlo

Washington, D. C.

Wercester, Mass,
Must be an entrance from yard or court into every cellar or basement.

FIRE PROVISIONS-Fire stops

Duluth, Minn.

Indianapolis, ind.
All buildings of more than I faits or apartments shall have division walls of brick or other non-combustible material.

Louisville, Ky.

Memphis, Teau,
Rach room or suite of rooms shall be separated from other apartments of the bidg, by a
fire proof, wall at least 13 inches thick.

Milwaukee, Wis.

Minnenpalis, Minn.

New Orleans, Ln.

In every nountegrouf house there shall be dividing wall of solid masonry extending from ground to roof between each set of apts.

Paterson, N. J.

In tenemerical of other than fire resistive constraints of other than fire resistive constraints as used, the 2 courses of brick below the top of the flow beam shall project one and one-last inches beyond the furring, and

shall be levelled off with planter to the top of the beams after beams are in place to form a fire stop. If concepts or other mate-rials are used for walls an equivalent projec-tion shall be provided.

Pittsburgh, Pa. Portland, Ore.

Pravidence, R. L.

Hickmond, Va.

Hackester, N. Y.
Fartitions between apartments, not separated by halls or stairwars shall be made of incombustible material.

St. Paul, Mine.
All nen-fire-proof apartment bouses or tenement houses hereafter exected, 2 stories and basement in height, but not exceeding 16 ft. shall have exterior or enclosing walk composed of brisk, stone, concrete or incombustible material.

Senttle, Wash. Toledo, Ohio

Toronto, Can.
Washington, D. C.
Worcester, Muss. Toronto, Can.

Deaver, Colo. Detroit, Mich.

Boston, Mass.

Hoston, Mass.
Tenements shall have fire preof builtheads with fire proof covering, and stairs leading to it. Tenements under a man have for man have builthead a wood, covered with metal on outside and phaster on metal lath on issue, having covered metal door. All other tenements shall have builthead or scuttle located in hall said shall not be locked at any time.

Bridgeport, Cons.

Calgary, Can.

Cambridge, Mass. Must be kept unlocked.

Chlengo, III, Cincinnati, Ohio

Existing buildings shall be provided with a ladder and southle door to the root at the head of the stairs, or there shall be posted the head of the stairs a direction to the ladder.

Must be provided in all tenements over 2 stories. Must be provided in all tenements over 2 stories. Must be covered on outside with retail and provided with stairs or stationary inder locked.

Shall be provided in buildings over 25 ft. high. Shall be envered on outside with metal loranted in the hall, shall have states or tudder leading to them, and shall have states provided with looks.

Benver, Cobs.

All bldgs over one story shall have scutless in roof covered with incombustible macrimis. Ladders of tron must connect these
not be locked. The id of a scattle must
not be locked.

FIRE PROVISIONS-Scuttles and bulkhends

Detroit, Mich.

Indianapolia, Ind.
Must be provided on all flat roof buildings of more than 2 stories in height. Must have stairs or stationary ladders which must be kept free from obstruction.

Louisville, Ky. Must be accessible to tenants and must not looked.

or locked.

Lowell, Mass.

Shall be provided in buildings 2 or more stories in height having flat roots. Must be provided with laiders or stairs and kept unlocked.

**Committee of the committee of the committee

uniocked.

Memphis, Tenn.
At least one Hight of stairs shall reach to roof and there have exit. Scuttles and builkheals must be made of free proof material and open outwardly.

Milwaukee, Wis.

Every Bat rooted multiple dwelling more than one story or occupied by more than to families on a floor shall have in root buildhead or scuttle half have ladders or stairs leading to buildheads or neutries. Shall not be located in closet or room.

New Orleans, La.

Omaha, Neb.

There shall be in the roof of every new tenement at least one bulkhead or scattle, the proof or covered with fire proof material with start or ladder leading to them. No scattle or bulkhead shall have any lock on it.

Fewnsylvania (Model Law).
In tensinents, ect. there shall be at least one bulkhead learned in the celling of the common hall of the top story. Its size shall be dot less than 24x30 inches. Access there is a six of the common hall of the top story. Its size shall be dot less than 24x30 inches. Access there is a six of the common tension of the common

Pittsburgh, Pa.

Must be provided in buildings over one story high. Must be located in hall, be constructed of fire proof material. Scottles must be kept free from obstructions.

Providence, H. I.

Must be constructed of fire proof material.

Bookester, N. Y.

Must be provided in all tenements of more than 2 stories in height. Must be of fire proof material in fregroof buildings and may be of wood in non-firegrood buildings.

All buildings over I stories in height shall have scuttles in roof, covered with incompatibility attached is and ladder or stairs permanently attached isading thereto from the floor below-not less than 19x19 feet, must not be locked.

Tuledo, Ohio

Toronto, Can-

Washington, D. C.

Apariment houses must be provided with bulkheads or scuttles to be determined by class of apartment, lightways must have stairs with rails leading to root. Scuttles must be a scuttles or bulkheads must never be locked.

FIRE PROVISIONS-Shafts

Construction of shafter is subject to ap-proval of Implector of Buildings.

Rustin and Boston, Muss.

Rustin and dono walters in terminal more than 2 stone walters by seclosed in Brestood material and provided with the

Wells of shafts, down waiters, etc., must be of fire proof material.

Calgary, Can.

Colpary, Una.

Controller, Mars. shall be enclosed if they extend through more than 2
stories. Must be fitted with approved fire
doors and fire windows.

Shafts must believed, 11t, wall or solid massing from ground be between spartments.

Shall be covered with fire proof material in non-fire proof buildings.

Celumbus, Ohlo

Dayton, Ohlo

Denver, Colo.

Res "Fire proof stairs."

Shafts from bakeries must be of brick at least 5 inches thick.

Dumb water shafts for proof bidgs, can be enclosed with fire proof nurtition with fire proof deers. Openings must have doors kept closed when not to use.

Missister, Wis, Shall be constructed of its proof material incomposit.

throughout.

Minarapolis, Minn.

In multiple dwellings sharts, elevators or
domb waiters shall be constructed of fire
proof material. Humb waiters must have
free proof doern at openings.

Shaft shall be fire proof throughout with standard are does at all coorings at each story.

Shall be constructed of fire proof material.

Paterson, N. J. Shafts and dumb waiters shall be enclosed in are proof material.

Penasylvania (Model Law). Shall be emblored in while of fire resistive material and there shall be no openings ex-cept for desire and skylights.

Pittisburgh, Pa.

Partians, Ore.

All shafts and clothes clustes shall be any closed on four sides. Walls plantered on metal lath or lined with metal.

Providence, H. L. All shafts in ion-fire proof buildings shap be enclosed in brick or other dice proof material appeared by Building Importor.

Richmond, Va.
Shafts and dumb waiters shall be enclosed with fire preof material.

Rochester, N. Y.

See "Halls and Stair Partitions."

Seattle, Wash.

Teledo, Ohio

Walls of shafts shall be of brick or other five proof construction throughout

Washington, D. C. Ellovator and light sharts shall be nee proof as specified in "Fire Proof Stairs."

Warrenter, Mass. Shalls must be constructed of masoner.

FIRE PROVISIONS-Bakeries and dangerous instances

linitimore, Md.

Problitics in con-rice proof tenements un-less rooms where such bushess is carried on are enclosed in are proof walls and cell-ing. No opening between rooms and other parts of tenement.

Bridgeport, Conn.

Caigary, Cam.

No perhous shall conduct any place for beiling sone, running exadies, melting tallow or any dangerous business without permit from Sup. of Hidgs.

Cambridge, Mass.

Chicago, III. Cincinnuti, Ohio Shall not be maintained in non-fire proof tunement house unless work from where it is carried on is enclosed in fire proof walls and no openings shall connect with any other part of the tenement.

Rooms used for such businesses shall be enclosed by standard five proof walls and spenings shall be dovered with are proof doors.

Denver, Coto.

Detroit, Mich.

Beheries are profilinted except in fire proof tenoment. Openings from places where points offer, sprintents figures or drugs are kept into half or stairway used by tenants are profilinted.

Indisampelia, lest.

Prohibited in tenement houses of nonfire-proof construction.

Lowell, Mass. Lovell, Mass. Memphis, Tran.

Milmankee, Wis.

Prohibited in multiple dwellings. New Orieman, i.a. Indicate proof in the proo

Omatin, Neb.

Danton, Neb.

Paterson, N. J.

Problisted in non-dire proof intements unless room in which business is carried up is choiced in the proof of the proof of the property of the

buildings of fire resistive material provided the openings are covered with fire proof dwers.

Pittsburgh, Pa.

No horse, cow, piz, sheef, gust or poultry
shall be kept. Varnot be used for slangerous
or combactible articles.

Perfond, Gre.

Portland, Ore. Pravidence, R. L.

Rickmond, Va.

Rochester, N. V. Probibited in non-freeword tensment houses.

No bekery in non-preposit tenement increase. No bekery in his life if a proof tenement in less cetting the life in the proof tenement in less cetting places where are true places where the places are stored shall be presented by the proof doors or closed up solid;

Totesto, Ohlo

Permit must be secured from Committee on Property before bakers ovens may be installed.

Washington, D. C.

Shall not be Workster, Mass.

Notes the state of the con-fire proof homes unless such indeed in other minimum is made and to by Re. Spoof instruction and it. There shall be no openings between such place and any other part of smilling.

Haitmore, Md.

Interior lots. Kenyured at roar of every tenement and muse stread across entire lot free from ground to sky. Minimum width It iloressed it for every additional Iz fi.fr. above 60 ft. in height of tenement. Corner iot. Lots loo IT. in depth. minimum T. Cerns iot. Lots loo IT. in depth. minimum 5 depth of lot. but never less than 3 ft. Corner Lots. Minimum a percent of area of tot. Increased I percent for each story over three. Minimum 10 ft.

Yards extending across lot, and 10 ft. deep required for interior late. Made yards shall not be less than 4 ft. When bypics on also yards are from 24 to 35 ft. high, side in height at less than 10 ft. when the state of the late of the

Every tenement shull be provided rear yard the entire width of the lot as to deep on laner late and 35 ft. deep on user lots.

war lots. Dayton, Ohle
Whith—across let.
Depth.
Corner let minimum 20 ft.
Other lots minimum 25 ft.
Other lots minimum 25 ft.
Other lots minimum 25 ft.
across let.
Additional stary. If tensment occupies 100 per cent of lot s roof garden shall be provided in lieu of a yard.

Dense, Call. Denver, Cuto.

Descript, Colo.

Descript, Mich.

Descript, Mich.

Interior lots. Tenement must front on a street 40 ft. wide or an alley 20 ft. wide or or clies he set book distance so as to make the open area in front of tenement equal to these distances. Tenement must have rear yard 15 ft. with 17 t. added for each additional 10 ft in height for building over 25 ft.

Curner lot 30 percent.

Deleth, Minn.

Endanapolla, Ind.

Final scient across entire lot. Corner lot
yards shall scient across entire lot for seasons
yards shall be 25 ft. deep spiess depth (1 bits in the thin
100 ft. then yard shall be 25% of yard depth
but never less than 10 ft. If the boune

exceeds I stories in height, the depth shall be increased 2 ft, for each story over 1. Side yards shall not be less than 4 ft. in width.

Where tonesmin the 3 states in height, year tonesmin the 3 states in height, year shall be 15 ft. day a states in height, yeard shall be 15 ft. day.

It. for each additional additional of the temporal It. for each additional wheel the states in the state of the states of the states

Lowell, Mass.

Memphis, Tran.

Memphis, Tran.

Finall be 10 Tr. deep for 4 story 100gm. May be derivased 1 ft. in septh for every story less than 4. aball he bereased 5 ft. 100 every story source than 4. Corner lots shall have rarely compared to the common of the story story lots and have lots in the decreased on the common of the story of the story lots of different brightly.

brights.

Milouskee, Wis.
Shall extend across the entire width of lot and shall be is the height of the tenoment, but sever less than 10 ft. measured to venter or alloy if there is one. For corney bats not be a few or and the less than 10 ft. deep unless lots are less than 10 ft. deep unless lots are less than 10 ft. deep shall be 10% of lot.

Shall extend across ontire let. In no case shall a rard be across ontire let. In no case shall a rard be less than lett. deep. For a let a represent the less than lett. deep for the every story state that let 25th of 10th for every story story less than 10th le

Interior lots. Every tenement 50 ft, or less in height shall have a yard not less than 12 ft. in every part. To be increased 1 ft. for every additional 10 ft. in height.

Bridgeport, Cana.

depth of lot but never less than 3 ft.

Boston. Mass.

Tard shall extended the of let and insobstructed from ground to sky. Corner lots, minimum depth 6 ft. Corner lots over 25 ft. while 12 ft. Other lots, 12 ft. If the hithling is in second of 35 ft. high, the yard shall be increased in depth one foct for when (11 tenement about our railway, semi-slay or park. (2) When surrounded on 2 sides by streets or alleys more than 15 ft. wide (2) Leatend on low Whien runs through block, etc. 1800 p. 25 of Building Law.)

Heidegropt, Cann.

Calgary, Can.

Calgary, Can.

At the rear of every lot there should be a year own and moistructed 19 ft. wide.

Shall be increased 19% of for area for every stary above.

Cambridge, Mass.

Interior lots, For temenous 2 stories high yard shall be 10 ft. deep. For each additional of the company of the part of the increased of the company to the part of the increased of the company to reduced to one half that of inner lots for a length name of the company to the same as in Benton Code.

Interior lata. Every tenement unless absetting on alley must have yard at rear minimum 19 percent of lot. Increased 1 percent la area for each story over three. Minimum 18 ft.

for brilding Se II. In helpfit. That per-for brilding Se II. In helpfit. That per-or Se II. seems of Se II. shall have a UT. II. deep to be increased in depth as ideal for in interior lots.

Shall be a Comsha Neb.

Jose the carried at least 10 ft. wide, inless the carried at least 10 ft. wide, inless the carried at least 10 ft. wide, inless the rear line of bidg, shally, in whice
than 16 ft from opposite side of aller. That
shall be \$5. of area of but on cerner lots
and 10% on char lots. Yard shall be inprepared 15 of area fur every stary above
lires.

Farrens, A. J.

Tard shall extend across lot and shall not be less than 12 ft on inner left. On corner lots it shall not be less than 19 ft deep.

The building shall be so located on the lot so that the shall be a yard at least 5 test to death.

Interior late. Yard must be 20 percent of area and 5 ft, in earth.

Corner late. 10 percent of area and 5 ft.

Ta percent. Carcinauri, this carcinal to the first percent carcinal to the next more than 10 per cent may be occupied, except when area of for in less than 1000 sq. (t. 15 percent may be occupied, when less than 100 sq. (t. 15 percent may be occupied. Columbia, Ohio Courser lots with streets on 2 sides, 75% Oliter corrier lots with streets on 2 sides, 75% Oliter corrier lots. Measurements shall be taken from ground-level.

Dayton, this

No huiding shall occupit such persent of the lat as will hisder its lighting and ven-Denver, Colo.

Chemer lots same as above laterier lots 18 pers

interior lots asine as above, interior lots 78 percent furbith, Minn. Indianapolis, Ind. Curner lots. Sixteels on 3 sixtee 2005. Other corner lots 25% 45%

Bridgeport, Conn. Culgary, Con.

Cambyldge, Mass. Corner lot, Chicago, IL. Street on three sides 90 percent. Interior lot. 75 percent.

Balgimore, Md. Corner lot 30%. Interior lot 70%. Boston, Mass.

VAHDS-Confd

Portland, Ore.

Pravidence, R. I.

Historical, Va.

Rochester, N. Y.

Chenner labe-parad must be 10 feet in depth, values lot is less than 100 feet deep then yard must be 10. Feet deep then yard may be 25 per cent of lot but never less than 5 feet. That part in ernoes of 50 feet must conform to requirements for laterical yards.

For interior yards, and the property of the conformation of 12 feet in the laterial part in depth.

Interior lefts. Yards must be 18 ft. deep for a stories on incide but and exteent agrous online but. Increased 1 ft. for every added story. Bencamed 1 ft. for every ctory. Moreover, the story bencamed 1 ft. for every ctory for the story bencamed 1 ft. for every ctory for the story.

of lot.

Senttle, Wash.

Interior lots, Yards shall not be less than one-eighth of depth of lots. Minimum h ft.

Shall be increased 1% of area of lot for each story above 5.

Corner lots. Yard shall not be less than 1-16 of depth of for. Need not be increased with height of building.

Totado, Ohio

Toronto, Can.

Keery totement shall have a yard 500 sq.
ft. in area, for each suite of spin on the
floor having the greatest number of suites.

Worrester, Mass.

Shall be 12 ft. deep for houses 3 stories in peight. Dopth shall be increased 2 ft. for each additional story.

PER CENT OF LOT OCCUPIED

A minimum of 80°C on corner both and of 10°C out other lots. The space that the house sols hack on the lot shall be counted as oc-cipled.

Lowell, Mass.

Hame as Model Law.

Milwanker, Wis, 90% at corner tot. 19% of other tota

Minneapolis, Minn.
Corner lots with atreat on 2 sides, 50%.
Other corner lots, 55%. Interior lots 55%.

New Orleans, La.

Corner lots str. Fire proof bldgs corner lots 50% Corner lots with streets on 2 sides 50%. Other lots Tay.

Paterson, N. J. Not more than 90% of ourner lot or more than 10% of any other lot.

than 10% of any other lot.

Not mare than 30 per cent of a cerner lot and not stand 30 per cent of a cerner lot and not stand to the latest from the ground and the uncertained percentage shall be free from the ground to the ground to the aker.

Corner lots, streets 25 ft. wide 30 per-cut. Corner lots, streets 25 ft. wide 30 per-cut. Corner lots, street not loss than 28 ft. wide on three sides. 16 percent. Interior lot. 50 percent.

Peritant, Ore.
Buildings shall be so placed as to receive natural light and ventilation.

Corner lot 85 percent.
Interior lot 80 percent.
Richmond, Va.
Rechester, N. Y.
Same as Model Law, except it does not apply to tenements running thru from one street to another it such lot is less than 100 feet.

St. Paul. Mor.

apply to tenements running thra from one ferrest of another it such in is less than 100 feet deep.

St. Paul, Minn.

Corner lot 16%.

Sectile, Wash.

Firs proof bidge, need for thints or apts.
above let story and for other purposes belev may have cellar and bend, cavering the
width of bot if the lower stories are supposed with light, air and ventilation. No 2nd
width of bot if the lower stories are supposed with light, air and ventilation. No 2nd
width of bot if the lower stories are supposed with light, air and ventilation. No 2nd
areater 5 than as follows:

Corner tot on 2 streets 18%; Corner lot on
2 streets and alley 85%; Corner lot on
2 streets and alley 85%; Corner lot on
2 streets and alley 16%; Corner lot on
2 streets and alley 16%; Corner lot on
2 streets and an alley,
18%; Interior but on one street and an alley,
18%; Interior but on an estreet and an alley,
18%; Interior but on the street and an alley,
18%; Interior but on the street during as are
used for huminess purposes only.

Washington, D. C.

Corner lot not less than 75 ft. deep and
put over 5 ft. wide, 199%. Triangular as
irregular abuped to extending from street
to street 10%; Corner lot 5%; Interior lot
18%.

Corner lots 80 per cell.

Worcester, Mass. Corner lots 80 per cent. Others 70 per cent.

REAR TENEMENTS.

Baltimere, Md. Hear tenements forbidden unless rear of lot about on street 40 ft. wide.

Beston, Mass. Heidgeport, Conn. Columny, Can. Cambridge, Mass. Chicago, Ill. Forbidden except on curner lots. Cincinnati, Ohio Most front on atreet. Dayrou, Ohlo Denver, Colo.

Detroit, Mick. Dulmin, Minn.
Tenement must have one side fronting on street.

Prohibited unless such tenement abutts on two structs and located on outside center of lot.

Prohibited. Lowell, Mass.

Memphia, Tean.
Prohibited indexs six foot sidewalk is left between bldg, and alley curb.

Milwanker, Wis.
Permitted if there is a yard of 15 ft. between it and rear of other tenements.

Prohibited. Minneapath, Minn. New Orleans, La.

When a temment house stands on a lot either than a corner but, no other ideg, shall be placed in front or rear of it, unless the animum distance between such buildings be 10 ft. If they are one story building a ft. shall be added to this space for each additional story.

Prohibited.

Prolibited.

May be eracted, provided (1) lot on which it shared in bounded by a street on suc side and an alley on the other not less than 20 feet in width. (2) That the distance of feet is width. (2) That the distance of feet (3) The rear of such building having principal entrance on the street shall not approach nearer the alley than 6 feet and sever the principal entrance is on the alicy the rear of such such as the process of the saley the rear of such alley than 6 feet and sever the principal entrance is on the alicy the rear of such alleys the rear of such as the process of the saley than 16 feet.

Pittsborgh, Pa. Pertland, Ore. Providence, H. L. Hickmond, Vn. Prohibited. Rochester, N. Y. St. Pent, Miss.

Seattle, Wash.

No tenement may be built on the inside of a rear lot unless there is a straight postsaseway to the attroct equal in whith its is
of the which of the lot.

Tolede, Okie

No tenement shall be evouted on any street lane, alloy or other place less than 40 ft. in width unless such street is a public highway.

highway

Washington, D. C.

Hidg se a court or alley cannot be higher
than the distance from the opposite side of
the open space on which it from Tenement cannot be placed on any aley less than
26 ft. wide and not supplied with sewage,
water mains and light.

Worcester, Mass.

Space between them and buildings on front of lot shall be twice the depth of rards.

HEIGHT

Bridgeport, Conn.

Calgary, Can.
No bidg, can be over 120 ft, in height,

Cambridge, Mass.

One story for each 10 ft, of street width except for streets 40 ft, wide, which may have one story for a ft. of street width.

Hoight shall not exceed one and one-half times the width of the street.

Clarinant, Obla

Shall not exceed width of whice street as which it stands unless it stands where it stands have at a distance that equals the excess height.

Dayton, Ohio

Denver. Colo.

Defroit, Wich.

Shall not exceed in beight too width of the widnet street on which it about, never higher than 180 ft. Dave not apply to botels.

Daluth, Minn.

Dainth, Minn.
Indianapolia, Ind.
Same as Model Law.
Louisyllie, Kr.

Lowell, Mass.

Memphis, Tenn.
Shall be properly lighted by windows open-

Halls should have is an fit of glass per soor. One window shall be 5% fc high.

Same as Mosters Hasself in place of window at end of hall there may be window at lead of hall there may be window at long sides at intervals of 20 ft. There shall be say fights over stairwestle.

Calgary, Cas.

