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AGRICULTURAL EXPERIMENT STATION

OF THE

STATE COLLEGE OF KENTUCKY.

BULLETIN NO. 100.

INSPECTION AND ANALYSES OF FOODS.

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Address of Station, Lexington, Kentucky. Letter of Transmittal to the Governor from the Director of the Kentucky Agricultural Experiment Station. A A A A

BULLETIN NO. 100.

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Inspection and Analyses of Foods.

Summary by M. A. SCOVELL, Director.

Under an act of the Legislature of 1900 regulating the manufacture and sale of food, this Station is empowered with the enforcement of its provisions. This bulletin gives the results of the work to Jan. 1, 1902.

The present law went into effect June 15, 1900, but owing to the difficulty in getting funds from the State at that time, little work was done until the beginning of last year. In the meantime, however, preparations were made for thoroughly organizing the work under a division in this Station. A circular of information embodied in this report was prepared and sent, together with a printed copy of the law, to the grocers of the State and the manufacturers of food products and other parties, whom it was thought would be directly interested in the law and its enforcement. A thorough inspection in the large towns of the State was begun in January, 1901, as soon as we received check from the Auditor for the work previously done.

During the year 748 samples were taken by inspectors and tested for adulterations. Of these samples 227 were found to be adulterated or mis-branded under the law. In every case where a sample was found adulterated, the prosecuting attorney in the district where found was notified. Indictments have been made in Louisville, Lexington, Owensboro, Frankfort, and other places. In Owensboro and Frankfort, parties indicted pleaded guilty. I am informed by Mr. Kohn, my attorney in Louisville, that the pure food cases will come up in February.

Kentucky, situated as it is on the border of States which have rigidly enforced food laws, was made a dumping ground for adulterated foods which could not be sold in those States. Oleomargarine was advertised and sold as butter. Distilled vinegars, costing only a few cents to manufacture, were labeled apple or cider vinegars, and retailed in some cases as high as 40 cents per gallon. Peppers and other spices, containing in some cases as high as 50

per cent. of adulterants, were sold as genuine. Jellies made from the peelings and cores of apples and containing acid, sometimes sulphuric, in order to cause jellying quickly, and colored usually with some coal tar dye to imitate the color of jelly desired, plum, currant, raspberry, etc., were labeled and offered for sale as pure plum, currant, etc., jellies. So strong was the sulphuric acid in a sample inspected that it acted on the mucous membrane of the mouth, even while testing it. It certainly would have been very injurious to have eaten a very small quantity of this jelly. We found all tomato catsups containing some antiseptic and usually salicylic acid. This antiseptic was sometimes in unduly large quantities. By the use of such preservatives, the manufacturers can, during the busy season, work the tomatoes up into "stock," that is, to partially boil the tomatoes, add the antiseptic and then store them away in vats until the busy season is over. Often the "stock" is shipped to jobbers without being bottled, and if showing any fermentation, it is again "doped" with antiseptic, and finally when bottled, antiseptic is added again as it is heated up. If no antiseptic is used, the tomato catsup would have to be bottled at the time it was made, insuring thereby cleanliness and healthfulness.

The good resulting from the enforcement of the law can be seen in the sale of almost every food product in the markets. The manufacturers and dealers are taking an interest, as shown by the many inquiries concerning the food standards, and this means that the goods will come into the markets properly labeled. The prohibiting of the sale of all injurious articles, and compelling all imitative, artificially preserved and adulterated articles to be so labeled, and to be sold on their own merits, is bringing a noticeably better class of foods to the Kentucky public. People will not buy adulterated goods if they know it. The consequence is, those goods which have to be labeled adulterated are not being brought into the State. The manufacturers of the various brands of baking powder are putting some kind of label on their packages to designate whether they are alum, or cream of tartar, or phosphate baking powders. The manufacturers of tomato catsup are either putting on the Kentucky market catsups containing no antiseptic or using a milder antiseptic benzoate of soda in small quantity, in which case they are labeling according to the law. In our first inspection we found formaldehyde, boracic acid, freezine, and other preservatives used in milk. In our last inspection, no milks were found adulterated in this manner. The imitation fruit jellies and preserves are either being driven from the market or being labeled as such. There is more care among the confectioners as to the flavors served in soda fountain drinks than formerly. Distilled vinegars are being labeled, and sold as such, and I believe as soon as the cases can be tried in Louisville that oleomargarine will not be sold in the State, or sold in accordance with the law.

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kto osre tiur nd The manufacturers in some cases are evading the intent of the law by putting on adulterated foods labels of small type, placed in obscure places on the bottles, cans or packages. This question of labeling will receive special notice during the coming year. Sanitation and clean surroundings in handling food products will also receive attention. There are many instances where dairies, meat markets, and grocery stores present a very unhygienic depot for distributing foods.

The report which follows includes the work done under the old law from January 1 to June 15, 1900. The analyses up to this time were made by Dr. A. M. Peter, chemist of the station, assisted by Dr. Chase Palmer, Louisville, Ky., and Prof. J. H. Kastle of the college. When the new law went into effect, the Food Division was organized, and Mr. J. O. LaBach was elected chemist, and Mr. R. M. Allen, secretary. Mr. T. S. Byars, of Simpsonville, Ky., was also employed for a time as inspector in Louisville, and collected most of the samples of dairy products and oleomargarine analyzed from there.

The analyses in the body of this report have been compiled and the report written by Mr. R. M. Allen, whose untiring efforts in the enforcement of the law, deserves special mention, and receives my highest commendation.

Very respectfully submitted,

M. A. SCOVELL, Director.

ADULTERATED FOOD PRODUCTS.

...By...
ROBT, McD. ALLEN.

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PURPOSE AND EXTENT OF THE WORK.

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Chapter 13 of the Acts of 1900, approved March 17, 1900, went into effect on June 13, following. Since this law became effective, charging the Director with its execution, efforts have been directed to organize the food work into a separate division of the Station. This has been nearly accomplished and the work is now being conducted by those who give their entire attention and time to the many and varied phases of the food work; inspecting, analyzing, reporting violations to the courts, and attending as witnesses for the Commonwealth the indictment and prosecution of violations.

An effort has been made to put the Division in immediate touch with the Food Department of other States; with their experiences, methods and results in the enforcement of their respective State laws. Many inquiries are had from food manufacturers and dealers in regard to the law and its rulings, and the answering of these has in many instances been an effective means for enforcing the law's provisions.

Many manufacturers of many articles of food ship their goods into the State. Many grocers are engaged in distributing the many food products of varied quality and innumerable brands and labels. Almost every day some honest interest, prejudice, trick, or deception arising out of or affecting this vast business is presented for thoughtful consideration. The work of the Division is branching in every direction. This work for purer foods, cleanliness in handling them and honesty in the food business is an important one, and if prosecuted with diligence it will result in an immeasurable good to the consumer, the honest, intelligent food dealers and the producers of foods on the farms.

As yet the principal feature of the work has been an educational one. A copy of the law and the standards it authorizes have been mailed to most of the grocers and manufacturers throughout the State. Farmers' institutes and grocers' conventions have afforded excellent opportunities for presenting the provisions of the law. A representative from the Station attended the National Association of State Food and Dairy Departments held in Buffalo, N. Y., October 15, 16, and 17, 1901, and listened to and took part in the discussion of the important subjects that were brought before the convention. The publication of the results of the analyses, together with the names of the dealer from whom each sample was collected, and also the brand, manufacturer or producer of the article is a wise provision of the law. The publicity attending this is one of the most effective means for the enforcement of the law's intent.

Kind and Number of Samples Analyzed.

	Not Found		
Article Sampled.	Adulterated.	Adulterated.	Total.
Baking powder	5	36	41
Canned goods			12
Butter		5	121
Jellies, preserves, etc	8	7	15
Milks (sweet and butter)		30	330
Minced meats	2	9	11
Oleomargarine		62	62
Olive oil and lard		1	14
Tomato catsup, sauces	.3	50	53
Syrups, sugar, honey	15		15
Soda fountain drinks		26	69
Feeding stuffs	4	1	5
Total number found adulter	ated		227
Total number not found ad	ulterated		521
Total number of sample	s analyzed		748

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Baking Powder.

