MONTHLY BULLETIN

Indiana State Board of Health

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The MONTHLY BULLETIN will be sent to all health officers and depaties in the State. Health officers and depaties should carefully read and the each copy for future reference. This is very important, for we expect to print instructions, rules and general information, which it will be tecessary for officers to preserve.

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AUGUST BIRTHS.

Birth reports are always a month late because the law gives twenty days in which doctors and midwives may report.

Total births, 4.714. Males, 2,372; females, 2,342. Birth rate, 20.3 per 1.000 population. Excess of birth rate over death rate, 8.5.

Whites—Total, 4,640; males, 2,335; females, 2,305. Negroes—Total, 74; males, 37; females, 37. The highest birth rate was in Warren County, 34.8, and the lowest in Whitley, 11.1.

ABSTRACT OF MORTALITY STATISTICS FOR SEPTEMBER, 1909.

Total number of deaths, 2,660; annual rate, 11.8. In the same month last year, 2,755; rate, 12.3. In the preceding month, 3,164; rate, 13.6. Deaths by important ages were: Under 1 year, 440, or 17.5 per cent. of the total; 1 to 5, 214; 5 to 10, 59; 10 to 15, 50; 15 to 20, 77; 65 and over, 724, or 28.8 per cent. of the total.

SANITARY SECTIONS: THE NORTHERN SANITARY SECTION, population 920,585, reports 890 deaths; rate, 11.7. In the preceding month, 1,023 deaths; rate, 13.1. In the corresponding month last year, 950 deaths; rate, 12.5.

CENTRAL SANITARY SECTION, population 1,089,818, reports 1,163 deaths; rate, 13.0. In the preceding month, 1,374 deaths; rate, 14.8. In the same month last year, 1,136 deaths; rate, 12.2.

Southern Sanitary Section, population 722,147, reports 607 deaths; rate, 10.2. In the preceding month, 767 deaths; rate, 12.5. In the same month last year, 669 deaths; rate, 11.3.

REVIEW OF SECTIONS: The Central Sanitary Section shows the highest death rate, being 1.2 higher than the rate for the whole State. This section also shows the highest death rate in the following diseases: Tuberculosis, pneumonia, cerebro-spinal meningitis, cancer and violence. The Northern Sanitary Section shows the highest death rates in scarlet fever, diarrhoeal diseases, influenza, puerperal septicemia. The Southern Sanitary Section shows the highest death rates in typhoid fever, diphtheria, whooping cough.

CITIES: Total population, 1,050,310, report 1,195 deaths; rate, 13.8. In the same month last year, 1,192 deaths; rate, 13.8. The city death rate is 2.0 higher than the rate for the whole State, and 3.2 higher than the country rate. The death rates of cities having over 10,000 population are as follows: Indianapolis, 13.8; Evansville, 11.5; Ft. Wayne, 13.4; Terre Haute, 15.5; South Bend, 14.2; Anderson, 14.6; Columbus, 12.2; East Chicago, 27.7; Elkhart, 13.5; Elwood, 8.8; Hammond, 13.4; Jeffersonville, 16.2; Kokomo, 11.4; Lafayette, 19.4; Laporte, 20.7; Logansport, 16.7; Marion, 9.0; Michigan City, 18.0; Muncie, 10.5; New Albany, 10.6; Peru, 6.9; Richmond, 14.3; Vincennes, 9.6.

SUMMARY OF MORBIDITY AND MORTAL-ITY FOR SEPTEMBER, 1909.

Typhoid fever was reported as the most prevalent disease. This was also the case in the corresponding month last year. It stood second in area of prevalence in August. Diarrhoea, which was first in order of prevalence in August, fell to fifth place in September. The order of disease prevalence was as follows: Typhoid fever (enteric), rheumatism, tonsilitis, scarlet fever, diarrhoea, bronchitis, diphtheria and membranous croup, intermittent and remittent fever, dysentery, cholera infantum, cholera morbus, influenza, inflammation of bowels, pneumonia, pleuritis, typhomalaria fever, erysipelas, whooping cough, measles, puerperal fever, smallpox, cerebro-spinal meningitis, chickenpox.

SMALLPOX: Fifty-one cases reported from 9 counties with no deaths. In the corresponding month last year 32 cases in 8 counties with no deaths. In the preceding month, 29 cases in 2 counties with no deaths. The following counties reported the disease present: Adams, 3; Allen, 20; Grant, 11; Greene, 11; Huntington, 1; Johnson, 2; Monroe, 1; Vanderburgh, 1; Whitley, 1.

TUBERCULOSIS: Total number of deaths from all forms, 307, of which 244 were pulmonary. Total deaths in the same month last year, 318, of which 263 were pulmonary. Of the total consumption deaths in September 142 were males and 165 females. Of the males, 19 were fathers in the age period of 18 to 40, and left 36 orphans under 12 years of age. Of the females 58 were mothers in the same age period and left 116 orphans under 12 years of age. Total number of orphans made by the preventable consumption in one month, 154. Homes invaded, 290.

PNEUMONIA: 86 deaths, 45 males, 41 females. It stood fourteenth in area of prevalence, as in the same month last year. In the corresponding month last year the deaths numbered 93. In the preceding month 57, and it stood nineteenth in area of prevalence. The male deaths numbered 28, females 29.

TYPHOID FEVER: Total deaths, 132. There were 757 cases reported from 81 counties. In the same month last year, 446 cases in 76 counties, with 118 death. In the preceding month, 464 cases reported in 69 counties, with 106 deaths. The disease prevailed unusually in the following counties: Harrison, 62 cases; Marion, 88; Martin, 28.

DIPHTHERIA: 279 cases from 42 counties, with 24 deaths. In the corresponding month last year, 352 cases in 32 counties with 29 deaths. In the preceding month, 130 cases in 30 counties with 17 deaths.

VIOLENCE: Deaths numbered 179. In the corresponding month last year, 217. In the preceding month, 233. Of the 179 deaths, 5 were murders, 23

suicides and 151 accidents. Of the murders, 4 males were killed by gunshots, 1 female by fracture of skull. Of the suicides, 6 males chose gunshots; hauging, 2 males and 1 females; cutting and stabbing, 3 males; jumping in front of trains, 1 male; carbolic acid poisoning, 4 males and 2 females; other poisons, 2 males and 2 females. Of the accidental deaths, steam railways killed 34, interurbans 1; street cars, 2; automobiles, 1; machinery, 5; crushing injuries, 7; fractures, 10; falls, 17; burns and scalds, 12; drowning, 7; gunshots, 8; horses and vehicles, 14; electricity, 4; ptomain poisoning, 2; and the remainder by various methods.

REPORT OF THE BACTERIOLOGICAL LAB-ORATORY FOR SEPTEMBER, 1909.

J. P. SIMONDS, M. D., SUPT.

Sputum for tubercle bacilli, positive 77, negative 196; blood for Widal reaction, positive 35, negative 234; throat cultures for diphtheria bacilli, positive 49, negative 88, unsatisfactory (no growth), 1; blood for malaria parasites, positive 6, negative 28; pus for gonococci, males positive 10, negative 17; female positive 2; for rabies, dogs' heads, positive 3, negative 5; cow's head, negative 1; pig's head, positive 1; urine 21; blood cultures 7; blood smears other than malaria. 4; blood clot from vomitus, 1; pleural effusion, 1; ice cream, 1; milk, 4; carcinoma, 2; sarcoma, 1; other pathological tissues, 11: feces. 6; scrapings from cow's rectum for tubercle bacilli, positive, I; pseudo parasites (intestinal), from eating banauas, 1; pseudo gall stones, 1; fly larvae in feces from eating raw fruit, 1. Total, 830.

Outfits sent out: Sputum 447, widal 412. diphtheria 308. malaria 135. Total, 1,302.

REPORT OF THE DEPARTMENT OF FOOD AND DRUGS, STATE BOARD OF HEALTH, FOR SEPTEMBER, 1909.

H. E. BARNARD, STATE FOOD AND DRUG COMMSSIONER.

The examination of such seasonable foods as summer drinks and ice cream occupied most of the time of the chemists during the month of September. Of the 16 ice cream samples analyzed, but one was illegal. Of the 151 samples of summer drinks, which included unformented fruit juices, pops, ginger ales and similar preparations made up from syrups and fruit flavors, 36 were illegal, in most instances because of the use of saccharin as a substitute for sugar. A few samples contained benzoate of soda and others were artificially colored or improperly labeled. Two hundred and thirty-two samples of foods were analyzed during the month, of which 184 were legal and 48 illegal, showing a percentage of adulteration of 20 per cent.

MONTHLY REPORT OF ANALYSES OF FOODS AND DRUGS.

The following summary presents the results of the examinations of food made at the Food and Drug Laboratory of the State Board of Health during the mouth of September, 1909.

ARTICLE EXAMINED.	Number Legal.	Number Degal	Total.
FOODS.			
теати	0	1	1
reamthick	Q	1 1	ļ
utter	0 6 3 tā	, ,	2
[i]k	. 3		10
ce Cresum	10	1 1	12
inegar	16	ا مُ	16
leomargarine aking Powder	6	X	16
ard	5	ŏ	
emon Flavor	3	2	5
pple preserves	ĭ	ō f	ĩ
reservative	ī	. 0	1
arfait Powders	ī	Ō	ī
mmer Drinks	115	36	151
der	2	4	6
Total	184	48	232

INSPECTORS' REPORTS FOR THE MONTH OF SEPTEMBER, 1909.

September is the month during which the canning factorles are most actively engaged in the handling of tomatoes, and the inspectors gave much of their time to the study of factory conditions. In addition to this work, which will be recorded in full in the next issue of the Bulletin, 357 inspections of dairies, gro-

ceries, meat markets, slaughter houses and other food producing establishments were made. Of the 74 grocery stores visited, 39 were in good condition and 23 were fair, 7 were classed as poor and 3 as bad, while 2 were in excellent condition. Of the 25 meat markets visited, 14 were in good condition, 9 fair and 2 poor. The condition of hotels and restaurants shows but little improvement over the reports heretofore made. Of the 35 inspections made, ? places were reported as in good condition, 15 were fair, 11 poor and 2 were bad. It is worthy of note that of the 7 poultry houses visited, 1 was in good shape and 6 fair, while none were reported as poor or bad. While men in charge of poultry houses deserve no credit for what they have done in view of the report of fair conditions rather than of excellent or good, yet the fact that no places were found to be in bad or even in poor shape is indicative of a decided improvement in the sanitary surroundings. Twenty-nine drug stores were inspected during the month, of which 20 were in good shape, 6 fair and 3 were poor: Other inspections included visits to flour mills, bottling works, cider and vinegar works and creamerles.

During the month 18 cases were brought against dealers in adulterated goods or against proprietors of unsanitary establishments. In every case the defendant plead guilty or upon trial was found guilty and fined. Five cases involved the sale of ice-cream which contained less than 8 per cent. of butter fat as required for a legal cream. Three convictions followed the sale of summer drinks aweetened with saccharin. Three dealers were fined for selling summer drinks containing benzoate of sods in violation of the law. One dealer paid a fine for selling pop preserved with salicylic acid. The proprietors of three unsanitary restaurants were fined in two instances ten dollars and costs, and in one instance twenty dollars and costs. Two druggists were convicted of selling tincture of iodine below standard. Two milk men were prosecuted for selling skimmed milk.

The fines and costs imposed during the month amounted to \$351.80.

LIST OF PROSECUTIONS BROUGHT UNDER THE NEW FOOD AND DRUG LAW DURING THE MONTH OF SEPTEMBER, 1909.

	Lab.	V	TD. 10-L. 4	Date	Dispositio	on of Case.
COUNTY.	COUNTY. LAG. Name and Address of Defendant. Illegal Sale of	of Trial.	By the Court.	Final.		
Carroll. Carroll. Chinton Clinton Daviess Lawrence Miami. Montgomery Montgomery Montgomery Montgomery Montgomery Sullivan Sullivan Sullivan Tippecance Wabash	15996 15998 16003 16034 14732 15622	Harry L. Sharp, Delphi Delphi Ice Cream Co Fred Waldron, Mulberry Fred Waldron, Mulberry Fred Waldron, Mulberry Arch Yasel, Elnora Dodd & Douthitt, Bedford Sanitary Milk Co., Peru, Ind. C. W. Reeves, Crawfordsville C. J. Reiman Crawfordsville B. F. Conrad, Darlington. Walter M. Chesterson, Darlington E. B. Philips, Speacer Frank J. Roell, Batesville Hicks & Brown, Carlisse. Nathan Cox. Sullivan Stivers & Draper, Sullivan Stivers & Draper, Sullivan Jos. Stewart, Colburn Wun. Newmann, Wabash, Ind.	Orcherade, saccharin Pop, saccharin and benzoate Tr. iodine below standard Tr. iodine below standard Milk, skimmed Ice cream below standard Ice benzoate Pop saccharin Unsanitary restaurant Milk, below standard Pop, benzoate	9-15-09 9-15-09 9-14-09 9-14-09 9-13-09 9-13-09 9-13-09 9-13-09 9-27-09 9-27-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09 9-28-09	Guilty	\$10 and costs, \$10 and costs,

SUMMARY OF INSPECTIONS DURING THE MONTH OF SEPTEMBER, 1909.

Inspections.	No. Inspected.	No. Excellent.	No. Good	No Fair.	No. Paor.	No. Bad.
Duiries Grocery stores Meat markets Drug stores Bakeries and confectioneries Hotels and restaurants Slaughter houses Poultry houses Createries Flour mills Bottling works Ice cream factories Canning factories Canning factories Cider and vanegar works		0 2 0 0 0 0 0 0 0 0	4 39 14 20 6 7 0 1 1 3 1 0 16 0	7239 6 85 153 6 2 2 0 1 16 1	5 7 2 3 6 11 2 0 0 0	1 3 0 0 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0
Total first inspections. Total second inspections. Total third inspections.	25	0 0	112 54 3	99 34 1	36 4 0	10 0 0
Total number inspections made	357	4	169	134	40	10

INSPECTORS' REPORTS FOR THE MONTH OF SEP-TEMBER, 1909.

AMBOY, MIAMI COUNTY-

Two inspections were made. One creamery and 1 canning factory were visited and found in fair shape.

ANGOLA, STEUBEN COUNTY-

Of three dairies visited, I was found good, I fair and I poor. Three grocery stores, 2 meat markets and I drug store were visited and found in good condition. One poultry house was visited and found in fair shape. One slaughter house was visited and found to be in bad condition.

BRIDGEPORT, MARION COUNTY-

One dairy was visited and found in good condition.

CLAY CITY, CLAY COUNTY-

One grocery store was visited and found in good condition.

COAL CITY, OWEN COUNTY-

Eight inspections were made. Of 2 grocery stores visited, I was found good and 1 fair. One meat market was found to be in fair shape. Notice was given to whitewash back room. One drug store was visited and classed as good. Three poultry houses were rated fair. Notice was given to clean up everything at once. One restaurant was found to be in fair shape.

COLUMBIA CITY, WHITLEY COUNTY-

Two dairies, 1 meat market, 1 poultry house and 1 ice-cream factory were visited and found to be in fair shape. One grocery store was visited and found to be in good condition.

ELNORA, DAVIESS COUNTY

Five grocery stores and 1 meat market were visited and found in fair shape. Of 3 drug stores visited, 1 was found good and 2 fair. One restaurant was found fair and 2 poor. One bakery was found fair and 2 poor. One canning factory and 2 flour mills were visited and found in fair shape.

FORT WAYNE, ALLEN COUNTY-

One grocery store and 1 meat market were visited and found in fair shape.

FREEDOM, OWEN COUNTY-

Of 5 grovery stores visited, 1 was found good, 2 fair and 2 poor. Three restaurants and 1 poultry house were visited and found in fair shape.

KENDALLVILLE, NOBLE COUNTY-

Twenty-one inspections were made. Of 9 grocery stores visited, 1 was found fair, 7 good and the grocery store owned by W. A. DeVaults was found to be in excellent condition. Of 4 meat markets visited, 2 were found good and 2 fair. Two drug store and 2 restaurants were visited and found in good condition. One confectionery was visited and rated good and 1 was rated fair. The bakery owned by Fred Hess was found to be in excellent shape.

LAGRANGE, LAGRANGE COUNTY-

Of 8 grocery stores visited, 6 were found good and 2 fair. Two meat markets and 3 drug stores were visited and rated good. Two restaurants were inspected and 1 was found fair and 1 poor. One bakery was found poor and 1 good. The confectionery owned by A. M. Tillman was visited and found in excellent condition.

MARCO, GREENE COUNTY-

Of 6 grocery stores visited, 2 were found fair, 1 poor and 3 bad. Notice was given to clean everything at once. One drug store was found in poor shape. One restaurant was visited and found in fair shape. One hotel was visited and rated poor. One restaurant and 1 confectionery were visited and both were condemned and closed until made sanitary.

MARENGO, CRAWFORD COUNTY---

Of 3 grocery stores visited, 2 were found good and 1 fair. One meat market and 2 confectioneries were visited and found in good condition. One drug store was found good and 1 poor. One hotel was rated good and 1 poor. One restaurant was found fair and 1 poor. One slaughter house and 1 canning factory were visited and found in fair shape. An order was given to repair floors and screen toilets of canning factory.

NEWBERRY, GREENE COUNTY-

Of 8 grocery stores visited, 4 were found good, 3 fair and 1 poor. Three meat markets were visited and 1 was found good, 1 fair and 1 poor, being unclean and unsanitary. One slaughter house was visited and found in poor shape. Two drug stores were rated fair. One restaurant was found poor and 1 fair. One flour and feed mill was found in good condition. One flour mill was found fair.

NORTH MADISON, JEFFERSON COUNTY-

One creamery was visited and found in good condition.

ODON, DAVIESS COUNTY-

Four grocery stores were visited. One was found good, I fair and 1 poor. One drug store was found good and 1 fair. One bakery, 1 cider and vinegar works, and 2 restaurants were visited and found to be in fair shape.

PERU, MIAMI COUNTY-

Two canning factories were visited and found in good condition.

PLAINFIELD, HENDRICKS COUNTY-

Five dairies were visited and 2 were found in good condition, 2 fair and 1 poor. Notice was given to screen milkhouse and clean stable.

PLYMOUTH, MARSHALL COUNTY-

Three dairies were visited and all were found to be in an unsanitary condition. Two were rated poor and I bad. One slaughter house was found to be in a had condition.

PIERCETON, KOSCIUSKO COUNTY-

Four inspections were made, of 1 grocery store, 1 meat market, 1 drug store and 1 canning company, and all were found to be in good condition.

SPENCER, OWEN COUNTY-

One dairy and 1 creamery were visited and found to be in fair shape. Of 7 grocery stores visited, 3 were found good, 2 fair and 2 poor. One meat market was found good and 1 poor. One restaurant was found good, 2 restaurants fair and 3 restaurants poor. Notice was given to clean up at once. Two confectioneries and 1 bakery were visited and found in fair shape. One bakery was found in poor condition and 1 bad, being unclean and unsanitary. One flour mill, 1 poultry house and 2 drug stores were visited and found in good condition. The Spencer Mercantile Company was visited and found to be in excellent condition.

SULLIVAN, SULLIVAN COUNTY-

One grocery store and 1 meat market were visited and found to be in fair shape. The grocery store owned by H. D. Dutton was visited and found to be in excellent condition. Two drug stores were visited and 1 was found in fair shape and 1 poor. Notice was given to clean up fountain and stop spitting on floors. Four restaurants were visited. One restaurant was found good and I fair. One restaurant was found poor and I bad. One confectionery was visited and rated poor, being unclean and unsanitary.

VEEDERSBURG, FOUNTAIN COUNTY-

One dairy was visited and found in fair shape. One slaughter house was visited and rated poor. Notice was given to clean up, whitewash and screen at once.

WABASH, WABASH COUNTY-

Eleven inspections were made. Two grocery stores, 3 drug stores, 1 hotel, 2 confectioneries and 2 canning factories were visited and found to be in good condition. One bottling works was visited and found to be in fair shape.

WALKERTON, ST. JOSEPH COUNTY-

Twelve inspections were made. One dairy was visited and found to be in poor shape, being unclean and unsanitary. One grocery store and 2 meat markets were inspected and found to be in good condition. Two drug stores were found good and 1 fair. One restaurant was found good and 1 fair. One bakery, 1 confectionery and 1 canning factory were inspected and found in fair shape.

WHITING, LAKE COUNTY-

Of 4 grocery stores visited, 3 were found good and 1 fair. Two meat markets were found good and I fair. One drug store was found good. One bakery was found to be in poor shape, the bakeshop being unclean, and the goods were not properly handled.

WORTHINGTON, GREENE COUNTY-

Two slaughter houses were visited and found to be in fair shape.

WHAT SANITARY INSPECTION MAY ACCOMPLISH.