There must be a ventilaling skylight at least 25 sq. ft, in area. Sach half shall have at least one window opening into areas, year, court or went shaft. Minimum window area per Sope is it so, it

Minimum window area per foor is in st. If Cincinnati, Ohio Minst open on street, part or copy. There shall be not less than 12 sa. ft. Shall affine have window at end or windows along side at intervals of 12 ft. Shyliant may be substituted for windows if it provides intequal light and vanillation.

Same as Model Law.

Shall have window or skylight sample to light the same.

Denver, Colo. Black ball shall have 15 sq. ft. glass area, skylight must have 26 sq. ft. glass. 189 sq. sach opening.

Bridgeport, Conn.

Milwanker, Wis.

Same as Model Law, Neb.

Fame as Model Law.

Pairrans, N. J.

Shall not aveced by more than one-half the width of the widest street on which It abust.

Shall not be more than one and one-half times as high as far widest street on which it abust.

Shall not be more than one and one-half times as high as far widest street on which is distinct faces. The street of the height the distinct for building acts back from circle here may be added to the width of the wirest.

Pitodurch, Pa.

Portland, Ore.
Shall not expect two times the width of widest adjoining street. In no case whall any tenement exceed 128 ft.

Providence, R. L.

Simil not exceed the width of widout attest upon which it down.

In no case shall it exceed 6 studies or more than 12 ft.

New Orients, Lie,

The width of care than one-fourth than one-f

St. Paul, Minn.

No fire print from easil exceed in height the width of the width adjulying afreet plus 15 ft, and in no case 125 ft.

Teleda, Ohio

Create, Can.

Create has instanced by Create a blog shall not a blog the health of a blog shall not a blog the health of the street on which it fronts, increased by 20 ct. Nover over 136 tt except on the north side of Poppaylyania Ave. where the Unit is 100 ct.

Some as Model Law.

HALL WINDOWS

Halls must have in eq. in of plans per story.

Same as Model Law

Shall have a window at end of halt or windows abong sides at intervals of 29 ft. A skylight over each start work windows.

Memohis, Tran.

At heat one window must have 10 st. ft. of glass area. In tunits, I or more stories high, when halls on each floor are not orostal, when halls on each floor are not orostal, be placed over our starty stories which he placed over our starty as stories in the placed over our starty of the start is an area of hall shall have I window spall be at each of hall parallel to halls act; or windows may be in side of hall at intervals of the start in the start of the start is an area of hall parallel to halls act; or windows may be in side of hall at intervals of the start in the start of the start is such as a start of the start

Every heal shall have at been one wintow opening on effect, yard or court. Any part of hall shall only any or court. Any part of hall shall of from the other part shall be deemed a coperate hall and be provided with a superate window. I of such windows in each half shall be at least 2 feet 5 them that I have a superate windows the same half and the same and the same

Pittsburgh, Pa.
Postland, Ore.
Pravidence, R. J. Hickmond, Va. Rochester, N. Y.

Is tenemant over I stories high hall win-dow must be 5th ft, wide and 8 ft, high. If there is no window in hall opening directly is note at much more shall be provided.

Every hall must have one window open-ing directly to the outer als or transens with it up it of give acts.

Toledo, Ohio

Tornato, Can.

Washington, D. C.

Each hall shall have at least one window covering the state of the sta

COURTS

for each additional story in height. May be less than minimum width required provided length is not greater than width.

Helant of	Chicago, III.	Minteson
bldg.	of coart	area
Latore	6 feat	100 mg. ft.
i wtories	6 feet	120 mg. ft.
astories :	# Test	160 mg. ft.
# Stortes	E Test	350 ML ft.
Schlodless.	12 feet	300 ME 51.
4 stoyles	10 feat	30000063 Etc
1 stories		635 aug. ft
stories	It feet	8 CO WILL LE

Court shall have opening to street? It, wide to the total the court of the court of

It passage if on a lot 20 feet wide.)

Chechmant, Okie

Inner Courts. Minimum width 1 ft.

Liner Courts. Minimum width 2 ft.

Lot see 12 ft. Minimum width 2 ft.

Lot see 12 ft. minimum width 2 ft.

Outse Courts. On lot line they shall have
minimum width of 2 ft. and length of 2 ft.

Width shall be increased 1 ft. for every
additional 12 ft. is length ever 1.

additional 12 ft. in hoght over 28.

Columbus, Ohle

Inner Courte Courte

Toure Courte Courte

Toure Courte Courte

Outer Courte, For 2 story tenument not

less than 10 ft. wide, width shall noreasse 2

If for each additional story. No court shall

Inner Courte Deprine Ghe

Inner Courte Courte Courte

In height For each shall be

if if, for Inner 15 ft. in height the shall be

difficult if it neight the width shall be

innitium width.

Outer Courte Minimum width shall be 2

the width shall be 1

the width shall be 2

the width shall be 2

the width shall be 2

the width shall be 1

the shall be 2

Benser, Colo.

Descript, Colo.

Detroit, Mich.

Width of building

I story

I story

I story

I stories

Otherwise same as sul courts.

Dulath, Mian.

Osser Courts. Shall be open at top. For a two story building the minimum width shall be 16 ft. For each additional story the width shall incredes 21 ft.

Tear Courts. Minimum of outer courts.

In less than two on minimum of outer courts.

Courts, Outer, No. court shall be covered with road or skylight. Width shall be covered with road or skylight. Width shall never be less than minimum required for long court. Inner Courts, Manimum width, 19 ft. for a story beiggt, for each additional story width shall be increased i ft. Minimum area 20% of ft. For every additional story an increase of 20 of ft. is reguired.

Lewell, Mass.

Court, Inner. When on lot line it shall have minimum width of a fit and minimum stea of 12 mig fit. For every story over 4 stories the court shall mirrouse bit in width and if it in bength. May decrease in fit for ever stories over under i and in mi fit designed from area. When enclosed an i gides the least dimension shall be introduced to the story of the court of t

	4000	all Marie 14	2000	
House	Min. Kin	Inters.	No. of Concession, Name of Street, or other Persons, Name of Street, or ot	WOMPHINGS.
	7.00	St. IL.	Settle Milk	TE.
(2)		sitt. Ch.		PT.
- 2	975	HQ. ET.		Ct.
- 75	200	mg. fr.		rt
240	750	mei. It.	110	ft
4 B H 7 M B		Mil. ft.	1.0	f E
1/8/	750	mu. II.	160	ft.
11-04	11100	MG. SI.	20	ft.
10	3,600	#q. ft.	240	fi.
Outer	CHUTTA . B	or work	r lut line	EDULTS:
and Inni	or Courts			
	Hos	cton, Ma	86.	
Courts	-Outer.	No court	whall be	connered.

Bridgeport, Coon.

Courts, laneary Cosa.

County, Loneary Cosa.

Courts, laneary Cosa.

Cosa.

Constant Cosa.

Cosa.

Constant Cosa.

Cosa.

Constant Cosa.

Courts, Outer, When an outer lot line it shall be 6 ft wide for lot story and 1 addi-tional foot for every additional story. When lessed between wings it shall be 16 ft, wide for 2 story tenements and 2 additional feet

COURTS-Cant'd

overy additional more which shall increase to f. When Jested betw. wings maintenant width a between the course of the story being to the course of the cours

spends I ft. for each story Usager 4.

Milwanker, Wis.

Inner courts. Shall test be jess than 10 ft.
wide nor less than 10 eg. ft. in area for
courts 2 stories in height; for every additions sincery the lends that and with shall be
Outer courts. Shall sat be been than 2 ft.
for 2 story bids. Width shall increase 1 ft.
for anch add, story. When situated between
wings of name bids; it shall not be less than
wings of name bids; it shall not be less than
it wide for 2 story bids. For each additions story it shall be becamed 1 ft.

thank story it shall be increased t ft.

Minarapolis, Mina.

Course, Gutton, No. court shall be covered by 7000 or 1000.

No. court shall be 12 ft. shall be covered had be measured to be the William story. The length shall never be greater than four times the width. Tance Courts shall not if the agent shall not be the same as for outer shall not times the width. Tance Courts. Minimum width is the same as for outer source. Arms shall nove be less than twice the square than twice the system.

New Orleans, In.

Inner courts, Courts shall be 15 ft, wide and 156 sq. ft, in area. Width to be increased 2 ft. for every additional 10 ft in height of building.

Outer Court For tenemant 50 ft high court misst be 12 ft. wide, increased 2 ft. for every additional 10 ft. in height of building.

Dushn, Neb.

Paterson, N. J.

Laner courts. When one side is on inner let
line. Minimum width shall be \$11. when enclosed on all sides it shall be \$14. For
very increase of 12 it in height above \$0 ft.

De width or such courts shall be thermass.

1 th Otter Courts. Shall not be covered.

For tenement over 2 stories intake must be 21g ft. by 51g ft. If area of inner court of truement exceeds 210 Mg. ft. Intake must be 57g of centra res.

Must be I ft. wide by 7 ft. high. Must open on street yard or aller. Beidgeport, Conn.

Calmery, Con-Cambridge, Mass.

Dance courts shall have at least one any intake, connecting bottom with street, yard, or alley it shall be S Ct. wide by T It high

or alley: It shall be a to non-Chicago, ill.

Must connect with street, alley, yard or court, and he at least 10 percent of size of vent shaft and at least 100 sq. faches in area.

Checkmanti, Oho

Inner courts extending through two stur-ies shall have be 5 ft. wide by 7 ft. high-lant. It must be 5 ft. wide by 7 ft. high-Dayton, Obla

Denver, Cole.

Betreit, Mich.
Courts extending more than I story shall have berisental intake at bottom. It shall be 3 ft, wide and 7 ft high and must communicate with street or yard.
Dulath, Mins.

by roof or skylight. Minimum width when measured from lot line shall be 2 ft. 2 ft. for 4 story bldg. If the court is between windows the minimum width shall be 4ft. If bldg. Is ever 5 ft. the width of court shall be increased 7 ft. for width of court shall be increased 7 ft. for width of court shall be increased 7 ft. for width of court shall be increased 7 ft. for width of court shall be increased 7 ft. for width of the court shall be increased.

PermayFranka Chical Lawi,
Charls inner,
Shall have a least dimension of not less
than 16 fact.
Inner courts shall be 10 ft, wide. Outer
courts must be 10 ft, in width.
Minimum width—6 feet.

Pravidence, H. L.

Bickmond, Vs. Richmond, Va.

Court—Inner. When on inner but line on inner. When on inner but line on inner. When on inner to the line of the building shall be 12x1. For every 12 bet of the shall be 12x1. For every 12 bet of the shall be added of subtracted. When enclosed on a taken the minimum with shall be 24 fact for every 12 bet increase or decrease in the shall be added or subtracted. When enclosed on the shall be added or subtracted. When sen but line weart shall have minimum, width and of feet for a building of feet bugh, For every 12 feet increase in height the court shall be increased in foot in width for every 12 feet decrease in height court shall be increased in foot in width for every 12 feet decrease in height court shall be increased in foot in width for every 12 feet decrease in height court shall be less of the shall be added or subtracted for 12 feet increase or decrease.

St. Peal, Minn.

secrease 94. Paul, Minn.

Inner coorts, Courts shall be not less than the Ct. wide and 12 ft. long. Introduced 6 inches for every story midve 4.

Outer cherts, Courts, shall be not less than 4 ft. Increase 6 inches throughout entire house for years, added story above 4.

Wester of hists. Wach.

18 story of hists. Width of court.

1 story of the court.

2 stories of the court.

3 stories of the court.

4 stories of the court.

5 stories of the court.

5 stories of the court of the court.

5 the stories of each story above the court of the court.

10 the court of the court of the court of the court of the court.

11 the court of the court of the court of the court of the court.

12 the court of the court of the court of the court of the court.

13 the court of the court of the court of the court of the court.

14 the court of the court of

Tuledo, Ohio

Toronto, Can.

Inner courts. For hidg, 25 ft, in height width of court must be at least a ft, and area 45 sq. it. 3 inches added to each dimersion for each cot of increased neight.

Other courts. Court 25 ft, in height for court and the property of the court of the c

Weresser, Mass.

Outer Courts, Minimum width shall be for the when on let Bon. Others shall be double this. For each additional story above I the width shall be increased if it. Length shall not be greater than I times length unless provided with intake.

Inmer Churts. When on lot line minimum width abail be 7 ft. When environed on 4 sides it shall be doubte this. For each additional story above 2, width shall be increased 7 ft.

INTARES

Every inner court shall have 2 or more borizontal latakes at bottom. They shall not be less than 2 by 7. One shall open on court, but on the less than 2 by 7. One shall open on court, but on the less than 2 by 7. One shall open on court, but of the court of the cou

Lamps course shall be provided with horizonal intaken; it shall commodicate with street, rurd or aller and he not less than 10 ft. in area in cross section.

Lowell, Mass. Memphis, Tenn.

Milwanker, Was.
Milwanker, Milwanker,

In vent courts intake shall not be less than a sq. ft. in other inner courts not less than 1 ft. wide and 7 ft. high. Shall be approved by City Engineer.

Omaka, Neb.

Paterson, N. J.

Inner Courts shall be connected directly with arred; yard, aller or outer court by a ground passage on; it shall be at lead 4 feet wide and 8 feet high and shall be kept

free from electroctions of any kind. Dot-tions shall be adequately drained and paved with coment or concrete.

futukes open into street or pard.

Portland, Ore.

Providence, H. L. Richmond, Va.

Inner courts and vent shafts shall have such access as will enable them to be clean-ef out. St. Paul, Minu.

Interior or party line sourte unless hav-ing 50% granter area thun required must have greater area thun required must have greater area to 5% of the area of the cours, except in blugs, not over 2 stories high. Tuledo, Ohio Turonio, Cas

Every inner court shall have one or more horizontal intakes at the bottom and connecting directly with arrest of yard with the Area of 18t of cross section of area of court.

Inner courts what have one or more hori-nordal are intakes. It shall be 7 ft. wide and 7 ft. high and communicate with street, yard or alley.

VENT SHAFTS

Maltimore, Md.

Air and vent shafts shall be from 2 to 10 ft. wide, with area from 14 to 163 sq. ft. For turnis, 2 to 10 stories high according to schedule.

schedule.

Skall be not less than 1 eq. ft. in area, and not less than 1 ft. in less timension for buildings be ft. that ft. for every increase of 10 ft. in height the least distantion shall be increased if ft. and area not less than 5 or.

Bridgeport, Conn.

Calgary, Cas.

Shall have Cambridge, Mass, the openings on all aides under skylight. Far 3 story huldings the minimum width shall be 3 ftr and area it feet. For each siddicional aftr the width shall be increased by 1 foot and area by 1 we feet.

Area 21 60 ft 22% sq. ft 27 80 ft 48 80 ft 48 80 ft 72 80 ft

Width Area 1 feet 120 sq. ft Cincinnati, Okla Columbus, Ohio Dayton, Ohle Denver, Cela.

Dulnth, Minn. Indianapolis, Ind. Lautsville, Ky.

Lowell, Mass.

Lanst dimension shall not so has than 2 ft. shall not be less than 15 so, ft. in area. Shall so jurreased 2 sq. ft. in area for each additional story over 4. Milwankee, Wis, Probibited except for purpose of lighting or ventilating water cluset.

Minneapolis, Minn. New Orleans, Ln.

Omnter, Neb. Paterson, N. a.

Shall have a dimension of not less than 2 feet. The passage way shall be constructed the same manner required for courts, except it need he only 2½ feet with by 5 feet high.

Pittcherum, Pa.

Portland, Ore.

Portland, Ore. Pravidence, H. J. Richmond, Va.

Rechrater, N. X.
Minimum dimension 4 foot. Minimum area
20 fact. For each 12 foot increase in height
2 square feet shall be added; for a similar
decrease 2 square foot may be subtracted.

Par 4 story tenuments shafe shall not be less than 12 m. ft. in area. Least dimension 2. ft. Increase 2 sq. ft. for each additional stary and uniform throughout.

Senttle, Wash.

Far 2 story tenemonia ablate shall not be lies than 40 sm. It. I storpe that less than 20 sm. Tt. 20 sm. Tt. indillinest for such ad-ditional story.

Washington, D. C.

Worcester, Mann.
Shall not be resided over. Least dimunition shall be 2 ft. minimum area 12 sq. ft. For such after less than 1 minimum area may be decreased 1 sq. ft.

One room shall be 129 sq. rt. gthers 10

One rison shall have at least 128 on ft of floor area. Other couns shall have at least 98 og. tt. of scoy area. Each room shall be at least \$\frac{1}{2}\$ tc. high.

Bridgeport, Cons.

One room with 150 sq. ft. of Beer area oxcept water closets and hath fooms. Not
mark than one with less than 40 sq. ft. and
none less flam 62 sq. ft. No room, except
water closet and but he consistent in the
han 7 ft. with small 55 ft. high.

Minimum area of one room shall be 120 an ft, others 80 so, ft, except that these having a window not less than 15 so, ft in area uponing on street sait he 70 set, ft.

One coom-120 on, it boor area. All spaces less than 70 on, ft. In area shall be considered closets or aboves.

Colombia. Ohle Same as Mudel Law except rooms shall be only \$5 ft nigh.

One from with 120 sq. ft. of floor area. Other rooms 70 sq. ft. of floor area.

Reston, Mass.

Bridgeport, Conu.

Calgary, Can. Cambridge, Mass.

Chirage, III. Rooms shall be sig ft. in height. Atti-

Cincinnati, Ohio No room shall be less than 8 ft. In height.

Denver, Cele. Rooms must be 11.8 th except attle rooms in one and two family houses need be 5 ft. et increase in the transfer for a transfer for the family houses need be 5 ft. et inches in his 6 gers, but at so point less than 6 feet in height. No room in tensment hereafter exceled shall be in ony part less

Columbus, Oblo

ROOMS-ARKA

Deaver, Cols.

One room in besements must centain 150 ms. It mt floor area. Kitchenetter 55 ms. It of floor area. Kitchenetter 55 ms. It of those area. All others, except bath worms and water closest compartments. So ms. It. of floor gress. No risons except kitchesettes shall be less than 7 ft. whis, no room best than 4 ft. and 5 inches high. Detroit, Mick.

Dulath, Minn.

Same as Model Law.

One room 150 up ft, of flour area. Others 54 up ft. of floor area.

Lovell, Mass.

Memphis, Tenn. One result 118 mg ft in floor area. Other rooms, 79 mg ft in floor area.

Milwaukee, Wis.

In two family and mobility dwellings every room shall contain at least 10 sq. ft. of floor free. No room shall be hear than 7 ft. wide. This does not apply to kiloheastes or skeping porchas. Two family dwellings must be 5 ft. high multiple weeklings by ft. field.

New Orleans, La. three reem 130 mg (1.; others except water vicests and bath rooms 100 mg fr.

Omaka, Neb.

Due room shall have a minimum floor area of 1.20 so, ft. other rooms 10 sq. ft. No rooms shall be less than 5 ft. high.

Pennsylvania (Biddel Law):
Each aparticant smill have at least one room with 15s aquare feet of door area; every other room shall have not less than 10s square feet of door area;

Pittsburgh, Pa.

Persiand, Ore.

Providence, R. L. One room shall not be less than 128 sq. ft. in area. Other rooms 76 sq. ft. Bickmand, Va.

Hickmand, Va.

The room the marketer, N. Y.

The room the super feet theer area.

Others 's separa feet theer area.

St. Fand, Minn.

One room shall be 120 on ft. Soor area, all

others 's and 't.

One room shall be at least 520 on ft. In

area, others as si, ft. except butches, Tollet,

sto.

Toledo, Ohio

Torento, Can.

(Une room whalf have not less than 170 eq.

(C. of oren, all others at least 100 es. ft.

Washington, D. C.

Warrester, Mass. One from 170 ag (L of Hour area Others 90 sg (L of Boor area

ROOMS-HEIGHT

than & Pt. 6 inches high from the finished floor to finished calling. Cellar rooms shall be I ff. in clear, others

Duinth, Winn.

Indinaspolis, Ind.

Height of rooms must be 5 ft.

Lowell, Muss. Hatght shall be a feet.

Milwauker, Wis. Minneapolis, Minn-

New Orleans, i.e. Rooms shall be not less than 8 to high. Attle rooms in but one-half.

Omaha, Neb.

No room shall be less than 9 ft high.

Pennsylvania (Model Levy).
No room shall be less than 9 feet high, from floor covering to celling.

PHisherah, Pa. Rooms shall be 5 to high except utile rooms in but one-half of area. Portland, Ore.

Providence, R. L. Browns shall be 8% ft. high except after cooses shall be 8 ft. in but one-half of area. Hickmond. Va.

Rockester, N. Y.
Alf rooms shall be 3 feet high.
Storms shall be 3 feet high.
Rooms shall be 3 ft high except attic rooms in but 5 of see.

House must be a ft. 4 Inches high.

Chooms shall be \$ 71, high except attic rooms may average \$ ft. high.

Toronto, Cam. Scooms shall be aby C. high except sittle ruems in but one half area.

Woresater, Mass.

Haltimere, Md. Window area shall be one half of floor area.

Window area shall equid one-cighth at finer area. Windows shall open on street, yard or court. Bridgeport, Cont.

Culgary, Can.

Combridge, Mass.
Area of windows shall equal one eighth at flaor area, spenling on street, yard or court.

Window area shall be used tenth of fluor area. Eac window shall be used tenth of fluor area. Eac window shall be 10 sp. ft. in area and top 7 ft. ahour floor.

Cincrinett, Obto.

Window area shall equal one-tenth of floor area but never less than 12 sp. ft.

Columbias, Oblio

Cath room shall have a window or windows of not less than 12 sq. fr. in area escaling on stroet, yard or court. Total window area shall epual to of floor area.

Dayton, Ohio

Windows shall spon info street, yard, or court. Window area of each room shall equal one-tenth of floor area.

Denver, Colo.

Berrett, Colm.

Berrett, Wick.

Shall equal one-cight of floor area. At least see window must be at least 12 sec. ft. in area. In termental the Up of at least one window shall not be less than 7 ft. 4 in above the Boot.

ROOMS-WINDOWS

Dainth, Mich.

Disturb, Mice.

Indianapolis, Ind.

All recome including water closet and bath, shalf have window area equal to one-seventh of floor area.

All recome, including water closests and bath neonic shall have window area equal to one-tenth of floor area. No window shall be less than 12 sq. ft.

Levell, Mass.

Mass.

Lowell, Mass.

Eyery room except water closet or bath, shall have window opening on street, yard or court. Window area shall equal one-tenth of foot area. Willowicks Will.

Soot area. Milwankee, Wis. Shall have at least one window opening on streat, yard or realt. Window area shall equal one-tenth of floor area.

Hack room annut and so placed as to light all portions of come. Window area in each room shall small so placed as to light all portions of come. Window area in each room shall small be of floor area. At least one window shall be 17 sq. ft. between stophessis.

heads. Xem Orleans, i.e. Window area shall be sum-stath of floor area. Windows shall be founded so as to properly light all puries of room.