Number of samples	analyzed	41
Number of samples	found adulterated	36
Number of samples	not found adulterated	5
Number of samples	found to be alum powders	13
Number of samples	found to be phosphate powders	3
Number of samples	found to be alum-phosphate powders	19
Number of samples	found to be cream tartar powders	6

The baking powders analyzed were mostly samples found without labels, showing the kind of acid salt from which they were made. Thirty-three of the forty-one samples proved to be alum and alum-phosphate powders, showing a disposition on the part of

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manufacturers of this class of powders to avoid labeling them. However, while these samples were being collected, hundreds of cans were noted with some kind of a label as to the acid salt used; but in many instances the labels were obscurely placed on the cans in small print or worded so as to be misleading. Several samples labeled "cream of tartar" were found by analysis to be alum or alum-phosphate powders, but in no instance was a cream of tartar powder labeled "alum" or "alum phosphate."

The relative merits of baking powders still gives rise to unsettled questions. The position of the Station toward this subject remains as stated by the Director in the first report on food adulteration:

"Baking powders are a mixture of sodium bicarbonate and some form of acid salt, together with from one-fifth to one-half of their weight of starch or flour.

"Baking powders may be classed under four kinds, depending upon the acid salt used, viz: First, cream of tartar baking powders; second, alum baking powders; third, alum-phosphate baking powders; and fourth, phosphate baking powders.

"So far as their efficiency in bread-making is concerned, they are about of equal value; that is to say they all liberate about the same amount of carbonic acid gas when fresh. It is the liberation of this carbonic acid gas in the dough in the process of baking that causes the bread to rise and to be porous.

"When baking powders are used in bread-making, a chemical change takes place, caused by the water used in mixing the dough and the heat in baking the bread resulting in the evolution of carbonic acid gas, and a fixed residue remains in the bread. This fixed residue in the case of cream of tartar baking powder is potassium sodium tartrate, usually called "Rochelle Salts." In the case of alum baking powders or alum-phosphate baking powders, this residue, if the reaction is complete, is sodium sulphate and alumina hydrate or phosphate. In the case of phosphate baking powders, the residue is calcium and sodium phosphates.

"In the case of alum baking powders, or alum-phosphate baking powders, there seems to be a difference of opinion as to whether they are injurious to health or not. It often happens that the reaction is not complete in the process of bread-making. In all such cases, alum is left in the bread. This is known to be an astringent and irritant to the mucous membranes. Even when the reaction

in bread-making is complete, the alumina hydrate is undoubtedly soluble to some extent in the juices of the stomach and albuminous substances, thus irritating weak stomachs, and is undoubtedly injurious in such cases.

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"I do not believe that by the use of alum baking powders injury to health has been sufficiently proven to prohibit the sale or manufacture of such baking powders. I am strongly of the opinion, however, that baking powders should be named and plainly labeled according to the acid salt which they contain."

Butter.

Number of samples analyzed	121
Number of samples not found adulterated	
Number of samples found adulterated	5
Number of samples found adulterated with water	2
Number of samples found adulterated with foreign fats	
Average price paid per pound when not adulterated	21
Average price paid per pound when adulterated	25

The adulteration of butter with oleo fats seems not to be practiced now as much as formerly. A fraud in the butter business is the production and sale of process butter. Process or renovated butter is made from the inferior grades of butter collected by the peddler in sections where there is little knowledge, skill or care of butter production. These scraps when collected are melted, churned and colored, and put upon the market as best dairy butter. Sometimes black pepsin or sulphate of soda are added to the mass during the process of churning, which serves to form an emulsion of the fat and water and causes the finished product to contain from forty-five to fifty per cent. of water. Close inspection is made for butter of this character.

During October of 1901 a process butter plant was started in Lexington, and the butter from the plant was put upon the market under the name and at the price of the best dairy butter. Samples were obtained very soon after the plant commenced operation, and the analyses of these samples shows that the butter contained an average of forty-five per cent. of water. As soon as discovered and the violation reported to the county attorney the managers of the plant acknowledged the fraud and ceased operation.

Much country butter of an inferior quality has been noted on the market; but this, like decayed fruit or wilted vegetables, condemns

itself, even when placed by the steward or boarding-house keeper upon the table, its odor betrays it, and there is no deception as to its quality, as might be in the case of the fruit or vegetable. This is a striking example of a great problem affecting the food industry; the problem of work and willingness wasted, because means and methods are wanting to produce a wholesome grade of the article over which much honest but misdirected labor is spent to produce.

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Canned Goods.

Twelve samples of canned goods were analyzed for antiseptics and copper. This is a beginning of a study of this class of goods, and no inference can be drawn from this as to the purity of this class of foods generally. With canned goods the method of sterilization is used to preserve, but much testimony shows that antiseptics are often used to assist this method. Other results also show that copper, lead, zinc and other minerals are used to set or preserve the green color in canned foods of the character which depend upon their color or freshness for a popular sale.

Jellies, Preserves, Etc.

Number of samples analyzed	15
Number of samples not found adulterated	8
Number of samples found adulterated	1

Most of the eight samples not found adulterated were samples of home-made goods analyzed for comparison. The larger quantity of these goods bought in the open market were adulterated.

Very little of the commercial jelly is made from pure fruit juices and natural flavors. It is made largely from the by-products of the fruit canneries, such as apple peels and cores, and similar remnants of other fruits; and from glucose as a base which is jellied with commercial gelatine, flavored with an artificial acid and flavor, and colored with an aniline dye to the respective shade of the fruit it is labeled to have been made from. In a sample sulphuric acid was present in a notable quantity; in another pumpkin pulp served for filler, and this sample had the color, flavor, and label of apple butter.

Milks.

Number of samples	analyzed	230
Number of samples	not found adulterated	200
	found adulterated	
	adulterated with antiseptics	
	adulterated with water or skimmed	
	containing formaldehyde	
Number of samples	containing boric acid	5
Number of samples	containing artificial color	5

The methods of adulteration were watering, skimming, and the use of antiseptics.

Much of the milk sampled generally in Louisville was below the purity and quality of good milk. Samples taken in Newport and Lexington show very much less adulteration. Five samples of deceptive adulteration in Louisville are those that had been skimmed or watered, and then colored and thickened to represent rich milk. Similar adulterations are found in other foods, but in milk the universal food for infants, and often for invalids, this practice seems most criminal.

Milk is very easily disorganized, and readily affected by taint and impurities. Clean air, clean care, sterilization of all vessels, and ice, are the proper methods for keeping it sweet and, and insuring the wholesomeness of this delicate and important food. Antiseptics supplant this care, and their presence indicates inferior milk in addition to their harmful effect.

Mince Meats.

analyzed	11
found adulterated	9
not found adulterated	2
containing antiseptics	9
containing borates	2
containing benzoic acid	1
containing boric acid	1
containing salicylic acid	6
	found adulterated not found adulterated containing antiseptics containing borates containing benzoic acid containing boric acid

From the analyses of the samples collected it is evident that mince meats are as a rule preserved with antiseptics, especially since all these brands were bought in the open market. The antiseptic used in the majority of cases was salicylic acid.

Pepper.

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All of the specimens of ground black pepper examined under the microscope by Prof. Garman were reported to contain some foreign material.

Ground spices and pepper are nearly always adulterated with some inert substance, which is used to increase the bulk of the article. Peanut shells, cocoanut hulls, brick dust, flour, ground corn, cracker meal, and other similar substances, are authoritatively mentioned among the list of refuse from which these fillers are made. There are factories which do nothing else but grind and color these fillers for the trade, and most of the pepper and spice houses have a regular system and plan for such adulterations. A leading example of the system was noted during an inspection tour. The proprietor of a spice and pepper grinding establishment pointed out on the third floor of his factory two long rows of barrels. One row had in each barrel a variety of pepper or spice, ground; the other had its barrels filled with a tasteless material, the color and fineness of the barrel opposite. From this floor the boxes were packed for consignment, and the proprietor stated that when a cheap pepper or spice was ordered, the order was mixed with its respective filler to suit the price. The retailer generally knows of this adulteration, but no instance has been noted where the consumer is made aware of it.

Such adulterations weaken the condiment, and instead of causing a quicker flow of the digestive juices, an extra burden of trash is put into the stomach.

Pure pepper is always cheaper than the adulterated article would be if the trash was separated from it.

Vinegar.

Number	of	samples	analyzed	57
Number	of	samples	found as represented	30
Number	of	samples	not found as represented	21

Vinegar is a dilute form of acetic acid. Acetic acid is a product of alcohol, hence vinegar can be produced from all alcoholic sources. The common sources from which vinegar is produced are the apple, malt, the refuse wine in the grape countries, and the low wine from distilleries.