A noticeable fact in the sanitary inspection of food producing establishments is the increased percentage of places classed as good, and the leasened number of places graded as poor and bad on second and third inspections, making it apparent that the visit of food inspectors is followed by decidedly improved conditions. The grocer who is advised in a friendly way to clean up his bakeshop, wash his windows, remove spittoons and dust his stock in trade, if he is an intelligent man, is quick to see the advantage to his business of following the suggestions of the inspector. The butcher, when the dampness, mould and bad odor of his refrigerator is pointed out to him, usually wonders why he did not notice the unsanitary condition himself, and after the visit made by the inspector introduces into his business more careful attention to the details which produce cleanliness.

In order to determine how much improvement in sanitary conditions follows the visit of the inspector, four of the regular inspectors were instructed to visit for three consecutive months twenty-five business houses, including meat markets, grocery stores, hotels and restaurants, drug stores and such other food producing establishments as they might see fit to inspect. The results of each inspection have been tabulated in terms of percentage based upon the score of 100 as being the highest score possible of attainment. The inspectors followed their usual method of reporting sanitary conditions as excellent, good, fair, poor and bad, and the percentages have been calculated from these reports. The improvement in conditions is shown by the results of the second and third inspections, which are in most instances very marked.

Inspector Bruner visited 18 meat markets, which on first inspection showed a score of 59.7 and on the third scored 81.1. Inspector Owens scored 5 meat markets 58 on first inspection, 76 on second inspection and 82 on third inspection. Inspector Tucker, who visited 15 meat markets, noted an improvement of 10 points. Inspector Cohn, who visited 10 hotels and restaurants, noted an improvement of 14 points. Inspector Tucker showed an improvement of 22 points. A study of the table given below shows plainly that the inspection work is of great value and that the results obtained are permanent in character. No grocer or butcher who, perhaps against his will, cleans his shop thoroughly to conform to the sanitary food law will, if he is a competent business man, allow slipshod methods and uncleanliness again to be a rule in his store.

RESULTS OF INSPECTORS' WORK.
(Improvement Noted in Percentages.)

Inspector.	Meat Markets.			Grocery Stores.				
	<u></u>		aspection			Inspections.		
	Χσ.	First.	Second.	Third.	No.	First.	Second.	Third.
Bruner. Owens. Cohn. Tucker.	18 5 4 15	59.7 58.0 75.0 70.3	77.8 76.0 80.0 76.7	81.1 82.0 76.5 80.1	4 2 4	76.2 40.0 72.5 67.5	82.5 55.0 80.0 72.5	82.5 65.0 85.0 80.0

inspector.	Hotels and Restaurants.				Drug Stores.				
		Inspections.				laspections.			
	No.	First.	Second.	Third.	No.	First.	Second.	Third.	
Bruner Owens Cobn. Tucker	1 11 10 3	40.0 57.7 66.0 60.0	60.0 59.5 76.0 66.7	60.0 63.2 80.0 81.7	3 6 3	76.7 75.8 68.3	88.8 79.1 73.3	91.7 84.2 76.7	

	Miscellaneous.					
INSPECTOR		Inspections.				
	No.	First.	Second.	Third.		
Bruner	2 4 1	72.5 40.0 60.0	85.0 56.2 85.0	85.0 67.2 85.0		

REPORT OF THE DEPARTMENT OF FOOD AND DRUGS, STATE BOARD OF HEALTH, FROM MARCH, 1909, TO OCTOBER 1, 1909.

H. E. BARNARD, CHEMIST, STATE FOOD AND DRUG COMMISSIONER.

While the results of the work of the laboratories have been published each month, the analytical data obtained in the examination of different brands of food and drug products has not been given. In order that the trade and the consumer may know which

brands of food and drugs have been found to be illegal, as well as those which are of standard quality and that the data obtained in the analysis may be preserved, the tables are here printed in full.

During the seven months, 1,423 samples of food have been analyzed: 979 samples were found to be of standard quality and properly labeled, while 444, or 30.5 per cent., were adulterated or misbranded. Since the work was carried on for the most part during the summer months, the samples were largely of those products most commonly consumed during hot weather, such as ice cream, beverages and milk. Most of the samples analyzed were submitted by inspectors of the department, who purchased them from dealers. Many milk samples were sent to the laboratories by milk inspectors of cities having no facilities for determining the character of the samples. Because of the recent active enforcement of the internal revenue laws which regulate the sale of adulterated butter. many samples of butter were submitted by farmers and butter-makers who wished to determine whether or not their product contained more than the legal amount of water.

A large number of samples of prepared meats sold as sausage under various names were examined for starch and preservatives, and the percentage of adulteration of these goods was found to be very high.

A study of the analytical tables is very interesting, in that the changed condition of the food market is plainly shown by the fact that such standard products as extracts, canned goods, baking powders, preserves, confectionery and olive oil are no longer subject to adulteration, while before the passage of the pure food law all of these products were constantly grossly adulterated.

At the present time the artifice of the imitator and sophisticator seem to be confined largely to such foods as milk, butter, prepared meats, beverages, vinegars, etc., products not commonly made in large quantities and sold through the jobber, but, on the contrary, prepared by the retailer himself. This is true of milks, butter, sausages, ice creams and lard, work of inspection of food products is thus being more and more confined to a critical study of the products of the small dealer, who does business in a local way only. The manufacturer engaged in interstate trade has been, both by the laws and federal food regulations, brought to see the advantages of producing pure goods, but the milk man who skims or waters his milk, the butcher who sells a mixture of starch and water and meat as sausage, the fish dealer who waters his oysters, the ice cream maker who cuts down the cost of his product by substituting skimmed milk for cream, seems, as yet, to be unhampered by business ethics or controlled by food legislation.

FOODS.

MILK.

Sixty-five of the 395 milk samples analyzed were adulterated either by the removal of butter fat, by the addition of water or by the presence of extraneous material, usually dirt or manure. The presence of dirt to such an extent that it may be detected by looking through the bottom of the milk bottle is sufficient reason for classing the milk as adulterated and for prosecuting the dealer for violation of the pure food law.

MILKS-ILLEGAL

Lab. Xu.	Manufacturer or Retailer.	Where Collected.	Per Cent Fat	Remarks.
···	Wm. Mayer Brookmeyer & Son	Indianapolis	2.9	Skimmed.
1525 .	Brookmeyer & Son	Goshen	2.9	Skimmed.
2777	Laren P. Moore	Kokomo	4.8	Very dirty.
2779	Brookmeyer & Son Laren P. Moore. Cyrus Carter. James A. Newton. Wm. B. Parsons Geo. Steinler J. C. Steinler Mrs. Dodge.	Aokomo.	4.0	Very dirty.
2780	James A. Newton	Kokomo	1.1	Sand present.
2776	Car Stalebas	Lefterson ille	2.9	Sand and dust present. 20% added water.
3359 3390	L C. Steiner	Jefferson ville	2.5	23% added water.
3617	Use Dodge	Indiananolis	2.0	Cream poured off.
3689	Mika Spoemer	Hammond	4.3	Very dirty.
3690	Mike Spoemer	Mammond	3.4	Very dirty.
3694	Mike Spoerner Mike Spoerner Geo. Andres L. Elster	Hammond	3.5	Very difty.
3695	L. Elster.	Hanunond	3.4	Very dirty.
3698	E. Fruehling A. Schneider	Hammond	3.1.	Below standard.
3709	A. Schneider	Gary	3.2	Below standard
3711	Theo, Heiney. Rand Bros. Ira Hose Desna Kerhoert	Toleston.	3.0	10% added water.
4557	Rand Bros	Indianapolis	3.4	Dirty.
4597	Ira Hose	Mishawaka	3.4	Dirty.
4591	Desun Kerhoert	Mishawaka	3.4	5% added water.
4592	John Huenuner Harry McGrain	Mishawaka	3.3 2.7 2.6	Very dirty.
4621	E. E. McFerran	Corydon	2.1	Skimmed. Skimmed.
4684	L. E. McPertan	Bloomington	2.2	Skimmed.
4687 4689	A. C. Coyle	Bloomington		Skimmed.
4696	W D Walls	Bloomington	0.7	Skimmed.
4784	Henry & Kerr M. D. Wells Jao. E. Worrell	Jeffersonville	3.0	10% added water.
4786	Herman Becker	Jeffersonville	3.1	Skimmed.
4790	Chris. Meyer	Jeffersonville	3.8	Dirty.
4702	Chris, Meyer	Jeffersonville	3.0	Skimmed.
4793	Wm. H. Dames Fred. W. Trowman W. E. Rentschler	Jeffersonville	3.8	Dirty.
4926	Fred. W. Trowman	South Bend	2.5	Skimmed.
4930	W. E. Rentschler	South Bend	2.4	Skimmed.
5054	Louis Carthaners	Indianapolis	3.0	Below standard.
5094	John H. Hite	Loganaport	3.0	Below standard.:
5097	John H. Hile Harry Nicodemus W. R. Cogley Hedrick & Mackenhosk	Logansport	3.0 3.1	Below standard. Below standard.
5098	W. R. Cogley	Logansport	3.0	Watered 10%.
5125 5126	Ambrose Andrews	Indianapolis	3.0	8kimmed.
3129	George Smith	Indianapolis Indianapolis	3.2	Watered.
5130	Henry Ambalters	Indianapolis	2.9	Skimmed.
5131	Bert, N. Hav	Indianapolis	3.0	Skimmed.
5132	Hammond & Pasquire	Indianapolis	2.4	Skimmed.
5129	J. C. Madden	Mishawaka	3.1	Skimmed.
5154	Nota Sutton	French Lick	3.0	Skimmed.
5155	Willard Campbell	French Lick	3.1	Skimmed.
5200	George Smith Henry Arnholters Bert, N. Hay Hammoud & Pasquire J. C. Madden Nora Sutton Willard Campbell F. H. Turner Willard Campbell Frank J. Roell Luughlin & Coffey Chas. Prange	Paoli	2.6	Below standard.
5203	Willard Campbell	French Lick	2.6	Below standard
5212	Frank J. Roell	Batesville	3.0	15% water.
5318	Laughlin & Coffey	Bloomfield Pt. Wayne Pt. Wayne Ft. Wayne Pt. Wayne Muncie Muncie Muncie Brownsburg Kokomo.	2.4 2.6	Skimmed. Skimmed.
5333	Chas Prange G. Stimmel Pointsett & Trick P. E. Jones	Ft. Wayne	3.0	Skimmed.
5336 5338	Deinterste & Trick	Fr. Wayne	3.0	Below standard.
545L	DE Innes	Peru	3.1	Skimmed.
5453	Max Breult	Peru	3.1	Skimmed.
5539	C. M. Austin	Muncie	3.8	Dirty.
5543	S. Draton	Muncie.	4.5	Very dirty.
5544	A. D. King	Muncie	5.2	Very dirty.
5553	A C. Astron (gent in)	Brownshurg	2.8	Below standard.
5589	Paul Deardroff	Kokomo		Very dirty.
5639	Steve Senchack	Whiting	3.0	Very dirty.
5642	C. Stewart Sanitary Milk Co Sanitary Milk Co	Whiting	3.1	14% added water.
5236	Sanitary Milk Co	Peru	. 26	Skimmed.
6073	Sanitary Milk Co	reru	2.5	20% added water.
4816	F. L. Kreutz	Mishawaka	2.6	Skimmed.
1764	John S. Payne	VEAL VIORUE ***	2.0	8% added water.

CREAM.

Standard cream must contain 18 per cent, butter fat. Of the 38 samples analyzed, 12, or 31.5, were below standard and illegal. No adulterant, such as gelatine or viscogen, was detected.

CREAM-ILLEGAL

Lab Na	Manufacturer or Retailer.	Where Collected.	Per Cent Fat.	
13733 14016 14771 15119 15365 15365 15534 15637 15643 15744 16072	L. D. Fines Fred Glass John A. Weaver J. L. Miller Mimor Conner George Cain Petig & Berryhill James McNamara C. Stewart H. O. Goodlander Sanitary Milk Co	Madison. New Albany Bedford. Connersville Connersville Lebason. Whiting. Wabash	14.2 18.8 14.0 15.0 14.0 14.1 12.0 15.6	Dirty. Below standard.

MILK PRODUCTS.

CONDENSED MILK.

Of the 13 samples of condensed milk analyzed, 6 were legal and 7 were illegal, being low in butter fat and solid content. The character of condensed milk has not improved during the last year. If the manufacturer and the jobbers are to be believed, the public taste has so changed that it demands a milk both fluid and free from any fat separation to such a point that because of low solid and fat content the milk is very inferior in food value to the product formerly manufactured.

BUTTER.

Seventy-four samples of butter were analyzed during the period. Fifty-nine of these samples were pure and 15, or 20.2 per cent., were illegal either because of the presence of an excessive amount of water or the admixture or substitution of oleomargarine. The moisture content of legal butter must not exceed 16 per cent. Under the internal revenue laws butter containing more than 16 per cent, of moisture is classed as adulterated butter, and can only be manufactured when the purchaser holds a government license and pays a tax upon his product. The small butter maker who keeps four or five cows, who has no ice and who frequently does not know how to make good butter, very commonly during hot weather produces a butter which is illegal because it contains too much water. This adulteration is no doubt unintentional, but it is none the less illegal, first because the consumer pays for water instead of butter, and second because this low grade article is an unfair competitor of standard butters.

BUTTER-LEGAL.

Lab. No.	Retailer.	Collected.	Butyre, @40°C.	Reichert- Meisal Number.	Moisture.
13523	A. Sagemeir.	Indianapolis	42.7	28.70	11.16
13524	Mrs. H. Freiberg	India na polis	42.2	28,70	12.29
13571	C. E. Grosham Bishop Grocery Co	Knox	42.2	23.74	13.37
13577 13578	Biahop Grocery Co	Buchanan, Mich.	42.0	28.14	12.50
13659	W. J. Withelm	Knox		25.40	12.00
13670	W. H. Hart Guy Hardenbrook	Albion	41.8 43.2	26.56	11.16
13703	Geo. P. Bettz	Albion	41.1	29.78	9.84
13812	Treiferger Gro. Co.	Ft. Wayne	42.7	27.98 29.41	
13813	Brinkroegers	Ft. Wavne	41.5	28.44	9.83 13.32
13814	Coverdale & Archer	Ft. Wavne	42.2	28.54 28.20	14.51
13815	James H. Eaken	Ft. Wayne	42.5	28.50	13.68
13816	Gets, Sharp & Orr	Ft. Wayne	42.3	28.21	12.55
13817 13818	Mensch	Ft. Wayne	41.1	33.21	9.12
13819	Joseph Odden	Ft. Wayne Ft. Wayne	41.7	26.87	13.48
13820	J. J. Reed	Ft. Wayne	43.5 42.2	29.25 20.03	15.25
13821	Current Grocery	Ft. Wayne	41.4	25.03	15.56 12.98
13822	Wm. Doehrmann	Ft. Wayne	49.3	23.98	11.16
13823	Lennest Gebier	Ft. Wavne	42.8	29.91	8.91
13824	Hegerfeldt	Ft. Wayne	42.2	24.45	9.42
13825	G. E. Spiegle	Ft. Wayne	41.1	30.95	9.48
13826 13827	August Korn John Schmidt	Ft. Wayne Ft. Wayne	42.9	22.22	14.46
13828	C. H. Buck	I' Wayne	43.1 42.8	28.80	12.68
13829	G. Hitzemann	Ft. Wayne Ft. Wayne	42.4	29.28	13.12
13963	E. S. Nauce	Brazil	41.0	27.90 28.90	10.89
14031	Shore & Wilson	Rochaster	49 0	25.61	9.44
14032	L. P. Conner	Rochester	42.0	28.50	11.52
14039	J. T. Liston Dr. F. M. Payne H. O. Bruggeman	Rochester	1 43 1	28.50	12.93
14525 14616	Ur. F. M. Payne	Princeton	42.0	28.83	1
14832	Groff Broa	Pt. Wayne Mishawaka	42.3	24.48	l .
14833	Groff Bros		43,4 40.8	32.60	1
14839	Cotton & The Bearing	M-1	43.3	23.07 26.98	1
14840	1 Littlet & Thelliemer	1 Michaela	70.0	24.93	l .
15023				25.07	i
15113	John T. Willett. Fred Necoman Bartlett Tes Co.	South Bend	44.4	23.75	!
15181 15352	Rowlett Ten Co	Inda an pola	42.8		.1
15394	John T. Willetts	Court Day	43.2 42.3	26.9€	1
15658	Internal Revenue Bureau.	Todisposolie	44.5		-1
15659		: I i'vi samannilia	49.7	*********	·i
15660	Internal Revenue Bureau	Indisnancije	1 44 3		·i
15661	Incernal revenue burean				
15796	F. H. Elliott	Carmel			
15799 15799	Mrs. John M. Foltz. Mrs. John M. Foltz.	Ben Davis			14.70
15800	Conne Haff	D Th			11.40
15801	Lady Scott.				
15802	S. W McThrain	Whitestown. Whitestown.	···· ··· • •	;	12.08
15903	S. W. McChrain. Mary E. Ross. E. Newby. Chartes Rine. J. C. Shelburn. W. H. King. L. O. Shank. S. A. Flummer.	Plainfield	1		15.66 14.40
15809	E Newby	Westfield	1		14.10
15811	Charles Rime	Indianapolis		*********	9.40
15857	J. C. Shelburn	Zionsville		****	13.20
16043 16051	I. O Shank	Word Variation			14.90
16106	I S. A. Francisco	West Newton			9.81
******		2 77 C20 DEWEND			9.69

BUTTER-ILLEGAL.

ICE CREAMS-LEGAL-Continued.

Lab. Nu	Retailer.	Collected.	Hutty ro	Reichert- Meisel Number.	Moistare	Remarks.
13675	Delicatessen Co	Elkhart	49.9	4.22	,	Oleo.
13708	Dr. C. C. Melatosh	Terre Haute	44.3		<mark> </mark>	Mixed.
14815	Mr. White	Attorney Gen.'s				
	i	Office				Oleo,
15662	Henry Levy	State House	43.0			Adulterated.
16914	8. A. Plumieer	West Newton	,			
14911	Internal Revenue Bureau.	Indianapolis	50.3		, .	Oleo.
14912	Internal Revenue Bureau	Indianapolis	50.3			Oleo.
14913	Internal Revenue Bureau.	Indianapolis				Oleo
14914	Internal Revenue Bureau.		49.0]	Oleo.
14915	Internal Revenue Bureau,	Indianapolis	48.5			Oleo.
14916	Internal Revenue Bureau.		48 3	4		Oleo.
14917	Internal Revenue Bureau.	Indianapolis	50.2			Oleo.
14918	Internal Revenue Bureau.	Indiana polis	48.3			Oleo.
14919	Internal Revenue Bureau.	Indiana olis	50.0			Oleo.
15930	Internal Revenue Bureau.		48.5			Oleo.

ICE-CREAM.

Of the 181 samples of ice-cream analyzed, 111 were pure and 70, or 38.6 per cent., were Hiegal. The adulteration commonly noted consisted of an insufficient amount of butter fat. The standard for ice-cream requires 8 per cent. of butter fat to be present. Many manufacturers apparently are not satisfied to conform to this standard, and substitute in their formulas condensed, skimmed or whole milks in such quantities that the finished product contains from 2 to 4 per cent, less butter fat than should be present.

ICE CREAMS-LEGAL.