Omnha, Neb.

Shall have one window opening on street, yard or court. Window area shall equal one-tenth of floor space.

Penacylvania (Model Law), Every living room dealt lave windows equal to one-cents of its foot area but never less than 12 square feet apening on street, yard, alley or court.

Window area shall be one-leads of floor

Windows shall be one-tenth of Soor area if they open on a space 30 ft, or more in wisth; if open space is less than this they shall be one-eighth of Soor area.

Window area shall be one-tenth of floor area elected whall one tenth of floor shall open to external are

Shall have one room opening on street, yard or alley. Rackerter, N. Y.

St. Paul. Miss. Windows area shall be 1-19th of floor area.

Window area shall be 34 of floor area.

Window area shall be one-tenth the Boor area.

Window area shall be one-tenth the more area.

Washington, D. C.

Worrester, Mass.
Area shall equal & of floor area and shall open on street, yard or court.

BUILDINGS ON SAME LOT

Britimore, Md.

If lowest tenement is one clear, space between must be 10 ft. whos. It have tonement is 2 stories 20 ft. and 4 stories 20 ft.

Horton, Mass.

Bridgeport, Conn. Colgary, Can.

One building shall not be built nearer than 10 ft. to any other building on the same let, unless the wall of such building in countrier-ed as party wall, Party wall shall be from the present. No building shall be fulfit maker than 1 ft. to the will the shall be for party will.

Chicago, DL. For one story inhemont space between must be 19 ft. 5 ft. more for each added story.

Cincinnati, Oklo

Columbus, Ohio

Dayton, Ohlo

Denver, Colo.

Detroit, Mich.

Duluth. Minn.

Indingspolis, Ind.

Space between shall be 35 ft. for 4 story suffitings it shall be 30 ft. and for each additional story such queen shall be increased ft.

Same requirements for alcoves as for other come.

Shall have an opening into room equal to the per cent of that aids of alcove, and shall have willdow used of 12 as it. Must conform to requirements for other rooms as remarks are.

Heidgeport, Conn.

Catenry, Con.

Cambridge, Mass.

Chicago, III,

Chicago, III,

Fanne temperoments for allowers as for other
recens unless it has opening of 20 percent
of its entire grail surface.

Shall have an opening not less than & ft.

Calumbus, Ohlo

Shall have Dayton, Ohle pointing room equal to 20 per cont of He wall area. Denver, Colo.

Shall be supported. Nich.
Shall be supported to the state of the state

Water ricests shall be 2 ft. 4 Inches wide.

Boston, Mass.

Bridgeport, Coun.

Calmary, Can.

Cambridge, Mass.

Waterclosets shall be at least three feet wide and enclosed in plaster partitions.

Boxien, Mass.
Shall have at least one window, at least to by 2, opening on street, yard, ventuall or court

1 (t. by L. opening shaft or court. Bridgeport, Conn.

Windows shall be at least 2 ft. eq. in area opening directly upon a street, yard, or vent shaft.

Baltimere, Md. Window arms shall be I sq. ft.

Cincinnati, Ohio

Celumbus, Ohle

Dayton, Ohlo

Benver, Colo.

Detroit, Mich.

Chicago, III.

For bidge as ft, in height space enail be 2: ft, for every forecase of 15 ft. in height the space shall be increased by 2 ft. Lovell, Mass.

Memphis, Tons. Milwankee, Wis.

Minimiter William

Minimited Minimited Programme State Conform to regulations for side yards.

No instaling shall be exected that will decrease the minimum dopth or yards or size of courts as prescribed.

Omnths, Nob.

Paterson, N. J.

Shall be at least is feet apart.

Pittsburgh, Pa. Portland, Ore.

Pravidence, R. L. Hickmond, Va.

Hebmand, Va.

Rechester, N. Y.

Open space shall be 24 fest deep for buildings 50 fest in heints; for every increase of 12 fest the height, the open space shall increase 1 foot in depth, and for a corresponding decrease below 50 feet the space may be decreased one foot.

St. Past, Minn.

If any building is bereafter placed on the same lot with a tenement house or an apart-

ment house, the space between said building shall always be of such also and arranged in rear of such also and arranged in rear of suartment between and terement in rear of suartment between and terement accuses and no building of any hind shall be hereafter placed on the same lot with a teament house so as to decrease the minimum size of courts any forces the minimum size of courts and the same size of the section, and already another building, it shall comply with all the previsions of this section, and in addition, the space between those of apartment house in the section for inner courts, the height of the highest building on the let to regulate the dimensions.

Scattle, Wash.

Sentile, Wash.

Each bidg, shall be provided with the re-quired yards and courts and shall comply with the requirements of the law for each such hills when placed alone upon lot.

Tolesto, Ohio

Toronto, Can.

Fire proof shades not over 12 ft, high may be built if shades not over 12 ft, high may be built if shades not shade and shade equal the beight of the shad. Space between being no street and rear bliga must be equal to the sum of the rear yards computed independency.

Warecaster, Mass.

ALCOVES

Duluth, Minn.

Mine.

Same as Model Law.

Must emply with requirements for other remains except the alcove may have a floor area an adjoining come equal to 20% of its lotal wall area.

Lowell, Mass.

Menuphly, Tenn.

Milwanker, Wh.

Shall conform to requirements for other

An alcove shall have an opening squal to all percent of side on which opening is and one window. Omnhu, Neb.

Must conform to requirements for other rooms.

Shall be negaritied (Model Low), shall be negarited that the and ventilated and shall be not less than 50 square feet in area. No bart of a count that he enclosed unless it is properly lighted and ventilated and loss an area of not seen than 100 square feet.

PH(sbergh, Ps.
Dame requirements for above as for rooms unless 25 percent of its entire wall surface upons to babilitable rooms.

Shall have opening into adjoining from equal to the width of the door of an interfer room. When web room has but one their room, which have a window area equal to one-lead of the form of the opening the control of their room.

Providence, B. L. Alcove must conform to all requirements for other rooms.

Hickmond, Va.

Must conform to requirements for other

An alcove room is to be considered a part of adjoining room.

Scattle, Wash.

Alcoves shall have a permanent opening into another room situal to 75% of floor area unless floor and window area are equal to that required electwires.

Teledo, Ohio

Turnsto, Can.

Mushington, D. C. Alcoves are prohibited.

Wester, Mass,

Shall have floor area of not less than 78 ed ft. shall he semirately lighted and ventualed as provided for other rooms.

WATER CLOSEF AREA

Indianapolis, Ind. Louisville, Kr.

Lowell, Mass. Memulis, Tenn.

Milwankee, Wis. Minneagodis, Minn.

New Orleans, La.

Omnha, Neb.

Peterson, N. J.

Pennsylvania (Model Law). Each apartment shall have a separate water closed in a separate compartment; it shall not be less than I feet wide and shall be suclosed with plastated partitions, which shall extend to the ceiling.

Pittsburgh, Pa. Pertiand, Ore. Providence, R. L.

Rockester, N. Y. Shall be not less than 2 feet 4 inches wide.

St. Paul, Minn.

Scattle, Wash.

Tolede, Okio Toronto, Can.

Washington, D. C.

Worcester, Mass.

WATER CLOSET-WINDOW AREA

Shall have Combridge, Mass, pard or cover. Shall have at least spit or window area.

window area. Chicago, III.

Window must be 6 sq. ff. in area and at least one ft. wide.

Cincinnati, Okio

Each compartment shall have a window area of not less than I see, it, and shall open on a street, rard, court of shart.

Columbus, Ohio Dayton, Ohio Denver, Colo.

Shall have at least one window opening on wirest yard as court. It shall not be less than 3 sq. It between step heads.

Duluth, Minn.

Indianapolis, Ind.

Louisville, Ky-

Lowell, Mass.

Monthly, Tenn. Minterm window area shall be 2 sq. ft.

All scator clouds shall have at least one window at least 5 et it. In area spening on a street, yard, court or cent shaft.

Each water closet shall have at least one window opening on street, yard or cent window area must be not less than 9 sg ft. between stophends, is multiple dwellings one of such windows shall be not less than 2 sq ft, between grophends.

Window or skylight area shall not be loss than 5 so, ft.

Ouanha, Neb.

WATER CLOSET-WINDOW AREA-CONCO.

Area shall not be less than 3 sq. ft. No window shall be less than 1 ft. wide.

Pennsylvania (Model Law), Shall have a window area opening directly on afreet, yard, or alloy.

Water closers shall have wisslowe of sufficient size. Approved by Bureau of Health.

Perfaud, Ore.
All such rooms shall contain at least 2 so, it of window area. This window area shall be increased by 1 ft. for every additional tollet fixture in excess at three.

Providence, R. L. Windows shall be 3 st. It in area and not less than one ft. in width

Hishmond, to.

Hishmond, to.

Rockester, N. V.

Shall have window specified an ulrest, yard, on the window containing at least 6 on the by 2 (ed.).

Shall have window opening on affect, yard, on the figure of the containing at least 6 on the contai

St. Paul, Miss.

Window area of water closets shall be 3 on II, and no window shall be less than 1 2 it. in width poless approved by Commissionar of Public Works.

Senttle, Wash.
Windows shall be 1 ft, wide and 182 or mines area and at least 5 of floor area.

Toledo, Ohio

Toledo, Ohio

Trivol thave window opening to outer air or twit shaft not less than 16 sq. ft. where practical

Washington, D. C.
Window area shall be 1-10 area of fleor, and no window less than 4 sq. ft.

SANITARY PROVISIONS

HARITARLE ROOMS

See Light and Ventilation, General Provisions.

Beston, Mass.

Beston, Mass.

Bridgesport, Conn.

Backerstr., V. Mass.

Bridgesport, Conn.

Backerstr., V. Mass.

Bridgesport, Conn.

Bridgeport, Conn.

Culgary, Can. Memphia, Tenn.
Combridge, Mass. Milwanker, Wis.

Livery room must have window to street. Minempalis. Mine.

Vari or court. With minimum Area 1/16 of New Orleans, La.

Bloom area, then vis C. above follow.

Dumba, Neb.

Lowell, Mass.

Area, top 7% Ct above floor.

Clucinnuit, Ohio

Culcinnuit, Ohio

Darron, Ohio

Darron, Ohio

Derrote, Cate.

Detroit, Mick.

Dulidh, Mins.

Dulidh, Mins.

Dulidh, Mins.

New Orleans, Lm.

Demany, Lm.

Pennsylvania (Model Law).

When hard array reason, the Board of Health shall order such rooms year is until for habitation for any reason. The Board of Health shall order such rooms years.

Habitable rooms shall have 700 cm. ft. of sir, shall have 700 cm. ft. of sir, shall be \$5, ft. in height except atto comes in the comes in but dischall and a window greater of the comes in but dischall and a window greater.

Habitable rooms shall have 700 cm. ft. of sir, shall be 85% ft. in height except sitin comm in but inches half and a window great equal to 1/18 of floor area.

Richmond, Va.

Rochester, N. V.

Habitable rooms must have autable win-

Hoone shall be 3 ft. 4 mobes in height.

Toledo, Ohio

Toledo, Ohio

Reorros must be 5 ft. high and have withdrews opening to external all equal to 10%
of floor area or into another room with withtion area or into another room with withtion window must be 7 feet above the floor.

Partitude rooms shall be of ores specified flooris.

Washington, O. C. Worcester, Mass.

CELLARS AND BASEMENTS, CONDITIONS OF OCCUPANCY

Haltmore, M4.

Floors must be it fit above ground; must be it fit above ground; must have not a reason of the fit above ground; must have not a reason fit fit wide in front of wildows; nooms must be if it in height and there must be experite water classes; walls must be damp proof.

Roston, Mass.
As good as Model Law. Elaborate details regarding habitation of basement rooms.

Bridgeport, Conn.

Calapry, Cas.

Basement cannot be used for living rooms, thrept for lamiter unless celling is at least of ft. above grade level.

Prohibited. Cambridge, Mass.

Prohibited.

Chicago, III.
Living in cellar prohibitest. Biasement rooms must be 5% fr. high; one-half above grade; 4% fr. above attest grade; have separate water tenset and water greate; have separate water tenset.

Chefanatt, Ohio

Chefanatt, Ohio

Placement must conform to following provisions; rooms must be 1½ ft. high in stations tenements and 8 ft. high in those bereater erected, untiled there mild be an open air space 1½ ft. wide, of every pottline occupied and along coline states; frontage, its bottom must be openly drained top must be covered with fron trating. Places and walls must be damp proof.

Columbus, Ohio

Columbus, Ohio

Prohibited except for cooking and laundry.

Permitted in case of teatments prior erected with special permit from Health Dept.

Dayton, Ohle casts Inch.

Steeping in Ansestoni prohibited except in case of fashine. Unit of the may be in a second of the cast of the street; all the street

Denver, Colo. Prohibited in cellurs. Permitted in basements if in adultion to other requirements of this code it shall be well drained and dry and properly lighted and ventilated.

Daluth, Minn.

Indianagolis, led.

Therefore a shall not be excepted unions are at least 5 ft, high; orders celling is 4 fg. ft. show the yard grade, unless there shall be a separate water close to comparison to union with the comparison of room area and one window equals 12 sq. ft. between stopheads: unless all walls are damp press.

Louisville, Ky. Indianapolis, 1nd.

Louisville, Ky.

Lowell, Mass.

Prohibited.

Milwaukee, Wis.
May be used provided that rooms are \$ ft. tigst: that ceiling is 4 ft. above the lot; that wisdow area is 1-10 of floor area and that they face on street, yard or court, and that walls shall be damp proof and water proof.

Cellars shall not be inhabited. Manners shall not be inhabited. Basement rooms shall not be inhabited by faultor, long be kept dry and enterm in other pequirements of this act. In hidge, eracted prior it shall not be necupied without written nermit from Commissioner of Health; it shall be 7.6. Might shall have water the wentlisted. New Orleans I.e.

New Orleans, La.

Basements may not be occupied for Sving
purposes unless the room is \$\frac{1}{2}\$ ft. high
Must have separate water cleast; total window area 1/4 finor area unenline upon street
or yard, and the walls must be damp proof
and water proof mahes. Seb.

Find water proof.

Rooms shall be at least 15 ft. in clear and have not more than 4 ft. inches below the gree. In the state of the stat

Paterson, N. J.

Pennsylvania (Model Law).
No cellar room shall be occupied for living purposes. Basement rooms shall not be used for sleeping purposes, but may be for other purposes if they are free from dampless.

Living in cellar is problibled. Basement rooms must be 3by it. high; is above grade; windows, is door area with uncellaif of such made to open full witht and too within 8 in of welling; water closel apportenant to every abortions and every commust have a with olive opening sea, actual, yard as court of not insee than 100 sea, 7.

When used for habitation rooms shall be a wift, high except for use of fanitor which need be only it. One-little of room shall in above street grade, and shall have brates closer.

Providence, R. L.

Blehmund, Va.

May be completed by inniter and family provided that each reconstruction to feet high, that celling is the feet above the curt, that each recon has a window epering on arrest or which and the total wiedow area is to of floor area. That each recon shall be damp proof and that it shall be provided with a water closet.

water closet.

**Cellar may not be occupied for tiving purposes unless rooms are a ft. high; collings by ft, above errect level; windows opening on afrest or open courts equal to \$ of floor area; use of separate, water closet; and walls must be damp proof.

Geoupancy possibled unless not more than a so before the possible unless not more than a so before area, and must be damp proof and water proof; must meet with approval of the dopt of fluidings.

Tolede, Ohie

Rooms must be 8 ft. bluth; ceilings 4 ft.
above grade; must be properly drained and
ventilated, and each age, trust have 8 st. ft.
of glass per 180 sq. ft. ft.or area.

Terente, Can.

Washington, D. C.

Prohibited in cellars. Basements when used for habitation shall have ceiling 4% it, above grade, be damp proof and conform to other requirements of this act.

Must be of concrete four inches thick with a top fluish of marray one tuch thick

Shail have floor of concrete, cament and gravet tar and gravet by asphalt, or by bricks. All cellars must be water proof and damp proof.

Bridgeport, Cons.

Colgney, Can.

Every dwelling shall have a basement, sellor or assawated space at least h ft. deep, or halfeling shall be elevated 3 ft. Space shall be lighted and venillated and property drained. When securate to keep heor dry, the walls shall be water proof.

Must be of Portland coment concests three

Shall be properly ventilated by windows or vent flore.

We want files.

Columbus, Ohlo

House shall be 2 ft, above grade. Cellars shall be properly lighted and ventilated.

Dayton, Ohlo

Denver, Colo.

Brery apartment must have stak with running water.

Sink with running water required in each spartment in tenting water required in each or more places required on each floor.

Bridgeport, Conn.

If there is a water main in the street on which a building fronts, it must be connected.

such apartment.

Clocinanti, Oble
Shall be a sink with randing water in such
spartment. In teoremita prior erected there
shall be a sink for every a apartments.
Celumbus, Oble

Sink with running water required in each

Denver, Colo. Sink and running water required in every apartment.

Every apartment must have sink and run-ning water.

Cambridge, Mass. Chiengo, Ill.
There must be sink and running water for each apartment

CELLAR PLOORS.

Detrait, Mich.

Every dwelling shall have a colar or basement or excevated space 2 ft deep or circumstance of the shall be damp proof and water road, and it shall be properly ventilated.

Defuth, Minn.

Null have called at least 3 ft. deep. Shall be deap stoof and properly lighted and ventor days when necessary to prevent spread with concrete with concrete the concrete stoop and the caverod with concrete. Landwille, Ky.

Lowell, Mass.

Shall be damp proof and water proof. Milsenskee, Wis.

Milenukee, Wis.

Every tenument shall have cellar, basement of the property of the state of the

New Orleans, La. Must be damp proof and water proof.

Walls and floor must be plastered on outside with Portland coment below the ground level and they shall be fall in coment mortax.

Shaff have a sement floor not less than 3 in.

Floors shall be covered with a inches of

Pennsylvania (Model Law). Shall be suvered with coment or concrete.

Piffsbergh, Pa. Must be damp proof and water proof. Pertinal, Ore,

Providence, R. L. Richmond, Va.

Bochester, N. V.

Must be damp proof and water proof,

Must be damp proof and water proof.

Tulede, Ohio

Toronto, Can.

Shall be of cemant 4 inches thick or con-crete 2 inches thick, or paved with hard brick laid in cenant. Woodwark shall be a inches clear of ground. Worrester, Maxs.

WATER SUPPLY

Indianapolis, Ind.
Each appriment shall have sink with run-sing water provided sower in within 190 ft. of water main.
Loolwille, Ky.

Lowell, Mass. Memphis, Tenn.

Hiranokee, Wis-like water in accomplishe and con-or-more places bullet in accomplishe many fines. If city water is not accomplished water class be provided on lot and be kept free from contamination.

Mineapells, Mins. Sink shall be provided for each apartment.

New Orienus, I.a. There must be proper sink with running water in each apartment.

Omaka, Neb.

One sink with running water required in each apt, if water is accessible. When supply comes from well it shall be subject to test from Board of Health.

Tanemuja within 100 feet of water main wall be provided with 100 feet of water main wall be provided with planning system and time no tenement shall be occupied, unless it has a private sawer system and water

supply that is satisfactory to the hoard of Health. In each apartment there shall be at least one kitchen sink.

In tenement where it is possible to connect with water main, there shall be one sink for for every suits of rooms.

Bequired at Pertined, Ore; places on each floor, Owner shall provide tanks, sumpe or other appliances to receive and distributions to receive and distributions to receive and distributions to receive and distributions of the state of the second of the state of the second of the sec

Providence, R. L.

Blekmond, Ya.

Sigh with rusning water required in every apartment.

St. Paul, Minn, Senttle, Wosh,

Toronto, Can.

Washington, D. C.
There shall be water supply in each apartment.

Worcester, Mass,

Blutimere, Md.

Bivery apartment must have a separate water closet in separate compariment. There must be separate water closet for such family. family. Beston, Mass.

Same as Model Law except apartments of less than 4 recens may have water closest for every 3 rooms, and a general tellet room may be maintained in addition.

Bhall be a water closut for every apart-ment of 3 rooms; and one for every 2 apart-ments of less than 3 rooms.

Calgary, Cas.

There shall be separate water closet accommodations for every family or suite.

Same as Model Law except general toilet room may be provided in addition to required water closet.

water closet. Chienga, fil.

There shall be separate water closet for each appriment except where appriment outlains only two rooms, when there must be water closet for every two spartments.

Same as Model Law, except there may be one water closet for 2 spartments if the aggregate number of rooms does not exceed 2 and if it is adjacent to each apartment and is accessible to such without passing through another partment. In existing themselved the second control of the secon

Columbus, Ohio Same as Model Law.

WATER CLOSET ACCOMMODATIONS

Dayfon, Oble Shall he provided in each apt, in bath room or separate compartment. It shall not open on kitchen or dining room.

Denver, Coto,

Same as Model Law except general tollet coom may be provided in addition to other equillements.

requirements.

Duluth Hins.

There shall be one water closet in separate compariment for each apartment.

Indianapolis, Ind.

See Model Law. In houses prior crected there shall be a water closet for every two families. Louisville, Kr. Lowell, Mass.

Same as Model Law except where apart-ments consists of but one or two rooms there may be but one water closet to every three rooms.

Contra.

One writer closest required for every aget, in a reporter compartment. Where apts consist of only one or two rooms, one writer closest may be previded for every two. In tenuments prior exercted one water shoest is required for every two areas also if the number of percents does not exceed eight.

her of persons does not exceed eight.

See Madel Luw. In Edday prior erected one
water closet for two quartrensts.

Thore shall be one water closet in separate
compartment for each apprinced, vanilisted
to the satisfaction of the Shard of Health

There shall be at least one water closet for every two apartments.

Same as Model Law except general tollet may be minimized in addition, and in upin consisting of one or two momes, follet may be minimized for every 7 rooms.

There shall be a separate water closet in said sparation of the sa

Pittishorgh, Pa.

Pittenings, ra.

Portland, Orc.

A separate water the property of a separate compartment for each apartment required in case of 2 room apartments there may be one water closet for 2 apartments. Several tolleds may be maintained in one compartment in additional to above recursements. Water closets prohibited in cellars.

Providence, H. I.
There shall be separate water closet in separate compariment within each spartment. Apartments of one of two recess must have teach one want closet for every three teachers.

Riekmond, Va.

Hachester, X. V.

Same as Model Law except for apartments of one or two rooms there shall be one water should be one water should be given three rooms.

WATER CLOSET ACCOMMODATIONS CORUM

Every apt. or tenement shall have at least one water closet located in a separate

Compartment. Any innoment of apt baving throw or more rooms shall have one water closet accessing without passing through any heavon.