Apple vinegar has the superior flavor and the highest value as a condiment, and is the standard vinegar in the market. The high demand for apple vinegar causes the manufacturers of the low wine vinegars to advertise their product upon the reputation of apple vinegar, and also to label it under the name of "apple," "cider" and "fruit" vinegar, or "family" and "pickling" vinegar, which is clearly a fraud to the consumer, and an unjust competition to the fruit industries.

In August of 1901 the various vinegar factories in Louisville were inspected, and in no instance did it appear that the vinegar was being made from apples; but in most of the factories the stencils in use made it evident that the brands, "apple vinegar," "fruit vinegar," "Old Homestead apple vinegar," were in constant use. Samples taken from barrels bearing these brands were found to be spirit vinegar. The spirit vinegars were found to be colored with caramel and to contain artificial solids.

Tomato Catsup.

Number of samples analyzed	
Number of samples found adulterated	
Number of samples not found adulterated	 3
Number of samples artificially colored	 43
Number of samples containing antiseptics	 47
Number of samples containing benzoic acid	 42
Number of samples containing benzoic and boric acid	 1
Number of samples containing salicylic acid	 4
Number of samples containing saccharin	 2
Color found in each instance aniline dve.	

All except three of the fifty-three samples of tomato catsup and sauces examined were found to contain antiseptics, and forty-three samples were artificially colored with the aniline dyes. The artificial coloring suggests the inferiority of the products from which the samples were possibly made. A large amount of these products are probably made from tomato cores and skins, the by-products of the various tomato canning factories.

The lower grades of catsup are generally put up in barrels or tanks and shipped to the wholesaler, who puts the article into bottles bearing his own label. A large quantity of some antiseptic is necessarily needed to preserve the goods through the first careless exposure in barrels, and to keep it until the dealer puts it into bottles. The dealer sometimes adds more antiseptic in order to further stop fermentation during the long time, sometimes several

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years, that his goods may await a sale on the grocer's shelf. A Louisville grocer stated that a quantity of catsup, from which a sample was purchased, had been on his shelf for eight years.

Olive Oils and Lards.

Number of samples analyzed	14
Number of samples found adulterated or not labeled to show the exact	
character	1
Number of samples found as represented	13

One sample of lard analyzed contained cottonseed oil. This sample was sold as compound lard to the one who purchased it. The word compound in this case did not show the exact character of the article, and the purchaser should have been made aware of the fact that he was obtaining a lard mixed with cottonseed oil. The only obvious advantage to be gained by such a mixture is that of selling the cottonseed oil at the price of hog fat. The consumer is in no way benefited by this; but instead, fraudulently imposed upon. Cottonseed oil is a food, but it is commercially cheaper than lard, and in justice to these products, as well as to the consumer, it should be sold under its own name and upon its own merits.

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Syrups, Sugar and Honey.

Number of samples analyzed		15
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Granulated sugar is one of the uniformly pure foods on the market.

No attempt has been made to pass upon the flavor of the samples of maple syrups analyzed. It is evident and admitted that the larger quantity of maple syrup is not made from the sap of the tree, but from other sugars and the flavors of hickory or maple wood. Maple syrup, molasses and honey are largely adulterated with glucose. Glucose is not considered deleterious, but it is cheaper and inferior to the syrups in which it is often used to increase bulk; when used for this purpose the fact should be made known to the consumer.

Soda Fountain Drinks and Grape Juice.

Number of samples analyzed	69
Number of samples not found adulterated	43
Number of samples found adulterated	.26
Number of samples containing salicylic acid	18
Number of samples containing aniline dye	16
Number of samples containing cochineal	1

The subject of adulteration with regard to the many soda fountain drinks is of no small importance. The soda fountain is patronized by children and young people largely, and to those who consume the larger portion of these drinks the antiseptics, artificial coloring matter, and artificial flavors used are most harmful.

The base of the drink served at the fountain is carbonated water, which is considered beneficial and is most refreshing. When a fresh fruit flavor is added to this carbonated water, together with ice or ice cream it is a most delightful drink. When spoiled stock, doped with antiseptic, colored with aniline, and artificially flavored, is added, the carbonated water is but contaminated with a mixture deleterious and unfit for any stomach.

An investigation of the better class of these fountains shows much adulteration that should not be permitted, or, if permitted, it should be rigidly restricted so that those who patronize them can in every instance know the character of the drink served.

Samples of a well-known brand of grape juice was analyzed, and a violation was reported to the county attorney. The manufacturers of this juice then immediately withdrew their stock, and substituted, at the same price, a grape juice containing no antiseptic. The antiseptic found was salicylic acid. Grape juice is used to a great extent in the sick room, and invalids especially should have such antiseptics regulated by a physician's prescription.

"Pepsinade," advertised to be an "aid to digestion," contained a large amount of salicylic acid, which has a strong inhibitory influence on ferments, and is recognized as the most antidigestive of the antiseptics.

Oleomargarine.

Number of sam	ples analyzed	. 62
Number of sam	ples found adulterated	. 62
	ples colored with aniline dyes in imitation of butter	
Number of sam	ples colored with annatto in imitation of butter	. 6
	ples colored, color not determined	
Number of sam	ples containing boracic acid	. 18

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Number of samples bought as butter		19
Number of samples bought as become nine		43
Number of samples bought as oleomargarine		17
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Average price paid per pound when paid for as butter	\$0	21
Average price paid per pound when paid to as also mangarine		18
Average price paid per pound when paid for as oleomargarine		10

All of the samples of oleomargarine purchased were sold in violation of law. Eighteen of these contained boracic acid, and there was no instance where the purchaser was made aware that the article contained this antiseptic.

Oleomargarine is a legitimate food product. It is made from the by-products of the slaughter pens, and from cottonseed oil. When these fats are fresh and clean, and the oleomargarine made free from antiseptics and coloring matter, it is a wholesome food. It is made from fats, which have their own merits, their own food value, and their own properties, and it should be sold upon its merits, reputation, and under its own name. It is commercially cheaper than butter, for the cost is very much less to produce it. It is regarded as inferior to butter, especially by the manufacturers who mix butter with it to make the better grades, and also color it in imitation of butter in order that the consumer will believe it to be butter. At present it is not one of the foods which has a trade reputation, and whose name is its best advertisement to the consumer; but like most of the other by-products remaining from the manufacture of the various well-known foods, the manufacturers of oleomargarine, wish it to imitate and share the reputation of a superior food product.

No other food product has been sold so deceitfully in the State as oleomargarine. It is our experience that oleomargarine depends for its sale upon the reputation of butter. It is colored in imitation of butter, and this coloring is made to assume the shades which butter produced in the different seasons, in different localities, from different breeds, and under different conditions presents; if any difference, the imitation is more beautiful, for the shades of aniline are more easily controlled than the feed of the cow or the fermentation of the cream. The manufacturers of oleomargarine adopt names longest in use, or which stand for the most trade reputation in the butter business. A factory is known as "The Columbus Butter Co.," another as "The Capital City Dairy Co.;" some advertisements read "churners of creamery butterine," or under the name of "Elgin" still more reputation is sought. Many adver-

tisements of oleomargarine have been noted which present a representation of a dairy maid, dairy cow, churn and spring house.

The present Federal law prevents fraud in the original sale of oleomargarine, but has no measure to protect the consumer from the dishonest dealer, steward, and boarding-house keeper. To protect the consumer and to compel the sale of oleomargarine upon its own merits, the State law prohibits the sale of oleomargarine when it is colored in imitation of butter. Thirty-two other States have enacted a similar law, and the act has been decided constitutional by State courts and by the Supreme Court of the United States.

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The Supreme Court in the well-known Plumley case, passed upon the constitutional power of the States to thus regulate the sale of oleomargarine. Mr. Justice Harlan, in handing down the court's decision, made the following much-quoted statement:

"And yet it is supposed the owners of a compound which has been put in a condition to cheat the public into believing it is a particular article of food in daily use, and eagerly sought for by people in every condition of life are protected by the Constitution in making a sale of it against the will of the States in which it is offered for sale, because of the circumstance that it is an original package and had become a subject of ordinary traffic. We are unwilling to accept this view. We are of the opinion that it is within the power of the State to exclude from its markets any compound manufactured in another State, which has been artificially colored or adulterated so as to cause it to look like an article of food in general use, and the sale of which may by reason of such coloration or adulteration cheat the general public into purchasing that which they may not intend to buy."