Lab. No.	Manufacturer or Retailer.	Where Collected.	Per Cent Fat
		Princeton	13.6
13904 13909	E. H. Hallett	Princeton	8 ሰ
14014	Frank Senaiter	Martison	18.4
14624	Hassel & Son Frank Sensiter H. H. Rosenberger	Cory don	15.2
14626	H. H. Rosenberger Geo. Feller Furnas Ice Cream Co. Coppes Pharmacy.	Corydon	13.6 9.6
14649 14711	Coppes Pharmacy.	Vappanee	8.8
14766	Steele & Shaw	New Albany	8.0
14772	George Goodhub John Haffen	New Albany New Albany	13.2 10.4
14773	John Haffen	Mishawaka	10.8
14827 14832	Klein Candy Co. C. H. Jones	Washington.	11.2 9.2
14855	Sum Bros. W. B. Hollingsworth.	Washington	9.2
14929	W. B. Hollingsworth	South Bend	12.0 8.2
14939	N. B. Collingsworth. F. F. Tewsburg. E. Politar. John R. Nobile. New York Candy Kitchen.	South Bend	8.0
14941 14942	John R. Nobile	South Bend	11.4
14943	New York Candy Kitchen	South Bend	11.4
14944		South Bend	12.0 14.0
15019 15020	Philadelphia Philadelphia	South Bend	13.0
15117	J. D. Sears	Redford	10.6
15134	I. D. Sears Jao. J. Mitchell	RedfordBedford	
15135	Owl Drug Store	Paoli	8.0
13 156 15 157	Lindley Bros	French Lick	8.0
15158	Hillside Dury		
15161	W. W. Slown. John W. Whittier (sent in).	French Lick South Bend	10.0
1,5166	John W. Whittier (sent in)	South Bend	8.8 9.2
15167 15168 .	Wardi & Co. (sent in)	South Rend	15.2
15169	North Wards (sent in). Wards & Co. (sent in). New York Candy Co. (Sent in).	South Bend	12.0 12.0
15169	John Wobile (sent in) Dreyer Candy Shop (sent in)	G D 1	100
$\frac{15171}{15172}$	Mrs. I. Brooks (sent in)	South Bend	15 2 9 2
15173	Mrs. L. Brooks (sent in). Mrs. J. L. Turner (sent in).	South Bend	1 8.0
15197	Uses Dittor	West Baden Batesville	8.0 12.2
15217	Ed. Blank Cushwa Bros	Frankfort	10.0
15247 15248	Dishard Green		
15249	D D Dorroll	Lebanon Lebanon Indianapolis	8.0 8.0
15250	Furnas Ice Cream Co Wimborough & Ackerman	Indianapolis	9.2
15251 15252	A. B. Jones	Lebanon	10.0
13253	Datie & Normbill	Lebanon	12.4
15254	Lebanon Cream Co.	Lebanon	
15306	J. F. Donwer & Son Jessup & Antrim	Emora	8.6
15308 15311	F C Wilkinson	Worthington	8.2
15314	Brois & Osborn. Fe. Wayne Dairy Co.	Worthiagton	9.0
15339	Ft. Wayne Dairy Co	Ft. Wayne	8.6
15340	Geo. T. Pantazin Collins & Co	Huntington	10.0
15341 15343	t C tumpers	Ft. Wayne Ft. Wayne	13.2
15346	i W S Ciller	Ft. Wayne	10.0
1.5388	H. L. Frost Vincennes Cond. Milk Greek Candy Kitchen	Vincennes	8.4
15425 15430	Greek Candy Kitchen	Vincennes	: 12.0
15431	Blanka Rese	Vincennes	
15432	Cossol & Son	Vincennes Clay City	10.5
15463 15488	V. Jensey J. S. Harris	Spencer	. 8.0
15467	B. C. Larimore.	Spences	9.2

ab. No,	Manufacturer or Retailer.	Where Collected.	Per Cent Fat.
495	John W. Stairwolt.	Worthington.	9.
496	Davis & Osboro	Тетте Haute	9
497	E. C. Wilkins	Worthington	₿.
531	Benks & Roth	Worldington	È.
61â	R. Nutini	Whiting	8.
646	Whiting Candy Kitchen	Whiting	8.
617	Worchulls (Manu acturer)	Hammond	8.
648	R. Nutini	Whiting	10.
698	Geo. Chopera	Anderson	8.
1699 1708	Geo. H. Ring	Anderson	8.
1708	M. Zimuerman		8
713	Collins Ice Cream Co	Ft. Wayne	13
714	W. F. Geller	Ft. Wayne	9
715	C. O. Lepper J. C. Aurent	Ft. Wayne	1.0
737	James Dickman	Ft. Wayne	15 15
738	Chas. Bueller	Peru	10
740	R. E. Clark	Wabash	10
741	Bradley Bros	Wabesh.	á
746	Gaylord & Barrobauer	Wabash	16
847	Wm. Newman	Wabash	ii
948	Wm. F. Verfus	Williamsport	l ŝ
940	Pitcher Bros	Williamsport	10
388	Corporen & Jouquette	Mishawaka	ìĭ
869	Falrie & Rosie	Mishawaka	13
971	S. H. Wallace	Veedersburg	8
974	I. F. Sullivan	Veedersburg	10
985	[J. F. Kellner]	Covington	10
397	J. A. Teevebaugh	Crawfordsville	8
888	J. C. Wampler	Crawfordsville	10
040	Crane Brothers.	Frankfort	8
341	Ben Honecker	Darlington	, 9
042	Mrs. B. F. Thurston	Darlington	14
074	Wm. Newman	Wabash	8.
075 077	Gaylord & Barmbauer	Wabesh	I TĞ
078 078	R. E. Clark Geo. Dernos	Wabash	8
281	Thomas Beal	Wabash	17
084	Anna Overhulser	Ft. Wayne	J6
085	Walker & Murray	Pt. Wayne	8
086	Ft. Wayne Dairy Co.	Ft. Wayne	8
087	C. E. Woodworth	Ft. Wayne	9
188	Ft. Wayne Dairy Co.	Ft. Wayne	17
089	A. C. Aurents	Ft. Wayne	14
091	W. F. Galler	Ft. Wayne	iõ
584	Sanitary Ice Cream Co	Kokomo	lii

ICE CREAM-ILLEGAL.

Lah. No.	Manufacturer or Retailer.	Where Collected.	Per Cent. Fat.	Remarks.
E1936	W. F. Crook	Warthington	į	Below standard.
Ĕ1748	Laughlin & Coffee	Worthington		Below standard
11736	Pearl Ice Cream Co	Terre Haute		Below standard.
14688	Geo. Poulisten	Bloomington		Below standard.
14729	Wm. A. Garrison	Bedford		Below standard.
14731	J. L. Miller	Bedford		Below standard.
14743	O. P. Mathew	Mitchell	5.0	Relow standard.
14328	Ferreter & Co	Mishawaka	5.0	Below standard.
14829	Corporan & Janquet	Mishawaka		Below standard.
14855	Smoot Bros	Washington		Below standard
15024	H. H. Warner	Linton		Below standard.
15088	J. E. Allen		6.4	Below etandard.
15088	A. Wood	Mitchell	4.4	Below standard.
1.5089	J. D. Seara.	Bedford	6.4	Below etandard.
15164	J. L. Miller	Bedford		Below standard.
15165	W. B. Hollingsworth			Pelow standard.
15202	Geo. B. Lee.			Below standard
15216	Jacob Engle			Relow Mandard.
15215	Frank W. Gebring	Batewille		Below standard.
15305	A. Effinger	Pinora	4.2	Pelow standard.
15307	W. F. Crook Buiks & Roth	Nortaington	6.0	Below standard,
15310 15319	Durks & noth	Workington	7.4	Below standard.
15339	LAURDIN & CARLES	Bloom fold	7.0	Below standard.
15342	titula Paris Harris	Ge Wasses	7.6	Below standard. Below standard.
15428	Laughlin & Coffee H. V. Stroges White Fruit House Mary Dijestirbey	Kung	6.1	Below standard.
15429	Rumer & Son	Vincennas	6.7	Below standard.
15457	Exmeyer Ice Cream	Port	4.8	Below standard.
13458	Howard & Son			Below standard.
15454	John C. Dudley			Below standard
15468	Jas. R. Layman	Spencer		Below standard
15494	W. F. Crook	Worthington.	5.6	Below standard
15526	Ellis G. Rooper	Bicknell 1	7.6	Below standard
15529	Hollingsworth & Howard	Bicknell	6.8	Below standard
15530	R. N. File			Below standard
15545	Nick Harman		7.2	Below standard.
15559	Plappins Plarmacy	locianapolis	6.4	Relow standard
15561	Cudworth Consectionery			Relow standard.
15562	Merrill's Pharmacy			Below standard.
1 563	Codworth's Confectionery	Indianapolis	5.4	Below standard.
15565	Jerup & Antrim	Indianapolis	7.2	Below standard.
13572	A. E. Deardorff O. C. & W. E. Wariek	Kokomo	6.0	Below standard
15 59 7	O. C. & W. E. Warick.	Danville	5.8	Below standard
15598	O. C. & W. E. Warick J. C. Kreusch	Danville	6.0	Relo standard
15632	J. C. Brensch	ANDETSUII	6.4	Below standard.
15634	J. C. Krensch	Anderson	4.2	Below standard
15663	Kreusel Ice Cream Co	Anderson	7.9	Below standard.

ICE CREAM-ILLEGAL-Continued.

fails Manufacturer or Retailer.	Where Collected.	Per Cent Fat	Remarks
15752 Harry L. Sharp	Anderson. Anderson. Anderson Anderson Anderson Ft. Wayne Ft. Wayne Wabash Wabash Delphi Delphi Culver Danville Vecdersburg Vedecshurg Crawfordsville Crawfordsville Ft. Wayne Ft. Wayne Ft. Wayne Ft. Wayne Ft. Wayne	7.4 7.0 6.6 4.8 4.2 6.8 7.0 6.8	Below standard.

MEAT PRODUCTS.

of the 212 samples of meat analyzed during the past seven months, 63 were legal and 149, or 70.2 per cent, were itlegal. The most common additeration noted was starch, which was employed in greater or less quantities by sausage manufacturers. The practice of adding starch to cheap meats has grown to large proportions within the last few years. The explanation given for its use is that sausage containing it can be stuffed into skins more readily and that the sausage cooks better and is more palarable. Another reason no doubt for its use, and one which explains the practice, is that by employing it considerable quantities of water may be incorporated with the meat, thus producing a sausage at a decidedly lower cost than if it were made from meat and spices alone! There can be no valid objection to the addition of flour to the sausage if the purchaser is advised of the fact that he is getting a cereal product, and the sale of sausage labeled "Sausage with cereal added" is in conformity with the law.

BOLOGNA-ILLEGAL

lab. No.	Manufacturer or Retailer.	Where Collected.	Remarks.
13838 -	Court House Grocery John F Concannon Louis Yorger H Merklin L P Conner	Indianapolis	Starch present.
13848 -		Indianapolis	Starch present.

HAMBURGER-LEGAL

Lab. No	Manufacturer or Retailer.	Where Collected
3831	Frank Schissler	Indiatra polis.
S17	E. Reynolds	Indianapolis.
3853	H. I. Dorman	Indianapolæ.
3853	Frank A. Uhl.	Indiana polis.
3335	C. Cook	Indianapolis.
357	Frank Overman	Indianapoles.
3888	Homee Boston	Indiana polis.
872	J. Schish.	
37.3	Walter Williams	Indianapolis.
900	H. C. Redman	Indiana polis.
923	Watter Williams	Indiana polis.
972	H. C. Redman Watter Williams Frank W. Hebble	lodianapolis.
977	Jacob Schrull.	Princeton.
050	Wm. Kuba	
053	G. C. Austgen	
053	Fred Kunzman	
064	Louis Nelp	
053	McCaffrey & Co.	
093	I_ P. Conner.	Rochester.
517	H. J. Rayburn	Converse
563	Buchler Bros	
569	G. E. Barnett.	
572	J. Collard	
330	H. L. Kirkwood	Wigha ea be
554 ·	Fred Stoeckinger	
686 ·	Ben S. Rodgers	

HAMBURGER-ILLEGAL.

Lab. No	Manufacturer or Retailer.	Where Collected.	Remarks.
13928 14033 14058 14060 14566 14573 14578 14582 1373C	L. P. Conner. L. P. Conner. J. L. Humpfer Co. Chas. Berendt. Rohrer. J. P. Rosplachaski, F. A. Weber Peter Brunget Louis Jung	Rochester Hammond Hammond South Bend South Bend Mishawaka Mishawaka	Sulphites present. Sulphites present. Sulphites present. Sulphites present. Sulphurous acid present. Sulphurous acid present. Sulphurous acid present. Sulphurous acid present.

SAUSAGE-LEGAL

ab. No	Manufacturer or Retailer.	Where Collected
776	Hoffer's Meat Market	Muncie.
842	Pat. Martin	
843	Brown Bros.	
851	Louis Yorger	
854	R. L. Donnan	Indianapolis.
865	C. Cook	Indiana polis.
869	Horace Boston	Indiana polis.
870	H. Volkroth	Indianapolis.
871	A. Gibson	Indianapolis.
389	H. C. Redman	
133	Hilgenmeier & Bros	
140	Chas. Basier	
i¥i	Chas Gardner	
69	Carbill Bros	
97Ď	A. W. Berryhill	Indianapolis.
71	Frank Herbie	Indiana polis,
76	Jacob Schrull.	Princeton.
51	Wm. Kuhn	Hammond.
155	Noach & Du Combe	
161	Chas. Berendt	Hammond.
70 I		
100 168		
70 070	J. Eigelsback	
	T. B. Ham.	
182	O. J. Tillett.	
185	Louis Nelp	
)87	J. W. Miller	Peru.
089	McCaffrey & Co	
518	H. J. Rayburn.	Converse.

SAUSAGE-ILLEGAL

Manufacturer or Retailer.	Where Collected.	Remarks.
Frank Schissler	Ledianapolis	Starch present.
Herman Merklin	Indiam polis	
Herman Merkijn	Indiamapolis	Starch present.
Johnson Grocery Co	Indiagapolis	Starch present.
F. Schusseler.	Indianarolis	
Louis Jung.	Indianapolis	Starch present.
A. Moldthan	Indiapapelis	
F. Hilgeweier	Indianapelis	
F. Hilgemeier	Indiapapolis	
C. W. Covey	Princeton	Starch present.
F. W. Bowman.	Indiamagolis	
C. W. Covey.	Princeton	Starch present.
I. P. Conner		Starch present.
J. L. Humoler Co	Hammond	Sulphites preser
Roth Bros.	Renaselaer	Starch present.
C. W. Yoder	Rochester	Starch present.
C. F. Taylor	Rochester	Starch present.
L. P. Conner	Rochester	Starch present.
G. E. Barnett	South Bend	Sulphites presen
James Collard	South Bend	
C. O. McCarty	South Bend	
C. O. McCarty	South Bend	Starch present.
Buchler Bros	South Bend	Starch present
Peter Brunget	Mishawaku	Sulphites presen
Fred Stoeckinger	Mishawaka	Starch present.
Geo. E. Brown	Corydon	Starch present.
B. S. Rodgers	Bloomington	
John Pessiev	Bedford	
C. G. Stimpo.	Washington.	Starch present.
Henry Stimpp	Washington	Starch present.

LIVERWURST-LEGAL

Lah. No.	Manufacturer or Retailer.	Where Collected.	Remarks.
13830	Frank Schissler. Jao. F. Concangon Fred Kunsman.	Indiampolis	Pure,
13841		Indiampolis	Pure.
14064		Hammond	Pure.

LIVERWURST-ILLEGAL

13857	F. Hillermeier	Starch present.
13834	Bills & Boettcher.	Starch present.

WEINERWURST-LEGAL

Manufacturer or Retailer.	Where Colls	ected.	Rem	arks.							
Jno. F. Concannon E. Reynolds Wm. Kuhn	Indianapolis Indianapolis Hammond		Pure. Pure.				LARDIL	LEGAL.		· ·	—. 2000 voque (1900——
J. Eigelaback	Rensselaer		Pure.		Lab. No.	Manufacturer or Retailer.	Where Collected.	Butyro Read- ing,	Cotton- seed Oil	Beef Fat.	Remarks.
Court House Grocery Court House Grocery Louis Yorger Louis Yorger F. Hilgeneier H. Merklin H. Merklin A. Mol thian	Indianapolis		Starch pr Starch pr Starch pr Starch pr Starch pr Starch pr Starch pr Starch pr Starch pr Starch pr	esent. esent. esent. esent. esent. esent. esent. esent.	13844 13875 14864 15569	W. O. Steenpp. Hibbin, Holloway	Washington	50.2 51.65 49.0 49.2	15% 15% None None	Present.	Adusterated
Fesik Major Major Bros	Mishawaka Mishawaka		Starch pr	rsent.	Lab. No.	Article Analyzed,	Manufacturer of Retailer		Where ollected]	Remarks.
Manufacturer or Retailer.	Where Collected.	Butyro Read- ing. @40°C.	Cotton- need Oil.	Beef Fat.	13864 14062 14074 14083 14503 14575	Veal loss	Rothe Bros. O. J. Tillett Best Bros. C. O. McCarty	Han Ren Peru Jeffe Sout	mond sselver rsonville h Bend		
J. C. Hinton. E. Beynolds. Louis Yorger Walter Williams Ennis & White.	Ft. Wayne, Indianapolis Indianapolis Indianapolis Princeton	51.5 50.7 50.15 50.15 50.5	None None None	None. None. None. None.	14843 14957	Pressed ham Pork and beans MISCELL	Cotton & Thalben W. E. Musser	nar Mish Free	dom		
C. W. Covey. Gus Keshner. W. H. Kellar & Co. Corydon Packing Co. Geo. & Brown. Win Hilsmeyer. F. L. Lamkin. Heick & Eggers. C. G. Stumpp. H. J. Kramer.	Princeton Lawrenceburg Corydon Corydon Corydon Corydon Huntingburg Huntingburg Huntingburg Washington Washington Washington	51.35 50.3 50.15 50.2 50.2 49.1 49.9 50.6 51.0 51.5 50.2	None None None None None None None None	None, None, None, None, None, None, None, None, None, None,	13855 14073 14096 14545 14842 15627	Bloodwurst	L. P. Conner Mooney Cotton & Thalben	Ren Roci Terr	sselaer hester e Haute awaka	Stare Stare Stare	b present. b present. b present. b present. b present. b present. h present.
	Juo. F. Coneannon Juo. F. Coneannon E. Reynolds Wm. Kuhn Noach & Du Combe J. Eigelsback WEINERWI Bills & Boettcher Court House Grocery Court House Grocery Louis Yorger Louis Yorger H. Merklin H. Merklin H. Merklin H. Steck A. Moltthan C. W. Yoler Frank Major Major Bros LARI Manufacturer or Retailer J. C. Hinton E. Reynolds Louis Yorger Walter Williams Ennis & White H. P. Redmon C. W. Covey Gus Keshner W. H. Kellar & Co. Corydon Packing Co. Geo. E. Brown Wm. Hilsmeyer F. L. Lamkin Hrick & Eggers C. G. Stumpp H. J. Kramer C. J. Berrens	Juo. F. Concannon Indianapolis Juo. F. Concannon Indianapolis Juo. F. Concannon Indianapolis E. Reynolds Indianapolis Wm. Kuhn Hammond J. Eigelsbuck Reasselaer WEINERWURST—ILLEGAL WEINERWURST—ILLEGAL Bills & Boettcher Indianapolis Court House Grocery Indianapolis Louis Yorger Indianapolis Louis Yorger Indianapolis Louis Yorger Indianapolis H. Meralia Indianapolis H. Meralia Indianapolis H. Steck Indianapolis H. Steck Indianapolis C. W. Yo'ler Rochester Frank Major Mishawaka Major Bros Mishawaka LARD—LEGAL. Manufacturer or Retailer. Where Collected. J. C. Hinton. Pt. Wayne E. Reynolds Indianapolis Louis Yorger Indianapolis Louis Yorger Rochester Frank Major Mishawaka LARD—LEGAL. Manufacturer or Retailer. Where Collected. J. C. Hinton. Pt. Wayne E. Reynolds Indianapolis Louis Yorger Indianapolis Louis Proceeding Walter Williams Indianapolis Louis Proceeding Walter Williams Indianapolis Louis Princeton C. W. Covey Princeton C. W. Covey Princeton Corydon Taking Co. Corydon Corydon Corydon Taking Co. Corydon Corydon Corydon Taking Co. Corydon Corydon Corydon Paking Co. Corydon Corydon Corydon Majolispurg F. L. Lamkin Hontingburg F. L. Lamkin Hontingburg G. S. Sumpp Washington. Washington. Washington.	Juo. F. Concannon Indianapolis Indianapolis E. Reynoldis Indianapolis E. Reynoldis Indianapolis Wm. Kuhn Hammond Hammond No. Ch. & Du Combe Hammond I. Eigelsback Reasselaer WEINERWURST—ILLEGAL Bills & Boettcher Indianapolis I	Juo. F. Concannon Indianapolis Pure. Juo. F. Concannon Indianapolis Pure. E. Reynolds Indianapolis Pure. Wm. Kuhn Hammond Pure. Noach & Du Combe Hammond Pure. J. Eigelsback Renselaer Pure. WEINERWURST—ILLEGAL Bills & Boettcher Indianapolis Starch properties of the pure Indianapolis Starch properties of the Indianapoli	Juo. F. Concangon Indianapolis Pure. Juo. F. Concangon Indianapolis Pure. E. Reynolds Indianapolis Pure. Wm. Kuhn Hammond Pure. Noach & Du Combe Hammond Pure. J. Eigelsback Rensselaer Pure. WEINERWURST—ILLEGAL Bills & Boettcher Indianapolis Starch present. Court House Grocery Indianapolis Starch present. Court House Grocery Indianapolis Starch present. Louis Yorger Indianapolis Starch present. Louis Yorger Indianapolis Starch present. H. Meralia Indianapolis Starch present. A. Mol (than Indianapolis Starch present. C. W. Yo'ler Rochester Starch present. Major Bros Mishawaka Starch present. Major Bros Mishawaka Starch present. LARD—LEGAL. LARD—LEGAL. D. C. Hinton Primeton So. 7 None None None None None None None None	July F. Concannon Indianapolis Pure. R. Reynolds indianapolis Pure. W. Kuhn Hammond Pure. J. Eigelsbuck Rensselaer Pure. WEINERWURST—ILLEGAL Bills & Boettcher Rensselaer Pure. WEINERWURST—ILLEGAL No. WEINERWURST—ILLEGAL Bills & Boettcher Indianapolis Starch present. Court House Grocery Indianapolis Starch present. Louis Yorger Indianapolis Starch present. Louis Yorger Indianapolis Starch present. H. Merklin Indianapolis Starch present. H. Major Mishawaka Starch present. Lab. No. LARD—LEGAL. Manufacturer or Retsiler. Where Collected Reading. Mishawaka Starch present. Lab. No. LARD—LEGAL. Manufacturer or Retsiler. Where Collected Reading. Mishawaka Starch present. Lab. No. LARD—LEGAL. Manufacturer or Retsiler. Where Collected Reading. Mishawaka Starch present. Lab. No. LARD—LEGAL. Manufacturer or Retsiler. Where Collected Reading. Mishawaka Starch present. Lab. No. LARD—LEGAL. Manufacturer or Retsiler. Where Collected Reading. Mishawaka Starch present. Lab. No. LARD—LEGAL. Manufacturer or Retsiler. Where Collected Reading. Mishawaka Starch present. Lab. No. LARD—LEGAL. Manufacturer or Retsiler. Where Collected Reading. Manufacturer or Retsiler. Where Collected Reading. No. No. No. No. No. No. No. N	June F. Concannon Indianapolis Pure	Indianapolis	Job F. Conesnano Indianapolis Pure Indianapolis Reusether Pure Indianapolis Starch present Indianapolis Indi	Jos. F. Concanano Indianapolis Pure	Jo. F. Concannon. Indiscapolis Pure. E. Reynolds Indiscapolis Pure. C. Research Pure. Weinerwurst—rillegal. No. Bandon Pure. Weinerwurst—rillegal. No. Manufacturer or Where Collected. Wils & Boettcher Court House Grocery Indiscapolis Starch present. Court House Grocery Indiscapolis Starch present. Jones Jonger. Indiscapolis Starch present. Louis Jonger. Indiscapolis Starch present. Louis Jonger. Indiscapolis Starch present. H. Weishin Indiscapolis Starch present. H. Werkin Indiscapolis Starch present. H. Werkin Indiscapolis Starch present. H. Streck Indi

OYSTERS.-ILLEGAL.