Totodo, Ohlo

Toronte, Can.

Washington, D. C. Every tonement small have water closed for each suite or for each four rooms.

A water shout and both roughly in a commercial relationship in edition in a state againment.

OVERCHOWDING-CERIC ADE SPACE

Battimore, Md. By cubic feet air space for each person over 12 years and 200 cubic feet for each person under 12.

Board of Health may by vote limit the number of persons living in any dwelling.

Bridgeport, Cons.

Calgary, Can. Cambridge, Mass.

There must be 400 cm. ft. mir space for adults and 200 cm. ft. for children under 12 years.

No room shall be over crowded. Adults must have too ca. ft. of air space; each child under 72, 28s ou. ft.

Columbus, Okis each adult and 400 cm. ft. for each room for each adult and 400 cm. ft. for each oblid un-der 17.

Adults must have 400 cu. ft. of air space and children under 12, 200 cu. ft. of air space.

Denver, Colo.

386 ca. ft. of air fequived for such adult in desping rooms and 300 cs. ft. for children sider 12.

Baltimore, Md.
Every tenement shall be maintained in good repair and in a cleanly condition. Beston, Mass. Heldgepoet, Cons.

Cambridge, Mass.

Must be kept sean and free from dirt. Owners must keep associated apartments clean.

Dayton, Ohlo Deaver, Colo.

Shall be kept dean and free from fifth etc. at all times, Owner responsible. Garnage chaires probibiled.

Dulath, Minn.

Cettur walls and cellings shall be white-washed or milited a light color at least once a year, also shaft or court walls.

Catgary, Can.

Cambridge, Mass.

Required on walls of colors and walls and calling of callars, unless painted with light point.

Dayton, Ohlo

Detroit. Mick.

Required on walls and cellings of cellars and walls of courts and shafts, unless painted a light collection.

Beston, Mass, Bridgeport, Conn.

Columbus, Ohlo

Cellar walls and cellings and all inner and order walls of course. If not of light colored material, must be whitevashed or painted.

In case indianapoits, ind.

In case order covercewing based of Health may order movercewing based on the light paint have seen used. It of all space and each culid under it, 250 cm. It of all space.

Leavisyllo. Ky.

Levell, Mass. Memphis, True.

Milwankee, Wis.

Minneapolis, Minn.

400 cm. ft. of air to each adult and 100 to each child under 12 is required.

New Orleans, Lu.

No reem share less that any acult shall shall have less that 400 cm. ft. of air space or any child under 12 less than 200 cm. ft. of air space. Ft. of air space. Ft. of air space. Pairrows, N. J.

Pairwin, N. d.

Pennsylvania, Middel Innvi.

No room used for sleeping purposes shall be excupied by more persons than would give to each person over 12 years of age 100 each feet of all space, and to such 12 years of over crowding is found the Beard of Health

shall place a tin placard on the door of such recent stating the mindler of persons it will accommodate and such recommand said to oc-cupted by more.

Pitaburgh, Pa.

There shall be ded of the first per recen-ion on it. For each child index 12 mars and 200 on it. For each child index 12.

Porcland, Ore.

of Realth,

Hickmond, Va.

Box cubic feet for each seriou in apart-ment, 600 cubic feet for each small in a electric coom, and 200 cubic feet for each cubic water 21 in alsoping cuses to required it small be unlawful for any person in rent an apartment to be occupied by a greater counter than it can accommodate.

There shall be like the for each interner is years and life for each of life index it.

inder it. Scattle, Week.
Tuledo, Ohio
Turento, Catt.
There shall be set outer best at air for each person it guess old of search. Werrester, Muss.

CLEANLINESS OF BUILDINGS

Lowell, Mass. Memphis, Tenn.

Milwanker, Wis.

Owner of tenment must keep it clean and make the process and every apartment adequates that the process and every apartment adequates that the process and every apartment adequates that it was to the puris a pix of the process and every apartment adequates that it is not to the puris of the process of the process of the puris of the purison of the puri

Omahn, Neb.

Poterson, N. J.

Peterson, N. J.

Buildings, varies, coorts, alleys and passageways shall be kept clean and free from
ilst. Bill, and garinage. The owner shall
feation of the Henri of Henrik and kepliam dean at all times. The tenant shall
keep his apartment in cleanty condition and
no person, shall out filth or garbags in
shall, court or yard.

Every tenement shall be kept rican and free from all geommitation of fifth, garbage.

Lambell, Muss.

Length, Muss.

Length, Muss.

Every tenement shall be seen in good remain and shall be seen and free from any accumulation of fifth, fifth, etc.

Providence, R. L. Hickmond, Va.

Owner or agent held responsible for eleminess of bldg.

Senttle, Wash.

All parts of building must be kept free from loose cubbish and detria.

Toronto, Can-

Washington, D. C. Occupants must keep all parts of buildings and grounds clean and wholesome.

Worcester, Mass.

light color. It shall be conswed when required by Board of Health.

Pittsburgh, Pa.
Walls must be thoroughly cleaned and
white washed chemovar required by the De-partment of Health.

WHITEWASHING OF WALLS

Duluth, Minn-

Indianapolis, Ind. Celler walls and cellings and walls of courts and shafts shall be whitewashed unless painted a light color.

Louisville, Kr.

Lowell, Mass.

Cellar walks and collings shall be white washed or painted a light rolor. Milwanker, Wis.

Walls of shafts collers and courts shall be while-washed unless pointed with a light color. Minnespolts, Minn.
Required in courts unless painted a light color; may be in rooms upon request of Commissioner of Treath.

New Orleans, La.

Omnha, Neb.

Paterson, N. J.

Pennsylvania (Model Law).

Portland, Ore.
Required in all shafts and courts unless painted a light color. Providence, H. L.

Bickmond, Va. Ruchester, S. Y.

Senttle, Wash.

Toledo, Ohlo

Toronto, Can.

Washington, D. C.

DRAINAGE OF COURT AREA SAND YARDS The bottom of all courts shall be paved with concrete. Dufuth, Minn. Pittsburgh, Pa.
Tunement must have payds, areas, and courte drained into the sower. Indianapolis, Ind. Portland, Ore.
Shalls, courts and areas shall be properly paved and drained. Courts, yards and areas shall be graded, drained and avend Lauleville, Kr. Lowell, Mass. Courts, shafter yards and areas shall be concreted and drained.

Milwanker, Wis. Providence, R. L.
Tenement courts and yards shall be properly graded and frained and paved to satisfaction of inspector. Bridgeport, Cons. Calgory, Can-Causers and pards shall be graded, paved and drained. Minimum Wis.

Minimum Wis.

Courts pards and arrise stall be graded so that water may drain throsewer or sitreet. When required by Commissioner of Health they shall be concreted.

All courts and yards shall be properly graded, drained and pavel to the satisfaction of Health that the court of Health they for the said and pavel to the satisfaction of Health Courts and yards shall be proved as Conditions. Sell, Shall be provided and pavel as conditions may require the same in clean and smallery condition.

Perspectance (Model Law). Richmond, Vn. Rochester, N. Y. Chicago, III.
Caurt area and yards shall be properly drained All shafts, ourth, areas and yards shall be properly concreted, graded and drained and shall be supported with sever.

Neatly, Wesh. drained Cinelmant, Ohio Yards, souths and shafts must be thoroughly drained.

Courts, areas and yards shall be graded and drained and when required by Health Dept. concreted. Areas and courts of 15 sg. ft. or more Dayten, Ohle Washington, D. C.

Owner must cause areas and yards to be properly graded, paved and drained.

Worvester, Mass.

Every inner court and area shall be concreted, graded and drained. All coints, shafts and yards shall be pro-vided with sufficient drainage and paved with countries. Courts, are no Defruit. Mich. and drained and yards when required by Health Officer. SEWER CONNECTIONS Required where there is a sewer in the errort. house. Tenements hereafter erected shall not be inhabited until such connections are made or an approved grivate system is established. Transments prior erected shall be connected to sever main if accessible, but it not a spotte tank shall be installed, subject to approval of found of Health. Multiple dwelling shall not be spected on any street unless site water and sewer are secondible. Each building shall be connected with same before it to occupied: Every building shall be connected with a composite problem in accountile, if not with a composite of the control of the contro Cesspools or privy prohibited. Every tens-ment shall have plumbing system connected with sower before occupation. Plumbing of every bing, shall be inde-pendently connected with sewer unless otherwise permitted by Board of Illd. Com-missioners and Subt. of Sewers. Pittsburgh, Pa.
Tenement shall be connected with sewer where Bursan of Health judges it possible. Indianapolis, Ind.
Every tenement shall be connected with public sewer if it is within 100 ft. of house, Pertland, Ore. Calgary, Can. Louisville, Ky. Providence, B. L. Cambridge, Mass.
Multiple dwellings shall not be built on afreet without sewers. Lowell, Mass. Richmond, Va. Memphis, Tenn. Every tenetoent shall be connected with public sewer if such is pravided; if not, drain pipe from buildings may be connected with composite the connected with composite the connected with composite the composite connected with composite the composite composite the composite c Rochester, N. Y. Milwauker, Wis. Chiengo, Ill. Multiple (Minnenpolls, Minn, Muns, Minnenpolls, Minnenpol Cincinnati, Ohia
All tenement abutting of streets having sewers shall be abutting of with same. Each bailding must have sensited connection with sewer, except where one building is on the same lot in the rear of another. Scattle, Wash. Omnha, Neb Cellars shall be connected with sewer where possible.

Toronto, Can. Prirron, N. J.

If sewer is accessible every tenement shall be connected before it is occupied. If it is within 15s ft. of public sewer a private sewer shall be built connecting with it.

Pensaylvania (Nodel Law).

All tenements shall be connected with sewer main if it is within 10s feet of Columbus, Ohlo
No tenement shall be erected on any street unless city water and sewer are accessible. Washington, D, C, Sewer connections are required. Dayron, Ohlo Deurer, Colo, Worcester, Mass. ASHES AND GARBAGE Haltimore, Md. Dalnth, Minn. Owner shall provide receptacies of incom-bustible material Owner shall provide water tight covered receptacies. Indianapolis, Ind.

Owner shall provide suitable receptacles.

Choice are prohibited. Providence, B. L. Owners of tenements shall provide suitable receptacies for assles, robbish and refuse matter, satisfactory to Supt. of Health. Chigary, Conn.

Tenement must be provided with approved refuse and garbany receivers to the satisfaction of the Sanitary Department.

Chusteller, Mass. Bridgeport, Conn. Louisville, Ky. Lowell, Mass. Hickmond, Va. Memphis, Tehn. Owner shall provide receptacles. Milwanker, Wis. Chains prohibited.

Chiesgo, III.
Receptacles for ashes and garbage must be provided by the owner. One of each per story to every five persons.

Cincinnati, Obic
Owners shall provide metal receptacles. Minerapolls, Minn.

Motal can must be provided by each family.

Corner shall growle a general can to receive such waste as may be necessary. Chutes are prohibited.

New Orleans, La. St. Paul. Mine.

There shall be suitable receptacles for ashen and garbage, constructed of incombustible material; interior garbage chuise or shafts leading to same shall not be permitted. There shall be suitable receptacles for ashes, constructed of incombustible material. Owner shall provide proper receptacles.
Chutes prohibited. Omnha, Neb. Chutes prohibited. Ohio Paterson, N. J. Toledo, Okio Owner or tenant shull provide appreved light receptacles for asins and garbage; chutes or shafts leading to them are pro-hibited. Toronto, Can. Denver, Colo. Owner shall provide proper covered recept-acle of senabsorbent material. Chutes pro-hibited. Washington, D. C. Owner shall provide suitable places for reception of garlinge and other refuse. Pittsburgh, Pa. Worcester, Mass.

JANITOR	
Columbus, Ohio	Indinunpolis, Ind.
ired to reside in and be responsible ement unless occupied by owner.	Louisville, Ky.
Dayton, Ohlo	Lowell, Mass.
Deaver, Colo.	Memphis, Tenn.
Detroit, Mich.	Milwankee, Wis.
ired to reside in and be compoundle for g in which owner does not reside, if Officer shall so require. Duluth, Minn.	Minneapolis, Minn-Required in multiple dwellings in whis owner does not reside. He shall have charg if required by Commissioner of Health.

Requi

Requibulding Health

Boston, Mass.
Bridgeport, Conn.
Cnigary, Con.
Cambridge, Mass.

Chicago, Ill. Cincinnati, Ohio

nergh, Pa. land, Gro. lence, H. I. mond, Vo. lence, H. I. mond, Vo. lence, H. I. mond, Vo. lence, H. I. lence, M. I. lence	Pittsburgh, Pa. Portland, Ore. Providence, B. L. Richmond, Va. All plumbing fathers mind be set open an free from all emilesing woodwork. Seattle, Wash. Toleda, Ohin Tolenta, Can. Washington, D. C. Washington, D. C. Werester, Mass. we as to be menage to beauth, the Health Department may order it maved or its location changed. Pittsburgh, Pa. Previdence, R. L. Richmond, Va. Rechester, N. Y.
seace, B. L. mend, Va. sayer, N. V. south occupies by 5 for cowner resides in home in and have charge a country resides in home in and have charge a country resides in home in and have charge a country resides in home in and have charge a country resides in home in pluming regulation ville, Ky. cit. Mass. bla, Twan. saker, Wis. popula, Elima popula, Elima popula, Elima country particular ricenus, La, da, Neb. sam, N. J. s	Tolede, Ohle Toronto, Can. Tenement with over five families where where does not reside shall have janitor. Fittsburgh, Pa. Pertland, Ore. Providence, H. f. Hichmond, Va. Rechreter, N. J. St. Pank, Minn. All plumbing firlines must be not open an free from all emissions woodwork. Scattic, Wash. Tsiede, Ohle Toronto, Can. Washington, D. C. Werester, Nass. **Benefit of the Health, the Health Department may order it maved or its location changed. **Benefit of the memory of the fire o
seer, X, Y, Seer, X, Y, Seer, X, Y, Y, Seer, X,	Toronto, Can. Weshington, D. C. Tenement with over five families where swiner does not reside shall have lanton. Westerste, Mass. Pittsburgh, Pa. Pertland, Ore. Providence, H. I. Hichmond, Va. Hachmond, Va. All plumbing fixtures must be set open an free from all enclosing woodwork. Scattic, Wash. Tsiede, Ohles Toronto, Gan. Weshington, D. C. Weerester, Mass. we as to be menage to health, the Healt Department may order it maved or its localion changed. Pittsburgh, Pa. Pertland, Ore. Previdence, R. L. Hichmond, Va. Rechester, N. V. Scherer, N. V. Sche
supy N. Y. control occupied by S. fast owner resides in home in and have charge of the Minn. appalie. Ind. In Plumbing regulation ville, Ky. vill. Mans. his, Tran. skee, Wis. polis, Minn. or enclosed with wone are in every particular riems, La. than Neb. san, N. J. la (Model Laws), except whare pannin KPOOLS th, Minn. apolis, Ind. n sewer main in access with, Ky. 31. Mass. sin, Tran. skee, Wis. sails, Tran. skee, Wis. sails, Tran. skee, Wis. sails, Minn. sine Clon with multipl rienna, La.	Tenement with over five families where we may be a pot reside shall have junitor. Fittsburgh, Pa. Pertland, Ore. Providence, H. I. Richmond, Va. Richmond, Va. Richmond, Va. All plumbing fixtures must be set open an free from all emplosing woodwork. Seattle, Wash. Telede, Ohle- Tornata, Con. Weshington, D. C. Worrester, Mass. so as to be memane to besith, the Healt bepartment may order it maved or its location changed. By Partland, Ore. Providence, R. I. Richmond, Va. Rachester, N. V. L. Richmond, Va. Rachester, N. V. Lempools allowed where no sewer provided, but no water closer shall be connected to a beaching conspool.
th, Minn. spelle, Lee, the plumbing regulation ville, Ky. eli, Mans. bla, Twn. skire, Wis. paths, Minn. of enclosed with won ary in every particular ricens, La, da, Neb. sam, N. J. ta, (Model Law), except where punits KPOOLS th, Minn. spolls, Ind. it sewer main is scored ville, Ky. 31, Mass. skire, Wis. skire, Wis. sam, Minn. skee, Wis. sam, Minn. skire, Tran. skee, Wis. sam, Minn. skire, Tran. skee, Wis. sam, Minn. smellon, With multipl ricans, Lin.	Pertland, Ore. Providence, R. I. Hichmond, Va. Hischester, N. V. St. Pant, Mine. All plumbing fixtures must be set open an free from all endosing woodwork. Scattic, Wash. Tricete, Ohle Towns, Grs. Washington, D. C. Weerester, Mass. was to be menage to health, the Healt Department may order it mayed or its location changed. Pertland, Ore. Previdence, R. I. Hichmond, Va. Rechester, N. V. St. Prot. Mine. Compools allowed where no sessur provided, but no water closer shall be connected to a leaching coaspool.
apults, Ind. ta pluming regulation ville, Ky. ett. Mann. bla, Twan. skiere, Wis. palle, Minn. on enclosed with won ary in every particular resease, La. tha, Neb. sam, N. J. ta, (Model Law), except where passis th, Minn. spolis, Ind. or sewer main is access ville, Ky. 31, Mass. blas, Teno. skee, Wis. said, Minn. spole, Minn. spole, Ind. or sewer main is access ville, Ky. 31, Mass. blas, Teno. skee, Wis. said, Minn. smedion with multipl ricana, La,	Pertland, Ore. Providence, R. I. Hichmond, Vn. Hechmond, Vn. Hechmond, Vn. All plumbing fixtures must be set open and free from all endosing woodwork. Scattic, Wash. Tsicate, Ohio Tomats, Gns. Weshington, D. C. Weerester, Mass. Department may order it maved or its location changed. Previdence, R. I. Thicknoad, Vn. Previdence, R. I. Thicknoad, Vn. Rechester, N. V. M. Compools allowed where no seeme provided, and no washing coaspool. Compools allowed where no seeme provided, dr. no water closer shall be connected to a leaching coaspool.
critic, Ky. cit, Mano. blia, Trun. skee, Wia. polls, Blinn. oe enclosed with wear ary in every particular ricens, La. da. Neb. smr, N. J. la (Model Law), except where punnin SPOOLS th. Minn. spoils, Ind. ir sewer main is goossi ville, Ky. Il Mass. bis. Trun. skee, Wis. said, Minn. skee, Wis. said, Minn. skee, Wis. said, Minn. skee, Wis. said, Minn. smelion with multipl ricans, La.	Providence, H. L. Richmond, Va. Rischreiter, N. V. St. Pank, Minn. All plumbing fixtures must be not open an free from all emissing woodwork. Scattic, Wash. Trieds, Ohle Tornats, Gan. Washington, D. C. Werester, Mass. so as to be menage to health, the Healt Department may order it maved or its localion changed. Prittaburgh, Pa. Parland, Ore. Providence, R. L. Richmond, Va. Reshester, N. V. M. Composite allowed where no sewer provided, but no water closer shall be connected to a beaching consport.
critic, Ky. cit, Mano. blia, Trun. skee, Wia. polls, Blinn. oe enclosed with wear ary in every particular ricens, La. da. Neb. smr, N. J. la (Model Law), except where punnin SPOOLS th. Minn. spoils, Ind. ir sewer main is goossi ville, Ky. Il Mass. bis. Trun. skee, Wis. said, Minn. skee, Wis. said, Minn. skee, Wis. said, Minn. skee, Wis. said, Minn. smelion with multipl ricans, La.	Providence, H. L. Richmond, Va. Rischreiter, N. V. St. Pank, Minn. All plumbing fixtures must be not open an free from all emissing woodwork. Scattic, Wash. Trieds, Ohle Tornats, Gan. Washington, D. C. Werester, Mass. so as to be menage to health, the Healt Department may order it maved or its localion changed. Prittaburgh, Pa. Parland, Ore. Providence, R. L. Richmond, Va. Reshester, N. V. M. Composite allowed where no sewer provided, but no water closer shall be connected to a beaching consport.
ott, Mass, hts, Twen, skiere, Wis, palle, Minn, ob enclosed with won ary in every particular resens, La, hts, Neb, son, N. J. la, (Model Law), except where pearin spolis, Ind. or sewer main is access ville, Ky. H. Mass, his, Teno, skee, Wis, sont, Minn, medion with multipl ricans, La,	Bichmond, Va. Rochester, N. V. 86. Paul, Minn. All plumbing fixtures must be set open an free from all enclosing woodwork. Scattie, Wash. Teledo, Ohio Toronto, Gun. Washington, D. C. Weerester, Mass. so as to be menage to bealth, the Healt Department may order it maved or its location changed. Pittaleurgh, Pa. Partland, Ore. Providence, R. I. Richmond, Va. Rachester, N. V. St. Paul, Minn. Composis a Paul, Minn. Composis a Paul, Minn. Composis a Paul, Minn. Composis a Paul, Minn. Scattie, Wash.
hle, Twan- nker, Wis- polls, Minn- polls, Minn- polls, Minn- polls, Minn- polls, Minn- serilloued with won- riemus, La, dan, Neb. san, N. J. la (Model Low), except where passin KPOOLS th, Minn- apolts, Ind. n sewer main is access with, Ky. St. Mass. sis, Trans. takee, Wis- said, Minn- modifier with multipl riemus, Lin,	Hachrester, N. V. M. Paul, Mine. All plumbing Exteries must be set open an free from all enclosing woodwork. Seattie, Wash. Twiede, Ohle Tornate, Gen. Weshington, D. C. Wester, Mass. we as to be menage to beauty, the Healt Department may order it maved or its legalian changed. Perland, Ore. Providence, R. I. Richmond, W. Rechester, N. V. M. Composite House closer ball be connected to a beaching cosspool.
where, Wis. polis, Minn. os enclosed with wear they in every particular froms. in. the, Neb. sam, N. J. la (Medel Laws), except where passin KPOOLS th, Minn. spolis, Ind. n sewer main is scoess ville, Ky. Il, Mass. his. Tran. there, Wis. solis, Minn. medion with multiple ricans. in.	All plumbing fixtures must be set open an free from all emissions woodwork. Scattic, Wash. Trieds, Ohie Tornata, Can. Washington, D. C. Werester, Mass. To be menage to leadth, the fixal bepartment may order it mayed or its location changed. Pettland, Ore. Providence, R. I. Richmond, Va. Restreets, N. V. St. Pank, Miss. Composite allowed where no secur provided, but no water closet shall be connected to a leaching consport.
polls, Minno or enclosed with won ary in every particular ricenus, i.a., ha. Neb. som, N. J. la. (Model Law), except where punnin spolls, ind. in sewer main is access ville, Ky. 31, Mass. his. Teno. sikee, Wis. sould, Minn. succion with multipl ricenus, i.a.,	Scattic, Wash. Trieds, Ohle Tornata, Gun. Washington, D. C. Westerier, Mass. Department may order it moved or its it called callon changed. Pertland, Ore. Pertland, Ore. Pertland, Vs. Reshester, N. V. St. Proc. Miss. Composite allowed where no sewer provided, but no water closed shall be connected to a leaching consport.
rfemms, La, then, Neb, son, N. J. la (Model Lawn), except where passin SPOOLS th, Minn. spolts, Ind. n sewer main is access ville, Ny. SI, Mess. lish, Tran. takee, Wis, soile, Minn. modion with multipl rleans, La,	Seattie, Wash. Triests, Ohio Toronto, Gen. Washington, D. C. Weerester, Mass. Department may order it maved or its location changed. Pittaburgh, Pa. Pertland, Ore. Previdence, R. L. Hickmond, Va. Rechester, N. V. St. Pract, Mine. Composite allowed where no count provided, but no water closed shall be connected to a leaching coaspool.
rfemms, La, then, Neb, son, N. J. la (Model Lawn), except where passin SPOOLS th, Minn. spolts, Ind. n sewer main is access ville, Ny. SI, Mess. lish, Tran. takee, Wis, soile, Minn. modion with multipl rleans, La,	Totale, Ohle Tornate, Can. Weshington, D. C. Wester, Mass. To as to be menage to besith, the Healt Department may order it maved or its lo callon changed. Pertland, Ore. Providence, R. I. Richmond, Va. Rachester, N. V. S. Composis allowed where no eveur provided, but no water closet shall be connected to a beaching cosspool.
the, Neb. som, N. J. la (Model Law), except where pearin stroots th, Minn. spoils, Ind. in sewer main is scores ville, Ky. 31, Mass. his, Teno. sice, Wis, south, Minn. medion with multipl ricans, In.	Toronto, Gan. Western, D. C. Wercester, Mass. we as to be menage to besitt, the Healt Department may order it mayed or its lo callon changed. Pertland, Ore. Pertland, Ore. Providence, R. I. Richmond, Va. Rachester, N. V. S. Panl, Minn. Composis allowed where no seem provided, but no water closer shall be connected to a beaching cosspool.
le (Model Law), except where passin spools th, Minn. spools, Ind. in sewer main is access wille, Ky. Il, Mass. his. Tran. sixee, Wis. swith, Minn. medion with multipl ricans, Lin,	Washington, D. C. Worrester, Mass. The property of the memory of the Mealth, the Health Department may order it mayed or its location changed. Pittaburgh, Pa. Partland, Ore. Previdence, R. L. Richmond, Va. Resheater, N. V. St. Pank, Mine. Composite Allowed where no sewer provided, but my water closed shall be connected to a leaching coaspool.
except where peasing the Minn. spoils. Ind. in sewer main is scores ville, Ky. 31, Mass. his. Teno. sikee, Wis. saith, Minn. medion with multipl ricans. In.	me as to be menage to localth, the Health Department may order it mayed or its localton changed. Pittsburgh, Pa. Portland, Ore. Providence, R. L. Richmond, Va. Rechester, N. V. See Composis allowed where no sever provided, but no water cheer shall be connected to a leaching cosmoot. Seattle, Wash.
th, Minn. spoils, Ind. in sewer main is scores wille, Ky. 31, Mass. his, Teno. sikee, Wis, saith, Minn. medion with multipl ricans, In,	cation changed. Pittaburgh, Pa. Partland, Ore. Providence, R. L. Richmond, Va. Rochester, N. V. A. Composis allowed where no sewer provided, but no water closed shall be connected to a leaching coaspool.
spolls. Ind. on enver main is access ville, Ry. 31, Mass. his. Tenn. skee, Wis. sails, Minn. medion with multipl ricans. Lin.	cation changed. Pertland, Ore. Providence, R. L. Richmond, Va. Rochester, N. V. Lempools allowed where no sever provided, but no water closet shall be connected to a leaching cosmool.
spolls. Ind. on enver main is access ville, Ry. 31, Mass. his. Tenn. skee, Wis. sails, Minn. medion with multipl ricans. Lin.	cation changed. Pertland, Ore. Providence, R. L. Richmond, Va. Rochester, N. V. Lempools allowed where no sever provided, but no water closet shall be connected to a leaching cosmool.
or entwer main is access wille, Ky. 31, Mass. bis, Tenn. skee, Wis. sails, Minn. medion with multipleions, Lo.	Pittaburgh, Pm. Pertland, Ore. Providence, R. L. Richmond, Vn. Hechnett, N. V. S. Prud, Jim. Composis allowed where no sever provided, but no water closer shall be connected to a leaching cosmoot. Scartic, Wash.
il, Mass. his, Tenn. skee, Wis. smith, Minn. medica with multipl cleans, In.	Providence, R. L. Hichmand, Va. Hochester, N. Y. St. Paul, Mins. Composis allowed where no sewer provided, but no water closed shall be connected a leaching cosmoot. Scartte, Wash.
tis, Tenn. sikee, Wis, sails, Minn. medion with multiple cleans, Lin.	Hickmond, Va. Rechester, N. V. Park, Minn. Composis allowed where no sever provided, but no water closet shall be connected a deaching consport. Seattle, Wash.
skee, Wis, mile, Minn. medilon with multipl cleans, In.	Hachester, N. V. 51. Paul, Mian. Composit allowed where no sewer provide ed, but no water placet shall be connecte to a leaching composi. Seartic, Wash.
estle, Minn. anection with multipl cleans, In.	le Composit allowed where he sewer provided, but no water closet shall be connected to a leaching consister. When,
rienns, Lu.	ed, but no water closet shall be connected to a leaching cospect. Scattle, Wash.
	Senttle, Wash,
ha, Neb.	Toledo, Ohio
on, N. J.	
a (Model Law),	Taronte, Can.
a (Model Law), hey shall be in a yar- ed with an tron cove ed. When it is located	Worrester, Mass, Worrester, Mass,
E TOLLETS	
er, Colo.	they are already maintained they may be retained where no sewer is available, if the
ir. Mich. Il not be placed out e	. are kept elean.
	Pittsburgh, Pa.
th. Minn. spolls, Ind.	Portland, Ore.
n sewer main is acces	Pravidence, R. I.
ville, Kr.	Richmond, Va.
U. Mass.	Rochester, N. Y.
ds, Tenn.	Et Wood Wiles
olle, Win.	or oftenor if ordered by Commissioner of Health.
fenns, Lu,	Seattle, Wash.
in. Neli,	Tuledo, Ohio
oon, N. J.	Taronto, Cas.
	Washington, D. C.
	II. Mass. ids. Tenu. ids. Wis. ids. Minn. frans. La. hs. Neb.