Artificial Coloring.

Certain colors are associated with the different foods and their condition. Bolted flour, granulated sugar and starch are white. Fruits present different shades of color by means of which the ripeness of the respective fruit is judged; pears, peaches, and apples, grapes and berries present varying shades of red, purple and yellow. The richness of milk is sometimes judged by the yellow tinge from the globules of butter fat it contains. Fresh meats have a color distinct from that of spoiled meats. Vegetables, pickles, and

some others of a similar character are green, or they present their individual garden color.

In the market foods are selected largely by their color. At the table the eye aids the taste in pleasing the senses. Color, therefore, is an important factor in foods, and when the natural color is wanting, or condemns the article, the manufacturer supplies it arti-

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ficially, or changes it to the color of a better article.

Pastry and confectionery are colored, and the uses of artificial coloring matters, that are harmless, seem legitimate under proper restrictions in this class of foods. Many foods have their colors changed in the process of preservation, and the manufacturers seek to restore the original by adding some artificial coloring matter, as is especially the case with fruit products. When green vegetables are canned, their colors are preserved or set with copper, zinc, lead or alum; thus the green of peas, beans and pickles is kept from changing to the unappetizing shades of deadness when they are canned.

Artificial coloring matters are employed to cover up deficiencies and to make the imitation appear like the real. Skimmed milk is colored in order that it may appear rich; spirit vinegar is colored in imitation of cider vinegar; the oleo fats are colored in imitation of butter fats, and artificial jellies are colored to the respective shades of the fruits they are labeled to have been made from.

When artificial coloring matter is used to such an extent, or of such a poisonous character that the purity of the food is sacrificed for appearance, such use should be prohibited. When color is used to cover up defects, inferiorities, or to imitate, its use is a fraud. In every case where the law does not prohibit coloring matter on account of its poisonous character or fraudulent intent, the law commands that its use shall be made known to the customer and consumer.

The artificial coloring matters found were mostly the aniline dyes, of which there are many forms. These dyes are made from coal tar products.

The Preservation of Foods.

The question of most importance in the manufacture and sale of foods is that of preservation, and this problem presents the most tempting field for adulteration to the otherwise honest food manufacturer and producer.

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As soon as the spark of life leaves the animal, putrefaction begins; as soon as milk is exposed to a warm atmosphere it commences to sour, and when ripened grains or fruits become bruised or exposed to a moulding atmosphere decay sets up. The best established theory is, that the disorganization and decay of animal and vegetable tissues, and of milk and its products are due to the action of ferments, or of fermenting bacteria. The preservation of food products depends upon the suspension of these decomposing bacteria or the counteraction of their influence, and is accomplished in four general ways; cold storage and sterilization, ripening, and the preserving influences of salt, sugar, vinegar and smoke. Thus, ice in the refrigerator and cold storage systems causes a low temperature, which delays the decay of meat and souring of milk; meats, vegetables and fruit are sterilized, or heated to a degree hot enough to kill these organisms, and then canned; the fats and caseins of milk are ripened into butter and cheese; fruits are preserved with sugar; vegetables are pickled with vinegar and salt; hams and bacon are cured with salt and Very often two or more of these methods are employed to preserve a single article of food, and when combined with clean systems they are recognized as the healthful and ideal methods for preservation of food products. Salt and vinegar, besides being used to preserve the food, are relishes and stimulate the flow of the digestive juices; their taste makes them easily detected, and when not desired they can be declined.

These methods require skill and care to execute, proper sanitation and cleanliness in shipping and storage. Manufactured goods sometime remain on the shelf for years before all of the stock is sold. Foods are often produced in unclean surroundings and handled carelessly. Such reasons, with the tendency to imitate, and to put upon the market articles of food without regard to their quality, purity or food properties cause the use of antiseptics.

Antiseptics.

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The antiseptics found in the foods were salicylic acid, benzoic acid, boracic acid, saccharin, and formaldehyde. These antiseptics act as a strong paralyzant to the ferments in foods, and their lasting embalming qualities make them the surest method for food preservation, and also the cheapest plan.

The more honest manufacturers make use of them in small amounts; others use them without regard to quantity. These antiseptics, varying in effect, have a deleterious influence upon the human system, and their harmful effect in large quantities is not honestly denied.

It is claimed by the manufacturers who make use of them, and also stated by some authorities, that the use of antiseptics in small quantities in foods is not harmful. However, they are always used in sufficient quantities to delay fermentation; and fermentation stopped by such means out of the stomach will, as the food still contains the antiseptic, be stopped in the stomach to a greater or less degree, making more work for the digestive juices and consequently retarding digestion. The quantity used is often too small to have a direct effect when absorbed into the system; but, put a little formaldehyde in the milk each day; add to this a little benzoic acid in the tomato catsup, a little salicylic acid in the canned fruits and vegetables, a little boracic acid in meats and oleomargarine, a little copper or zinc from the beautiful green of the pickles and peas, and the meal has deposited some poisonous material, which, with the repeated deposits of other meals, must and does have a harmful effect upon the stomach, nerves and health.

Some manufacturers compound and put these acids upon the market under the names of "preservaline," "freezine," "freezem," and similar labels, to be used by those who are ignorant of the antiseptics from which they are made, or the effect of such antiseptics upon the system. When labeled and sold under these names they are guaranteed to be "perfectly harmless" and to "keep all kinds of perishable food substances perfectly fresh and in a sound state, in any kind of weather and temperature for any length of time without the use of ice." The strong paralyzant power claimed for antiseptics is sufficient to condemn their use in foods, for a substance which can preserve perishable foods under any conditions, and for any length of time, will also affect the delicate digestive ferments of the stomach.

There is an overwhelming testimony from scientists that these antiseptics are, for various reasons and in different degrees, harmful when taken into the system. Even those who favor their use in small quantities agree that their use should be made known to the consumer. Recognized experiments show them to be anti-digestive and accumulative; that they are eliminated by the kidneys and that such elimination gives rise to various forms of kidney trouble; that some of them affect the higher nerve centers and

depress the heart action.

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Dr. J. Kister, of Berlin, has recently carried out some researches on the physiological effects of boracic acid. The ingestion of from 40 to 50 grains of boracic acid daily by strong and healthful subjects, gave rise in from four to ten days to albuminuria, which persisted concurrently with the administration of the drug. In further experiments 15 grains a day sufficed to produce vomiting and diarrhoea. The administration of 15 grain doses in a normal subject was followed within two hours by its appearance in the urine, complete elimination taking eight days. With half that dose excretion began at once, and lasted five days. The doctor considers that the daily ingestion of even small doses of boracic acid is apt to give rise to cumulative effects, which may ultimately determine toxic symptoms, and his experience tends to show that young persons are much more susceptible to the influence of the drug than is the case later in life.

Chief Chemist Wiley, of the U. S. Bureau of Chemistry, considers salicylic acid "very deleterious to health," and states, "There is no preservative which paralyzes the ferments which create decay that does not at the same time paralyze to the same extent the ferments that produce digestion." He also says, "The very fact that any substance preserves food from decay, shows that it is not fit to enter the stomach, especially if the stomach be delicate and the digestion feeble, and again he states, "I maintain that no food should ever be offered for sale which contains a preservative without that fact being plainly marked upon it."

Prof. E. H. Jenkins, of the Connecticut Agricultural Experiment Station, says, "These modern preservatives are used without any notice being given by the vendor that they are used," and when this notice is not given, "that opportunity and right of the individual to find out whether they will or will not injure him is taken away."

Dr. Albert B. Prescott, of the University of Michigan, states, "I

believe that in general preservatives and antiseptics in food are unfavorable to digestion and injurious to health."

Prof. Mitchell, of Wisconsin, states, "Any antiseptic which is an active antiseptic is necessarily deleterious to health. It stops the working of the normal enzymes or ferments, and it stops the digestive processes which take place in the organs, and it stops, in a measure the changes which take place normally in the food

products, possibly, in some cases."

Whatever questions concerning the use of antiseptics in foods are unsettled, these are facts; they are a cumulative, harmful drug, and should be taken into the system only upon the prescription of a physician or upon the knowledge of the one who is eating the food that it contains an antiseptic; they supplant to some degree the cleanliness and care necessary to produce wholesome foods, cover up deficiencies and cause the use of many food articles of an unhealthy character; the use of the more harmful should be prohibited, the use of small quantities of those less harmful should be rigidly restricted and only permitted when the fact of their use is made known to the actual consumer.