Iab. No.	Retailer.	Where Collected.	Number Oystors Per Pint.	Gross Weight, Grams.	Weight of Meat, Grams.	Per Cent, of Water in Meat.	Per Cent. of Solids In Meat.	Weight of Liquor.	Per Cent. Wuter in Liquor.	Per Cent, Solids in Liquor,	Per Cent. Water in Lample.	Per Cent. Meat in Sample.	Total Solids in Lample.	Per Cent. Solids In Sample.	Remarks.
13932	Gen. Sowder	Market House.	61	475	375	89 16	10.84	100 c.c.	98.12	1.87	20.05	79.95	42.49	8.945	Adulterated with water
13933	Mrs. T. J. Egan	Market House	33	470	385	9.231	7.69	105	98.72	1,271	22.34	77.66	29.40	6.255	and prosecuted. Adulterated and prosecuted.
13934	Indianapolis Fish and	Indianapolis		200	267	96.88	13.14	100	Be of	3.09	26.80	73.4	52.3	1.047	Watered.
13935	Oyster Co Geo. A. Nicolson	Indianapolis	54 32	500 464	367 : 387	85.88	14 12	77	96.91 96.25	3.74	16.60	83.4	57.5	12.40	Pass.

MAPLE PRODUCTS.

During the spring months many samples of maple sugar and syrup were analyzed, mostly at the request of producers of the

country product. It is interesting to know that of the 47 samples analyzed but 8 were adulterated. This is a striking contrast to previous years when a pure maple syrup was a rarity. The character of maple sugar is also decidedly improved.

MAPLE SYRUF-LEGAL

13757 Sent in by Dr. C. McIntosh Terre Haute +45.2 -20	Lab. No.	Manufacturer or Retailer.	Where Callected	Polariza- tion, Direct.	Polarisa- tion, Invert-	Per Cent. Sucrose.	Total Ash.	Insoluh)e Ash.	Soluble Ash.	Alkalinity of Ash, Soluble.	Alkalinity of Arh, Insoluble.	Per Cent. Water.	Head Number.
14530 Geo. B. Spieer Gosport +57.4 -20 0 58.78 .65 18 48 56. 48. 31.25 14530 Geo. B. Spieer Gosport +48.0 -18.0 50.13 1.01 .26 .75 70. 60. 34.50 14531 Geo. B. Spieer Gosport +46.0 -19 0 48.37 .79 .25 .54 .56 60. 32.00 14532 Smith Bros. Gosport +44.2 -19.8 47.09 .75 .23 .52 .52 .50 14533 Smith Bros. Gosport +43.6 -17.0 48.03 1.02 .55 .68 .60 .31.55 14533 J.w. King Gosport +43.6 -17.0 48.03 1.02 .58 .44 60. 100 .43.50 14735 Geo. C. Bavis Crawfordsville +61.2 -20.0 61.67 .67 .17 .50 .56 .54 .22.15 14775 T. L. Carver Crawfordsville +54.2 -18.6 .56.29 .77 .20 .57 .64 .62 .32.40 14776 T. L. Carver Crawfordsville +57.2 -19.8 .57.22 .71 .24 .47 .62 .64 .35.80 14933 Chas B. Austin Inditapolis +62.2 -20.8 .63.60 .60 .28 .32 .54 .56	13777 13780 137787 13787 13787 13787 13798 13797 13798 13797 13998 13998 13998 13998 14048 14048 14047 14049 14075 14519 14532 14532 14533 14532 14775 14776 14776 14933	Sent in by Louis Schulmeyer Sent in by Win. S. Beck Sent in by Clyde Ritter Sent in by E. W. McMillan Sent in by Mrs. Harry Miller Sent in by Indianapolis Water Co Mrs. McIntoah O. P. Damer M. S. Burger Cooper & Hansford Collected by H. E. Bishop Frank Hall Dr. R. H. Elilott Ralph Hill Dr. W. A. Holloway Frank Sone J. W. Miller Stewart & Berry Earl Ray Boergu Bros J. H. Foley Co E. S. Rhodes J. H. Foley Co E. S. Rhodes Home Grocery Co W. W. Minor Geo. B. Spicer Geo. C. Davis T. L. Carver Chas B. Austin Broasta in by H. E. Barnard	Indianapolis. Indianapolis Pleasant, Lake. Mooresville Seymout Indianapolis Worthington. Clay City. Clay City. Clay City. Worthington. Indianapolis Logansport. Consecution Converse Gosport. Consport. Cons	+451.66 +536.2 +546.2 +554.4 +550.8 +	-20	64.9 64.9 56.9 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 65.0 66.0	74 71 71 74 68 98 90 1,07 98 2,98 33 34 16 1,03 87 37 87 87 86 1,03 87 87 87 87 87 87 87 87 87 87 87 87 87	24 339 31 32 33 32 32 32 32 32 32 32 32 32 32 32	50 381 433 397 477 555 559 711 466 570 322 491 512 612 613 614 615 616 617 617 617 617 617 617 617 617 617	56.00 72.068.48.0 68.48.72.068.84.72.066.720.666.720.720.720.720.720.720.720.720.720.720	40.0 44.4 48.60.68.8 188.50.68.8 188.50.927.74.2 16.88.86.74.72.756.48.8 60.60.60.60.60.60.60.60.60.60.60.60.60.6	33.17 29.46 31.26 31.20 27.15 29.54 29.54 32.5 36.90 30.20 31.49 31.59 32.5 31.59 32.5 31.59 32.5 31.59 32.5 32.5 33.5 34.50 32.5 32.5 33.5 33.5 33.5 33.5 33.5 33.5	2.73 3.2 2.77 3.48 2.68 2.67 2.28 2.67 2.29 2.13 2.40 1.40 2.41 2.41 2.41 2.41 2.41 2.41 2.41 2.41

MAPLE SYRUP—ILLEGAL

Lab. No.	Manufacturer or Retailer.	Where Collected.	Polar- ization, Direct.	Polar- ization, Invert.	Sa- erise.	Total Ash.	Ash Soluble.	Ash Insol- uble.	Alka- linity of Ash Soluble.	Alka- linity of Ash Insoluble	Per Cent. Water.	Head Num ber.	Remarks.
13022 13927 13955 14614 14614	Ches. Ritter A. M. Peters (sent in). W. D. Huffman Co S. J. Wilson, Dr. S. C. Newlin (sent in). W. D. Huffman W. D. Huffman W. D. Huffman W. D. Huffman	Anderson Indianapolis Indianapolis	+ 65 + 65 8	20 4 20 4	59.3 47.8 60.9 34.5 46.9 66.0 66.0	81 1.08 555 69 777 .03 .03	72 72 04 30 50 02 02	.09 .56 .01 .39 .27 .01 .01	68. 64 0.0 40. 64, .04	32 20 4.6 78 64 .00 .04	36.41 52.96 37.73 31.8 31.0 31.3		Adulterated. Cane sugar syrup. Adulterated. Adulterated. Only trace of maple.

MAPLE SUGAR-LEGAL.

Lab. No.	Manufacturer or Retailer.	Where Collected.	Polar- ization, Direct.	Polur- icativa, Invert.	Su- erose.	Tota! Ash.	Ash Soluble.	Asb fasol- uble.	Ash	Alka- linity of Ash Insoluble	Per Cent, Water.	Head Num- ber.	Remarks.
13293 13319 13987 13973 14527 14523 15810	Lot V. Oglesby. Mrs. Miller Chis. Ruisback David Sham David Sham Joha Sath. Hone Preserving Co.	Indianapolis Indianapolis Indianapolis Indianapolis Indianapolis Gosport	+36.0	-33.2 -22.4 -22.0 -28.0 -15.0 -24.4	92.6 89.47 71.94 85.02 35.74 60.92	.38 1.16 2.08 1.06 .85 1.95 1.06	.35 .39 .78 .58 .46 .71 .39	.03 .77 1.30 .48 .39 1.24 .67	16 104 1 96 92 56 68 52	16. 100. 104. 108. 92. \$8. 100.	45.00	2,34 3,26 2,84 2,68 2,99	Labeled "Bleaded Sugar." Pure. Pure. Pure. Pure. Pure. Pure.

MAPLE SUGAR—ILLEGAL

13901 F. L. Forthoffer 13921 Ray State Maple Sugar Co 13937 W. L. Daughty.	Princeton Boston Kyana		74.69 73.3 65.73	.15 44 1.75	99 21 84	.07 23 91	16. 33. 96.	140	3.41	Adulterated, Adulterated, Low grade sugar
13937 W. E. D'Orgaly	Ayana	~ 04.U —22.4		1.70	.01	. 51	my.	140.	3.21	LOW grade Fugar.

VINEGAR.

Eighty-five samples of vinegar were analyzed during the seven months, of which 58 were legal and 27 were illegal, thus showing an adulteration of 31.7 per cent. The vinegars classed as illegal

were usually so ranked because of the fact that they were low in acid, due either to immaturity or to intentional dilution. Occasionally samples come to market as eider vinegars when in fact they are only artificial. Most of such goods is manufactured in large business centers and shipped into the State in wilful violation of the law.

VINEGAR-LEGAL.

b. vo	Manufacturer or Retailer	Where Collected	Acidity.	Solids.	Ash.	Alkalinity of Ash.	Color.	Lead Acetate Pre- cipitate.	Polariza- tion.	Remarks.
17	Caro Vinegar Co	Caro, Mich	4.03	2.613	220	24	Normal	Slight	+0.	
95 !	E. R. Steele & Cu	Lagrange	4.27	2.087	.311	28.0	Normal	Slight	4	Pure eider.
Ω7	fleo. M. White	Іддезиде,	4 20	1.957	.250	22.0	Norma)	Slight	6	Pure cider.
11 : 31	Geo. B. Moore. E. L. Mort	Lagrange	3.76	1.908	304	36.0	Normal	Sight	4	Pass, cider. Distilled
25	J. W. Crothers	N. Manchester Elnora	4.70 4.12	232	.050	2.0	Normal	Slight Heavy	+0	Mixed.
57 i	Laura C. Jones	Albion	4.05	1.434 2.460	.305 330	27.0 32.0	Normal	Slight	±0.	Pure cider
ž8 '	Grocers' Supply Co.	Indianapolis	4.03	2,176	.361	24.0	Normal	Medium	+ŏ.o	Pure cider
$2i_{-i}$	Gracers' Supply Co.	Indianapolis	4.05	2.077	320	28.0	Normal	Heavy	+-0.	Pure cider.
1 9	James McGrainhan C. M. Miller	Lawrenceburg	4.97	2.712	394	22.0	Normal	Medium	+-0.	Pure cider
28	C. M. Miller	Corydon	4.16	2.897	442	20.6	Normal	Heavy	+Q.	Pure cider
3 : H	Wm. Hilsmeyer	Huntingburg	4 29	358	.034	5.00	Normal	None	+-0	Distilled.
12	H. H. Hilsmeyer H. H. Hilsmeyer Louis Katterburg Crescent Grovery Co.	nuntingbarg	4.62 4.42	265 2 041	.025 348	3.00	C. W. C	None	+2.2 +-0.	Distilled. Pure cider
5	Louis Katterburg	Huntinghung	6.05	.364	.046	25.00 5.00	Normal	Very heavy. None	+1.4	Distilled.
13	Crescent Grovery Co	Bedford	4.46	1.824	.440	33.0	Normal	Medium	+-0.	Pure eider
3,3	Diamond Grocery Co Irwin & Sons	Belford	4 53	502	.099	2.0	Normal	None	+2.0	Dietilled.
j j	Irwin & Sons	Mitchell	4.395	2.472	347	28.0	Normal	Medium	-2.4	Pure cider
8	J. F. Mathews	Mitchell	5. f15	380	.067	2.40	C. W. C	None		Distilled.
1	John Dalton	Mitchell	4.17	412	054	6.00	Ç. W. C	None	+1.2	Distilled
9	J. F. Crane Grocers' Supply Co	Spencer	4.03	5.052	.464	40.0	Normal		+-0.	Pure cider Pure cider
Ű:	IN /inn	(Mandan Effil)	3.77 5.15	2.28 1.375	.343	28.0	Normal		+-0.	Pure cidez
ĭ	J. W. Zinn	Clarks Hill	6.20	1 242						Pure cidet
2	J. M. Zion J. M. Zion	Clarks Hill	5.19	1.213	j					Immature
3	J. M. Zion	Clarks Hill.		1.448						Immature
1	J. M. Zion	Clirks Hill.	5.54	1 750						lumature
5	d. M. Zion	Clarks Hill 1	5 82	1.442	l	l				Immature
βį	J. M. Zion.	Clarks Hill.	4.10	2.386		, ,				Immature
; 8	J. M. Zion	Clarks Hill	5 02	1 362		ļ .				Immature
9	J. M. Zion J. M. Zion	Clarks Hill	4.30 6.06	1.365 1.338						Immature Immature
ő i	J. M. Zion	Clarks Hill	4.15	1.253		· · · · · · · · · · • •			,	Immature.
ï	J. M. Zion	Clarks Hill	4.80	1.390						Immature.
2 :	J. M. Zion	Clarks Hill	4.30	1.332						
ġ.	J. M. Zjon !	Clarks Hill	4.30	1.041						Immature.
į.	i John D. Landis,	Linton	4.54	5.474	. 117	14.	Normal			(ider vinerar
į.	L.A. Felknor	West Baden	5 04	2.531	481	28.0 38.0	Normal	Heavy		
i :		Fr. Wayne	4.73	2.651	.438	38.0	Normal	Medium	- 8 +2.4	Fure vinegar Pure vinegar
ί	Rostlett Fax Ca	Bioomingdale	3 73 4.075	2. 63 3 2.577	.452 .308	28. 31.0	Normal Normal	Heavy		Pare vinegar Pure vinegar
2	Blooming tale Vinegar Co Bartlett Fea Co J. M. Berry W. R. Eliote Win, Robinson	Elbottsville.	5.67	2.211	422	28.	Normal	Slight	0.0	
ŏ'	W. R. Fhot	Plainfield.	4.08	1.368	384	30	Colored	Medium	+-0.0	Mixed vinegar
ł				314	048	40.	Colored	None	+1.2	Colored, distilled.
2	Moore Grocery Co	fuliampolis .	1 64	2.490	424	34.	Norma	Medium	(+-0.0	Pore cider.
3	Kothe, Wells & Bauer	Indi unapolis	4.02	2.108	448	37.	Normal.	Medium	-1.0	Pure cider.
1 7	C. H. Rinnie	Indianapolis'	10.88	2.87 2.796	371 336	18. 26.	Normal Normal	Medium	+2.4 - 8	Artificial. Pure cider.
į,	Runsey Bros	Tipton	3.94	3 400	277	26 24	Normal		-:3	Low in acidity.
1	Preston & Co	Burler	4.30	2.84	468	34.4	Normal	Heavy	+0.0	Pure (ider.
5 I	Coot Bros	Wabash	4.08	2.559	.308	30	Normal	Heavy	—8 .	Pure cider.
9	Thompson & Wright	Wahash	4.14	.217	34	30	C. W. C	None	+16	Colored, distilled.
i !	Geo.Liumeru	Wabash	4 28	. 340	.40	20	Normal			
2	Beitmen Wolf.	Waltieli		3.055	519	50	Normal			Pure cider.
ļ.)	M. F. Davis.	Medori	5.09	4 41	337 062	42 20	Normal		$-2.6 \\ +1.4$	Mixed vines: r Distilled.
8 i	C. W. Huston	Terr's Haute	1 30	359	.062	20	Normal	NODE	77.8.9	MEGRICAL

VINEGAR-ILLEGAL

lab No	Manufactures or Retailer	Where Collected	Acidity.	Solids	Ash.	Alkelinity of Ash.	Color.	Lead Acetate Fre- cipitate	Polariza- tion.	Remarks.
13755 13887 13888 13913	J. Rose Robertson Berkey Brzs Berkey Bros Wig. Rofferty	Prownstown Salem Salem Princeton	3.87 3.08 4.04 4.66	3.985 1.0229 6.920 0.206	420 318 411 .028	35.0 35. 48.	Normal Normal Partly removed Removed	Henvy Medjum Very slight None	+-0.0 +-0.0 +-0.0	Immature, low in acidity Adulterated. Citric acid present Adulterated.
14559 14622 14629 14643	D. A. Stockman H. H. Kellar Co C. M. Miller Alvey Harlen	Lawrenceburg Corydon Corydon Hantingburg	3.74 3.70 2.92 3.35	1.644 3.271 342 277	.252 .538 .037 .031	12. 44. 6.60 2.00	Normal Normal C. W. C.	Medium Heavy None None	+0.0 +-0.0 +-6.0 +1.4	Low in acridity. Low in acridity. Low in acridity. Low in acridity: pass
14546 14746 14747 14749	E. W. Blunker Ewing Bros J. F. Mathews Harry Chopple	Hunriceburg Mitchell Mitchell Mitchell	3.75 2.74 3.35 3.83	2 194 407 3 26 913	.200 .082 .546 .073	11.00 2.40 31 2.0	Normal C. W. C. Normal Normal	Medium None Heavy None	-1.6 +1.6 6 +1.0	Low in acidity. Low in acidity.
14752 14903 14955	F. R. Braman Br. Dilley Johnson & Co.	Mitchell Brazil Freedom West Baden	2.38 2.85 3.73 2.83	929 1 630 569 1 076	.038 .441 .033 .219	4.0 38 2.00	Normal Normal Normal Colored	None Heavy None None	+ .4 + 0. + 6. +0	Low in scidity. Low id scidity. Low in scidity. Low in scidity.
(5271 (5205 (5394 (5790	E. A. Palmer. Reller & Wilson C. W. Jackson & Sons. Wm. Driver.	French Lick loditorspolis Lagrange	6 0J 3 76 2.15	3.152 2.269 1.43	.229 .316 .413	12 24 30	Normal Normal Normal	None Medium Medium	+ 4.4 2.2 0	Artificial; adulterated low in acidity. Low in acidity and solid:
5843 5848 5850 6079	Peter Hipskind Clark Bros L. D. Landenberger M. L. Davis	Wabash Wabash Wabash Medora	3.45 3.23 3.77 2.54	274 1.965 2.787 2.178	051 420 249 0.379	5.0 36. 22.0 38.	Normal Colored Normal Normal	None Heavy Heavy Slight	+1.2	Eclow standard Pelow standard Pelow standard Pelow standard

BEVERAGES.

Of the 327 samples of such summer drinks as pops, ginger ale, sodas, fruit ciders, root beers and such proprietary articles as iron brew, orangeade, orcherade, etc., 169 were legal and 158, or 48.2 per cent., were illegal. Those classed as adulterated usually contained an artificial sweetener in the form of saccharin. The use of saccharin is in direct violation of the law in that it is contravy to that section which prohibits the mixing of a substance in food so as to reduce its quality or strength, and also of that section which prohibits the substitution of any substance wholly or in part for the article. Many other samples contained benzoate of soda, added as a preservative. Others were colored in imitation of the genuine article.