hidge are dangerous to life and health. Building Commissioner may with written approval of the Mayor order vacation of building. Bridgeport, Cana. Power given to Board of Building Commissioners in case of speaks building. Gaigney, Can.	Power given to Health Dept. Power given to Chief Inspector for dangerous hidgs. Power given to Railding Inspector with approval of Commissioner of Safety. Defroit, Mich. Power given to Health Officer.
Cambridge, Mass.	Duluth, Minn.
Supt. of Rullslings may with written ap- proval of Mayer order vacation of any build- ing be considered ansate. Chiesgo, III.	Indiaunpolis, Ind. Board of Health shall order infected and meanitary houses vacated. Louisville, Ky.
Buard of Health may order any building	Lowell, Mass.
variated found to be in an unuanitary con- dition.	Nemphia, Tenn. Power given to Building Commissioner.

REQUIREMENTS AND REMEDIES-Vacation of Buildings-Cour'd

Hickmond, Va.

Power given to Edg. Inspector where Power given to Commissioner of Health.

Power given to Inspector of Bidgs.

Rochester, N. Y.

The Bureau of Bulldings may past order on dangerous hullding that same shall not be occupied until made anfe.

Sentrie, Wash.

Tolede, Ohio Power given to Huilding Inspector.

Washington, D. C. Power given to Board of Condemnation of Unanoltary Bidgs.

Worcester, Mann.

Baltimore, Md.

Ruthling not permitted to be occupied until sufficient means of agrees have been provided.

Bridgeport, Cans. Calgary, Can.

Building not to be occupied without permit of occupancy, Superintendent may order use or occupancy medited or building wanted III it compiles with ordinance and so obtains permit.

Chlengo, Ill.

Shall be unlawful for any person to lease or permit to be occupied any hubbling unless such hubbling is clean and sanitary.

Columbus, Ohio
Occupation of tenement house falling to
somply with ordinance is unlawful.

UNLAWFUL OCCUPANCY

Untawful to decupy bldg, which does not comply with orders of Chief Inspector.

Denver, Cobs.

Detroit, Mich.

Duluth, Minn. If building is occupied without certificate of aproval no rent shall be recoverable.

Looisville, Ky.

Vacation of dangerous and unsafe bidgs by Inspector of Bulldings. Memphis, Tenn.

Milwankee, Wis.

Minneapolis, Minn-Occupation without certificate of compli-

New Orleans, La. Omaha, Neb.

Paterson, N. J.

Unlawful to occupy buildings varated because of totalton of law, until made to

Pitte	durch, Pa.
Por	tland, Ore.
Provi	dence, R. L.
Rick	bmund, Va
Roch	rater, N. Y.
24. 2	mul, Minn.
Seat	ttle, Wash.
200	ledo, Okio
Ter	rente, Can.
Charles Contract	A

APPROVAL OF PLANS

Haltimure, Md.

Plans must be approved by Inspector of Bidgs before work is begun.

Hecton, Mass.

No construction or alteration shall be done without a permit, and such work shall be done in accordance with drawings approved by Commissioner.

Plans must be approved before permit is given for work to be begun.

Plans must be approved before permit is given for work to be begun.

Calgary, Can.

Plans must be submitted and approved by Health Officer before work is begun.

No work done except in accordance with deswings approved by Superintendent.

Chicago, III.

Chicago, III.

Construction stall not begin until permit
is issued. Permit issued by Commission of
Buildings unless the building involves an
accavation within 3 ft. of curb line then
permit must be obtained from Director of
buildings vervice to make such exacutation.

Plane must Coismban, Ohio
Plane must coismban, Ohio
and where lighting, excitiation or sanitation
is involved by Health Dept. also.

Plans must be approved by Division of side.

Hidg. Impaction before work may be com-

Denver, Colo.

Work not to be started without a permit from Building Inspector, which may not be

Histimere, Md.

Every tenement must be inspected and certificate of appraisal given before same can be occupied.

Beston, Mass. Bridgeport, Conn.

Cartificate from the Sanitary Inspector required before building can be occupied.

Cambridge, Mass.

No building shall be occupied until permit
occupancy has been issued by Superin-

Owner must notify Commissioner of Build-ings when tenement is ready for lathing Tenement must be inspected and if it con-forms to law a certificate is laused.

Columbus, Ohlo
No bldg occupied without a certificate of compliance from fluiding Dept.

Daytes, Oblo Chief Inspector shall make or have made a final inspection of Bidg, and if it conforms to have shall issue certificate.

Cincinnati, Ohio

of occupancy has been tendent.
Building Department.
Chicago

granted unless plans conform to provisions of City ordinances.

Pleas must be approved by Health Officer before work can be begun.

Duloth, Muss.

Plans must be submitted to Heard of Health or Inspector of Buildings.

Lonbyttle, Ky.

Plans must be approved by Inspector of Buildings.

Plans must be submitted to Building Com-missioner.

Milwankee, Wis.

Plans must be approved by inspector of Buildings before work is commenced. Minneapelis, Minn.
No work on building commonced until plans are approved by Inspector of Hulldings.

Plans must be approved by City Engineer.

Shall be submitted to Hullding Inspecter. Construction shall not start until permit is

Paterson, N. d.
Unliwful to proceed with work on any
bldg, until plans have been approved by inspector of Buildings.

Plans must be submitted to the State
Building Commissioner or Cube Building In-

spector also to local Board of Health or State Department of Health.

Worcester, Mass.

Pittsburgh, Pa.
Plans must be submitted and approved by Building Department before work in begun.

Ne work to be begun without a permit.
Application to Impector of Buildings for permit must be accompanied by the plans.

Providence, H. L. Pians shall be approved by Bidg. Inspector.

Richmond, Va.

Plans must be approved by Hidg. Inspector before work is begun.

Hockester, N. Y.
Plane must be approved by Building Bureau before work is commenced.

St. Paul, Minn, Plane must be submitted and approved by Commissioner of Public Works,

Seattle, Wash.

Plans must be submitted and approved be-fore work is begun.

Terente, Can.
Plans must be submitted and approved before work is begun. Washington, D. C.

Worvester, Mans.

Worvester, Mans.

Buildings may require must be approved by him before permit is issued allowing work to be begun.

CERTIFICATE OF APPROVAL

Denver, Colo.

fullding shall not be occupied without certificate from Health Officer that it conforms in requirements.

Datath. Mian.

No. building shall be occupied until the issuance of a certificate by the Board of Health.

Louisville, Ky. Lowell, Mass.

Memphis, Tenn. Milwaukee, Wis.

Minneapolls, Minn.

No bidg, shall be occupied without a certificate from Inspector of flidgs, that it conforms to requirements.

New Orleans, La.

Tenement shall not be occupied until certificate of approval is granted by Flumbing impector.

Paterson, N. J.

Building shall not be eccupied until permit authorising in the permit authorising its une be issued until permit authorising its une be insued by Department of Public Health before occupation.

tion.

Portland, Orc.

Inspector of Buildings shall inspect building before occupation and if it conforms to law issue a certificate to that effect. Providence, R. L.

Richmond, Va.

Hackester, N. V.

No tenement shall be occupied until the issuance of certificate by Bureau of Buildings that it conforms to the requirements.

St. Paul, Minn,

Scattle, Wash.

Violations left to Inspector of Bldgs, to discover. Tozonto, Can.

Washington, D. C. Worcester, Mass.

REGISTRATION OF TENEMENTS

Every tenement	fimore, 3 and apar required	Md. runent house must by Inspector of
	mton, Ma	

South Cont. Street.	
Bridgepart, Coun.	
Calgary, Can.	
Cambridge, Mass.	
Chlengu, III.	
Cincinnati, Okto	
Columb Colo	

ery owner, of tenement house and lease hole house shall register in Health Dep also side a description of the property y owner, agent or leases may file in the of Health a notice with his name an ease of that of an agent of the house for case of receiving service of process.

Dayton, Ohlo

Benver, Colo.

Pine \$15 to \$100 for each and every day.

Bridgeport, Conn.
Fine of not more than \$100 upon conviction for each violation.

Pine of not less than to or more than same.

Colombiae, this

Sot less than 12, nor more than \$250 top
first offende, and not less than 155 nor more
than \$250 top
first offende, and not less than 155 nor more
than \$250 for second offende and each subsections to the second offende and each subsections to the second of the property of
the second of the second offende and the

Fig. 10 (although and) constitute a separate
offende and had a first notification.

Fine of not less than \$5 nor more than \$250. Violation or each day shall constitute a separate affects.

Fine not exceeding 1500.

Not over \$50 and costs.

Cambridge, Mass. Chiengo, Ill. Fine of not less than \$5 or more than \$50a. Detroit, Mich.

Every owner and lesses thall file name and ddress and description of property with sand of Health. Every owner, agent, or seen may she with Beard of Health satter the name and address of an agent of such ouns for purpose of receiving service of pre-

Owner's name must be registered with Health Department

-	Indianapolis, Ind.
_	Louisville, Kr.
	Lowell, Mass.
	Memphis, Tenn.
	Milwanker, Wis.
STATE OF THE PARTY	Minnenpells, Minn-

ing may fite in Health for lease of a dwell-ing may fite in Health Popt name and ad-dress of agent of such house for receiving service of process, also a description of prop-erty.

New Orleans, La.

PENALTIES

tince; or by fine of not less than \$10 or not more than \$100 if the offense is not willful, or it willful not more than \$100. Any person assisting in the winktism of this act shall pay a penalty of \$50.

Louisville, Ky.

Pine of not less than \$10 nor more than \$100 for each day violation continues.

Fine of 18s or imprisonment of not more than 1c days for each and every violation. After first conviction person who continues first conviction person who continues first of \$25, shall for each day be subject to Pensylvania (Model Law).

Any expense incurrent by vacating authorities in vacation shall be recoverable against owner.

Duluth, Mins.

Poterson, N. J.

Pennsylvania (Model Law),

Pittsburgh, Pa.

of, or person having control of
se shall file maine and address,
horized agent, description by
number of apartments, rooms,

Persiand, Ore.	
Providence, R. L.	
Bickmond, Va.	
Bockester, N. Y.	
St. Paul, Minn.	
Scattle, Wash.	
Toledo, Okto	
Torunto, Can.	
Washington, D. C.	
Worsester, Mass,	

Lewell, Mgas.

Fine not less than \$10 nor more than \$100, or imprisonment not exceeding 90 days.

Milwaukee, Wis,

Minoraportis, Mi

Stense. New Orleans, La. 125 or 30 days' imprisonment.

Fine not exceeding \$200, or imprisonment of not more than a months or both. Visiation shall constitute a separate oftense each

tion shall constitute a separate offense each Any part of pullding erected or altored in violation of cede shall be torn down the expense of those making the violation. It is provided to the provided of the

Imprisonment for three months or \$500 one, or both. Scattle, Wesh.

25 to \$100 or imprisonment. Each day a reparate offense. Toronto, Can.

Washington, D. C.

Fine of not more than \$100 for each viola-

Richmond, Va.

Hidg. Inspector and in case of appeal the
Board of Public Safety.

Detroit, Mick. Duluth, Minn. Indianapolis, Ind.

Every person guilty of violation of this act shall be positished by imprisonment for its days for each day that violation shall con-

Inspector of Bulldings, Md. Building Commissioner and Board of

Bridgeport, Conn. Building Commissioner and Inspector.

*Supt. of Rulldings.

Dullding Department, Mass.

Chicago, Di. Cincinnati, Ohio

Health and Bidg. Depts.

Chief Inspector of Division of Bidg. In-Denver, Coto. Department of Building Inspection.

Department of Buildings, Pennsylvania (Mudel Law),

ADMINISTRATION AND ENFORCEMENT Detroit, Mich.

Department of Public Safety, Bureau of Health of each city, Sureau of Building In-spection of each City. Indianapolis, Ind.

Louisville, Kr. Department of Buildings. Dept. of Bidgs, composed of Inspector of Bidgs, deputy Inspector of Bidgs, clerk, etc. Providence, R. L. Board of Health and Building Department

Department of Building. Inspector of Bulldlings. Wis.

Minnyspolis, Minn. Inspector of Buildings, Dept. of Health.

New Orleans, La.
City Engineer and Police Department. Omaha, Neb.

Sc. Paul, Minn. Commissioner of Public Works. Senttle, Wash. Building Inspector. Toronto, Can.

The Bureau of Buildings,

Washington, D. C.

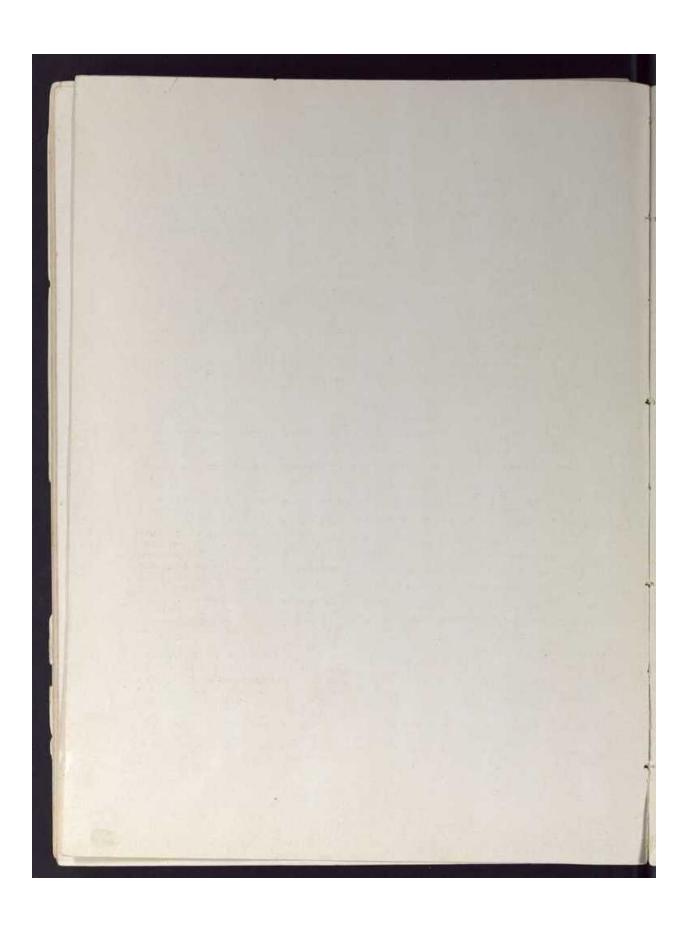
Worrester, Mass, Superintendent of Public Buildings.

Proposed Ordinances

HE following proposed Housing Ordinance for the City of St. Paul is the result of an intensive study of housing legislation in thirty-one cities and states throughout the country, and is based mainly upon the Codes of the State of Michigan and the City of Minneapolis.

In the preparation of this Ordinance, the Director of the Survey secured the advice and co-operation lasting thru many days, of representatives from the Real Estate Board, the Builders' Exchange, the Plumbers' Association, architects, the Building Inspector of St. Paul, the Building Inspector of Minneapolis and such others as were willing to give their services and were intelligently informed regarding the needs of St. Paul.

The Housing Commission in giving its endorsement to this Ordinance by no means considers its provisions ideal, but in so far as precedent and interests of real estate owners and tenants, the powers of the City to enact legislation, and the available machinery for such enforcement are concerned this bill is considered as nearly adequate as is possible under present circumstances. Wherever feasible this Ordinance is in accord with the provisions contained in the Housing Code of the City of Minneapolis, especially on such matters as would protect the real estate interests of St. Paul in competition with similar interests in the neighboring city.



Ordinances

ORDINANCE NO.

AN ORDINANCE REGULATING THE CONSTRUCTION, ENLARGEMENT, ALTERATION, REPAIR, INSPECTION, MAINTENANCE, AND SAFEGUARDING OF BUILDINGS, AND THE SAFEGUARDING OF THE HEALTH OF OCCUPANTS BY THE REGULATION OF SANITARY PROVISIONS AND THE PROTECTION OF REAL PROPERTY USED FOR DWELLING PURPOSES IN THE CITY OF ST. PAUL.

The Council of the City of St. Paul does ordain:

ARTICLE L

GENERAL PROVISIONS.

Sec. 1. Title of the Ordinance.

This Ordinance shall be known as the Housing Ordinance of the City of St. Paul, and shall apply to all dwellings and their surroundings.