Watching the various food products with regard to antiseptics alone is a large task, so extensively and recklessly are they used in the numberless articles of food on the market. Many food industries are built upon this principle of preserving foods entirely with antiseptics; it is a wrong principle and should be discouraged. The representatives of such food factories present many arguments and schemes to protect the profits which accrue from the substitution of a pinch of some antiseptic for the more costly methods of ice, sugar, cleanliness and care employed by the manufacturers of the best food articles. To cite a fact, axiomatic of all drugs, that the single instance of a mild antiseptic in minutest quantities has but very little effect in the system, does not defend the reckless use of antiseptics, a practice dangerous to the public's health.

Violations Reported.

Under section 5 of chapter 13, of the Acts of 1900, 174 violations have been reported to the prosecuting attorneys, as follows:

Covington	29
Elizabethtown	10
Frankfort	12
Lexington	

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On Wednesday, February 19, 1902, cases against Louisville merchants for making and selling spirit vinegar as apple vinegar; selling foods containing antiseptics and artificial coloring matter with no label stating these facts; selling baking powder with no label on the package or can showing the kind of acid salt used, and for selling oleomargarine colored in imitation of butter, were called for trial.

Versailles

Louisville
Nicholasville
Newport
Owensboro

The first case was that for selling a Chili sauce which contained benzoate of soda and an aniline color, but which had no label on the bottle stating these facts. The defense pleaded "not guilty" and the prosecution proceeded with the trial, producing testimony that the defendant did have in possession for sale, exposed for sale and sold on the date mentioned in the indictment; that there was an antiseptic in the food and also an artificial coloring matter, and that the article of food in question did not have a label stating these facts. To questions from the defense the witnesses for the Commonwealth gave testimony as to the injurious effects of antiseptics.

Defendant went upon the stand and admitted selling the article of food, and that there was no label on the bottle stating that it contained an antiseptic or artificial coloring matter. stated that he had no knowledge that the article was adulterated and that he had stopped the sale of the Chili sauce as soon as he found that it was adulterated. Witnesses for the defense were put on the stand to prove that antiseptics were absolutely necessary to preserve tomato catsups and sauces, and that such antiseptics and coloring matter as were found in the bottle of Chili sauce were not injurious to the human system. One of the leading vinegar manufacturers took the stand in the defendant's behalf and gave testimony of this character, who, on being crossexamined by the prosecution stated that aniline color was made from burnt sugar, and that benzoate of soda was just ordinary cooking soda used every day in bread making. The defense then rested their case and it went to the jury for trial.

The instructions of the learned judge cover well the points in the testimony and emphasize strongly the fact that the public must be protected by holding a dealer responsible for what he sells as food for human consumption. The jury returned a verdict of "guilty"; but since the defendant had stated that he would not sell any more of the unlabeled food, the fine was made one dollar and costs.

On the following morning the other cases were called for trial. After consultation with the attorney for the food department the defendants agreed to plead guilty, pay a fine of five dollars and costs each, and promise not to violate the food law further.

JEFFERSON CIRCUIT COURT.

Criminal Division.

Commonwealth of Kentucky

Plaintiff.

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vs.

INSTRUCTIONS.

Defendant.

No. 1. If the jury believe, from all the evidence in this case, to the exclusion of every reasonable doubt, that in this county and within 12 months next before the finding of this indictment, the accused, —, did sell to one, — a bottle of Chili sauce, which was then and there an article of food for human consumption, and which contained an antiseptic or an artificial coloring matter, or both, but which said bottle did not have a label showing that said Chili sauce contained said antiseptic matter or said artificial coloring matter, or either or both, and at the time of _____ did not disclose the sale, if there was one, the said to or inform the said purchaser that said bottle of Chili sauce contained said antiseptic or said artificial coloring matter, then they should find him guilty as charged in the indictment, and fix his punishment by a fine not to exceed one hundred dollars, or by fine and imprisonment in the county jail for not more than fifty days, or they may both so fine and imprison him in their discretion.

No. 2. The jury are instructed that it is immaterial whether or not the defendant, ————, at the time of the sale mentioned in instruction No. 1, knew whether said bottle of Chilf sauce was adulterated as set forth in said instruction No. 1, but they may consider the evidence on that question in mitigation of punishment, if any; and they are further instructed that it is

immaterial whether the ingredient used in adulterating said Chili sauce, if it was so adulterated, was or was not injurious to the human system.

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er nili ut on is No. 3. The law presumes the innocence of the accused, and it is the duty of the jury, if they can reasonably do so, to reconcile and harmonize all of the facts and circumstances of the case with that presumption; and if upon the whole case the jury entertain a reasonable doubt of the guilt of the accused, or of any material fact necessary to constitute his guilt of the offense charged in the indictment having been proven, they should find him not guilty.

HENRY S. BARKER, Judge.

Compiled Report.

Following are the results of the analyses, together with a compiled report from the Inspector's data. Those samples containing adulterations are placed under the head of "Found Adulterated." Samples in which no adulterant was found and which were labeled according to law, are under the head of "Not found Adulterated." Attention is called to the fact that under the "Not Found Adulterated" column are samples which were found to contain artificial coloring matter or antiseptics, but were so labeled, and so were reported as "Not Found Adulterated."

The attention of the dealers and manufacturers is called to the fact that the labeling is not satisfactory, because in many instances the label is in such small type, so obscurely placed or in such misleading terms as to evade in part the purpose of the law. Such labeling hides the true character of the goods from the consumer, and it must be replaced by a more honest system of labeling.

BAKING POWDERS—Found Adulterated

Station No.	Name taken from Label.	Where Obtained.	Date of Collection.	From Whom Obtained.
8011	Koenig	Covington	May 14, 1901	N. L. Young
6313	Clover	Lexington	Dec. 6, 1899	J. B. Rogers & Co.
6314	White Cap	Lexington	Dec. 6, 1899	Warren Bros
6315	Eatwell	Lexington	Dec. 8, 1899	Vogt & Foley
6316	Quaker	Lexington	Dec. 13, 1899	T. L. Campbell
7210	Queen Flake	Elizabethtown	Dec. 19, 1900	Bruner & Duell
7212	Queen Flake	Elizabethtown	Dec. 19, 1900	Davis & Williams
7214	R. T. Royal	Elizabethtown	Dec. 19, 1900	J. B. Walker
7607	Kenton	Versailles	Jan. 18, 1901	Langdon Creasey Co
7609	R. T. Royal	Richmond	Feb. 2, 1901	E. Deatherage & Co
7834	Col. Gildeas	Elizabethtown	March 7, 1901	T. J. Neafus
7835	Royal	Elizabethtown	March 7, 1901	T. J. Neafus
7837	Red Star	Elizabethtown	March 7, 1901	Reed & Bro
7951	Kenton	Covington	May 13, 1901	R. Hamilton Grocery Co
7952	Crown	Covington	May 13, 1901	R. Hamilton Grocery Co
7967	White Cap	Covington	May 13, 1901	J. L. Hilker
7968	Red Star	Covington	May 13, 1901	J. L. Hilker
7990	Pride of Covington	Covington	May 14, 1901	W. R. Miller
8024	Campbell's	Covington	May 14, 1901	J. G. Herman
8026	Snow Drift	Newport	May 15, 1901	David Brunk
8419	American Beauty	Louisville	July 30, 1901	Wolff & Sons
8422 i	American Beauty	Louisville	July 30, 1901	Ed L. Meyer
8535	Good Luck	Frankfort	Aug. 23, 1901	Howard & Noonan
8543	Good Luck	Frankfort	Aug. 23, 1901	Jas. O'Donnell
8544	Faultless	Frankfort	Aug. 23, 1901	A. H. Wagner
8557	R. T. Royal	Frankfort	Aug. 24, 1901	George Salender
8559	Good Luck	Frankfort	Aug. 24, 1901	H. L. Tobbin
8560	Royal	Frankfort	Aug. 24, 1901	W. J. Scotto
8652	Clabber	Louisville	Sept. 24, 1901	F. C. Wernert
8653	Clabber	Louisville	Sept. 24, 1901	S. Goldsmith
8700	American Beauty	Louisville	Oct. 10, 1901	Wolff & Sons
8706	Water Lily	Louisville	Oct. 10, 1901	Wolff & Sons
8726	Mascot	Nicholasville	Oct. 14, 1901	H. Frye
8732	Sky	Nicholasville	Oct. 14, 1901	H. H. Lowry
8733	Pure Food	Nicholasville	Oct. 14, 1901	H. H. Lowry
8097	Our Leader	Owensboro	May 13, 1901	E. F. Sturgeon

BAKING POWDERS—Not Found Adulterated

Station No.	Name taken from Label.	Where Obtained.		Date of Collection.			From Whom Obtained.
6317 7144 7145 7956 8099	Bon Bon	Lexington Lexington Covington		Dec. Dec. May	12, 12, 13,	1900 1900 1901	Campbell Tea & Coffee Co Pearson & Clarke Pearson & Clarke Geo. C. Goode H. W. Meek

or Without Label Showing Kind of Acid Salt Used.