BEVERAGES-LEGAL

13574	Lab. No.	· Manufacturer or Retailer.	Where Collected.	Name of Beverage.	Preserva- tives or Artificial Sweetener
13575 Fred Witchens Knox Chocolate Cream None.	13574	Fred Witchens	Knos	Orange Soda	Vone
13576					
15312 A. Shorter. Winamac Cider None.					
Sola Pop					
Sola Pop		Crown Cordial Co			None
Sandborn Sandborn None				Optop with the co	one.
15231	-0-00			Sandborn	None.
Sandborn None Sandborn None	15231	Soda Pon			· · · · · · · ·
15372 Jan. Dickerson Richmond Berry Bontice. None. 15405 Geo. B. Lee. Frenck Lick Hop Cream None. 15403 Walter Smith Mitchell Root Beer. None. 15414 F. A. Thuis Vincennes Pepsi Cola. None. 15416 F. A. Thuis Vincennes Blood Orange Pop. None. 15421 Becker Bottling Works. Vincennes Lemon Soda. None. 15422 Becker Bottling Works. Vincennes Lemon Soda None. 15423 Becker Bottling Works. Vincennes Chocol te Pop. None. 15424 Becker Bottling Works. Vincennes Chocol te Pop. None. 15426 E. B. Phillips Spencer Bottled Soda None. 15470 E. B. Phillips Spencer Bottled Soda None. 15481-89 E. B. Phillips Spencer Bottled Soda None. 15481-89 E. B. Phillips Spencer Bottled Soda None. 15481-89 E. B. Phillips Spencer Bottled Soda None. 15481 B. B. Hooper Bicknell Pop. None. 15593 Ellis G. Hooper Bicknell Pop. None. 15593 Ellis G. Hooper Bicknell Pop. None. 15537 Chrs. Mivre & Co. Hammond Soda None. 15572 Daniel Clemens Pt. Wayne Iron Brew None. 15574 Daniel Clemens Pt. Wayne Ginger Ale None. 15574 Weigand Bros. Ft. Wayne Ginger Ale None. 15574 Daniel Clemens Pt. Wayne Red Pop. None. 15574 Daniel Clemens Pt. Wayne Red Pop. None. 15582 Joe Artalt Pt. Wayne Chocolate Soda None. 15593 Joe Davit Klotz. Pt. Wayne Chocolate Soda None. 15594 C. Smith Kokomo Ginger Ale None. 15594 C. Smith Kokomo Ginger Ale None. 15597 Chara Mivre & Carlisle Blood Orange None.	.,,,,,,			Sandborn	None.
15405 Geo. B. Lee. Prench Lick Hop Cream None.	15372	Jan. Dickerson	Richmond		
Same State State		Geo. B. Lee	French Lick		
15413	15408	Walter Smith	Mitchell		
15414	15433	Walter Smith	Mitchell		
15416	15414				
15420 Becker Bottling Works Vincennes Lemon Soda None					
18421 Becker Bottling Works Vincennes Strawberry Pop. None. 18469 E. B. Phillips Spencer Bottled Soda None. 18470 E. B. Phillips Spencer Bottled Soda None. 18470 E. B. Phillips Spencer Bottled Soda None. 18471 E. B. Phillips Spencer Bottled Soda None. 18472 E. B. Phillips Spencer Bottled Soda None. 18473 Ellis G. Hooper Bickaell Pop. None. 18593 Ellis G. Hooper Bickaell Pop. None. 18593 Ellis G. Hooper Bickaell Pop. None. 18519 Ellis G. Hooper Bickaell Pop. None. 18520 Ellis G. Hooper Bickaell Pop. None. 18521 Duriel Clemens Pt. Wayne Iron Brew None. 18572 Duriel Clemens Pt. Wayne Ginger Ale None. 18573 Duriel Clemens Pt. Wayne Ref Pop None. 18574 Weigant Bros Pt. Wayne Ref Pop None. 18575 Duriel Clemens Pt. Wayne Ref Pop None. 18577 Weigant Bros Pt. Wayne Ref Pop None. 18578 Joe Artalt Pt. Wayne Juniper Ade None. 18582 Joe Artalt Pt. Wayne Chocolate Soda None. 18594 C. Smith Kokomo Ref Soda None. 18595 C. Smith Kokomo Ginger Ale None. 1800 Orage None. 1801 Orage None. 1802 Orage None. 1803 Orage None. 1803 Orage None. 1804 None. 1806 Orage None. 1806 Orage None. 1807 Orage None. 1808 Orage None.	15420	Becker Bottling Works			None.
15423 Becker Bottling Works Vincennes Chocol ste Pop. None. 15469 E. B. Phillips Spencer Bottled Soda None. 15470 E. B. Phillips Spencer Bottled Soda None. 15471 S. E. B. Phillips Spencer Bottled Soda None. 15473 - S. E. B. Phillips Spencer Bottled Soda None. 15473 - S. E. B. Phillips Spencer Bottled Soda None. 15473 - S. E. B. Phillips Spencer Bottled Soda None. 15473 Ellis G. Hooper Bicknell Pop. None. 15474 Ellis G. Hooper Bicknell Pop. None. 15474 Ellis G. Hooper Bicknell Pop. None. 15474 Ellis G. Hooper Bicknell Pop. None. 15575 Chis Miver & Co. Hammond Soda None. 15576 Daniel Clemens Pt. Wayne Ginger Ale None. 15577 Daniel Clemens Pt. Wayne Ginger Ale None. 15577 Weigand Bros Pt. Wayne Ginger Ale None. 15579 David Klotz Pt. Wayne Juniper Ade None. 15580 Joe Artalt Pt. Wayne Juniper Ade None. 15794 C. Smith Kokomo Ginger Ale None. 15795 C. Smith Kokomo Ginger Ale None. 15796 C. Smith Kokomo Ginger Ale None. 15797 Mone	15421	Becker Bottling Works.		Strawberry Pop	
15469 E. B. Phillips Spencer Rottled Soda None. 15470 E. B. Phillips Spencer Bottled Soda None. 15473 E. B. Phillips Spencer Bottled Soda None. 15473-83 E. B. Phillips Spencer Bottled Soda None. 15473-83 E. B. Phillips Spencer Bottled Soda None. 15491-89 E. B. Phillips Spencer Bottled Soda None. 15491 Ellis G. Hooper Bicknell Pop. None. 15593 Ellis G. Hooper Bicknell Pop. None. 15519 Ellis G. Hooper Bicknell Pop. None. 15520 Ellis G. Hooper Bicknell Pop. None. 15537 Chys. Myer & Co. Hammond Soda None. 15572 Daniel Clemens Pt. Wayne Iron Brew None. 15574 Daniel Clemens Pt. Wayne Ginger Ale None. 15575 Davit Klotz Pt. Wayne Ref Pop None. 15576 Weigant Bros Pt. Wayne Ref Pop None. 15577 Weigant Bros Pt. Wayne Ref Pop None. 15578 Davit Klotz Pt. Wayne Juniper Ade None. 15582 Joe Artalt Pt. Wayne Chocolate Soda None. 15994 C. Smith Kokomo Red Soda None. 15915 Alson & Ward Carlisle Blood Orange None. 15917 Mone & Ward Carlisle Blood Orange None. 15917 Mone & Ward Carlisle Blood Orange None.	15423	Becker Bottling Works			
15470 E. B. Phillion Spencer Bottled Soda None 15475 - S0 E. B. Phillion Spencer Bottled Soda None 15475 - S0 E. B. Phillips Spencer Bottled Soda None 15481 - S9 E. B. Phillips Spencer Bottled Soda None 15493 Ellis G. Hooper Bicknell Pop None 15593 Ellis G. Hooper Bicknell Pop None 15491 Ellis G. Hooper Bicknell Pop None 15492 Duile Genens Pt. Wayne Iron Brew None 15473 Duile Genens Pt. Wayne Ginger Ale None 15474 Duile Genens Pt. Wayne Ref Pop None 15475 Duyl Klotz Pt. Wayne Juniper Ade None 15576 Duyl Klotz Pt. Wayne Juniper Ade None 15581 Joe Dicolt Pt. Wayne Juniper Ade None 15382 Joe Artait Pt. Wayne Chocolate Soda None 15994 C. Smith Kokoomo Ginger Ale None 15915 C. Smith Kokoomo Ginger Ale None 15917 Alson & Ward Garliele Blood Orange None 15918 Mone March Mone Mone 15919 C. Smith Kokoomo Ginger Ale None 15917 Mone March Mone Mone 15918 Mone March Mone Mone 15919 C. Smith Kokoomo Ginger Ale None	15469	E. B. Phillips			
15474	15470	E. B. Phillips	Spencer	Bottled Soda	None.
1543-89 E. B. Phillips Spencer Bottled Soda None	15474	E. B. Phillips		Bottled Soda	None.
15181-89 E. B. Phillips Speneer Bottled Soda None.	15475-80	E. B. Phillips	Spencer		None.
15593 Ellis G. Hooper Bicknell Pop. None.		R R Phillips	Spanner		None.
13519 Ellis G. Hooper Bicknell Pop. None.	15593	Ellis G. Hooper	Bicknell	Pop	None.
13519 Ellis G. Hooper Bicknell Pop. None.	15507	Eins G. Hoaper	DICKBEH	Pop.	
15122 Ellis G. Hooper Bicknell Pop. None.	15519	Ellis G. Hooper	Bicknell	Pop	
15572		Ellis G. Hooper	Bicknell		None.
15573 Daniel Chemens Ft. Wayne Ginger Ale None 15574 Daniel Clemens Pt. Wayne Pop None 15577 Weigand Brus Ft. Wayne Red Pop None 15579 David Klotz Pt. Wayne Juniper Ade None 15589 Jac Dicola Pt. Wayne Juniper Ade None 15582 Joe Artala Ft. Wayne Chocolate Soda None 15594 C. Smith Kokomo Red Soda None 15795 C. Smith Kokomo Ginger Ale None 15797 Alson & Ward Carlisle Blood Orange None	15557	Chis. Miver & Co	Hammond	Soda	None.
15574 Duile Ukanens Pt. Wayne. Pop. None. 15577 Weigurt Bros Ft. Wayne. Red Pop. None. 15579 Davit Klotz Pt. Wayne. Juniper Ade. None. 15382 Joe Digott Pt. Wayne. Juniper Ade. None. 15382 Joe Artalt Pt. Wayne. Chocolate Soda. None. 15594 C. Snith Kosomo. Red Soda. None. 15917 Alson & Ward. Carlisle Blood Orange. None. None. None. None. None. None.	15572	Duniel Clemens			None.
15577 Weigard Bros Ft. Wayne. Ref Pop Nonc. 15579 Davit Klutz. Pt. Wayne. Juniper Ade Nonc. 15581 Joe Bicola Et. Wayne. Juniper Ade None. 15582 Joe Artait. Pt. Wayne Chocolate Soda None. 15942 C. Smith Kokoono Ref Soda None. 15943 C. Smith Kokoono Ginger Ale None. 15943 Alson & Ward Carlisle Blood Orange None.		Duniel Clemens	Ft. Wayne.	Ginger Ale	None.
15577 Weigard Bros Ft. Wayne. Ref Pop Nonc. 15579 Davit Klutz. Pt. Wayne. Juniper Ade Nonc. 15581 Joe Bicola Et. Wayne. Juniper Ade None. 15582 Joe Artait. Pt. Wayne Chocolate Soda None. 15942 C. Smith Kokoono Ref Soda None. 15943 C. Smith Kokoono Ginger Ale None. 15943 Alson & Ward Carlisle Blood Orange None.	15574	Daniel Clemens	Ft. Wayne	Pon	
15379 Dvel i Klotz Pt. Wayne Juniper Ade None 15383 Jac Bicola Ft. Wayne Juniper Ade None 15582 Joe Artala Ft. Wayne Chocolate Soda None 1594 C. Smith Kokomo Red Soda None 15913 C. Smith Kokomo Ginger Ale None 15617 Alson & Ward Carlisle Blood Orange None		Weigand Bros	Ft. Wavne.	Red Pop	None.
15582 Joe Artalt, Pt. Wayne Chocolate Soda, None, 15594 C. Smith Kokomo, Red Soda, None, 15495 C. Smith Kokomo, Ginger Ale None, 15617 Alean & Ward, Carlisle Blood Grange None,	15579		Pt. Wayne	Juniper Ade	None.
15394 C. Smith Kokomo, Red Sodn, None, 15393 C. Smith Kokomo, Ginger Ale None, 15617 Alean & Ward, Carlisle Blood Orange None,			Ft. Wayne.	Juniper Ade	None.
15794 C. Smith Kokomo, Red Soda, None, 15793 C. Smith Kokomo, Ginger Ale None, 15617 Alson & Ward, Carlisle Blood Orange None,		Joe Artalt	Pt. Wayne	Chocolate Soda	None.
15617 Alson & Ward Carlisle Blood Grange None.		C. Snith	Kokomo	Red Sodn	None.
15617 Alson & Ward Carlisle Blood Grange None.		C. Snith	Kakama	Ginger Ale	
15191 C. Smith Kokomo. Iron Brew None.		Alson & Ward	Carlisle	Blood Orange	
	15731	C. Smith	Kokomo	Iron Brew	None.

BEVERAGES-LEGAL-Continued.

Lab. No.	Manufacturer or Retailer.	Where Collected.	Name of Beverage.	Preserva- tives or Artificial Sweetenes
15592	I. P. Drager.	Rokomo	Cream Soda	None.
15593	C. Smith	Kakoma	White Soda	None.
15616	O. M. Sebring	Shelburn	Champagne Cider	None.
15669	Adam Sines	Delphi	Pop	None.
15674	Jos. Stewart.	Colburn	Pop	None.
15675-7	Jos. Stewart	Colhurn	Рор	None.
15683	Howard McKiman	Rockfield,	Grape Cider	None.
15686	Wm. C. Smith.	Pittsburg.	Pop	None.
15784	Harry L. Sharp	Delphi	Pop	None.
15757	Ed. Welch	Monticello	Apple Cider	None.
15759	M. Watkins	Manticello	Raspberry Cider	None.
15761	R. W. Swisher	Flora	Blood Orange	None.
15762	R. W. Swisher	Flora	Pop	None.
15763	Wm. Luterbach	Paoli	Hop Cream	None.
15786	Wm. Richter	Vincennea	Blood Orange	None.
15817	Gust. Hoffner	Butler	Cream Soda	None.
15818	Gust. Hoffner	Putler	Lemon Sour	None.
15819	Gust. Hoffner	Putler	Рор	None.
15824	George Stout	Butler	Birch Peer	None.
15825	George Stout	Butler	Wild Cherry Phos-	
-•			phate	None.
15829	L. E. Dempey.	Butler	Apple Cider	None.
15830	L. E. Dempsey	Butler	Pop.,	None.
15837	J. C. Miller	Columbia City.,	Apple Cider i	None.
15894	Alva L. Porter	Culver	Pon	None.
15895	Alva L. Porter	Culver	Pop	None.
15896	Howard -	Culvet	Pop	None.
15397	Howard ——	Cuiver	Pop	None.
15898	Howard	Culver	Pop	None.
15899	Howard	Culver	Pop	None.
15900-9	Howard	Culver	Pop	None.
15909	L. C. Rex	Mulberry	Grape Juice	None.
15911-21	Fred Waldron	Mulberry	Pop	None.
16002	Hiram Prooks	Stockwell	Blood Orange	None.
15924	Ray C. Fickle	Mulberry	Pop	None.
15925	Ray C. Fickle	Mulberry	Рор	None.
15929	Clarence Verfus	Williamsport	Рор	None.
1593L	Clarence Verfus	Williamsport	80da,	None.
15932	Clarence Verfus Wm. F. Verfus	Williamsport	Soda	None.
15933	wm. F. Verius	Williamsport	Soda	None.
15934-5	Wm. F. Verfus	Williamsport	Soda	None.
15936-41	Pitcher Bros	Williamsport	Pop	Nane.
15943	Wm. Collins	Williamsport	Pop	None.
15944-6	Wm. Collins	Williamsport	Pop.	None.
15951	C. B. Burlington	Attica	Battled Pop	None.
15952	Geo. A. Wheelock Geo. A. Wheelock	Attica	Pop	None.
15953	Lieo. A. Wheelock	Attica	Pop	None.
15954	Geo. Feinerstein	Attica	Рор.,	None.
15956	P. J. O'Donnell.	Attica	Pop	None.
15957-66	P. J. O'Donnell.	Attica	Pop	None.
15975-83	W. J. Watson	Veedersburg	Pop.	None. None.
15984 15986-94	M. L. Watson J. W. Miller	Covington	Pop	None. None.
16004-11	B. F. Conrad	Darlington	Pop.	None.
16012	Ben Honecker	Darlington	Blood Orange	None. None.
16048	H C Hummel		Orange Pop	None.
16049	H. C. Hummel H. C. Hummel	Areadia	Iron Brew	None.
16059	H. C. Hummel	Areadia		None.
1030.7	K. C. Hummer	mrayit	recor 1 Vp	41000

BEVERAGES-ILLEGAL,

Lab. No.	,	Place of Collection,	Kind of Sample.	Remarks.
13124	W. H. Richey		Jersey Cream Soda	
13725	W. J. Hognachi	Hammond bnemmaH	Phospho Brew	Saccharin present,
13725	W. J. Hognichi	Hammond	Soda	Saccharin present.
14870	- Magnan motel Dat	#001302p011*	' white boda	
14871	Herman Gollman		White Soda	
14872	Herman Goldman	Indianapolis.	White Soda	Contains saecharin.
14873	Louis Sattinger Louis Sattinger Curl Curpenter G. Goshner	Indianapolis	White Soda	Contains saecharin,
14874	Louis Sattinger	[qdianapolie	White Foda	Contains saccharin,
14875	Curl Curpenter	Indianapolis	White Soda	Contains saccharin.
14876	. Curl Carpenter	Indianapolis	White Soda	Contains saccharin,
15022	G. Gochner	South Bend	Orcherade	Saccharin present
15010	A. Shorter	n manac	- 4 qnr	Pensonte.
15163	Cive & Martin	Sullivan	Orcherade	Saccharin
15167	Cive & Martin. Dick Dutley.	Sullivan,,	Orcherade	
15158	: W. M. Driper	Sellivan	Orcherade	Saceharia,
15224-34	W. M. Driver Jacret & Galbenshue	Sandbern	Soda Pop	Sarcharin; (10 cases).
15?44	! T. J. Withita	Monteguma	Azt. Cider	Sacebarin and coal tar rolor.
15245	T. J. Within	Mouterums	Art. Cider	Sarcharin, benzoic acid, salt and coal tar cok
15246	Jesse G. Howell		Sweet Cider	
15225	Jarrett & Gilhenshue	Sandhorn,	Seds Fop	Saccharin present.
15289	J. M. Sweeney.	Duggar	PORCET DOGS	Paecharin present.
15289	I. M. Sweeney.	Deggar	Bottled Soda	Saccharin present.
15355	C. D. Storms	Richmond	Iron Brew	Salicylic acid
15356	C. D. Storms	Richmond:	Red Pop.	Salicylie acid.
15370	J. Foster	Richmond	Red Pop	Salievlic seid.
15373	J. Foster Jno. Dickerson	Richword	rop	Salievlie acid
15375	Clem Heck	Richmond	Pop	Solievlie acid
15377	J. T. Fo-tet	Richmond	€ op	Salievlie acid,
15399	J. F. Bergman	Kekome	Cream Soda	Saccharin.
15390	J. F. Bergman	Kokamo	Orange Cider :	Secretarin
15371	J. F. Foster	Pichmond	Pon	Selicylic acid present.
15374				Selicyle acid present
15376	I F Foster	Richmond	Pop	Saliettin maid manage
15394	J. F. Bergman	Kokomo	Pop	Saccharin present.
15406	Walter Smith	Mitchell	Merry Widow High Ball	Saccharin present.
5407	Walter Smith	Mitchell	Merry Widow High Rell	Saccharin present
5410	F. A. Thuis	Vincennes	Lemon Sorta	Saccharin research
15411-13	F. A. Thuis F. A. Thuis	Vincennes	Pop	Saccharin present,

BEVERAGES-ILLEGAL-Continued.