Sec. 2. Definitions.

All words used in this Ordinance hereinafter defined shall be interpreted according to the letter of the definitions provided in this section.

(a) Whenever in this Ordinance the present tense is used it shall include the future tense. The "masculine gender" shall include the feminine and neuter genders. The "singular number" shall include the plural. The word "person" includes an association, partnership or corporation as well as a natural person. The word "converted" shall mean either a change of character in occupancy or in construction. The words "is occupied" applying to any building shall be construed as if followed by the words "or is intended, arranged, or designed to be occupied."

Whenever the word "shall" is used it shall be considered as mandatory and not permissive.

(b) "A dwelling" is to be construed as meaning any building or portion of building occupied, or intended to be occupied in whole or in part as a home, residence or sleeping place of one or more human beings, either permanently or temporarily.

Sec. 3. For the purpose of this Ordinance dwellings are divided into the following classes:

- 1. Private dwellings.
- 2. Two family or duplex dwellings.
- 3. Multiple dwellings,

Classes of Multiple Dwellings.

All multiple dwellings for the purpose of this Ordinance shall be divided into two classes: Class "A," and Class "B," Class A. Multiple dwellings of Class A are dwellings which are occupied more or less permanently for residence purposes by several families and in which the rooms are occupied in apartments, suites or groups. This class includes tenement houses, flats, apartment houses, apartment hotels, bachelor apartments, studio apartments, kitchenette apartments, and all other dwellings similarly occupied whether specifically enumerated herein or not.

Class B. Multiple dwellings of Class B are dwellings which are occupied, as a rule transiently, as the more or less temporary abiding place of individuals who are lodged, with or without meals, and in which as a rule the rooms are occupied singly. This class includes hotels, lodging houses, boarding houses, furnished room houses, club houses, convents, asylums, hospitals, jails, and all other dwellings similarly occupied whether specifically enumerated herein or not, except fire engine

(1) Hotel. A "hotel" is a multiple dwelling of Class B in which persons are lodged for hire and in which there are more than thirty sleeping rooms, a public dining room for the accommodation of at least fifty (50) guests, and a general kitchen.

(2) Mixed Occupancy. In cases of mixed occupancy where a building is occupied in part as a dwelling the part so occupied shall be deemed a dwelling for the purposes of this Ordinance and shall comply with the provisions thereof relative to multiple dwellings.

(3) Yards. A "rear yard" is an open unoccupied space on the same lot with a dwelling, between the extreme rear line of the lot and the extreme rear line of the house and extending across the entire width of the lot. A yard between the extreme front line of the house and the front line of the lot and extending across the entire width of the lot is a "front yard." A yard between the extreme side line of the house and the side line of the lot and which extends from the front yard to the rear yard is a "side yard."

(4) Courts. A "court" is an open unoccupied space, other than a yard, on the same lot with a dwelling. A court not extending to the street or front or rear yard is an inner court. A court extending to the street or front yard or rear yard is an outer court.

(5) Corner and Inside Lots. A "corner lot" is a lot of which at least two adjacent sides abut for their full length upon a street. A lot other than a corner lot is an "inside lot."

- (6) Front, Rear, and Depth of Lot. The front of a lot is that boundary line which borders on the street. In case of a corner lot the owner may elect by statement on his plans either street boundary line as the front. The rear of a lot is the side opposite to the front. In the case of a triangular or gore lot the rear is the boundary line not bordering on a street. The depth of a lot is the dimension measured from the front of the lot to the extreme rear line of the lot. In the case of irregular shaped lots the mean depth shall be taken.
- (7) Public Hall. A "public hall" is a hall, corridor or passageway not within the exclusive control of one family.
- (8) Stair Hall. A "stair hall" is a public hall and includes the stairs, stair landings and those portions of the building through which it is necessary to pass in going between the entrance floor and the top floor.
- (9) Basement, Cellar, Attic. (a) A "basement" is a story partly underground but having at least one-half of its height above the curb level, and also one-half of its height above the highest level of the adjoining ground. A basement shall be counted as a story, except that a basement, the ceiling of which does not extend for more than five feet above the curb level or above the highest level of the adjoining ground shall not be counted as a story.
- (b) A "cellar" is a story having more than one-half of its height below the curb level, or below the highest level of the adjoining ground. A cellar shall not be counted as a story for the purposes of height measurement. If any part of a story is in that part the equivalent of a basement or cellar, the provisions of this ordinance relative to basements and cellars shall apply to such part of said story.
- (c) In the case of private-dwellings and two-family-dwellings an attic, or story in a sloping roof shall not be counted as a story, except that no such attic shall contain a kitchen or dining room or be occupied for living purposes as the domicile of a family; the use of such attic shall be confined strictly to the use of the two families occupying the first and second floors of such dwelling. In the case of multiple-dwellings an attic shall be counted as a story.
- (10) Height. The "height" of a dwelling is the perpendicular distance measured in a straight line from the curb level to the highest point of the roof beams in the case of flat roofs and to the average of the height of the gable in the case of pitched roofs, the measurements in all cases to be taken through the center of the front of the house. Where a dwelling is situated on a terrace above or below the curb level such height shall be measured from the level of the adjoining ground. Where a dwell-

- ing is on a corner lot and there is more than one grade or level, the measurements shall be taken through the center of the front or side on the street having the lowest elevation.
- (11) Curb Level. The "curb level" is the level of the established curb in front of the building measured at the center of such front. Where no curb has been established the city engineer shall establish such curb level or its equivalent for the purposes of this Ordinance.
- (12) Occupied Spaces. Outside stairways, fireescapes, fire towers, porches, platforms, balconies, boiler flues and other projections shall be considered as part of the building and not as a part of the yards or courts or unoccupied spaces. This provision shall not apply to unenclosed outside porches not exceeding one story in height which do not extend into the front yard a greater distance than twelve (12) feet from the front walls of the building. A porch which does not extend into the side yard a greater distance than 6 feet from the side wall of the building nor exceed 12 feet in its other horizontal dimension, or to cornices not exceeding two (2) feet in width. A rear porch not exceeding six (6) feet in width shall be considered a part of the building to the extent of six (6) feet and in no case shall the excess over six (6) feet permit the shortening of the yard beyond the limits required in this ordinance.
- (13) Nuisance. The word "nuisance" shall be held to embrace public nuisance as known at common law or in equity jurisprudence; and whatever is dangerous to human life or prejudicial to health; whatever dwelling is overcrowded with occupants, or is not sufficiently ventilated, sewered, drained, cleaned or lighted, in reference to its intended or actual use; and whatever renders the air or human food or drink unwholesome, are also severally, in contemplation of this Ordinance, muisances; and all such muisances are hereby declared prejudicial to the public health.
- (14) Private Garage. A private garage shall mean a structure providing accommodations for not more than four (4) automobiles and in no case shall such automobiles be used for other than private purposes, except that one such automobile may be devoted to business purposes with the permission of the Building Inspector.
- Sec. 4. Buildings Converted or Altered. A building not a dwelling, if hereafter converted or altered to such use shall thereupon become subject to all the provisions of this Ordinance relative to dwellings hereafter erected. A dwelling of one class if hereafter altered or converted to another class shall thereupon become subject to all the provisions of this Ordinance relative to such class.

Sec. 5. Alterations and Change in Occupancy. No dwelling hereafter erected shall at any time be altered so as to be in violation of any provision of this Ordinance. And no dwelling erected prior to the passage of this Ordinance shall at any time be altered so as to be in violation of those provisions of this Ordinance applicable to such dwelling. If any dwelling or any part thereof is occupied by more families than provided in this Ordinance, or is erected, altered or occupied contrary to the provisions of this Ordinance, such dwelling shall be deemed a nuisance, and the health officer shall cause such dwelling to be vacated. And such dwelling shall not again be occupied until it or its occupation as the case may be, has been made to conform to the provisions of this Ordinance.

Sec. 6. Dwellings Moved. If any dwelling be hereafter moved from one lot to another it shall thereupon be made to conform to all the provisions of this Ordinance relative to dwellings hereafter erected except as to size and height of rooms and window area; provided, however, that no room in such dwelling shall be occupied for living purposes unless it shall have a window of an area of not less than eight square feet opening directly upon the street or upon a yard or court of the dimensions specified in this act relative to dwellings hereafter erected.

Sec. 7. Dwellings Damaged. If a dwelling be damaged by fire or other cause to the extent of not more than two-thirds of its value, exclusive of the value of the foundations, such dwelling in being repaired or rebuilt need not comply with the provisions of this ordinance relative to dwellings hereafter erected. If damaged to the extent of more than two-thirds of such value, it shall not be repaired or rebuilt except in conformity with the provisions of this ordinace relative to dwellings hereafter erected. Where an estimate of damage to buildings is given by the inspector of buildings, an appeal to arbitration shall be allowed to parties believing themselves injured or wronged by the estimate or decision of the inspector of buildings in any such case, as follows:

Any person desiring to make such appeal shall do so within fifteen days after written notice of the decision or order of the inspector of buildings shall have been given him. The request for arbitration shall be in writing, and shall state the object of the proposed arbitration and the name of the person who is to represent the appellant as arbitrator. The inspector of buildings shall thereupon state to the appellant the cost of such arbitration, and such appellant shall, within twenty-four hours from the time of filing the original request for arbitration, deposit with the inspector of buildings the sum of

money required for defraying the expenses of the same, which sum shall in each case be fixed by inspector in proportion to the difficulty and importance of the case, but shall in no case be more than the cost of similar expert service in the course of ordinary business of private individuals or corporations.

As soon as such sum of money shall have been deposited with him, the inspector of buildings shall appoint an arbitrator to represent the city, who shall, together with the arbitrator appointed by the appellant, if they cannot agree, select a third arbitrator, and the decision of any two of these arbitrators in writing shall, after investigation of the matter in question, be final and binding upon the appellant as well as upon the city.

The arbitrators themselves, before entering upon the discharge of their duties, shall be placed under oath to the effect that they are unprejudiced as to the matter in question and that they will faithfully discharge the duties of their position. They shall have the power to call witnesses who shall be placed under oath, and their decision or award shall be rendered in writing, both to the inspector of buildings and to the appellant.

The fee deposited by the appellant with the inspector of buildings shall be paid by the inspector of buildings to the arbitrators upon the rendering of their report, and shall be in full of all costs incident to the arbitration; but should the decision of said board of arbitration be rendered against the inspector of buildings, then the money deposited by the aforesaid appellant shall be returned to him, and the entire cost of such arbitration shall be paid by the city. Provided, however, that whenever the decision of the inspector of buildings upon the safety of any building or part thereof or appurtenances connected therewith is made in a case so urgent, in his opinion, that failure at once properly to earry out his orders to demolish or strengthen such building or part thereof or to alter or change any of the appurtenances connected therewith may endanger life or limb, the decision of the inspector of buildings shall be absolute and final.

Sec. 8. Sewer Connection and Water Supply. The provisions of this act with reference to sewer connections and water supply shall be deemed to apply only where there is a sewer and water main in the street on which the dwelling is located, and which extend as far as the lot or plot of ground on which the dwelling is situated.

Wherever there is no sewer in the street on which a dwelling is situated, but there is a water main, the required plumbing for the dwelling shall be connected to a cesspool at least twenty feet in depth and four feet by four feet in size, provided that the nature of the soil is such, in the opinion of the inspector of buildings, that such cesspool can be made properly to take care of the sewage from said plumbing system. Wherever it is found by said inspector to be impracticable owing to the nature of the soil adjacent to said dwelling to construct such cesspool, a waterproof privy vault or other approved sanitary privy or similar device may be used temporarily for such dwelling until such time as a sewer is provided in the street adjacent to such dwellings. Whenever a sewer is so provided the owner of the dwelling shall at once install a plumbing system in the dwelling and connect it to the sewer. Cesspools shall be placed not less than twenty feet from the building whenever practicable.

ARTICLE II.

DWELLINGS HEREAFTER ERECTED.

In this article will be found the provisions which must be observed when a person proposes to build a new dwelling or to convert or after to such purposes a building which is not a dwelling.

TITLE 1.

LIGHT AND VENTILATION.

Sec. 9. Percentage of Lot Occupied. No dwelling hereafter erected shall occupy, either alone or with other buildings, a greater percentage of the area of the lot than as follows:

 (a) In the case of corner lots with streets on three sides, not more than ninety per centum;

(b) In the case of other corner lots, not more than eighty per centum;

(c) In the case of inside lots, not more than sixty-five per centum.

The measurements shall be taken at the ground level except that in the case of multiple dwellings where there are stores or shops on the entrance story, the measurements may be taken at the second story floor level, but in no case shall such part story be used for dwelling purposes. No measurements of lot area shall include any portion of any street. The measurements of lot area for the purposes of this section may be taken to the middle line of the alley where a public alley immediately abuts the lot at the rear or side and extends across its entire width or length, as the case may be. Any portion of a corner lot distant more than eighty feet from the outside side line of the lot, or from said side line extended in the same direction, shall be treated as an inside lot. The provisions of this section shall not apply to hotels.

Sec. 10. Height. No dwelling hereafter erected shall exceed in height the width of the widest street upon which it abuts nor in any case shall it exceed six stories and basement nor seventy-five feet in height. Such width of street shall be measured from front lot line. Where a street borders a public place, public park or navigable body of water, the width of the street is the mean width of such street plus the width, measured at right angles to the street line, of such public place, public park or body of water to opposite front lot line. No dwelling shall hereafter be erected upon any street or alley less than thirty feet in width. The provisions of this section shall not apply to hetels.

Sec. 11. Rear Yards. Immediately behind every dwelling hereafter erected there shall be, except as hereinafter provided, a rear yard extending across the entire width of the lot. Such yard shall be at every point open and unobstructed from the ground to the sky. Every part of such yard shall be directly accessible from every other part thereof. The depth of said yard shall be measured at right angles from the line of the extreme rear part of the dwelling toward the center of the rear lot line. In the case of an inside lot the rear yard space shall in no case be less than fifteen (15) feet deep, and five (5) feet additional for each story of the dwelling on said lot above the first. In case of a corner lot abutting on two streets, with no building facing the street upon which the lot abuts for the greater distance, the rear yard space shall in no case be less than ten feet deep, and five (5) feet additional for each story of the dwelling on said lot above the first. In the case of a corner lot abutting on two streets, with one or more dwellings facing the street upon which the lot abuts for the greater distance, the wall farthest distant, or substantially parallel, to such street shall, for the purpose of this section be deemed the rear wall of such dwelling or dwellings and the yard space between such rear wall and the line of the lot parallel or substantially parallel, to such street shall in no case be less than six feet for a two story dwelling and three feet additional for each story above the second. In case of corner lots abutting on three streets, not counting the alley as a street, the rear yard need not extend across the full width of the lot, but only to its median line. Any portion of a corner lot distant more than eighty (80) feet from the corner line, shall be treated as an inside lot. A front yard may be of any depth. The foregoing provisions of this section shall not apply to hotels

Except that in the case of multiple dwellings of Class A hereafter erected known as "littchenettes" in which the apartments are arranged in suites of not more than three rooms, kitchen and bath, and in which central heating and janitor service is furnished by the owner, the rear yard may be twenty-two and one-half feet in depth irrespective of the depth of the lot for a three-story dwelling and such depth shall increase three feet for each additional

story above three stories, but shall never be less than twenty-two and one-half feet.

Sec. 12. Side Yards; Distance Between Adjoining Buildings. In order to insure adequate light and ventilation and reduce the conflagration hazard and proserve the amenities of residential districts, no dwelling hereafter erected shall approach nearer to a side lot line than as prescribed in this section. The space between any such dwelling and the side lot line shall be deemed a side yard and shall be as follows:

(a) In the case of a dwelling hereafter erected one story in height such space shall not be less than four feet from the side wall of said dwelling to the side lot line.

(b) In the case of a dwelling hereafter erected two stories in height such space shall not be less than five feet to the side lot line; if said dwelling is three stories in height, such space shall be not less than seven feet to the side lot line; and such space shall increase two feet in width for each additional story.

(c) In the case of private-dwellings and of two-family dwellings hereafter erected, such space shall be not less than three feet from the side wall of the dwelling to the side lot line. Provided, however, that in no case shall the combined width of side yards for any such dwelling be less than double the width as prescribed in sub-division (a) and (b) of this section for a building of like height.

(d) All of the above-mentioned side yards shall be at every point open and unobstructed from the ground to the sky, except as provided in subdivision 12 of section 3 of this ordinance.

Sec. 13. Courts.

"Inner Courts" of all new apartment hotels, apartment houses, flat buildings, dormitories or tenement houses, as defined in this section, shall have minimum widths at every point, and minimum areas, as follows:

:3.000099888:		
Height of Court.	Least width in feet.	Least area in sq. feet.
1 story	ď.	100
2 stories	8	120
3 stories	10	160
4 stories	18	160
5 stories	14	260
6 stories	16	400
7 stories	28	625
8 stories	24	840

The height of a court shall be the number of stories above the lowest story having habitable rooms with windows opening on to such court through its enclosing walls.

"Outer Courts" of all new apartment hotels, apartment houses, flat buildings, dormitories, and tenement houses, as defined in this section, shall

have minimum widths at every point, from the side walls of any such building, extending to the street or front yard or rear yard, equal to the following:

He

ight of Building.	Least width o
Stories	Court in feet.
1 156	4
156	4
9	5 7 8
3	7
4	
5	8
.G 7	8
7	8
8 and over	8

The length of a court shall never be greater than 4 times its width. The width of all courts adjoining the lot line shall be measured to the lot line and not to an opposite building.

"Inner Courts" of private dwellings and two family dwellings shall have a minimum width at every point from the side walls of any such building extending to the street or front yard or rear yard equal to the following:

On West and	North side of lot:
	Least width of
Stories.	Court in feet,
1	3
15%	3
9	3
On South and I	Cast side line of lot:
	Least width of
Stories.	Court in feet.
1	5
11/2	5

2

Sec. 14. Courts Open at the Top. No court of a dwelling hereafter erected shall be covered by a roof or skylight. Every such court shall be at every point open from the ground to the sky, except that in the case of multiple dwellings where there are stores or shops on the entrance story, the courts may start at the top of such entrance story and such courts may be roofed over by a skylight provided the skylight completely covers the court and is equipped with ventilators having a minimum opening equivalent to forty-four square inches for each story in the height of said court and also with fixed louvres having a minimum opening equal to the superficial area of said court, and such openings into said court, shall be kept open and unobstructed at all times. The provisions of this section as to courts starting from the ground shall not apply to hotels.

Sec. 15. Air Intakes. In all dwellings hereafter erected every inner court extending through more than one (1) story shall be provided with a hori-

zontal air intake at the bottom. Such intake shall always communicate directly with the street or with the front yard or rear yard and shall consist of a passage way not less than three (3) feet wide and seven (7) feet high, which shall be left open, or be provided with an open gate at each end.

Sec. 16. Angles in Courts. Nothing contained in the foregoing sections concerning courts shall be construed as preventing the cutting off of the corners of said courts: Provided, that the running length of the wall across the angle of such corner does not exceed seven (7) feet.

Sec. 17. Buildings on Same Lot With a Dwelling. If any building is hereafter placed on the same lot with a dwelling there shall always be maintained between the said buildings an open and unoccupied space extending upwards from the ground. If such buildings are placed at the side of each other the space between them shall conform to the provisions of section 12 of this ordinance relating to side yards, but shall be twice the minimum therein required. If such buildings are placed one at the rear of the other the space between them shall be the same as that prescribed in section eleven for rear yards. In all cases the height of the highest building on the lot shall regulate the dimensions. No building of any kind shall be hereafter placed upon the same lot with a dwelling so as to decrease the minimum sizes of courts or yards as hereinbefore prescribed. No building shall hereafter be placed upon a lot so that there shall be a dwelling at the rear of another building on the same lot without a frontage on a street other than

A private garage or private stable may be built at the rear of a lot on which there is a dwelling at the front. Such garage or stable shall not exceed two stories in height, and may have living rooms therein for the use solely of a household employe, or member of his family, of the occupant of the dwelling on the front of the lot. If so occupied, the garage or stable in addition to complying with the provisions of this Ordinance shall have an entrance from the outside of the building without passing through the garage or stable. In case of such garages which do not exceed one story in height, the depth of the rear yard shall be measured to the rear lot line, as the case may be. as provided in the Ordinance; but no such garage shall in any case approach nearer to the rear wall of the dwelling than fifteen (15) feet. In all other cases the rear yard shall be measured from the rear wall of the dwelling to the nearest wall of the building at the rear of the lot. If any dwelling is hereafter erected upon any lot upon which there is already another building, it shall comply with the provisions of this Ordinance, and in addition the space between the said building and the said dwelling shall be of such size and arranged in such manner as is prescribed in this section, the height of the highest building on the lot to regulate the dimensions.

Nothing in this section shall be construed as prohibiting the construction of garage as part of the dwelling. Any other structures on the rear of a lot shall be subject to the restrictions that apply to stables and garages.

Sec. 18. Rooms, Lighting and Ventilation Of. In every dwelling hereafter erected every room shall have at least one (1) window opening directly upon the street, or a public alley or other public space at least sixteen (16) feet in width, or upon a yard or a court of the dimensions specified in this Ordinance and located on the same lot, and such window shall be so located as to properly light all portions of such rooms. This provision shall not, however, apply to rooms used as art galleries, swimming pools, gymnasiums, squash courts or for similar purposes, provided such rooms are adequately lighted and ventilated.

Sec. 19. Windows in Rooms. In every dwelling hereafter erected the total window area in each room shall be at least one-eighth (½) of the superficial floor area of the room, and the whole window shall be made so as to open. This shall not prohibit the use of sliding sash. At least one (1) such window shall be not less than twelve (12) square feet in area between the stop-beads. In multiple-dwellings the top of at least one (1) window shall be not less than seven (7) feet above the floor.

Provided, however, that where an open porch adjoins a room, one-half of the windows opening upon such porch may be considered as part of the total window area required for such room.

Sec. 20. Rooms, Size Of. In every dwelling hereafter erected all rooms, except water-closet compartments and bathrooms and pantries shall be of the following minimum sizes: Every room shall contain at least ninety (90) square feet of floor area except that kitchenettes may be fifty (50) square feet in area; no room except kitchenettes shall be in any part less than seven (1) feet wide. (In multiple-dwellings of Class A in each apartment, group or suite of rooms there shall be at least one (1) room containing not less than one hundred fifty (150) square feet of floor area.)

Sec. 21. Rooms, Height Of. No room in a private dwelling or two-family dwelling hereafter erected shall be in any part less than eight (8) feet high from the finished floor to the finished ceiling, except that an attic room in such private and two-family dwelling need be but seven (7)

feet six (6) inches in but one-half of its area, but at no point less than four (4) feet in height. No room in a multiple-dwelling hereafter erected shall be in any part less than eight (8) feet high from the finished floor to the finished ceiling.