Manufacturer.	Acid Salt Found.	Remarks.		
Henry Koenig Co. Clover Chemical Co., N. Y. Herkin Spice Co., Cin., O. J. Lankala Co., Chat., Tenn. Quaker Co., Chicago, Ill. Northorp, Robertson & Carrier Northorp, Robertson & Carrier R. T. Royal, Louisville, Ky. Kenton Co., Cincinnati, O.	Alum, Phosphate Alum	30 per cent. soapstone filler. Without label. Without label. Without label. Without label. Labeled, Cream Tartar. Without label.		
R. T. Royal, Louisville, Ky. Boston Baking Powder Co. Royal Baking Powder Co. Ouerbacker, Gilmore Co. Kenton Co. Kenton Co. Jas. Heekin & Co. G. B. Murphy Wabash Baking Powder Co. Potter Parlan & Co. H. R. Droste & Co. Ed L. Meyer & Co. Ed L. Meyer & Co. Southern Mfg. Co.	Phosphate Alum Cream Tartar Alum, Phosphate Alum, Phosphate Alum, Phosphate Alum, Phosphate Alum, Phosphate Alum, Phosphate Cream Tartar Alum Alum Alum Alum Alum Alum Alum Alum	Labeled, Cream Tartar. Without label.		
Southern Mfg. Co. R. T. Royal Southern Mfg. Co. Royal Baking Powder Co. Hulman Coffee Co. Hulman Coffee Co. Ed L. Meyer Wolff & Sons C. T. Ware Coffee Co. Sky Baking Powder Co. Fred Parker E. W. Gillett	Alum, Phosphate Phosphate Alum Cream Tartar Alum, Phosphate Alum, Phosphate Alum Alum Alum Alum Alum, Phosphate	Without label. Labeled Cream Without label.		

And With Labels Showing Kind of Acid Salt Used.

Manufacturer.	Acid Salt Found.	Remarks.
J. C. Grant Chemical Co J. C. Grant Chemical Co Cin. Wholesale Grocery Co	Cream Tartar	Obscurely labeled, Alum. Obscurely labeled, Alum.

BUTTER-Not Found Adulterated.

Station No.	Make or Brand.	Where Obtained.	Date of Collection.
2157	Garanteer	Lexington	Dec. 13, 1899
6117	Country	Lexington	Dec. 13, 1899
6119 6120	Country	Lexington	Dec. 13, 1899
6121	Country	Lexington	Dec. 13, 1899
6134	Country	Maysville	Dec. 15, 1899
6135	Country	Maysville	Dec. 15, 1899
6137	Country	Maysville	Dec. 15, 1899 Dec. 15, 1899
6138	Country	Maysville	Dec. 15, 1899
6136	Country	Versailles	Feb. 28, 1900
6426 6427	Country	Versailles	Feb. 28, 1900
6751	Home made	Louisville	April 12, 1900
6752	Creamery	Louisville	April 12, 1900
6753	Creamery	Louisville	April 12, 1900
6754	Creamery	Louisville	April 12, 1900 April 12, 1900
6755	Creamery	Louisville	April 12, 1900
6756	Creamery	Louisville	April 12, 1900
6757 6758	Own make	Louisville	April 12, 1900
6759	Creamery	Louisville	April 12, 1900
6760	Creamery	Louisville	April 12, 1900
6761	Creamery	Louisville	April 17, 1900
6762	Creamery	Louisville	April 17, 1900 April 17, 1900
6763	Country	Louisville	April 17, 1900 April 17, 1900
6764	Country	Louisville	April 17, 1900
6765 6767	Country	Louisville	April 17, 1900
6766	Country	Louisville	April 17, 1900
6768	Country	Louisville	April 17, 1900
6769	Country	Louisville	May 16, 1900
6770	Country	Louisville	May 16, 1900 May 26, 1900
6771	Country	Louisville	May 16, 1900 May 16, 1900
6772	Country	Louisville	May 16, 1900
6773 6774	Country	Louisville	May 16, 1900
6775	Country	Louisville	May 16, 1900
6776	Country	Louisville	May 16, 1900
6777	Own make	Louisville	May 16, 1900 May 16, 1900
6778	Country	Louisville	May 16, 1900 May 16, 1900
6779	Own make	Louisville	May 21, 1900
6781 6782	Country	Louisville	May 21, 1900
6783	Country	Louisville	May 21, 1900
6784	Dairy	Louisville	May 21, 1900
6785	Creamery	Louisville	May 21, 1900
6786	Creamery	Louisville	May 21, 1900 May 21, 1900
6787	Country	Louisville	May 21, 1900
6788 6790	Own make	Louisville	May 21, 1900
6792	Country	Louisville	May 24, 1900
6793	Country	Louisville	May 24, 1900
6795	Country	Louisville	May 24, 1900
6797	Country	Louisville	May 24, 1900 May 24, 1900
6798	Country	Louisville	May 24, 1900
6799	Country	Louisville	May 24, 1900
6800 7030	Creamery	Lexington	Oct. 8, 1900
- 7031	Creamery	Lexington	Oct. 8, 1900
7032	Creamery	Lexington	Oct. 8, 1900
7923	Creamery	Owensboro	May 7, 1901
7924	! Country	Owensboro	May 7, 1901 May 7, 1901
7926	Country	Owensboro	May 7, 1901 May 7, 1901
7928	Country	Owensboro	May 8, 1901
7930 7931	Creamery	Owensboro	May 8, 1901
7933	Creamery	Owensboro	May 8, 1901
7959	Creamery	Covington	May 13, 1901

BUTTER-Not Found Adulterated.

	Retail		Analytical D	ata.
From Whom Obtained.	Price per pound.	Reichert, M.	Valenta Test Degrees C.	Color.
T. L. Campbell	25 30		40.0 47.0	Natural. Natural.
J. M. Crawford			49.0	Slight tr. art.
J. M. Crawford			39.0	Slight tr. art.
J. C. Cablish			54.0	Natural.
J. C. Cablish	20			Natural.
Ed. Richardson	20		50.0	Natural
G. W. Geisel	20		46.0	Natural.
C. C. Calhoun			48.0	Natural.
Theo. Kessler			38.0	Natural.
Theo. Kessler	20	26.8	52.0	Natural
C. Bodenbender	25	21.3	55.5	Azo dye.
Weikel & Schuh F. Klusmeier	25 25	28.8 28.1	39.5	Azo dye. Azo dye.
Imorde & Bro	30	29.9	41.0	Azo dye.
Wm. Scharf, Jr		28.6	37.5	Azo dye.
A. Marcus		28.6	36.5	Azo dye.
Bode Bros	25	29.1	32.0	Azo dye.
J. M. Schoenbacher	30	26.9	41.0	Azo dye.
D. Montz	20	26.2	41.0	Azo dye.
Jno. Bohlsen & Sons	20	28.8	31.5	Azo dye.
George Black		28.5	36.5	Azo dye.
Max Levi	30 25	26.8	40.0	Azo dye.
Jno. Keifer	20	27.3 28.8	28.0	Natural.
A. J. Dreisel	20	30.4	35.0	Natural.
Wm. Cummings	20	25.5	40.0	Natural.
J. L. Block	20	29.1	35.0	Natural.
Weaver Bros	25	27.7	34.5	Natural.
N. Neal		30.7	42.0	Natural.
C. Oldiges		25.4	35.5	Natural.
Ross & McCall Long & Collins	25	28.0 26.8	35.5 36.7	Natural. Azo dye.
F. Doll Gro. Co	20	30.7	34.0	Natural.
Watkins & McCandlers	20	28.2	38.5	Natural.
Mrs. Burke	25	28.2	33.5	Natural.
Jno. Heins	20	27.8	30.0	Natural.
F. M. Derkins	25	26.4	23.0	Natural.
G. J. Churchman	25	29.5	32.0	Natural.
Ky. Dairyman's Exchange L. M. Reid	25 20	29.9 29.8	34.5 27.0	Natural. Natural.
W. A. Call	20	27.2	35.0	Natural.
Fred Brinke	20	30.7	42.0	Natural.
Moses & Nichols	20	29.8	32.0	Natural.
Gt. Atlantic & Pac. Tea Co	21	28.2	37.0	Natural.
Zapp & Co	25	29.9	39.5	Azo dye.
A. Button & Sons	20 20	26.3 26.5	44.0 36.0	Natural. Natural.
L. S. Clemmons		26.2	41.5	Natural.
H. Deddins	20	30.9	33.0	Natural.
W. F. Linton	20	27.2	28.0	Natural.
R. L. Price	20	28.1	38.0	Natural.
Jno. Ross	20	26.3	21.0	Natural.
F. Hohmann	20	27.5	38.0	Natural.
R. J. Woertz	20	29.1	31.0	Natural.
August A. Faust	20	29.7	33.0	Natural.
Jno. Hutchison	30 30	29.7 25.3	43.0	Artificial. Artificial.
Armour & Co.		28.1	47.0	Artificial.
Armour & Co	25	28.7	40.0	Natural.
R. B. Pottinger	20	28.2	25.0	Natural.
L. A. Nunn	25	29.9	38.0	Natural.
Thos. Steele	25	30.0	26.0	Natural.
Dawson & Yager	25	26.7	35.0	Natural.
W. F. Reinhardt	30 25	28.7 26.8	38.0	Natural.
G. H. Voss	15	28.4	38.0	Aniline color.
				001011