ab. No.	Manufacturer of Retailer.	Place of Collection.	Kind of Sample.	Remarks.
5417	F. A. Thuis Recker Bottling Works	Vincennes	Lemon Sour	Saccharin present.
H19	Recker Bottling Works	Vincennes	Orcherade	Saccharin present. Benzoate of soda.
122	Recker Bottling Works	Vincennes	Pop	Benzoate of soda.
471	E. B. Philips	Spencer	Soda	Bensoate of soda.
473	E. B. Phillips	Spencer	Soda	Benzoste of soda
180	E. B. Phillips	Spencer		Benzoate of soda.
18j	E. B. Phillips	Spencer	Soda	Benzoste of soda.
488	E. B. Phillips	Spencer	Soda,	Benzoste of sods.
190	E. B. Phillips	Spencer	Soda	Benzoate of soda.
49 i	E. B. Phillips	Spencer	Soda	Benzoate of soda.
199	Ellis G. Hooper	Distant II	The	Saccharin and benscate of soda.
100	Flis G. Hoover	Biobanil	Pap	Seccharin.
102	Ellis C. Hooper	Ricknell	Pop.	Saceharin.
Š.	Ellia C. Nooper	Risknell	Pop	Saceharin.
i35-18	Ellis G. Hooper Ellis G. Hooper Ellis G. Hooper	Bicknell, Bicknell	Pop	Sacebarin.
21-2	Ellis G. Hooper	Bicknell	Pop	Soccharin.
23	Phi. C. Man.		Top	
	Ellis G. Hooper	Bicknell	Pop Egyptian Malt Pop	Benzoate of soda.
2;	Ellis G. Hooper	Bicknell	Egyptian Mait	Seccharin and benseate.
75 176	P. D. Evans	Ft. Wayne.	rop	Saceharin,
376 374	F. D. Evans F. D. Evans Joe Attalla	Ft. Wayne Ft. Wayne,	Pop.	Saceharin.
181	Joe Attalla	Pt. Wayne,	[ron Brew	Sacchario and benzoate.
146	M. F. Mauer	Muncie	Rombre	Benzoate.
117	Silas Hate		Cream	Saccharin and bearcate of sods.
549-51	Silas Bule	Muncie	Pop	Saccharin.
548	Silas Hale	Muncie Hammond	Birch Beer	Saccharin and benzoate ot soda.
551	Tarnogradski Bros	[Hammond	8oda	Saccharin.
555	Tarnogradski Bros.	Hammond	Soda	Saccharin.
556	Mrs. Gindle & Sons		Soda	Saccharia.
578	Wiegand Bros	Ft. Wayne	Soda Black Pop	Salicylic acid,
318	Alsop & Ward	Carlisle	Iron Brew	Saecharin.
19-20	J. A. Rooksberry	5 Carlasia	Blood Crange	Benzoate of soda.
321	J. A. Rooksherry	Cariale	Lemon Sods	Saecharin.
323	J. A. Rooksberry Ed. McCann	Carlisle	Lemon Soda Merry Widow Pop,	Saccharin,
670-3	Joseph Stowart	Colburn	Pop	Saccharin.
578 -9	Joseph Stewart	Colburn	Pop	Saccharia,
699 .	Hicks & Brown	Carlisle	Pop. Blood Orange	Bengoate of soda,
712	Harry L Sharp.	Delphi	Pop	Coal tar present.
753 756 784	Henry Crone	Delphi	Pop. Cherry Cider Kelly's Smile. Soda and Rye Ols	Benzoate of sods.
701	Wip, Richter	Vincennes	Z-D-J- 6 G-	Saccharin,
Si-S	Wm. Richter	Vincennes	Code and Due Ole	Saccharin.
314	Gust Hoffner	Butler	Coca and Kye OB.	Saccharin.
		Butter	Hop Ale	Benzoate of soda.
\$15	Gust Hoffner	Butler	Axo	Saccharin and salicylic acid.
316	Gust Hoffner. Gust Hoffner	Batler	Ginger Ale	Saccharia.
120	Gust Monner.	Butler	Phosphate	Saccharin and henzoate. Colored.
21	Gust Hoffner	Butler	Orangeade	Denzoate of soda.
522	Gust Heffner	Butler	Liquid Force	Benzoate of soda and sacchario.
326	Geo. Stont	Butler	Pop. Ginger Ale	Bensoate of soda and saccharin.
327	Geo. Stout	Butler	Gioger Ale	Benzoate of sods and saccharin.
32	Gen. Staut. Stahl & Strauss. Stahl & Strauss.	Butler Columbis City Columbia City	Cherrysip. High Ball	Benzoate of soda and saccharin.
333	Stahl & Strauss,	Columbia City	High Ball	Benzoate of soda and saccharin.
134	Stahl & Stranss Stahl & Stranss	1 Columbia City	Iron Brew	Benzoate of soda and saccharin.
35	Stahl & Strauss	Columbia City	Sodia Orange Cider	Benzoate of soda and saccharin
36	Stahl & Strauss	Columbia City	Orange Cider	Bensoate of soda and saccharin.
38	L.C. MGRet	Columbia City	Hop Ale	Benzoate of soda.
io	Fred William	Mulberry	Pop	Saccharin and henzoate of soda. Saccharin and henzoate of soda.
16	Fred Waldron	Mulberry. Williamsport.	Pop	Saccharin and henzoate of soda.
29	Wm. F. Verfus	Williamsport.	Pop	Benzoate of soda and saecharin.
39	Fred Wilfron Fred Wilfron Win F. Verfus Wm. F. Verfus		Pop	Benzoate of soda and saccharin.
12	Noll & Schneiter	Williamsport	Pop. Ginger Ale	Benzeate of soda and saccharia.
50	Pitcher Bros	Williamsport	Orcherade	Benzeste of soda and saccharin.
42	Lie Spiliton	Veedersburg	Pon	Benzoate of soda.
33	R F Coned	Darlington	PopOrcherade	Colored and not labeled,
13 13	W. Jean Charteroon	Darlington	Pop	Colored and not labeled.
13 31	Win F. Vornis Noil & Schoei fer Pitcher Bros Jas. Solliwan B. F. Cone (d. Walter Chesterson Walter Chesterson	Darlington	Pop	Saccharin and benzoate,
32	Walter Charteron	Darlington	Pop	Saccharin.
34	Walter Chesterson	Darlington	Pop	Sacchario
33	Walter Chesterson Walter Chesterson Dr. J. Cooperider Dr. J. Cooperider Dr. J. Cooperider	Darlington		
34	witter Chesterson	Darlington	Pop.	Saccharin and benzoate.
60	Dr. J. Cooperider	Madison	Soda	Benzoate of soda.
6 L	Dr. J. Cooperi fer	Madison	Soda	Benzoate of soda.
62	Dr. J. Cooncriter	Madison	80da	Benzoate of soda.
93-9	Dr. J. Copperi let	Madison. Columbia City.	Soda.,_,,	Benzoate of soda.
95	Dr. J. Cooneriter Dr. J. Cooneriter J. C. Miller J. C. Miller John Rhaids John Rhaids Stahl & Strauss	Columbia City	Soda. Apple Cider	Benzoate of soda.
96 .	John Rhoids	Columbia City	Apple Cider	Benzoate of noda.
48	John Rhards	Columbia City	Cherrysip	Benzoate of soda and saccharin.
43		Columbia City	Soda	Saccharin and colored.

MISCELLANEOUS FOOD PRODUCTS.

JELLY-LEGAL.

Lab	Manufacturer or Retailer.	Where Collected	Artiele.	Polari	ation.	Glucose.	Sucrose.	lavert Sugar	Preservatives.		
No		n gere Collectes	. 	Direct.	Invect.	viiduse.			Sac- charin.	Benzoste.	Salicylie Acid.
13242 13552 13553 13628		N. Manchester N. Manchester	Fruit jelly Apple Ourrant	+116.0 -13.0 +100.4		62.12 53.34	7,21 4.96 7.06	Trace 55.6 Trace	0 0 0	0. + .038	0 0 0

JAM-ILLEGAL

Lab No	Manufacturer or Retailer.	Where Collected	Article.	Benzoute of Soda.	Remarks.
14877 14878 14879 14890 14881	Wm. A. Mueller Wm. A. Mueller Wm. A. Mueller	South Bend.	Raspherry Red Currant Red Cherry	0.18440% 0.18052% 0.20488%	Labeled 1-10 of 1% because of sods.

OLIVE OIL AND SALAD DRESSING.

FLOUR-ILLEGAL

Lab. No.	Manufacturer or Retailer.	Where Collected.	Nitrites.	Remarks.
15114 15444 15445 15446 15462 16052	Anna Wickersham C. G. Carpenter C. G. Carpenter Wm. Flwamer N. G. Dixon. Jesse Copper	Richmond Richmond	Present	Bleached, Bleached, Bleached

BAKING POWDER.

Lab. No.	Manufacturer or Retailer.	Where Collected.	Available Carbon Dioxide.	Remarks.
13099 13569 13570 13965 15583 15692	T. H. Bryant. P. Van Derweel. Grostnan & Son. Dr. Peyton. Wm. Warner. Wm. Warner.	Knox Knox Jeffersonville Summitville	8, 42% 5, 77% 12, 31% 9, 81% 14, 14% 12, 87%	Below standard. Below standard. Pure. Below standard. Pure. Pure.

Lab. No.	Manufacturer or Retailer.	Where Collected	Butyro @20°C.	Specific Oil.	Cotton- reed Oil.	. Remarks.
13542 13929 14054	Brookmeyer & Son Montani & Co	Goshen, Indianapolis Hammond	64.2 70.2 70.2	.9125 .9137 .9126	None None Present.	

MISCELLANEOUS FOOD PRODUCTS.

Lab. No.	Manufacturer or Retailer.	Where Callected.	Name of Article.	Remarks.
14859	Mooney J. R. Glouckenous C. G. Stumpp J. T. Thomas	Washington.	Peanut Butter Ite Cream Fluff, Freezon Pickle Canning Compound	Butyro = 65.2%, Starch present, No Sulphites, Boric Acid 97.2%,
15751 15755 14699 15763 15805	E. H. Done H. L. Sharp. W. H. Morris Delaney Crothersville Canning	Delphi Terre Haute Delphi	Pariait Powder Plum Pudding	Gum Arabic. Starch.

CANDY.

IAb. No.	Manufacturer or Retailer.	Where Collected.	Name of Article.
14958 14959 14960 15110	W. E. Musser J. N. Luoas J. N. Lucas A. B. Newhunney A. B. Newhunney	Freedom. Preedom Freedom Terre Haute Terre Haute	Chocolate, Coated. Chocolate. Chocolate. Chocolate Drops. Coconnut Bonbous.

EXTRACTS-VANILLA-LEGAL

No	Manufacturer or Retailer.	Where Collected.	Vanillin.	Total Extract.	Surrose.	Extract Not Sucrose.	Lead Acetate Precipitate	Remarks.
13564	n. treasury	Indianapolis So. Whitley So. Whitley Wabash	0.3232 0.1252 0.1768	9.69 17.52 7.78 10.16 9.39 14.96	4,98 8,06 0,44 4,98 6,47 8,53	3.71 9.46 7.34 5.18 2.96 6.43	Heavy Heavy Heavy Heavy Heavy Heavy	Pure. Purc. Pure. Pure. Pure. Pure.

LEMON-LEGAL.

Lab. No.	Manufacturer or Retailer.	Where Collected.	Specific Gravity 20°C.	Alcoholic Volume	Color.	Per Cent. Oil.	Polarization. Reading.	Remarks.
13956 14618	J. W. Danhour. W. C. Dunean H. A. Jackson Bement Ren. Geo. S. Green. M. E. Robbins H. E. Robbins H. Hibman. W. R. Anderson Big Four Pharmacy Heitman Bros.	Clay City. Clay City. Indianapolis. Terre Haute Aurora. Mishawaka Ssite City. Lyons. Terre Haute Holland. Holland	.9335 .8532 .9480 .9327	90.0 48.1 85.0 48.5 83.7 37.9 84.9 45.7 43.9 55.1	Natural Natural Natural Natural Natural No Artificial No No No No No No	6.82 5.06 0.18 5.93 5.87 0.00	15.6 28.8 21.2 16.2 0.19.0 10.4 18.8 00.0 0.1	Labeled "Tr. Lemon Peel." Colored but labeled properly. Pure. Labeled "Aichohl 85%." "Lemon Flavor Compound." Pure. "Turpeniess Lemon." Pure. Labeled properly. Labeled correctly. Fure.

EXTRACTS-ILLEGAL

lab. No.	Nanufacturer or Retailer.	Where Collected.	Artiele.	Specific Gravity 20°C.	Alcoholic Volume.	Per Cent. Oil	Polarization Reading.	Remarks.
15240 : E	erome Rogle erome Bogle L. E. Douglass. ames H. Eahen	Hilkdale	. NZAW berry	9523		0 59	0.2	Not labeled correctly. Not labeled correctly. Artificially colored. Misbrauded and below stand- ard.

RESULTS OF FOOD ANALYSES.

Article Examined	Legal.	Illegal.	Total.	Per Cent. Adultera- tion,
emperance beer	22	0	22	0.0
Severages	169	158	327	48.2
inegar	58	27	85	31.7
andy	5	ō	85 5 3	0.0
Dlive oil	3	ė i	3	i őlő
Extracts—Lemon	12	: 0	12	0.0
anilla	-6	ă	-6	0.0
Extracts Miscellaneous	ň	4	4	10.
egetables	13	Ō	13	0.6
anned fruit	- 4	i i	- 5	20
Saking powder	7	Ō	5 7	- Õ.c
lour	ń	. 5	Š	100
feat.	ă	ĭ	ĭ	100
3m	4	ī	ā	20.
eliv	ā	i á i	ă.	i őir
laple Sugar	Ī	3	10	33.
Iaple syrup	39	8 1	47	17.0
)vsters	ñ	' Ă'	4	100
ard	22	(<u>4</u>	26	15.4
Veiner wurst	6	13	ĪŠ	68.1
iverwurst	ä	2	- 5	40.0
lusage	3 28	30	58	51.
Iamburger	26	9	58 35	25.
Bologna	Ŏ	. 5	5	100
ce cream,	111	70	181	38.0
Suttermilk	2	ă	~2	0.0
	59	i 1š	74	20.3
Sutter	ลี	7	13	53.8
ream	26	12	38	31.3
dilk.	328	65	393	16.3
discellaneous.	ě	Õ	ğ	0.0
		444	1.423	30.

DRUGS.

But few samples of drugs have been analyzed during the last six months because it is apparent that the adulteration of these products is decidedly less than heretofore, and is confined chiefly to goods which deteriorate on standing. In some instances, as in the case of spirits of camphor, where a high per cent. of adulteration is still noted, it is apparent that the druggist continues to misinterpret the instructions given in the pharmacopoela, and instead of making up his spirits by dissolving 100 grams of camphor gum in alcohol and making up to a litre, dissolves the proper amount of camphor gum in a litre of alcohol, thus producing a spirits which runs about 10 per cent, low in gum content. There can be no excuse for continuing the adulteration of tincture of lodine and tincture of iron. Of the 150 samples analyzed, 100 are pure and 50 adulterated, thus showing an adulteration of 33.33 per cent.

Little or no violation of that section of the law which regulates the amount of alcohol or inhibited drug content to be stated on the label has been noted. While the drug trade feared that this section would work a hardship upon it, yet the employment of corrected labels has apparently made it possible for the druggist to label his goods properly with no greater trouble than before the law became effective.

LIME WATER-LEGAL

Lah No	Manufacturer or Retailer	Place of Collection	Per Cent C. S. P.
14017 14021 14973 14977 14982 14988 14993 14998 15008	No Madison New York	117.8	
	LIME WATER-IL	LEGAL	
14035 15003	W. H. Roches V. Niedbalski	Madison South Bend	9.4 68.4

STA	ATE BOARD ()F H	EAL	 TB.		www.			181
	TIN	CTUR	E OPI	UM—CAB	PHORA	TED.			
Lab. No.	Manufacturer (Retailer.)ŧ		ace of ection.	Specific Gravity	Alcoho Volum	2	eohol on abel.	Opium Per Fl. Os.
13627 13639	F. W. Thomas Marshall Casper				1.				
	1	ENCTE	JRE F	ERRIC C	HLORID	É.			
Enb. No.	Manufacturer o Retailer.	ır		ace of ection.	Specific Gravity	Alcoho	21.	coha! on abel.	Per Cent U. S. P.
13157	J. P. Riley		Paoli		.9767	65.	1	62.0	10
		TINCT	URE (OF IRON	—LEGAI	L.		· , ;	
Lab. No.	Munufacturer or Retailer		ee of	Specific Gravity, 20°C.	Alcohol, Volume.	Alcohol on Label.	Sodium Sulphite.	Per Cent. Fe.	Per Cent. U S. P.
13463 13468 13472 13476 13479 13485 13490 13490 13494 13497	T. W. Hollenbeck. Millikan Pharmacy T. H. Carter. Waddell & Walter- house. W. H. Burget. Schwankhous. J. M. Scott. L. A. Gable. F. Erdelmeyer. S. Muhl. Pfafflina.	India India India India India India India India	napolis rapolis napolis napolis napolis napolis napolis napolis	1.0075 1.0130 1.0097 1.0075 1.0366 1.0191 .992 1.0154 1.0062	58.1 56.2 49.5 55.1 58.4 53.8 56.6	62.0 62.0 62.0 70.0 62.0 62.0 62.0 62.0 62.0	18.0 18.2 19.9 18.6 19.1 19.8 19.6 18.0 19.4 18.3 19.9	4.5 4.5 4.9 4.6 4.7 4.9 4.5 4.9	5 100 7 108, 5 101, 7 104, 5 108, 0 107, 75 100, 5 105,
	7	INCT	JRE O	F IRON-	-ILLEGA	L.			
13089 13465 13481 13483	G. G. Graham James Mead H. O. Atchison L. S. Stockman	India:	reburg napolis napolis napolis	. 9432	46.6 68.2 59.6 63.3	62.0 62.0 62.0 62.0	$\frac{12.6}{17.5}$	4.0 3.2 4.4 4.1	0 6 9. 0 96.
	s	PIRIT	S OF (CAMPHO	R—LEGA	L.			
lab. No	Manufacturer or Retailer.	Plac Collec		Specific Gravity @20°C	Algohal Volume	Alcoho on Label	Za R	lari- tion end- ng.	Per Cent. U. S. P.
13581 13682 13808 14079 14079 14091 14506 14515 14521 14523 14630 14951 14951 14965 15003	H. R. Koffel Bownan & Watson Geddes & Harding B. F. Fendig A. F. Lone. J. A. Laich Taylor & Roth C. H. Drybread Agnes Druz Co Laum & Gift Schiffer & Co Wm. H. Reeves O. C. Bastin Nicholas Schiffing V. Niedbalski. Meyer Drug Schiff Meyer Drug Schiff Meyer Drug Schiff Meyer Drug Schiff	Gary. Butler Renss Renss Renss Rdinb Frank Conve Misha Freed South South	elaer elaer elaer urgh iin rse waka oan Bend Bend Bend	8410 5347 8362 8317 8340 8283 8307 8352 8283 8308 8576	81 4 79 2 4 81 8 82 9 81 4 84 0 83 0 81 1 79 1 74 5 65 4	86 : 86 : 17 :	0	12 1 14 1 14 9 15 3 13 0 13 1 15 1 15 1 17 5 86 86 86 86 31 3 0	160. 110. 124. 126. 130. 160. 168. 169. 124. 106. 1145. 160. 180. 1106.

lab. No	Manufacturer or Retailer.	Place of Collection	Specific Gravity @20°C	Algohal Volume.	Alcohol on Label	Polari- zation Rend- ing	Pet Cent. U. S. P.
13581 13682 13808 14076 14079 14081 14506 14515 14521 14523 14830	H. R. Koffel. Bownan & Watson Geddes & Harding B. F. Fendig. A. F. Lone. J. A. Lajch. Taylor & Roth. C. H. Drybread. Agnes Druz Co Laum & Gift. Schilfer & Co.	Knox Gary Butler Rensselaer. Rensselaer Rensselaer Edinburgh. Franklin Converse Mishawaka	8410 8347		86.0 86.0 86.0 86.0	12.0 13.0 13.1 15.1 12.8 13.5	100.8 116.6 124.1 126.6 110.8 100 108.3 109.1 124.6 106.6 112.5
14951 14981 14985 15001 15916 16080	Wm. H. Reeves O. C. Bastin Nicholas Schilling. V. Niedbalski Meyer Drug Store, Chas. Coonley & Co	Freedom South Bend, South Bend South Bend South Bend South Bend	8433 8722 8325	91.1 79.3 74.5 65.4 78.9	17.5 88.0 96. 99.	17.5 96. 86. 13.3 12.0	145.8 106.6 180.0 110 100

13592	F. A. Green Knox	8305	81.9	98	10.5	87.5
13829	Marshall Casper. Winar	par 8283	85.5	96.	10.0	83 3
13634	Smith's Drug Store Wipar		77.3	66	8.6	71.6
13669	M. O. Beek Albior		83.6	86. :	10.9	90 A
13677	Hall's Pharmacy. Gary.		80.8		11 7	97.5
13878		8270			9.3	77.5
13661	Gary Prormacy Gary.		83.6 75.1	86.	8.8	73.3
13805	Stone's Drug Store Butler		84.0		11.4	95.0
13998	W. F. Peters Madis				8.4	70.0
14018	Gibson & Reidel . Madis		84.7		11 7	97.5
	J. E. Harper Co Madis				11.7	97.5
	H. Rogers Madis				11.5	93.8
14500	C. E. Crecelius New /				4.5	37.5
	Dr. Rush Owens		43 5		4 1	34.1
14969		Bend 8300	8ĭ.ĭ	85.0	11.3	94 1
14978	Wood & Strieble. South	Bend 8280	79.3	98.0	9.4	78.3
14990	W. M. Patterson . South		80.	86.	11.0	91.6
	Central Planmacy South		80.4	86.0	ii i	92.5
	H. E. Freehaler South	Bend 9692	67.5	86 :	10.8	90.0
	White's Pharmacy South		78.9	QU.	10.9	90.8
			(0.9			88.3
15554	White's Pharmacy South	Bend 8357			10.6	00.4

TINCTURE OF IODINE-LEGAL.