Sec. 22. Alcoves and Alcove Rooms for Sleeping Purposes or as Separate Rooms. In every dwelling hereafter erected an alcove in any room shall be separately lighted and ventilated as provided for rooms in the foregoing sections. Such alcove shall be not less in area than as provided in section 20. No part of any room in a dwelling hereafter erected shall be enclosed or subdivided at any time wholly or in part by a curtain, portiere, fixed or movable partition or other contrivance or device, unless such part of the room so enclosed or subdivided shall contain a separate window as herein required, and shall have a floor area of not less than is provided in section 20.

Sec. 23. Privacy. In every dwelling hereafter erected, access to every living room and to every bedroom and to at least one (1) water-closet compartment shall be had without passing through a bedroom.

Sec. 24. Water-Closet Compartments and Bath Rooms, Lighting and Ventilation Of. In every dwelling hereafter erected, every water-closet compartment and bath room shall have at least one (1) window opening directly upon the street, or upon a yard or court of the dimensions specified in this article, or if located immediately beneath the roof, a ventilating skylight, open to the sky with an opening not less than six square feet in area in each toilet, may be used in lien of the windows required by this section. No such window shall be less in size than three (3) square feet between stop-beads, and the aggregate area of windows for each water-closet compartment shall be not less than six (6) square feet between stop-heads. Such windows shall be so located as to properly light all portions of such compartments. Every such window shall be made so as to open in all its parts.

"The above provision shall not apply to hotels that have a system of forced ventilation so constructed as entirely to change the air in every bath room, toilet room or water closet compartment every fifteen minutes."

Sec. 25. Public Halls. In every dwelling hereafter erected every public hall shall have at each
story at least one (1) window opening directly
upon the street or upon a yard or court of the
dimensions specified in this article and located on
the same lot. Any part of a public hall which is
offset or recessed more than five (5) feet or is shut
off from any other part of said hall shall be deemed

a separate hall within the meaning of this section, and shall be separately lighted and ventilated.

Sec. 26. Windows and Skylights for Public Halls. In multiple-dwellings hereafter erected one (1) at least of the windows provided to light each public hall or part thereof shall have at least twelve (12) square feet or glazed area.

Sec. 27. Windows for Stair Halls, Size Of. In every multiple-dwelling hereafter erected there shall be provided for each story at least one (1) window to light and ventilate each stair hall which shall have at least ten (10) square feet of glazed area. A sash door opening to the outer air shall be deemed the equivalent of a window in this and the two (2) foregoing sections, provided that such door contains the amount of glass surface prescribed for such windows.

Sec. 28. Screens. Between the 15th of May and the 15th of October all windows of rooms used for human occupancy shall be provided by the owners with proper screens, and all windows and doors in halls and basements or cellars opening into the outer air shall also be provided by the owners with screens. Adequate screens should be so constructed and placed as to prevent ingress of flies, mosquitoes and other insects to the interior of the building. This provision shall not apply to windows and doors located above the fourth floor of any building. All barns or stables located within one hundred (100) feet of any dwelling which shall be used for the housing of horses or other animals shall also be provided with screens which would prevent the ingress and egress of flies, mosquitoes and other insects.

Sec. 29. Outside Porches. In dwellings hereafter erected outside porches shall not be so located as to interfere with or diminish the light or ventilation required by this Ordinance. The term "outside porches" shall include outside platforms, balconies and stairways. All such outside porches shall be considered as part of the building, and not as part of the yards or courts or other unoccupied area.

TITLE 2.

SANITATION.

Sec. 30. Cellar Rooms. In dwellings hereafter erected no room in the cellar shall be occupied for living purposes.

Sec. 31. Basement Rooms. In dwellings hereafter erected no room in the basement shall be occupied for living purposes, except by the janitor of such dwelling and the members of his family. In addition to the other requirements of this ordinance, such rooms shall have sufficient light and ventila-

tion, shall be well drained and dry and shall be fit for human habitation.

Sec. 32. Cellars, Water-Proofing and Lighting. Every dwelling bereafter erected shall have a basement, cellar, or excavated space under the entire entrance floor at least three (3) feet in depth, or shall be elevated above the ground so that there will be a clear air space of at least twenty-four (24) inches between the top of the ground and the bottom of said floor so as to insure ventilation and protection from dampness. Such space shall in all cases be enclosed but provided with ample ventilation and properly drained. Every dwelling hereafter erected shall have all walls below the ground level and also the cellar or lowest floor damp-proof and water-proof. When necessary to make such walls and floors damp-proof and waterproof, the damp-proofing and water-proofing shall run through the walls and up the same as high as the ground level and shall be continued throughout the floors, and the said cellar or lowest floor shall be properly constructed so as to prevent dampness or water from entering. All cellars and basements in dwellings hereafter erected shall be properly lighted and ventilated. In every dwelling hereafter erected when the foundation, basement, or cellar walls are of poured concrete construction, forms shall be built on each side of such foundations or walls from the base to the top in order to insure uniform width.

Sec. 33. Courts, Areas and Yards. In every dwelling hereafter erected, all courts, areas and yards shall be properly graded and drained, and when required by the health officer they shall be properly paved in whole or in part as may be appropriate.

Sec. 34. Water Supply. In every dwelling hereafter erected where water mains are accessible there shall be a proper sink or wash bowl with running water, exclusive of any sink in the cellar. In two-family dwellings and in multiple-dwellings of Class A there shall be such a sink or wash bowl in each apartment, suite or group of rooms.

Sec. 35. Water-Closet Accommodations. In every dwelling hereafter erected there shall be a separate water-closet. Each such water-closet shall be placed in a compartment completely separated from every other water-closet; such compartment shall be not less than three (3) feet wide, and shall be enclosed with partitions which shall extend to the ceiling and which shall not be of wood or other absorbent material. Every such compartment shall have a window opening directly upon the street or upon a yard or court of the minimum sizes prescribed by this Ordinance and located upon the same lot. Nothing in this section contained shall

be construed so as to prohibit a general toilet room containing several water-closet compartments separated from each other by dwarf partitions, provided such toilet room is adequately lighted and ventilated to the outer air and that such waterclosets are supplemental to the water-closet accommodations required by other provisions of this section for the tenants of the said house. No watercloset shall be placed out of doors. No water-closet fectures shall be enclosed with any woodwork. No drip trays shall be permitted on any water-closet No water-closet shall be placed in a cellar except with written permit from the health-officer unless it is an extra water-closet in a private dwelling and is well lighted and ventilated by a window to the outer air. In two-family dwellings and in multiple-dwellings of Class A hereafter erected there shall be for each family a separate watercloset constructed and arranged as above provided and located within each apartment, suite or group of rooms. In multiple-dwellings of Class B hereafter erected there shall be provided at least one (1) water-closet for every fifteen (15) occupants or fraction threof. Every water-closet compartment hereafter placed in any dwelling shall be provided with gas or electric light for lighting the same at night unless no gas or electric light is available in such buildings. In two-family and multiple dwellings bereafter erected the floor of every such watercloset compartment shall be made water-proof with asphalt, tile, stone, terrazzo or some other nonabsorbent water-proof material; and such waterproofing shall extend at least six (6) inches above the floor so that the said floor can be washed or flushed out without leaking,

Sec. 36. Sewer Connection. No multiple-dwelling shall hereafter be erected on any street unless there is city water supply accessible thereto, nor unless there is a public sewer in such street, or a private sewer connecting directly with a public sewer, or a septic tank sewage disposal system approved by the Health Office and every such multiple-dwelling shall have its plumbing system connected with the city water supply and with a public sewer before such multiple-dwelling is occupied. No cesspool or vault or similar means of sewage disposal shall be used in connection with any dwelling where connection with a public sewer is practicable.

Sec. 37. Plumbing. In every dwelling hereafter erected no plumbing fixture shall be enclosed with woodwork, but the space underneath shall be left entirely open. Plumbing pipes shall be exposed when so required by the health officer. All plumbing work shall be sanitary in every particular and, except as otherwise specified in this Ordinance shall be in accordance with the plumbing regulations of this city.

FIRE PROTECTION.

Sec. 38. Fireproof Dwelling, When Required. No dwelling shall hereafter be erected exceeding three stories in height, unless it shall be a fireproof dwelling; the building, however, may step up to follow the grade, provided no part of it is over three stories in height.

Sec. 39. Means of Egress. Every multiple-dwelling hereafter erected exceeding one story in height shall have at least two independent ways of egress which shall be located remote from each other, and shall extend from the entrance floor to the top floor, and in the case of flat-roofed multiple-dwellings exceeding two stories in height shall extend to the roof. The stairs and public halls therein shall each be at least three feet six inches wide in the clear. The two ways of egress shall be flights of stairs. either inside or outside, constructed and arranged as provided in sections - and - of this act. In multiple-dwellings of Class A, except in kitchenette apartments arranged in suites of not more than three rooms, kitchen and bath, the second way of egress shall be directly accessible to each apartment, group or suite of rooms without having to pass through the first way of egress. In multiple-dwellings of Class B and in kitchenette apartments, as above described, the second way of egress shall be directly from a public hall.

Sec. 40. Fire-escapes. All fire-escapes hereafter erected on multiple-dwellings shall be located and constructed as in this section required. Such fireescapes shall be located at each story the floor of which is ten or more feet above the ground. Access to fire-escapes shall not be obstructed in any way. No fire-escapes shall be placed in an inner court. Fire-escapes may project into the public highway to a distance not greater than six feet beyond the building line. All fire-escapes shall consist of outside open iron, stone or concrete balconies and stairways. All balconies shall not be less than three feet in width. All stairways shall be placed at an angle of not more than forty-five degrees to the horizontal wherever practicable and in no case to exceed fifty degrees to the horizontal, with flat open steps not less than seven inches in width and twenty-four inches in length and with a rise of not more than eight inches. The openings for stairways in all balconies shall be not less than twenty-four by seventy inches, and shall have no covers of any kind. The balcony on the top floor, except in the case of a balcony on the street or in the case of a peaked-roofed house, shall be provided with a stairs or with a goose-neck ladder leading from said balcony to and above the roof and properly fastened thereto. A drop or stationary ladder or stairs shall

be provided from the lowest balcony of sufficient length to reach a safe landing place beneath. All fire-escapes shall be constructed and erected to sustain safely in all their parts a live load of one hundred and twenty pounds to the superficial foot, and if of iron shall receive not less than two coats of good paint, one in the shop and one after erection.

Sec. 41. Roof Egress; Scuttles and Bulkheads. Every flat-roofed multiple-dwelling hereafter erected exceeding one story in height or occupied by more than two families on any floor, shall have in the roof a bulkhead or scuttle not less than two feet by three feet in size. Such scuttle or bulkhead shall be fire-proof or covered with metal on the outside. Every flat-roofed multiple-dwelling hereafter erected exceeding two stories in height shall be provided with stairs leading to such scuttle or bulkhead and easily accessible to all occupants of the building. Every two-story flat-roofed multiple-dwelling hereafter erected having two or more families on any floor shall be provided with stairs or stationary ladder leading to such scuttle or bulkhead and easily accessible to all occupants of the building. No scuttle or hulkhead shall be located in a closet or room, but shall be located in the ceiling of the public hall on the top floor, and access through the same shall be direct and unobstructed.

Sec. 42. Stairs. In multiple-dwellings bereafter erected all stairs shall be constructed with a rise of not more than eight inches and with treads not less than ten inches wide and not less than three feet six inches long in the clear, except that multiple-dwellings not exceeding two stories in height or having not more than two families on any floor, may have stairs with treads not less than three feet long in the clear. Winding stairs shall not be used. In multiple-dwellings hereafter erected exceeding two stories in height or occupied by more than two families on any floor, one of the stairways shall be constructed of fire-proof material throughout. The risers, strings and balusters shall be of metal, concrete or stone. The treads shall be of metal, slate, concrete or stone, or of hardwood not less than one and one-half inches thick. Wooden hand-rails to stairs may be used if constructed of hardwood.

Sec. 43. Stair Halls. In multiple-dwellings hereafter erected exceeding two stories in height or occupied by more than two families on any floor, the fire-proof stairs required by the preceding section shall be enclosed on all sides with walls of brick not less than eight inches thick. The floors and ceilings of such fire-proof stair halls shall be of fire-proof construction. No wooden flooring shall be used. The doors opening from such stair halls shall be fire-proof, self-closing and shall open outward. There shall be no transom or sash or sim-

ilar opening from such stair hall to any other part of the dwelling, except that such stair hall shall be shut off from all non-fire-proof portions of the public halls and from all other non-fire-proof parts of the building on each story by a self-closing fire-proof sash door with transparent wire-glass therein; on either side and above such door there may be fixed fire-proof transoms and sash with transparent wireglass therein.

Sec. 44. Entrance Halls. Every entrance hall in a multiple-dwelling hereafter erected shall be at least five feet six inches wide in the clear, and shall comply with all the conditions of the preceding sections as to the construction of stair halls. In every multiple-dwelling hereafter erected, access shall be had from the street or alley to the rear yard either in a direct line or through a court or side yard.

Sec. 45. Dumb-waiters, Elevators and Shafts. In multiple-dwellings hereafter erected all vertical shafts, whether for dumb-waiter, elevator or other purposes, shall be constructed of fire-proof material, with fire-proof doors at all openings at each story, including the cellar. In the case of dumb-waiters such doors shall be self-closing. No elevator shall be permitted in the well-hole of stairs, but every elevator shall be completely separated from the stairs by fire-proof walls enclosing the same.

Sec. 46. Cellar Stairs. In multiple-dwellings of Class A hereafter erected which exceed two stories in height or which are occupied by more than two families on any floor, all inside stairs communicating between the cellar or basement, and the floor next above shall be of fire-proof construction with self-closing fire-proof door at the top and bottom and shall be enclosed with brick walls not less than eight inches thick; if located underneath the stairs leading to the upper stories, the soffit of such stairs shall be covered with fire-proof material.

Sec. 47. Closet Under First Story Stairs. In multiple-dwellings erected no closet of any kind shall be constructed under any staircase leading from the entrance story to the upper stories, but such space shall be left entirely open and kept clear and free from encumbrance.

Sec. 48. Cellar Entrance. In every multipledwelling hereafter erected there shall be an entrance to the cellar or other lowest story from the outside of the said building.

Sec. 49. Wooden Multiple-dwellings. No wooden dwelling to be occupied by more than one family shall hereafter be erected exceeding two stories and attic in height.

Sec. 50. Fire Walls. In a multiple-dwelling hereafter erected where such multiple-dwelling is completely divided into two or more parts by continuous fire walls and where such fire walls extend from

the ground to a distance of two feet at all points above the roof of the building, and without any opening therein, each such part may be considered as a separate dwelling for the purposes of fire protection. Wooden dwellings shall not be built contiguous to each other, and no such dwelling shall hereafter approach nearer to another building than provided in section .. of this ordinance. In nonfire-proof multiple dwellings hereafter erected, each five thousand superficial feet in ground area covered by such multiple-dwelling shall be separated from the rest of such multiple-dwelling by fire-proof division walls. Such walls shall extend from the ground to a height of two feet above the roof. Standard fire-proof self-closing doors or fire-proof curtains may be installed in such fire-proof division

Sec. 51. Outside Stand-pipes Not Required. Outside pipes shall not be required on buildings not exceeding three stories in height.

ARTICLE III.

ALTERATIONS.

In this article will be found the provisions which must be observed when a person proposes to alter an existing dwelling.

Sec. 52 Percentage of Lot Occupied. No dwelling shall hereafter be enlarged or its lot be diminished, or other building placed on its lot, so that a greater percentage of the lot shall be occupied by buildings or structures than provided in section—of this act.

Sec. 53. Yards. No dwelling shall hereafter be enlarged or its lot be diminished, or other building placed on the lot, so that the rear yard or side yard shall be less in size than the minimum sizes prescribed in Sections Twenty-one (21) and Twenty-two (22) of this Ordinance for dwellings bereafter erected.

Sec. 54. Height. No dwelling shall be increased in height so that the said dwelling shall exceed the height prescribed in section — of this act.

Sec. 55. New Courts in Existing Dwellings. An inner court hereafter constructed in a dwelling erected prior to the passage of this Ordinance, if extending through not more than two (2) stories shall be not less than eight (8) feet by eight (8) feet in size; if it extends through more than two (2) stories it shall be not less than ten (10) by ten (10) feet in size. Every such court shall have an air intake as required for new dwellings in section—and shall be open to the sky without skylight, or roof of any kind. Where it is not practicable to construct such passageway a metal duct not less in area than three bundred square inches nor less

in its least dimension than twelve inches may be used.

Sec. 56. Additional Rooms and Halls. Any additional room or hall that is hereafter constructed or created in a dwelling shall comply in all respects with the pravisions for "Rooms and Halls" in new building contained in this Ordinance, except that it may be of the same height as the other rooms on the same story of the dwelling.

Sec. 57. Rooms and Halls, Lighting and Ventilation Of. No dwelling shall be so altered or its lot diminished that any room or public hall or stairs shall have its light or ventilation diminished in any way not approved by the health officer.

Sec. 59. Skylights. All new skylights hereafter placed in a multiple-dwelling shall be provided with ridge ventilators having a minimum opening of forty (40) square inches and also with either fixed or movable louvres or with movable sashes, and shall be of such size as may be determined to be practicable by the health officer.

Sec. 61. Fire-proof Dwellings. No dwelling shall hereafter be altered so as to exceed three stories in height unless it shall be a fire-proof dwelling.

Sec. 62. Fire-escapes. All fire-escapes hereafter constructed on any multiple-dwelling shall be located and constructed as prescribed in section — of this act.

Sec. 63. Roof Stairs. No stairs leading to the roof in any multiple-dwelling shall be removed or be replaced by a ladder.

Sec. 64. Bulkheads and Penthouses. Every bulkhead and penthouse hereafter constructed in a multiple-dwelling shall be constructed fire-proof or covered with metal on the outside. Sec. 65. Stairways. No public hall or stairs in a multiple-dwelling shall be reduced in width so as to be less than the minimum width prescribed in sections — and — of this act.

Sec. 66. Dumb-waiters, Elevators and Shafts. All vertical shafts, dumb-waiters and elevators hereafter constructed in multiple dwellings shall comply in all respects with the provisions of section — of this act.

Sec. 67. Alteration of Existing Wooden Multipledwellings. Except as otherwise provided in this article, no existing wooden multiple-dwelling shall hereafter be enlarged, extended or raised unless the alterations thereto comply with the provisions of this act for the erection of new dwellings.

Sec. 68. Wooden Buildings on Same Lot with a Multiple-dwelling. No wooden building of any kind whatsoever shall hereafter be placed or built upon the same lot with a multiple-dwelling within the fire limits, and no existing wooden structure or other building on the same lot with a multiple-dwelling within the fire limits shall hereafter be entarged, extended or raised.

ARTICLE IV.

MAINTENANCE.

Sec. 69. Public Halls, Lighting at Night. In every multiple-dwelling a proper light shall be kept burning by the owner in the public hallways near the stairs upon each floor every night from sunset to sunrise throughout the year if so required by the health officer.

Sec. 70. Water-Closets in Cellars. No water-closet shall be maintained in the cellar of any multiple-dwelling without a permit in writing from the health officer, who shall have the power to make rules and regulations governing the maintenance of such closet. Under no circumstances shall the general water-closet accommodations of any multiple-dwelling be permitted in the cellar or basement thereof; this provision, however, shall not be construed so as to prohibit a general toilet room containing several water-closets, provided such water-closets are supplementary to those required by this

Sec. 71. Water-Closet Accommodations. In every dwelling existing prior to the passage of this Ordinance there shall be provided at least one (1) water-closet for every apartment, group or suite of rooms, except that in multiple-dwellings of Class B there shall be provided at least one (1) water-closet for every fifteen (15) occupants or fraction thereof. No such water-closets shall be so located as to be accessible only through another room. This section shall be subject to the provisions of section \$7 of this Ordinance.

Sec. 72. Basement and Cellar Rooms. No room in the cellar of any dwelling erected prior to the passage of this act shall be occupied either for living or for sleeping purposes. No room in the basement of any such dwelling shall be so occupied without a written permit from the commissioner of health. No such room shall hereafter be occupied unless all the following conditions are complied with:

(1) Such room shall be at least seven feet high in every part from the finished floor to the finished

ceiling

- (2) The ceiling of such room shall be in every part at least three feet six inches above the surface of the street or ground outside of or adjoining the same.
- (3) There shall be appurtenant to such room the use of a water-closet.
- (4) The lowest floor shall be water-proof and damp-proof.
- (5) Such room shall have sufficient light and ventilation, shall be well drained and dry, and shall be fit for human habitation.
- Sec. 73. Cellar Walls and Ceilings. The cellar walls and cellar ceilings of every multiple-dwelling shall by the owner be thoroughly whitewashed or painted a light color and shall be so maintained by him when required by the health officer.
- Sec. 74. Water-Closets and Sinks. In all dwellings the floor or other surface beneath and around water-closets and sinks shall be maintained in good order and repair.
- Sec. 75. Repairs. Every dwelling and all the parts thereof shall be kept in good repair, and the roof shall be kept so as not to leak, and all rain water shall be so drained and conveyed therefrom as not to cause dampness in the walls or ceilings.
- Sec. 76. Water Supply. Every dwelling where water supply is accessible or specified in the Ordinance shall have within the dwelling at least one (1) proper sink with running water furnished in sufficient quantity at one (1) or more places exclusive of the cellar. In two-family dwellings and multiple-dwellings of Class A there shall be a sink or wash bowl in each apartment, suite or group of rooms.
- Sec. 77. Cisterns and Wells. Where there is no city water supply accessible, there shall be provided one or more adequate eisterns or wells with a pump. Such cisterns or wells shall be of such size and number and constructed and maintained in such manner as may be determined by the commissioner of health. The above requirements shall be subject to the provisions of section of this Ordinance.
- Sec. 78. Catch-basins. In the case of dwellings where, because of lack of city water supply or sewers, sinks with running water are not provided inside the dwellings, one or more catch basins prop-

erly connected with a cesspool for the disposal of waste water, as may be necessary in the opinion of the commissioner of health, constructed in such nanner as he may specify, shall be provided in the yard or court, level with the surface thereof and at a point easy of access to the occupants of such dwelling and at a distance of not less than 100 feet from any well.