BUTTER-Not Found Adulterated.—Continued.

Station No.	Make or Brand.	Where Obtained.	Date	of (Collection.
7963	Creamery	Covington	May	13.	1901
7974	Creamery	Covington	May	14.	1901
7977	Creamery	Covington	May	14.	1901
7978		Covington	May	14.	1901
	Creamery	Covington	May	14,	1901
7984	Country				
7985	Creamery	Covington	May	14,	1901
7989	Creamery	Covington	May	14,	1901
8000	Creamery	Covington	May	14,	1901
8002	Creamery	Covington	May	14,	1901
8005	Clover Creamery	Covington	May	14,	1901
8008	Creamery	Covington	May	14,	1901
8009	Country	Covington	May	14,	1901
8010	Country	Covington	May	14,	1901
8017	Creamery	Covington	May	14,	1901
8020	Country	Covington	May	14.	1901
8022	Creamery	Newport	May	14.	1901
8023	Country	Newport	May	14,	1901
8025	Creamery	Newport	May	15,	1901
8027	Creamery	Newport	May	15.	1901
8031	Creamery	Newport	May	15.	1901
8038		Newport	May	15.	1901
8039			May	15.	1901
	Creamery			15.	1901
8040	Country	Newport	May		1001
8093	Country	Owensboro	May	13,	1901
8094	Country	Owensboro	May	13,	1901
8098	Country	Owensboro	May	14,	1901
8108	Country	Owensboro	May	15,	1901
8109	Country	Owensboro	May	15,	1901
8441	Country	Louisville	Aug.	3,	1901
8789	Creamery	Lexington	Oct.	29,	1901
7927	Country	Owensboro	May	7,	1901
7929	Creamery	Owensboro	May	7,	1901
7954	Creamery	Covington	May	13,	1901
8101	Country	Owensboro	May	14.	1901
8102	Country	Owensboro	May	14.	1901
8103	Creamery	Owensboro	May	14.	1901
8104		Owensboro	May	14.	1901
8714			Oct.	10.	1901
*9066	Creamery		Dec.	20.	1901
3000	Creamery	Lexington	Dec.	20,	TOOT

^{*}Sent for infomation.

BUTTER-Not found Adulterated.—Continued.

The William St. 1	Retail		Analytical D	ata.
From Whom Obtained.	Price per pound.	Reichert, M.	Valenta Test Degrees C.	Color.
J. J. Schular	25	27.5	49.0	
E. J. Goebel	25	26.6	42.0	Aniline color
H. Steppenfield	26	27.9	41.0	Aniline color
. H. Steppenfield	26	29.4	41.0	Aniline color
M. Niehaus	25		40.0	Azo dye.
M. Niehaus	14	31.0	33.0	Natural.
W. R. Miller		29.0	43.0	Azo dye.
G. T. Ellison	25	29.5	36.0	Azo dye.
no. Dalheim		28.9	40.0	Natural.
no. Evans	25	27.2	40.0	Aniline.
meara Bros	20	29.7	40.0	Aniline colo
iffen Bros	25	29.4	42.0	Aniline colo
J. I. Voung	22	30.0	36.0	Natural.
V. L. Young	30	28.0	38.0	Natural.
H. Voss	23	29.3	37.0	Azo dye.
H. Voss, Myer & Bro	20	29.5	34.0	muo ajc.
	30	30.0	51.0	Azo dye.
	20	33.3	33.0	Azo dye.
David Brunk	26	29.9	39.0	Azo dye.
d Quinn	24	30.0	41.0	Azo dye.
tto Deppenbrock	30	30.1	35.0	Azo dye.
rank Fecker	16	27.0	37.0	The construction of the co
. W. Wilson	25	29.7	37.0	Azo dye.
. W. Wilson	20	33.0	31.0	
. J. Gavin, Jr.	25	31.1	32.0	
d Francke & Son	25	30.8		
. W. Meek	25	26.4	34.0	
R. Lancaster	25	27.9	45.0	
. H. O'Flaherty	25		37.0	
. B. Swift	20	28.3	38.0	
ogt & Foley	25	27.2	35.0	Natural.
. E. Fournier	25		42.0	
rank Meier & Bro	25	31.6	30.0	
. Hamilton Grocery Co	25	29.0	40.0	Azo dye.
O. May		27.6	43.0	Azo dye.
inegar & Linegar	25	24.5	44.0	
W. Reinhardt	25	26.5	49.0	
W. Reinhardt	25	26.9	27.0	
root A & D Too Co	20	27.5	28.0	
reat A. & P. Tea Co	24	31.9	43.0	Aniline.
oster Butner			32.0	No antisept.

BUTTER-Found Adulterated.

Station No.	Name of Brand or Make.	Where Obtained.	Date of Collection.	From Whom Obtained.
6886 8788 8791 8793	Fresh Butter Dairy Butter Creamery Butter Creamery Butter	Lexington Lexington Lexington	Oct. 28, 1901 Nov. 1, 1901 Nov. 2, 1901	J. Rule, Goshen, sent sample. Mrs. Ella Chinn sent sample. Wm. Lyons J. M. Moberly Blue Grass Gro. Co. J. W. Pittinger

CANNED GOODS.

Station No.	Where Obtained.	From Whom Obtained,	Date of Collection.	Price Paid.	Manufacturer.
\$697 8699 8704 8712 8713 8720 \$726 8728 \$730 8736 8729 7972	Louisville Louisville Louisville Louisville Louisville Nicholasville Nicholasville Nicholasville Nicholasville Nicholasville Nicholasville Nicholasville Covington	R. L. Goucher H. Higgs & Son . D. S. Waide Rebt. Hare D. S. Waide	Oct. 14, 1901 Oct. 14, 1901 Oct. 14, 1901 Oct. 14, 1901	10 10 15 15 10 10 10 10 15 10 11 10	Gibbs Preserving Co. Morgan & Clarke J. T. Schroth Circleville Canning Co. Peckaway Canning Co. J. I. Hayner & Co. Cobb Preserving Co. Thos. J. Myers & Co. New London Canning Co. Hageman & Harting Martin Wagner Co.

BUTTER-Found Adulterated

7	1	Analytical Data.							
Retail Price Per Lib.	Reich- ert, M.	Valenta Test De gree C.	Fat Per Cent.	Water Per Cent.	Color.	REMARKS.			
25	21.7	59.0			Artific'l	20% Oleomargarine			
25 25		48.0 47.0 44.0	49.49 46.88	49.37 44.30 46.07	Artific'l	Process Butter Process Butter Process Butter	Salt, 3.9%,		
25	19.4	51.0			Natural	Oleomargarine, 25%	Salt, 4.62%,	Casein,	2.43%.