Lab. No.	Manufacturer or Reta.ler.	Place of Collection.	Grams Iodine Per 100 c.c.	Per Cent. U. S. P.
3674	H. D. Stone	Albion	7.15	104.3
3904	Stone's Drug Store	Butler		105.0
14019	G bson & Reidel	Madison		100.5
4022	L. E. Harper Co	Madison.		153 7
14023	W. H. Rog rs	Madison	المدارين	101.6
14028	Shore & Wilson	Fochester	. 7.15	104.3
14080	J A. Larsh	Renselaer		101.6
4725	Owl Drug Store	Bedford		99.41
14736	Dodd & Douthitt	Bedford	7.14	104.07
1478)	A. F. Long	Re selaer	7.59	110.64
14890	Simon Herr	Brazil	7.41	109, 17
14970	Chas. C. onley & Co	South Bend	7.31	106.57
14974	Wood & Strieble.	South Bend	7.11	103.70
i 2979	Otro C. Bastion	South Hend		102.82
14934	Central Pharmacy	South Be d	7.17	104.59
14999		South Bend	8.17	119.09
15004	H. E. Freehaffer,		. #.98	101.83
.009	White's Pharm cy	South Bend.		99 63
150:4	Meyer Drug Store	South Bend	. 7.15	104.22

TINCTURE OF IODINE-ILLEGAL. B. E. Miller. M. C. Beck. C. F. Miller. Albion 92.5Beck... Miller 92.5 82.0 85.6 26.4 85 64 86 81 Butler Newb 14040 M Raches B. F. Fendig A. F. Long Mutz & Lynch Ag ess Drug Co ensselacr. 68.8 97.6 98.5 77.7 47.19 97.01 89.87 88.18 96.88 89.36 52.12 92.84 Rensy-lage .70 .70 .63 .01 .14 Edinburg. Onverse 6 Laun & Gift. Dodd & Douthitt Laun & Gift. Schiffer & Co. Converse 3.14 6.72 6.16 6.05 8.65 6.13 3.57 6..7 Converse 14831 Mishawaka South Bend N. Schilling. W. M. Patterson. South Bend Stark Yazel Shel urn... Elnora . Hymera Wirt Cummins

AROMATIC SPIRITS OF AMMONIA-LEGAL.

Lab. No.	Manufacturer or Retailer.	Place of Collection.	Specific Gravity 20°C.	Alco- tiol Vol- ume.	Alco- hol on Label.	Polar- ization 200 m.m. Tube.	Color,
13916	Henry Tepe	Evansville.	8975	61.1	66.4	+3.2	
14972	C. Coonley & Co	South Bend.			66.0		Coloriess.
14975	Wo d & Strieble .			52 4	70.0		
	Nicholas Schilling.	South Bend.	.9057	59.3	65.4	+1.3	St. Brown.
14992	Wm. M. Patterson.	South Band.	. 8970	62.3	64.6	+3.3	Sl. Brown.
14 96	Central Pharmacy.	South Bend.	.9003	56.2	- •	+2.8	Brown-Yel- low.
15002	V. Niedbalski	South Bend.	.8940	62.9		+3.4	Very Yellow
15006	H E. erechiffer	South Be d.	.9015	61.1	70.	+ 8.5	Brownish.
15011	White's Pharmacy	South Bend.	9070	56.1		+ 2.0	Very Yellow
15018	M. M. Veyer	Sou h Bend	9030	57.7	70.0	3.0	Brown Colorles .

AQUA AMMONIA.

Lab. No.	Manufacturer or Retailer.	Pla e of Collection.	Per Cent. Ammania by U. S. P. Method.	Specific Gravity 20°C.	Remarks.
14781	A. F. Long	Rensselser	8.19	.9654	Below standard.
15287	Chas. Mason	Duggar	8. 97	.9635	Below standard.
15610	McKissick Drug Co.	Hymera	6.66	.9720	Below standard

PAREGORIC.

lab. No.	Ma ufacturer or Retailer.	Place of Collection.	Specific Gravity 20°C.	Alcohol Volume	Acohol on Label.	Grains Opium per fl. oz.
13665 13666 13674 13676 13679 13680 13683 14029 14041	B. E. Miller. W. C. Beek H. D. Sto e Hall's Pharmacy Brennan & Stringfelow Gary Pharmacy Borman & Watson. Shore & Wil on. S. M. Newby	Albion Albion Gary. C.ty Gary Gary Rochester		40.5 40.9 44.1 35.3 42. 40.9 39.8 38.7 39.3	None 46.5 46.5 None None 46.5 46.3 44.9 46.5	None. 1.9 1.9 None. None. 1.9 1.9 1.4

TINCTURE OF MYRRH.

Lab. No.	Manufacturer or Retailer.	Place of Collection.	Specific Gravity 20°C.	Aloo- hoi Vol- ume.	Alco- hol on Label	Grams Extract per 100 c.c.	Grama Aah per 100 c.c.
13090	E. M. Henderson	Brownsburg	.8342		None.	5.213	.015
13462	I. W. Hallenbeck	Indianapolis	.8475	8.9	95.0	6.431	.015
13486	Jas. Mead	Indianapolis	.8387	83.1	90.0	4.673	.018
13467	Millikan Pharmacy.	Indianapolis	.8425	83.1	None.	5.542	.058
13470	J. C. Clark	Indianapolis.	.8345	85.0	90.0	4.867	.018
13473	T. H. Carter	indianapolis.	8282	87.3	90.0	3.050	.013
13475	Waddell & Walter-						_
	house	Indianapolis.	.8287	87.3	90.0	3.556	.008
13478	W. H. Burget	Indianap lis	.8390	82.2	80.0	3.878	.015
13486	H. Schwankbous	Indianapolis.	.8315	85.0	None	4.093	.012
13487	J. M. Scott & Son	Indiana polis	.8374	83.1	95.0	6.059	016
13489	L. A. Gable	Indianapolis	8513	79.0	90.0	6.845	.062
13493	F. Erdelmeyer	Indianapolis.		83.8	90.0	6.025	.008
13495	S Muhl	India apolia.	8395	84.5	None.	5.593	008
13498	Pfufflins	Indianapolis	.8406	83.6	0.0	6.059	.001

DRUGS-MISCELLANEOUS.

Lab. No	Manufacturer or Retailer.	Place of Collecti n.	Articles Examined.	Remarks.
13782 13873 15029 15657	Jas. M. Dinnen Brought in by Zigerie & Co. Dr. W. F. Schweir. Mrs. E. Douglass	Huntington. Knox	Linseed Oil.	Filtered oi ; adulterated. No metallie poison.

RESULTS OF DRUG ANALYSIS.

Article Examined.	Legal.	Illegal.	Total,	Per Cent. Illegal.
Lime Water. Tincture of Opium, Camphorated Tincture of Ferric Chloride. Spirits of Camphor. Tincture of Iodine Tincture of Iron. Aromatic Spirits of Ammonia. Aqua Ammonia. Paregoric Tr. Myrch Druge, Misc.	9 14	2 0 0 21 18 4 0 3 0 0	14 2 1 38 37 15 10 3 9 14	14.2 0.0 0.0 55.2 48.6 26.6 0.0 33.3 0.0 0.0 28.5
	100	50	150	33.33

TESTING COWS FOR TUBERCULOSIS.

A. W. BITTING, M. D., STATE VETERINARIAN.

Last year nearly 13,000 cows were tested for tuberculosis in this State. Official tests were made on 8.720 head in Lake, Porter and adjoining counties. Ft. Wayne tested nearly 1,300 head, 1,000 other official tests were made in various places and the remainder were conducted in private practice. The 8,720 cows in the northwest section were divided into 560 herds and 757 reacting animals were found in 268 herds. The percentage of reacting animals was 8.6 or lower than might have been expected, but the percentage of infected herds, 48 per cent., was very high. This condition is to be explained upon the basis that the section is comparatively new as a dairy center, that frequent exchange has been made of the cows and many purchases made from the stockyards. At Fort Wayne only 17 per cent. of the herds were found to be infected, but 10 per cent, reacted. This probably more nearly represents the conditions found throughout the State.

The tests in the northwest section of the State have a special value in that they include nearly the entire bovine population of that section. In 185 herds, or ene-third of those tested, there were only one or two reacting cows, a total of 245 head, or just one-third of the entire number of reactors. These herds could have been freed from disease by sale or slaughter at little sacrifice to the owners, and instead of only 52 per cent. of the herds being free it could be easily increased to 85 per cent. the first year. The 20 herds having the highest number of reactors had 262 diseased cows or more than the 185 herds. These highly infected herds had been kept together for a long time or had been made up to a large extent from purchases at the stockyards. They serve to show what may be expected to occur in the other herds unless some measures are taken to eliminate the infection.

The last locality at which testing was done, out of 490 cows tested, 285 reacted, 111 were slaughtered and 30 condemned as unfit for food. An even more startling record than this was found. A man took 25 hogs to market, and upon slaughter and federal inspection 23 were found to be diseased with incipient tuberculosis, 4 were condemned as unfit for food. An inspection of the premises was made and a suspicious looking steer killed and well developed lesions of tuberculosis were found. Seven head of cattle were tested and 10 hogs, 4 of the eattle and 5 of the hogs reacted. The family cow, two of the hogs and some apparently sick shoats were slaughtered and all had clear cases of the disease. At this time there were 25 head of cattle and 200 hogs on the farm. Later 164 of the hogs were unlawfully sent out of the State, and upon inspection the following record is obtained: One packer bought 132 head and 130 were diseased, 61 being condemned; another packer bought one and it was condemned; 15 head were reshipped to one point and 8 condemned, and 16 became mixed with another lot and the record lost. Later 13 head of cattle were taken to market for slaughter. 3 were killed and found to be diseased and the butcher refused to kill the remainder. The 10 remaining head and one other were then shipped to another point and on post-mortem 6 were found to be diseased. Still later other eattle were shipped, 7 of which were found to be diseased and 4 were condemned. The inspector visiting the premises reported that the chickens were diseased: the owner has died since the trouble began and the statement is given that the cause was "throat trouble." There are still other chapters to be added to this record.

One of the results of the testing during the past year has been to develop a good economical system. The usual method of taking temperatures for a period of forty-eight hours, limited the work to small numbers and made the cost amount to from one to three dollars per head. It was found that the work can be done in one day, and that the cost need not exceed 30 cents per head. Two men can test between 200 and 250 head per week. Upon this basis, a city the size of Lafayette could test all the herds furnishing its milk

supply in a few weeks and at a cost not to exceed \$300.

The law enacted by the last legislature provides. that any dairyman may have his herd tested at actual cost. In the event diseased cattle are found he has three options: 1st. To prepare the affected animal or animals for market and to sell subject to post-mortem examination. The federal rules and regulations shall govern the inspection. If the animal passes as fit for food he receives its market value; if it fails to pass, he can recover only the value of the hide, and body as fertilizer. 2d. He can retain his cows for dairy purposes provided the milk be pasteurized in a manner approved by the State Board of Health. No animal showing any physical evidence of disease can be used in such manner. 3d. He may retain valuable breeding stock for breeding purposes under conditions approved by the State Veterinarian. The State makes no compensation for diseased animals except when condemned by the State Veterinarian. In the case of tuberculosis, he must quarantine and give the owner a choice of one of the three options.

Indiana has a good law, much better than most states. By the enactment of local ordinances, most of the cities could have a tested milk supply in a very short time. The season in which to do the work is at hand, and will continue until about April 1.

PURE FOOD AND HEALTH LAWS.

Not a few of our laws are resultants of our complex civilization, which certainly tends toward higher complexity. Among such laws are those which have for their object the protection of the public health. and the protection of the food supply against adulteration. Within the memory of living men, such a thing as food adulteration was unknown. In pioneer days, feeding was simple and more rational than in these times. Then, families sat down to tables which were supplied with pork and beans of home production, to corn bread, apple sauce, chickens raised naturally in woods and fields, to milk and butter produced from non-tuberculous, non-swill fed cows, which stood almost at the kitchen door; doughnuts, hot from the sizzling lard; pumpkin pies made from pumpkin which had not been coffined for months; hominy made in the very room in which it was eaten. instead of being taken from a can filled in a frame shed somewhere and called a canning factory. And what delicious flavors were attendant upon all of these articles. With what joy did they salute the gustatory nerve, and how gratefully they were received by the stomach.

But these days are not necessarily gone, for even now it is not required to live the canned life. The city cliff dweller finds the canned life handy and con-

venient, and lives it at the cost of the good health and superior enjoyment which attend simple and more natural nutrition. If he would supply himself with a "fireless-cooker," and in the evening before retiring would start his plain breakfast in it, he would in the morning have food which would give him superior gustatory pleasure, a clear head and abundant energy. Instead of a simple rational breakfast, our cliff-dweller has embalmed hog, better known as ham and bacon, or highly spiced sausage, or beefsteak from a tuberculous animal or from an animal slaughtered and its meat kept under the most revolting conditions. Eggs, most always from cold storage, are added, and all is washed down with black coffee. Such a breakfast is not a balanced ration. It makes too much soot and ash and so clogs the furnace grates and the boiler's thies. Clearness of head does not attend, and kidneys and liver suffer from overwork in clearing away the debris. In time, Bright's disease appears, and the victim wonders where it came from, was I selected to have this malady?" he asks. Eat plain, unembalmed foods, cooking them well. Potatoes, rice, hominy, vegetables, fruit, cornmeal, well baked whole-wheat flour bread, milk from healthy animals and a clean dairy, fresh eggs or none. What more can one want? Darwin, Spencer, Pasteur, lived entirely upon such food, and they did some good work too. A gentleman of my acquaintance was one time a guest of Darwin's on his farm in Kent. For supper, bread and milk was offered; nothing more, and no apology. Darwin's work was certainly worth a million times more to humanity than the work of Harriman. Rich, highly spiced foods, catsup, pickles, fancy cooking, much meat, are all hard on kidneys and livers.

Excessive use of salt is injurious. The blood and the body need only a very little salt. A man weighing 150 pounds contains only a little over one ounce. We all eat a great deal more sait than is for our good. Certain forms of stomach troubles are caused by excessive salt eating. If your stomach hurts, try cutting out salt, salads, pickles, catsups and meats and chew your plain foods extra well. You will find this treatment has the pepsin and drug treatment skinned a mile. Well, the whole lesson is-pure food laws are needed principally because we will not eat rationally. It is the same with health laws. We need health laws because we refuse to live according to the natural laws of our well-being. We have consumption, because we spit, because we just will not thoroughly ventilate our school rooms, our bedrooms, our offices, our churches and our public halls. We ride in closed trolley cars and breathe the fetid air which has already been down into the lungs of others, we heave in alcohol and meats and spices, and fray our nerves with caffein. Old Solomon said: "Be ye not among wine bibbers, among riotous eaters of flesh,"

We have typhoid fever, and spend enough on it annually to present every member of the legislature and each doorkeeper with a red automobile, just because we will not dispose of human and animal manure in a sanitary way. Sir Frederick Treves, King Edward's physician, who has grown rich and great off disease, has said: "When simplicity and frugality of living is achieved, voluntary celibacy will become discreditable, and the premature deaths of the breadwinners will disappear before sanified cities and vanishing intemperance."

A MODEL REPORT: We take great pleasure in publishing the following special report made by Dr. Simon J. Young, County Health Commissioner of Porter County. It is a model, and we commend its form to other County Health Commissioners:

"I herewith submit my special monthly report for September, 1909:

The following health notice was inserted in the daily and weekly papers:

IMPORTANT HEALTH NOTICE.

Scarlet fever and diphtheria are prevalent and increasing. In fact, we are confronted with the conditions for a serious epidemic, so widespread and numerous are the centers of infection. Two things are necessary to stamp out these maladies—strict quarantine for a sufficient length of time, and thorough fumigation following every case.

I am constantly importuned by those under quarantine to be released or to be allowed special privileges.

By those who are not under quarantine, we are sometimes criticised for not drawing the lines tighter.

The purpose of this notice, therefore, is to define my position in the matter; and I, therefore, give notice that quarantine must and shall be enforced in every case alike. No one shall be exempt, and, if necessary, arrests will be made to enforce the law.

Whatever may have been the custom in the past, we are living in an age when it is a public disgrace to have epidemics. The undersigned is the steward of the public bealth; and the law is designed to afford protection to the general public, and so long as I am entrusted with that stewardship I will make an effort to discharge it faithfully.

To that end I ask the co-operation of every citizen. Every known violation will be reported to the prosecutor, whose duty it is to cause the arrest and punishment of the offenders.

September 24. Attended meeting at Central School building. Law was explained and co-operation urged to enforce quarantine.

September 28. Letters were sent to each physician in the county, asking that they observe reasonable precautions in visiting infectious diseases in conformity with Rule 12 of the State Board.

Simon J. Young, County Health Commissioner."

THE REASONING OF THE MASSACHUSETTS SUPREME COURT.

A young man chooses medical science as his life work. He prepares himself in the schools. complies with the requirements of the law governing the entrance to practice. He now has duties to fulfill—to the state, to his patients and families and to His first duty to his state is to medical science. completely obey its laws. Disputing their justice and constitutionality if he thinks best, but still obeying them until repeated or nullified by the courts. His duties to his patients and his families are not fulfilled until he has obeyed fully the laws upon which he leans for protection. The law commands him to report the deaths, births and infectious diseases which come under his professional supervision. Not to do this, marks him as a violator of law and as not performing all of his duties to his patients.

The argument closes as follows: The decision of the lower court is sustained. The appellant did not completely fulfill his duties to his patient. He is not entitled to a fee.—Exchange.

MAINTENANCE OF UNFORTUNATES.

Reports show that the people of Indiana spent \$3,341,454 last year to maintain unfortunates. The average annual expenditure for this purpose has been over \$3,500,000. Now the question arises: Is it not possible to prevent having so many unfortunates? It certainly is possible. But how? It is known that sickness causes poverty, chronic invalidism, mental incapacity, and quite all of the qualities which make unfortutnates. Of course, other causes also create unfortunates. As for sickness, hygiene stands ready to reduce it materially. This science teaches that fully 30 per cent, of all sickness endured is unnecessary. The people should open their ears and minds to the truths of hygiene, and when these truths are understood then apply them practically to every day life. For instance-30 to 40 per cent, of all orphans (unfortunates) are created by consumption. sumption is a preventable disease and is curable in its beginnings. Why then not prevent consumption and not permit it to slay mothers and fathers and thus make so many orphans. It is cheaper to prevent than to have or to cure. So money is to be made by practically applying hygiene, besides gaining strength and happiness.

The effort of the State Board of Health to save life, to save money and to promote happiness through practical hygiene, are frequently laughed at, and the board called cranks. If this ignorant attitude were abandoned, and a desire to know, to understand, and to be practical in this matter, were substituted, then incalculable advantages would be gained.

DRUGS AND HEALTH.

Why do we take drugs? Because we are sick. Yes, but why are we sick? Is sickness due to right living or to wrong living? Are we sick because we obey the laws of health or because we disobeyed them? Paregoric relieves (it doesn't cure) green apple colic in the boy. Is eating green apples a sensible act? Pepsin and bismuth relieve (they don't cure) indigestion. What causes indigestion? Is it the result of eating proper food in proper amount in the proper way? Or, is it the result of eating improper food in improper amount in an improper way? If the latter, why do it? Is it our large amount of common sense which leads us to it? What is good for a cold? Syrup of wild cherry, syrup of squills and paregoric mixed together make a "good cough medicine." Yes, but why overeat and breathe bad air and so make a cold You don't have to over eat and you don't have to breathe foul air. Just observe closely the next time you have a cold and see if it did not follow a big feed and close confinement in an unventilated room. Live on plain, well-cooked, well-chewed food, breathe pure air, be temperate and you will never have a cold, pneumonia or other diseases of the breathing organs. We don't have to have colds and then take squills. paregoric and wild cherry to cure (1) them. whole business is simply evidence of our impracticability, of our foolishness. What drugs are good for (relieve) constipation? Salts or cathartic pills, of course. Yes, but why eat spices, why eat ham, bacon. highly spiced sausage or other embalmed flesh and constipating foods in such large quantities? Why neglect nature and engender constipation? Is it wisdom that makes constipation? Yea truly-An ounce of prevention (right living) is worth a pound of cure.

PREVENTABLE HUMAN DISEASES NOT CONSIDERED: We notice the program of the twelfth annual conference of Farmers' Institute Workers, held Thursday and Friday. October 14-15, 1909, at Purdue University, gives some space and time to preventable animal diseases and to preventable plant diseases. It seems to us it would have been well for the management also to have considered preventable diseases of the human family. The death rate and sick rate among farmers is 20 per cent. higher than it should be. The preventable diseases and preventable deaths from which they suffer cost them more than all of their losses from insects and from animal diseases.

We hope the next State Farmers' Institute will take up to some degree, the subject of "How to prevent disease in human beings on the farm." The money saving which can be made along this line is enormous and the saving in happiness and strength is incalculable. MY DAUGHTER HAS TYPHOID FEVER: A gentleman at Saratoga, Ind., writes us as follows: "My daughter, 11 years old, has typhoid fever. She has been sick seven weeks, but her temperature is now normal and she is convalescing. My wife has been sick three days with symptoms of the same kind which brought my daughter down. I have three more children and wish to protect them if it is possible. Is there anything I can do for them to keep them from taking the same disease? What disinfectants shall be used? If there is anything I can give my family to ward off or mitigate the fever, or any disinfectants I could use, I would like to know all about it."