Sec. 79. Cleanliness of Dwellings. Every dwelling and every part thereof shall be kept clean and shall also be kept free from any accumulation of dirt, filth, rubbish, garbage or other matter in or on the same, or in the yards, courts, passages, areas or alleys connected with or belonging to the same. The owner of every dwelling, and in the case of a private dwelling the occupant thereof, shall thoroughly cleanse or cause to be cleansed all the rooms, passages, stairs, floors, windows, doors, walls, ceilings, privys, water-closets, cesspools, drains, halls, cellars, roofs and all other parts of the said dwelling, or part of the dwelling of which he is the owner. or in case of a private-dwelling the occupant, to the satisfaction of the health officer, and shall keep the said parts of the said dwelling in a cleanly condition at all times. This section shall not be construed to require the owner to keep clean the individnal apartments of a two-family dwelling or a multiple-dwelling of Class A, except where such apartments are unoccupied. It shall be the duty of each occupant to keep the portion of the dwelling occupied by him and over which he has control in a cleanly condition at all times.

Sec. 80. Walls of Courts. In multiple-dwellings the walls of all courts, unless built of a light color brick or stone, shall be thoroughly whitewashed by the owner or shall be painted a light color by him, and shall be so maintained. Such whitewash or paint shall be renewed whenever necessary, as may be required by the health officer. Courts which are equivalent in width to the height of the buildings shall not be required to be painted or whitewashed in light color unless so required by the health officer.

- Sec. 81. Walls and Ceilings of Rooms. In all multiple-dwellings the health officer may require the walls and ceilings of every room that does not open directly on the street to be kalsomined white or painted with white paint when necessary to improve the lighting of such room and may require this to be renewed as often as may be necessary.
- Sec. 82. Wall Paper. Whenever required by the commissioner of health, all old wall paper shall be removed and the walls and ceilings thoroughly cleaned before being redecorated.
- Sec. 83. Receptacles for Ashes, Rubbish and Garbage. Suitable tight metal cans, with covers, for holding ashes, rubbish, garbage, refuse and other

matter shall be provided and maintained for every dwelling. In the case of private dwellings and two family dwellings such cans shall be provided by the occupant. In the case of multiple dwellings of Class A where there are janitors, each family shall provide its own cans, but the owner shall provide such general cans to receive such waste materials as may be necessary. Wherever the owner of a multiple dwelling of Class A provides individual cans, for each apartment, it shall be the duty of the occupant of such apartment to keep the cans used by him in a cleanly condition at all times. Garbage chutes and bins are prohibited, but this shall not be construed as prohibiting garbage incinerators, inside of chimneys, if properly constructed.

Sec. 84. Prohibited Uses. No horse, cow, calf, swine, sheep, goats or chickens shall be kept in any dwelling or part thereof. Nor shall any such animal be kept on the same lot or premises with a dwelling except under such conditions as may be prescribed by the health officer. No such animal, except a horse, shall under any circumstances be kept on the same lot or premises with a multiple dwelling. This provision does not apply to dogs or cats unless such are kept for commercial purposes. No dwelling or the lot or premises thereof shall be used for the storage or handling of rags, junk, or any other material or substance subject to decay, which may be dangerous because of its odor, or because of the possibilities of harboring rats and other disease breeding or disease carrying animals.

Sec. 85. Hlegal Use. The Boreau of Health may prohibit the occupancy of multiple buildings or may order buildings vacated when in the opinion of such Bureau of Health one or more of the occupants are proved to be of immoral character, or where it has been proven that they are used for purposes of prostitution or gambling, provided that prior to the issuing of the order compelling the vacation of such building or buildings the owner, his agent or representative has been notified of the existing conditions, and a maximum of 30 days has been granted to the owner, his agent or representative, during which to remove the offending occupant.

Conviction in a Court in the City of St. Paul on the grounds of disorderly conduct, prostitution, or gambling on the basis of evidence gathered on the premises, shall be sufficient reason for the issuance of an order for vacation, and it shall be the duty of the Police Department of the City of St. Paul to report to the Bureau of Health all of such cases of immoral conduct, prostitution or gambling found in any of the dwelling houses in the City of St. Paul, and upon which conviction has been secured in any court.

Sec. 86. Combustible Materials. No dwelling, nor

any part thereof, nor of the lot upon which it is situated shall be used as a place of storage, keeping or handling of any article so that it is dangerous or detrimental to life or health; nor of any combustible article, except under such conditions as may be prescribed by the fire marshal under authority of a written permit issued by him. No multiple-dwelling nor any part thereof, nor of the lot upon which it is situated, shall be used as a place of storage, keeping or handling of feed, hay, straw, excelsior, cotton, paper stock, feathers or rags.

Sec. 87. Bakeries and Fat Boiling. No bakery and no place of business in which fat is boiled shall be maintained in any non-fire-proof multiple-dwelling of Class A hereafter erected, and no bakery and no place of business in which fat is boiled shall hereafter be installed in any non-fire-proof multipledwelling of Class A.

Sec. 88. Certain Dangerous Businesses. There shall be no transom, window or door opening into a public hall from any portion of a multiple-dwelling where paint, oil, drugs or spirituous liquors are stored or kept for the purpose of sale or otherwise. This provision shall not apply to hotels.

Sec. 89. Janitor or Housekeeper. In any multiple-dwelling in which the owner thereof does not reside, there shall be a janitor, housekeeper or other responsible person who shall have charge of the same, if the health officer shall so require.

Sec. 90. Overcrowding. If any room in a dwelling is overcrowded the health officer may order the number of persons sleeping or living in said room to be so reduced that there shall be not less than six hundred (600) cubic feet of air to each adult and four hundred (400) cubic feet of air to each child under twelve (12) years of age occupying such room.

Sec. 91. Lodgers Prohibited. The health officer may prohibit in any multiple-dwelling the letting of lodgings therein by any of the tenants occupying such multiple-dwelling, and may prescribe conditions under which lodgers or boarders may be taken in multiple-dwellings. It shall be the duty of the owner of all multiple-dwellings when notified by the health officer to see that the requirements of the health department in this regard are at all times compiled with. The provisions of this section may be extended to private-dwellings and two-family dwellings, as may be found necessary by the health officer.

Sec. 92. Infected and Uninhabitable Dwellings to Be Vacated. Whenever it shall be certified by an inspector or officer of the Board of Health that a dwelling is infected with contagious disease or that it is unfit for human habitation, or dangerous to life or health by reason of want of repair, or of defects in the drainage, plumbing, lighting, ventilation, or the construction of the same, or by reason of the existence on the premises of a nuisance likely to cause sickness among the occupants of said dwelling, or for any cause, the health officer may issue an order requiring all persons therein to vacate such house within not less than twenty-four (24) hours nor more than ten (10) days for the reasons to be mentioned in said order. In case such order is not complied with within the time specified, the health officer may cause said dwelling to be vacated. The health officer whenever he is satisfied that the danger from said dwelling has ceased to exist, or that it is fit for human habitation may revoke said order or may extend the time within which to comply with the same.

Sec. 93. Repairs to Buildings, Etc. Whenever any dwelling or any building structure, excavation, business pursuit, matter or thing, in or about a dwelling, or the lot on which it is situated, or the plumbing, sewerage, drainage, light or ventilation thereof, is in the opinion of the health officer in a condition or in effect dangerous or detrimental to life or health, the health officer may declare that the same to the extent he may specify is a public nuisance, and may order the same to be removed, abated, suspended, altered or otherwise improved or purified as the order shall specify. In addition to the above powers the health officer may also order or cause any dwelling or excavation, building, structure, sewer, plumbing pipe, passage, premises, ground, matter or thing, in or about a dwelling. or the lot on which it is situated, to be purified, cleansed, disinfected, removed, altered, repaired or improved. If any order of the health officer issued under the authority of the provisions of this Ordinance is not complied with, or so far complied with as he may regard as reasonable within fifteen (15) days after the service thereof, or within such shorter time as he may designate, then such order may be executed by said health officer through his officers, agents, employes or contractors.

Sec. 94. Fire-escapes. The owner of every multiple-dwelling on which there are fire-escapes shall keep them in good order and repair, and properly painted. No person shall at any time place any incumbrance of any kind before or upon any such fire-escape.

Sec. 95. Scuttles, Bulkheads, Ladders and Stairs. In all multiple-dwellings where there are scuttles or bulkheads, they and all stairs or ladders leading thereto shall be easily accessible to all occupants of the building and shall be kept free from incumbrance and ready for use at all times. No scuttle and no bulkhead door shall at any time be locked with a

key, but either may be fastened on the inside by movable holts or hooks.

ARTICLE V.

IMPROVEMENTS.

Sec. 96, Rooms, Lighting and Ventilation Of. No room in a dwelling erected prior to the passage of this Ordinance shall hereafter be occupied for living purposes unless it shall have a window of an area of not less than eight (8) square feet opening directly upon the street or upon a rear yard not less than ten (10) feet deep, or above the roof of an adjoining building, or upon a court or side yard of not less than twenty-five (25) square feet in area open to the sky without roof or skylight, unless such room is located on the top floor and is adequately lighted and ventilated by a skylight opening directly to the outer air.

Sec. 97. Public Halls and Stairs, Lighting and Ventilation Of. In all dwellings creeted prior to the passage of this Ordinance the public halls and stairs shall be provided with as much light and ventilation to the outer air as may be deemed practicable by the health officer, who may order the cutting in of windows and skylights and such other improvements and alterations in said dwellings as in his judgment may be necessary and appropriate to accomplish this result. All new skylights hereafter placed in such dwellings shall be in accordance with Section — of this Ordinance and shall be of such size as may be determined to be practicable by the health officer.

Sec. 98. Sinks and Water-Closets. In all dwellings erected prior to the passage of this Ordinance the woodwork enclosing sinks and water-closets shall be removed and the space underneath said fixtures shall be left open. The floor and wall surfaces beneath and around such fixtures shall be put in good order and repair. Defective and unsanitary water-closet fixtures shall be replaced by proper fixtures, as defined by this Ordinance.

Sec. 99. Privy Vaults, School Sinks and Water-Closets. Whenever a connection with a sewer is possible, all privy vaults, school sinks, cesspools, crock hoppers or other similar receptacles used to receive fecal matter, urine or sewage, shall, with their contents, be completely removed and the place where they were located properly disinfected under the direction of the health officer within 60 days after notification of the Health Department. Such appliances shall be replaced by individual water-closets of durable non-absorbent material, properly sewer-connected, and with individual traps, and properly connected flush tanks providing an ample flush of water to thoroughly cleanse the bowl.

Each such water-closet shall be located inside the dwelling or other building in connection with which it is to be used, in a compartment completely separated from every other water-closet, and such compartment shall contain a window of not less than four (4) square feet in area opening directly to the street, or rear yard or on a side yard or court of the minimum sizes prescribed in Sections of this Ordinance. The floors of water-closet compartments shall be as provided in Section of this Ordinance. Such water-closets shall be provided in such numbers as required by this Ordinance. Such water-closets and all plumbing in connection therewith shall be sanitary in every respect and except as in this Ordinance otherwise provided, shall be in accordance with the local ordinances and regulations in relation to plumbing and drainage. Pan, plunger and long hopper closets will not be permitted. No water-closets shall be placed out of doors.

Sec. 100. Basements and Cellars. The floor of the cellar or lowest floor of every dwelling shall be whenever necessary concreted with not less than three inches of concrete, cement or side-walk tile of good quality and with a finished surface.

Sec. 101. Shafts and Courts. In every dwelling where there is a court or shaft of any kind, there shall be at the bottom of every such shaft and court a door giving sufficient access to such shaft or court to enable it to be properly cleaned out: Provided, That where there is already a window giving proper access it shall be deemed sufficient.

Sec. 102. Egress. Every multiple-dwelling exceeding one story in height shall have at least two independent ways of egress constructed and arranged as provided in section 39 of this ordinance. In the case of multiple-dwellings erected prior to the passage of this act where it is not practicable to comply in all respects with the provisions of that section, the inspector of buildings shall make such requirements as may be appropriate to secure proper means of egress from such multiple-dwellings for all the occupants thereof. No existing freescape shall be deemed a sufficient means of egress unless the following conditions are complied with:

(1). All parts of it shall be of iron or other incombustible material.

(§). The fire-escape shall consist of outside balconies which shall be properly connected with each other by adequate stairs or stationary ladders, with openings not less than twenty-four by twenty-eight inches.

(3). All fire-escapes shall have proper drop ladders or stairways from the lowest balcony of sufficient length to reach a safe landing place beneath.

(4). All fire-escapes not on the street shall have a safe and adequate means of egress from the yard or court to the street or alley on the adjoining premises

(5). Prompt and ready access shall be had to all fire-escapes, which shall not be obstructed by bathtubs, water-closets, sinks or other fixtures, or in any other way.

All fire-escapes that are already erected which do not conform to the requirements of this section may be altered by the owner to make them so conform in lieu of providing new fire-escapes, but no existing fire-escape shall be extended or have its location changed except with the written approval of the inspector of buildings. All fire-escapes hereafter erected on any multiple dwelling shall be located and constructed as prescribed in section 40 of this ordinance.

Sec. 103. Additional Means of Egress. Whenever any multiple-dwelling is not provided with sufficient means of egress in case of fire, the inspector of buildings shall order such additional means of egress as may be necessary.

Sec. 104. Roof Egress, Scuttles, Bulkheads, Ladders and Stairs. Whenever so required by the inspector of buildings every flat-roofed multiple-dwelling exceeding two stories in height erected prior to the passage of this ordinance shall have in the roof a bulkhead, or a scuttle which shall be not less than two feet by three feet in size. All such bulkmends and scuttles shall be fire-proof or covered on the outside with metal and shall be provided with stairs or stationary ladders leading thereto and easily accessible to all occupants of the building. No scuttle or bulkhead shall be located in a room, but shall be located in the ceiling of the public hall on the top floor, and access through the same to the roof shall be direct and unobstructed. When deemed necessary by the inspector of buildings scuttles shall be hinged so as to open readily. Every bulkhead in such multiple-dwelling shall have stairs with guide or hand-rail leading to the roof, and such stairs shall be kept free from incumbrance at all times. No scuttle and no bulkhead door shall at any time be locked with a key, but either may be fastened on the inside by movable bolts or hooks. All keylocks on scuttles and on bulkhead doors shall be re-

REQUIREMENTS AND REMEDIES.

Sec. 105. Permit to Commence Building. Before the construction, extension or alteration of a dwelling, or the alteration or conversion of a building for use as a dwelling, is commenced, and before the construction or alteration of any building or structure on the same lot with a dwelling, the owner, or his agent or architect shall submit to the Building Inspector a detailed statement in writ-

ing, verified by the affidavit of the person making the same, of the specifications for such dwelling or building, upon blanks or forms to be furnished by the health officer, and also full and complete copies of the plans of such work. With such statement there shall be submitted a plat of the lot showing the dimensions of the same, the location of the proposed building and all other buildings on the lot. Such statement shall give in full the name and residence, by street and number, of the owner or owners of such dwelling or building and the purposes for which such dwelling or building will be used. If such construction, alteration, conversion or extension is proposed to be made by any other person than the owner of the land in fre. such statement shall contain the full name and residence, by street and number, not only of the owner of the land but of every person interested in such dwelling, either as owner, lessee or in any representative capacity. Said affidavit shall allege that said specifications and plans are true and contain a correct description of such dwelling, building, structure, lot and proposed work. The statements and affidavits herein provided for may be made by the owner, or by the person who proposes to make the construction, alteration or conversion, or by his agent or architect. No person, however, shall be recognized as the agent of the owner, unless he shall file with the Building Inspector a written instrument signed by such owner designating him as such agent. Such specifications, plans and statements shall be filed with the Building Inspector and shall be deemed public records, but no such specifications, plans or statements shall be removed from the office of the Building Inspector. The Building Inspector shall cause all such plans and specifications to be examined. If such plans and specifications conform to the provisions of this Ordinance, they shall be approved by the Building Inspector and a written certificate to that effect shall be issued by him to the person submitting the same. The Building Inspector may, from time to time, approve changes in any plans and specifications previously approved by him, provided the plans and specifications when so changed shall be in conformity with this Ordinance. The construction, alteration or conversion of such dwelling, building or structure, or any part thereof, shall not be commenced until the filing of such specifications, plans and statements, and the approval thereof, as above provided. The construction, alteration or conversion of such dwelling, building or structure shall be in accordance with such approved specifications and plans. Any permit or approval which may be issued by the Building Inspector but under which no work has been done above the foundation walls within one year from the time of the issuance of such permit or approval shall expire by limitation. The Building Inspector shall have the power to revoke or cancel any permit or approval in case of any failure or neglect to comply with any of the provisions of this Ordinance, or in the case of any false statement or misrepresentation is made in any specifications, plans or statements, submitted or filed for such permit or approval.

Sec. 106. Certificate of Compliance. No building hereafter constructed as or altered into a dwelling shall be occupied in whole or in part for human habitation until the issuance of a certificate by the Building Inspector that said dwelling conforms in all respects to the requirements of this Ordinance, or in the case any false statement Such certificate shall be issued within (15) days after written application therefor if said dwelling at the date of such application shall be entitled thereto.

Sec. 107. Prohibited Occupation. If any building hereafter constructed as or altered into a dwelling be occupied in whole or in part for human habitation in violation of the last section, said premises shall be deemed unfit for human habitation and the health officer may cause them to be vacated accordingly.

Sec. 108. Tenant's Responsibility. If the occupant of a dwelling shall fail to comply with the provisions of this ordinance after due and proper notice from the Commissioner of Health, such failure to comply shall be deemed sufficient cause for the summary exiction of such tenant by the owner and the cancellation of his lease.

Sec. 109. Registry of Owner's Name. Every owner, agent, or other person having control of a multiple dwelling shall file with the Bureau of Health and the Building Inspector a notice containing his name and address and also a description of the property, by street number or otherwise as the case may be, in such manner as the health officer shall prescribe.

Sec. 110. Registry of Boarder or Roomer. When required by the health officer the owner, agent or lessee of a dwelling shall keep a registry of all boarders or roomers, boarding, living or rooming in any dwelling. Such registry shall be in such forms as may be prescribed by the health officer.

Sec. 111. Inspection of Dwellings. The health officer or his duly authorized assistants or subordinates shall cause a periodic inspection to be made of every two-family and multiple-dwelling at least once a year. Such inspection shall include thorough examination of all parts of such dwellings and the

premises connected therewith. The health officer is also hereby empowered to make similar inspections of all dwellings and the premises surrounding or adjacent thereto, as frequently as may be necessary and for this purpose shall have the right to enter in and upon all premises and dwellings at such time or times as he may see fit.

Sec. 112. Enforcement. 1. Enforcement of all provisions of this act regulating the constructions of new buildings, the enlargement, alterations, and repair of existing buildings shall be under the jurisdiction of the Commissioner of Parks, Playgrounds and Public Buildings.

An Inspector of Buildings shall pass on all plans for construction, enlargement, alterations and repair of buildings, and shall inspect all such structares from time to time during construction.

It shall be the duty of the Building Inspector to keep a record of all buildings constructed, enlarged, altered or repaired with accurate information as to the time of construction, materials used, extent and character of buildings and of the cost of construc-

2. All provisions relating to the maintenance of buildings provided for in this ordinance should be under the control of the Bureau of Health and shall be enforced by the exercise of the police powers vested in said department by the laws of the State of Minnesota, the City Charter, and the ordinances of the City of St. Paul.

VIOLATIONS AND PENALTIES-COURTS HAVING JURISDICTION.

Sec. 113. Proceedings at Law. Whenever the Building Inspector is satisfied that any building or structure, or any portion thereof, the erection, construction or alteration, or repair of which is regulated, permitted or forbidden by this Ordinance, is being erected, altered, extended or repaired, in violation of, or not in compliance with, any of the provisions or requirements of this Ordinance, or in violation of any detailed statement of specifications or plans submitted and approved thereunder, or of any certificate or permit issued thereunder, or that any provision or requirement of this Ordinance, or any order or direction made thereunder has not been complied with, or that plans and specifications have not been submitted or filed as required by this Ordinance, the Building Inspector may, in his discretion through the Corporation Counsel, institute any appropriate action or proceeding, at law or in equity, to restrain, correct, or remove such violation, or the execution of any work thereon, or to restrain or correct the erection or alteration of, or to require the removal of, or to prevent the occupation or use of, the building or structure erected, constructed or altered, in violation of, or not in compliance with, any of the provisions of this Ordinance; or with respect to which the requirements of this Ordinance or of any order or direction made pursuant to any provisions contained in this Ordinance, shall not have been complied with

In any such action or proceeding the City of St. Paul by the Corporation Counsel may, at the request of the Building Inspector and on his affidavit setting forth the facts, apply to any court of record in said City, or to a judge or Justice thereof, for an order to enjoin and restraining all persons from doing, or causing or permitting to be done, any work in or upon such building or structure, or in or upon such part thereof as may be designated in said affidavit or from occupying or using said building or structure, or such portion thereof as may be designated in said affidavit for any purpose whatever, until the hearing and determination of said action and the entry of final judgment thereon.

The Court, or Judge, or Justice thereof, to whom such application is made, is hereby authorized forthwith to make any or all of the orders above specified, as may be required in such application, with or without notice, and to make such other or further orders or directions as may be necessary to

render the same effectual.

No officer of said Building Department, acting in good faith, shall be liable for damages by reason of anything done in any such action or proceedings.

Sec. 114. Notice of Violation of Ordinance-Service of Papers. All notices of the violation of any of the provisions of this Ordinance and all notices directing anything to be done, required by this Ordinance, and all other notices that may be required or authorized to be issued thereunder, including notice that any building, structure, premises, or any part thereof, are deemed unsafe or dangerous, shall be issued by the Building Inspector. or the Bureau of Health as the case may be, and may be served by an officer or employe of the Building Department, or the Bureau of Health, or by any person authorized by the said Departments.

If the person or persons, or any of them, to whom said notice or order is addressed, should reside in the State of Minnesota and have no known place of business therein, the same may be served by delivering to, and leaving with, such person or persons, or either of them, a copy of said notice or order, or if said person or persons cannot be found within said State after diligent search, then by posting a copy of same in manner aforesaid and depositing a copy thereof in a post office in the City of St. Paul, enclosed in a sealed wrapper addressed to said person or persons at his or their last known place of residence, with the postage paid thereon; and said

posting and mailing a copy of said notice or order shall be equivalent to personal service of said notice or order.

Sec. 115. Penalty. Any person who shall violate any of the provisions of this ordinance relating to the construction, enlargement or alteration of buildings, shall be guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine of not more than One Hundred (\$100.00) Dollars or by imprisonment for not to exceed ninety (90) days for each offense.

Sec. 116. Time of Compliance. All improvements specifically required in this ordinance upon dwellings erected prior to the date of its enactment shall be made within one year from said date, or at such earlier period as may be used by the Department of Health, or by the Building or Fire Department of the City of St. Paul.

Sec. 117. All regulations and ordinances inconsistent with the provisions contained in this ordinance are hereby repealed, beginning April 1st, 1918, when this ordinance shall go into effect.