This is a type of letter frequently received from the people and we answer them all in about the same way. The correspondent is told there is no medicine which will prevent typhoid fever and warning is given against placing faith in medicines. We endeavor to make clear the fact that typhoid fever must be prevented and there is really little or no excuse for having it. Each correspondent receives a circular telling about the prophylaxis of typhoid fever, and opportunity is taken to enlist the correspondent in public health work and this is generally secured. The time to secure recruits in public health work is when the expense and misery of disease is brought home to the individual. We will probably learn some time not to put such unreasonable faith in medicines and turn to prevention.

* * *

HEALTH WORK IN GRANT COUNTY: cently Dr. O. M. Davis, County Health Commissioner of Grant County, called a meeting of all health officers and deputies and had a conference in regard to public health work. The following officers were present: J. E. Derbyshire, Van Buren; C. E. Vance. Gas City; J. T. Anderson, Swayzee; C. J. Overman, Marion; E. Trent Stout, Upland; W. M. Warren, Fairmount; and J. S. Whitson, Jonesboro. Davis explained carefully the rules governing health officers in corporations and he especially dwelt upon the necessity of carefully recording births, deaths and contagious diseases. He said the collecting of vital statistics was the first and most important duty of the health officer. In discussing improving sanitary conditions, Dr. Davis quoted Governor Marshall, who said in a speech, "Cleanliness is essential to Godliness." The quarantining of infectious diseases was gone over in all its phases. Disinfection was thoroughly discussed and the rules of the State Board of Health directing the specific processes of disinfection were read and studied. Each city and town health officer was made a deputy county health commissioner. This gives him jurisdiction beyond the corporation lines of his city or town. It was decided to hold such a meeting every month with the county health commissioner in the chair, for as the resolution stated, "in order to compare notes and discuss matters pertaining to the care of the public health."

* * *

WHAT A DENTIST IS DOING: Princeton, Indiana, has within its walls a live dentist. This live man has organized the dentists of the city and has instituted, without expense to the people, the important work of inspecting the teeth of school children. At the Lowell building in one day the teeth of sixtyeight children were examined and of that number only seventeen had sound teeth. The teeth of the remaining fifty-one were decayed more or less, and they will be repaired. The teachers are showing great interest in the work and instructions are being given to the children for the care of their teeth. The parents of the pupils, too, have begun to see the importance of the work, and whereas the dentists in the beginning were laughed at and the spitters on the corner joked about them, now they are being praised. However, the dentists do not care for the praise of the sidewalk spitters. This class of people cannot help onward any good cause by their praise or condemna-They are simply neutral bodies in their community, except so far as distributing disease is concerned. In that line they are positive nuisances.

Dr. J. W. Roper is the dentist who has taken the lead in this important work. He says: "I feel that dental inspection is progressing quite satisfactorily, and I am quite sure that the teachers will bear me out in the statement that free dental inspection is doing great good for the children." Dr. Roper is State Chairman of the Dental Education and Oral Hygiene of the State Dental Association. As chairman of this committee he is trying to interest dentists in dental inspection throughout the State. The dentists who are assisting Dr. Roper in Princeton are J. A. Brumfield, Dr. W. T. Dorsey and Dr. Montgomery.

What a refreshing thing it is to find citizens who are desirous of helping little children. The very desire and especially the effort itself will lift these citizens up and make them better men, and the community and the children will be benefited. This conservation of human energy by caring for the teeth of little children is a matter the importance of which cannot be exaggerated.

CHART SHOWING GEOGRAPHICAL DISTRIBUTION OF DEATHS FROM CERTAIN COMMUNICABLE DISEASES FOR SEPTEMBER, 1909.

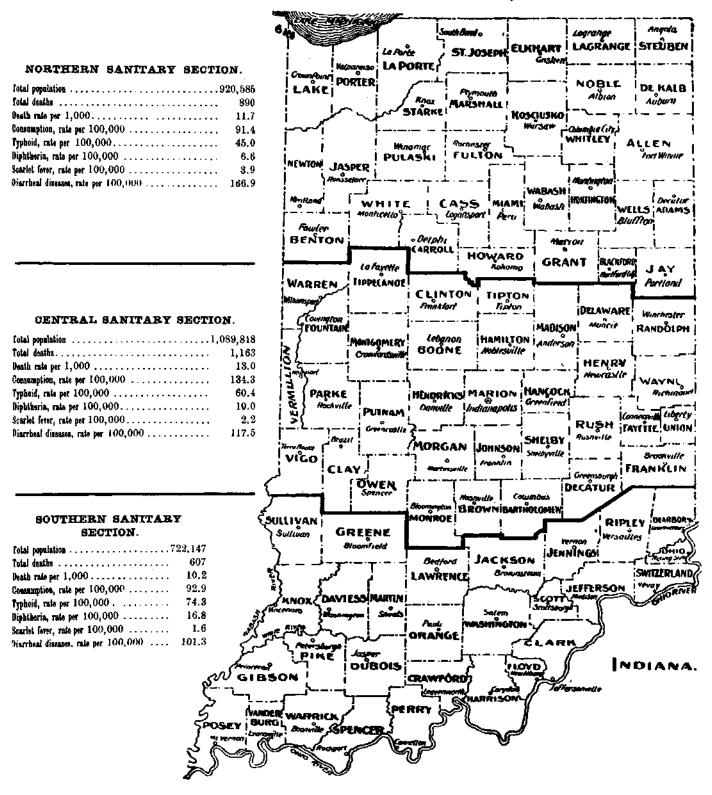


TABLE 1. Deaths in Indiana by Counties During the Month of September, 1909.

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STATE AND COUNTIES.	Population, Estimated 34 Times School Census 1908.	Total Deaths Reported September, 1909.	Annual Death Rate 1,000 Population.	Stillbieths.	Under I Year.	1 to 4, inclusive.	5 to 9, inclusive.	10 to 14, inclusive	16 to 19, inclusive.	65 Years and over.	Pulmonary Consumption	Other Forms of Tuberculusia.	Typhoid Fever.	Diphtheria.	Croup	Scarlet Perer.	Messies.	Whooping-Cours	Paeumonia.	District Disease, under 5.	Cerebro-Spinal Moningitia.	Influensa.	Puerparal Septicania.	Cancer.	Violence.	Smallpox.	Deaths in Institu-
State of Indiana	2,732,550	2,680	11.8	149	440	214	59	50	77	724	244	63	132	24	T	8	3	16	80	291	13	7		145	179		187
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Benton Blackford	12,320 16,222	20	6.9 15.0		2 8	1		1	2	1 3	1			· · · · ·					1	4					i.	·	····i
Carroll	18,868 35,231	11 37	12.8	₂	4	1	· · · · i	2	2	7	1 3	j 1	2	···i					ıi	3 2				2	3		7
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Laporte Marshall	56,007 25,067	52 22 23	10.7		10 3	2	Ţ,	ļ	2 2	17 9	2	3	···i						2	3		i	1	4	2		
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Polaski Starke Steuben	15,928 12,404 13,850	17 14	16.7 12.7	3 3	4		. 1		1	3 5	4		2							2				,,,,,,	2		
St. Joseph Wabash	13,359 72,387 28,119	78	13.1 12.1	3	18	83	1	3	1 2	12	10	3	3 2					i	1	16			i	3	4		5
Wells White	24,234 18,490	28 23 19	11.5 12.5	2	2 2 2	3	1	1		9 5	1 2								· · · i	Ž		1		1 2 3	1 2	• • • • •	
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Bartholomew Boone	26,338 24,473	22 21	10.1	1	3	j 3				· 8	1	<u>1</u>	2					,	1 2	l					3	::::	• • • • •
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Henry	19,733	26 17	13.4 10.5	1 1	5 2	3			1	10 5	1 2	I		1				1	1	4			1		1 2		
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Monroe Montgomery	27, 146	33 22	11.5 14.8	2	3 3	333		1	;-	11	3	1	2						4	3				1	2		2
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Parke Putnam Randolph	20,037 28,288	18	10.9		8 8 8	2	,	1		11	3		2						2	2 4	i			1 1			ļ:::::
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Tippecanoe	39,522 19,609	43 23	13.2 14.3	···i	4	3 2		į		16	3	1	5 2			ļ		1	2] 3				5	1 2		
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Jederson	21,969	24	13.3	2		. 2	1	ا درموند		8		i	 				<u>.</u>		1 4					i	2		
Jennings Knox	41,079	28	1.7.7	····2	5	i <u>5</u>		1		4	2	i						· · · · ·		4	• • • • •		1	i	2 2		
Lawrence	15,421	15	11.8	2	2	1			2	11	3	,	. 4	1	. .			ļ		. 4	1			1			
Onio Orange	18,592	15	9.8	1	$\frac{2}{2}$]	ļ	· · · · · · · · · · · · · · · · · · ·	 .)	1	. 1		2	·:-:		·				1 1	· · · · ·				3		
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Ripley Seott	19,393	8 14	5.0 17.5		3		· '	:	,	5	1	.ļ	1	<u> </u>	ļ			ļ	ļ	1		1		1	. 1	ļ:	
Spencer	22,998	16 35	8.4 12.9	4	8 6				2	2 5 9	1 2	2						2		2 2			ļ	11	. 1	ļ	
Switzerland	10.010	7	8.5	1	2	: ,	3	3		3 16			· · · i	3		1	1		5	. 5	1			1 1		¦ 	. (
Vanderburgh Wazrick Washington	82,589 24,482 19,768	20 17	9.9 10.4	ļ	3	2] i			10	3	i	2	1		<u> </u>		ļ	1		· · · · · ·		1	1	1		
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TABLE 2. Deaths in Indiana by Cities During the Month of September, 1909.

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CITTES,	Population Estimated Times School Census,	Total Deaths Reported September, 1909.	Annual Death Rat 1,000 Population.	Stillbirths.	Under 1 Year.	1 to 4, inclusive.	5 to 9, inclusive.	10 to 14, inclusive.	15 to 19, inclusive.	65. Years and over.	Pulmonary Consumption.	Other Forms of Tuberculosia	Typhoid Fever.	Diphtheria.	Croup.	Scarlet Fever	Measler	Whooping-Cough.	Preumonia.	Distribes Diseases, under 5.	Cerebro-spinal Meningitis	Influenza.	Puerperat Septicanis.	Cancer	Violence.	Smallpox.	Deaths in Implies.
es over 50,000 Pop- ulation	405,031	453	13.6	28	61	25 11	3	11		\$8	55 33	9	16	-6		2			18	33			2	42	40 19		1
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mond	13,821 $19,995$	10	S.S 13 4	2		1 3			1	2 2	1		1	ı						3	ı		i	2	1		
rsonville omo	12,000 12,834 20,223	16 12 33	16 2 11.4 19.4	···i	3 3	1			1	3 4 13	2	·····i	2 1 4				<u> </u>	 		1 1 2				2 5		 	
orte	10,004 16,730	17 23 18	20.7 16.7	2	14	_i	i		1 2	7 3	2 2	2							¦.	2					3		: ··
igan City	24,181 $20,000$	23	9.0 18.0	1 2	3 7				1	3	3	····i			[[• · · ·				2 2	1 5				2			:
Albany	23,118 23,005 10,517	20 20 6	10.5 10.6 6.9	2	6	2		2	3	3	2 3	2	3		i					2				Ī	2		
hmond	19,602 13,947	23 11	14 3 9.6	1 1	4	1	 	1		1	3	1							i	3				2			1
from 5,000 to	166,859 6,030	191	13.9 12.1	8	39 2 1	16	. 2	2	4	54 1	15	7	8		ļ			3	8	21 1	4		2	j2	18		-
ord	5,218 7,672 7,829	7 9	4.6 21.1 14.0		1 1		· · · · · · · · · · · · · · · · · · ·			3	1 1				i L		} }	••••	1 .						1 2		
ersville	8,827 6,114	1L 7	15.2 13.9	1	3				1	322	i		1						1	1	1			1 1	<u>.</u> .		
vfordsville	6,492 8,645	11 12	20.6 16.9	1	2 3 2	2				2 1 4	i	1		• • • • • • • • • • • • • • • • • • •				•	1	3				···i	3		
nisburg	8,711 5,288 5,789	10 8 4	18.4 8.4	i	2		, 			. 6					[l::.::			1			.,,	ï	1			
tington	9,936 6,737	11 3 7	13.5 5.4		3	2 2		L		2 1	2	1	i						1	3	1			1			. .
son	7,945 9,999 6,072	13	10.7 15.8 14.0		2	1				1 5 5	3	i	1 2					1	 - , .	2			$ \cdots i' _{i=1}^{r}$	i			
Vernou	6,394 5,593	12	22.8 6.5		2	1		1	1	1	5	····i												1	1		
lby-ville	8,246 5,771	12 3 13	6.3	-	3 1 2	2		 		2 2 5	• • • • • • • • • • • • • • • • • • •	1 ;					 			<u>.</u>				2	· · · · ·	· · · · ·	
hash	8,592 8,932 6,037	11	18.4 15.0 18.1	1 2	5 4	1				4 i							: 	2	1	1 4							
nder 5,000 Pop- i stion	134.276 2,042	165 No D	14.9 eaths.	8	29	20	4	8	2	40	13	2	I G						.	27	, - •	,		9	15		
ea	2,989 3,171	j 6 5 7	19 2		2			1		2 1 1	1		2				! :!			1 1 1	• • •					• · · ·	ŀ
fitonler Citynelton	4,375 1,547 2,033	2	19 5 15.7 6.0	1		' .		ì					2]		1		
on	4,508 3,066	13	35.1 11.9	1	1	5		1 ¦		· 1			1					ا <u>.</u> . ا		4				1	4		
atur,	1,974 4,385 1,725	7	12.3 19.4 21.2		2	i		ï		2	ì	1						- · · · · ·		1 · · · · ·					2	•••••	
phi kirk	3,874 3,909	13 3 2 7 3 4 5	12.5 15.6	i i	3				i	1	2		1												1		
City	4,273 3,465	3 8	7.0	(. 2	1	 . .			<u>.</u>		$\mathbb{C}\Sigma$		• • • • • • • • • •	 					····i							1
ngastle nfjeldtingburg	3, 174 4, 697 2, 838	8	11.5 20.7 21.4		2		1	1		3		i	3			 			.	····					1		
dalivilic. renceburg	3,906 4,249	5 7 4	21.8 11.4		2 2					3	1		1							2			,	1			ļ.,
nier	4,949 2,306 2,422	3	12.3 10.5 15.1									(1 1							
gootee tinsville hell	4,795 3,131	8	20.3 15.5	ı.		2	ı	1	1	3			ī i							2				1	.,		Į.
tpelierlesville	2,985 4,504	4 2	16.3 5.4	1	1					1	- • • • •	···				[2					1		1
th Vernon	2,957 3,304 4,924	. 3	16.5 11.0 9.9		<u>,</u> .	<u> </u>				``.ż		•											 !	1 1			.)
tland sselaer ing Sua	2,268 1,379	1	5.3 35.3		1 2	1				· · · i],,,			1							
kport	2.681 4.371	1 6	4.5 16.7		<u>-</u> -					1 4	i										· • • • • •	.,		i	i		.
i City	3.986 4,191 2,446	3 7 2 2	9.1 20.3 9.9	1	1	1		!		3	1		i i						!	1		· · · · · ·					
ion City dershure	1, 841 1,263	2	14 S 9.6							i	1		}		 				, .						. ,		
rsaw nchester	3,692 3,881		- 2 1			1					1		· · · · · ;				}			1				1	- · · · ·		

Mortality of Indiana for September, 1909.

	time.	To T	980	1						lmportar	nt Ages						D	eatha ar Popu	id Amu dation f	ad Desi rom Im	th Rate	s per 100 t Causes.	0.000	,
POPULATION BY GEOGRAPHICAL SECTIONS AND	Estimated 34 cases, 1908	Reported 1909	Rate per		Unde	er 1.	1 ta	» å.	5 to	10.	10 to	15.	15 to	20.	bna č8	Over.	Cons tic) (1.00 p-	Oth Forms bereu	s Tu⊷	Typl Fev			Aiph- iería.
AS URBAN AND RURAL.	Population, Estin School Census,	Total Deaths September, 1	Annual Death Population	Stillbirths.	Number	Per Cent.	Number.	Per Cent.	Number.	Per Cent.	Number.	Por Cent.	Numher.	Per Cent.	Number.	Per Cent.	Number.	Death Rate.	Number	Death Rate.	Number	Death Rate.	Number	Death Eate.
State	2,732,550	2,660	11.6	149	440	17.5	214	0.5	59	2.3	50	1.9	77	3.0	724	28.6	244	196.9	63	26. t	132	58.9	24	10.7
Northern Counties Central Counties Southern Counties	920,585 1,089,818 722,147	1,163 607	11 7 13.0 10.2	54 60 33	185 170 85	22.1 15.4 14.8	66 84 64	7.8 7 1 11.1	11 27 21	1.3 2.4 3.6	16 21 13	1.9 1.9 2.2	33 18 26	3.9 1.6 4.5	246 322 156	29.4 29.1 27.2	69 120 55	91.4 134.3 92.9	21 30 12	27.8 33.5 20.2	34 54 44	45.0 60.4 74.3	9	10.0
All Cities	1.050,310	1.195	13.6	67	210	18.8	88	7.8	24	2.1	28	2.4	32	2.8	266	23.5	122	141.7	340	34.8	58	67.5	10	11.4
Over 50,000	405,031 43,599 300,545 166,859 134,276 1,692,240	191	13.6 14.2 13.5 13.9 14.9 10.6	28 4 19 8 8 8	61 14 67 39 29 230	14.3 29.8 21.2 21.3 18.4 16.6	25 5 22 16 20 126	5.8 10.6 6.9 8.7 12.7 9.1	13 1 4 2 4 35	3.0 2.1 1.2 1.0 2.5 2.5	11 6 2 8 22	2.5 2.1 1.9 1.0 5.0 1.5	14 12 4 2 45	3.8 2.1 1.2 3.2	98 4 70 54 40 458	23.0 8.5 22.1 29.5 25.4 33.1	55 7 32 15 13 122	165.6 195.8 129.8 109.6 118.1 88.4	9 1 11 7 2 33	27.1 27.9 44.6 51.1 18.1 23.9	16 1 19 6 16 74	48.1 27.9 77.1 43.8 145.3 53.6	3	18.0 12.1 7.3 10.1

POPULATION BY GEOGRAPHICAL SECTIONS AND AS URBAN AND RURAL.	Deaths and Angual Death Rates per 100,000 Population from Important Causes.																								
	Croup.		Scarlet Pever.		Measles.		Whooping- Cough.		Pneur	Pneumonia.		Diarrheal Discuses, Under Five		Cerebro- Spina! Meningitis.		Influenza.		Puerperal Septicemia.		Cancer.		Violence.		Smallpox	
	Number	Death Rate.	Number,	Death Rate.	Number.	Death Rate.	Number,	Desth Rate	Number.	Death Rate.	Number.	Death Rate.	Number	Desth Rate.	Number.	Death Rate.	Number,	Death Rate.	Namber.	Death Rale.	Number.	Death Rate.	Number	Death Rate.	
State	1	,4	- 6	2.8	3	1.3	16	7.1	86	30.3	291	129.9	13	5.8	7	3.1	13	5.8	145	64.7	179	79.9			
Northern Counties Central Counties Southern Counties	1	1.1	3 2 1	3.9 2.2 1.6	3	3 9	3 5 8	3.9 5.5 13.5	18 51 17	23.8 57.0 28.7	105	166.9 117.5 109.3	2 7 4	2 6 7.8 6.7	3 2 2	3.9 2.2 3.3	6 5 2	7.9 5.5 3.3	51 69 25	67.5 77.2 42.2	12 78 50	67.5 87.3 84.4			
All Cities			2	2 3			7	8.1	39	45.3	133	154.4	7	8.1	1	1.1	6	6.9	86	99.8	86	99.8			
Over 50,000 25,000 to 50,000 10,000 to 25,000 5,000 to 10,000 Under 5,000 Country		.7	2	6 0	3	2.1	2 1 3 1 9	6.0 4.0 21.9 9.0 6.5	19 10 8 1 47	57.2 27.9 40.5 58.4 9.0 34.8	27	99 3 363 7 158 3 153 5 245 3 114 5	1 2 4 6	3.0 8.1 29.2 4.3		3.0	2 2 2 2	6.0 8.1 14.6 5.0	42 2 21 12 9 59	126.5 53.9 85.2 87.7 81.7 42.7	40 3 18 10 15 93	120.4 83.9 73.0 73.1 136.2 67.4			

U. S. Department of Agriculture, Weather Bureau. Condensed Summary for Month of September, 1909.

V. H. CHURCH, SECTION DIRECTOR, INDIANAPOLIS, IND.

		Temperatu	re—in Degr	LES FARRENT	ELT.					
Section average.	Departure	Extremes.								
	from the normal	Station.	Highest.	Date.	Station.	Lowest.	Date.			
64.2	-2.5	Rome	95	12 & 19	Cambridge CityPaoli	28 28	28 28			

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