CANNED GOODS.

Brand.	Antiseptic.	REMARKS.
Early Valentine String Beans Sugar Corn Sugar Corn Sugar Corn Grated Pine Apple Purity Sugar Corn Warren's Sugar Corn	No Salicylic or Boric Acid No Salicylic Acid No Boric Acid No Salicylic No Salicylic	Not found adulterated—no copper. Not found adulterated. Not found adulterated.

FEEDING STUFFS-Not Found Adulterated.

station No.	Name.	Date of Collection.	Where Obtained.	From Whom Obtained.
7120 7121 7123 7124	Bran	Nov. 30, 1900	Louisville	Callahan & Sons

FEEDING STUFFS-Found Adulterated.

Station No.	Name.	Date of Collection.	Where Obtained.	From Whom Obtained.		
7122	Mixed Feed	Nov. 30, 1901	Louisville	A. C. Schuff		

PEPPER, SPICES, ETC.—Not Found Adulterated.

7996 Black pepper, bought of B. H. Kroger, Covington Ky., May 14, 1901, Contains too little pepper starch and too much pepper hull. Probably not adulterated with anything foreign in pepper berry.

FEEDING STUFFS-Not Found Adulterated,

Manufacturer.	Protein Per Cent.	Foreign Material.	REMARKS.
J. D. Guthrie & Sons	15.75	Some Fragments of Gr. Cobs.	
J. D. Guthrie & Sons Ky. Milling Co	16.37	Fragments of Cockle	Very clean sample.

FEEDING STUFFS-Found Adulterated,

Manufacturer.	Protein Per Cent.	Foreign Material,	REMARKS.
Cy. Milling Co	14.12	Ground Corn Cobs	

PEPPER-Found Adulterated.

- 8710 Ground black pepper, bought of Wolff & Sons, Louisville, October 10, 1901 Contains some foreign starch.
- 8715 Ground black pepper, Great A. & P. Tea Co., Louisville, October 10, 1901. Contains foreign starch.

JELLIES, PRESERVES, ETC.—Not Found Adulterated.

Station No.	Name or Brand on Label, or Stated.	Where Obtained.	Date of Collection.	Price Paid,	From Whom Obtained.
7964 7971 7973 7979 7980 8106 8783 8785 8787 8107 8008	Pure White C. Honey Jello Pure Honey Strawberry Pomona Pure Honey Damson Preserves Wild Plum Jelly Green Gage Jam Gooseberry Jam Raspberry Jam Currant Jelly	Covington Covington Covington Owensboro Lexington Lexington Lexington Owensboro	May 14, 1901 May 14, 1901 May 14, 1901 May 14, 1901 Oct. 25, 1901 Oct. 25, 1901 Oct. 25, 1901 May 17, 1901	20	J. L. Hilker E. J. Goebel E. J. Goebel I. H. Seppenfield I. H. Seppenfield R. B. Pottinger Mrs. T. H. Clay Mrs. T. H. Clay Mrs. T. H. Clay R. B. Pottinger Jno. Dalheim

JELLIES, PRESERVES, ETC.—Found Adulterated.

Station No.	Name or Brand on Label, or Stated.	Price Paid.	Where Obtained.	From Whom Obtained.	Date of Collection.
7213 7215 7611 7953 8014 8016 8650	Raspberry Jelly Apricot Jam Apple Butter Raspberry Jam Currant Jelly, Acme Crab Apple Jelly Red Raspberry Pres.	10 10 10 10 10	Elizabethtown Richmond Covington Covington	Davis & Williams G. Watkins Higgins & Ellis R. Hamilton Gro Geo. Reedy Geo. Reedy Wm. Cummings	Dec. 19, 1900 Feb. 2, 1901 May 13, 1901 May 14, 1901

JELLIES, PRESERVES, ETC.—Not Found Adulterated.

	Analyti	cal Data.				
Manufacturer or Producer.	Polarization Direct.	Polarization Invert.	Temp.	Sugar Per Cent.		
F. W. Muth & Co. Genisee Pure Food Co. C. H. Webber P. J. Riller C. H. Webber Mrs. T. H. Clay Mrs. T. H. Clay Mrs. T. H. Clay Goodwin Pres. Co. Cruikshank Bres. & Co.	+29. 8.5 +44. -10.0 +12.4 + 6.0 1.2 4.4	+15.5 -22.0 -10.5 +39.2 -12.0 -7.1 -10.7 -9.6 -9.7 -17.8 -9.8	31. 31. 31. 26. 31. 21. 21. 21. 21. 26.	1.97 79.2 1.5 7.3 1.5 30.2 66.2 44.8	Glucose 26 per cent. so labeled. No Salicylic or Benzoic.	

JELLIES, PRESERVES, ETC.—Found Adulterated.

Manufacturer or Wholesaler.	Polarization Direct.	Polarization Invert.	Sugar Per Cent.	Color.	REMARKS.
Louisville Preserving Co. Idea Preserving Co. Exley, Watkins & Co. Austin, Nichols & Co. Flaccus Bros. Lutz & Schramm	$+119.0 \\ +38.0 \\ +31.3 \\ +9.1 \\ +36.2$	+125.6 +107.0 + 37.0 + 20.4 + 5.5 + 33.5 - 4.2	16.6 5.5 4.1 8.8	Aniline	Glucose. Glucose 25 per cent Glucose 18 per cent Glucose 5 per cent Glucose 20 per cent

Station No.	Where Ob	otained.		Date	e of C	collection.		Seller or Producer.
6651	Louisville .		April	10.	1900			A. J. Phillips
6652	Louisville .		April	10,	1900		4950 R	F. Schurch
6653	Louisville .		April		1900			Gauman Bros
6655	Louisville .		April	10,	1900			Frank & Keller
6656			April April	10,	1900 1900			George Laible
6660 6661	Louisville .		April	11,	1900			H. E. Lewman
6663	Louisville .		April		1900			H. E. Lewman
6665	Louisville .		April	11,	1900		12000	H. E. Lewman
6667			April	11,	1900			H. E. Lewman
6668	Louisville .		April April	11,	1900 1900			H. E. Lewman
6670	Louisville .		April		1900			Mrs. D. Kluer
6671 6672			April		1900			J. G. Strohmiers
6673	Louisville .		April	13,	1900			Ky. Dairyman's Exchange
6674	Louisville .		April		1900			F. Bauer & Sons
6675			April		1900			Ky. Dairyman's Exchange Ky. Dairyman's Exchange
6676	Louisville		April April		1900 1900			Ky. Dairyman's Exchange
6678 6679	Louisville Louisville		April		1900			Ky. Dairyman's Exchange
6681	Louisville		April		1900			J. Peiper
6682	Louisville		April		1900			Andy Kaelin
6683			April		1900			E. W. Sewell
6684	Louisville		April April		1900 1900			D. H. Ewing & Son
6685 6686	Louisville		April		1900			J. Thies
6687	Louisville		April	4 4	1900			H. E. Lewman
6688	Louisville		April		1900			H. E. Lewman
6689			April					H. E. Lewman
6690			April					J. C. Straub
6691 6692	Louisville Louisville		April					F. W. Meihoff
6693	Louisville		April		1900			Jas. Kaelin
6694	Louisville		Apri					W. & H. Wetterau
6695	Louisville		Apri					B. Greive
6696			Apri Apri					D. H. Ewing & Sons
6697			Apri					D. H. Ewing & Sons
6699			Apri					D. H. Ewing & Sons
6700	Louisville		Apri					D. H. Ewing & Sons
6701			Apri				Market Pri	Simon & Goldstein
6702			Apri Apri				lic/Posithur!	H. Harlammert
6703	Louisville							K. Kaelin
6704 6709	Louisville		The second second					Fred Meyer
6710	Louisville		Apri					Fred Meyer
6711	Louisville		Apri					B. Bodeman Wm. Onill
6712	Louisville		Apri			A SECTION OF THE PROPERTY OF T	000000	H. Friecks
6713	Louisville		Anri					Jno. Stockenborg
6714 6715	Louisville		Apri	1 20	, 1900			J. D. Broderic
6716	Louisville		. Apr					L. Leibert
6717	Louisville							Weaver Bros
6718	Louisville							Jas. Reinert
6719			Ann			00		
6721 6722			Ann			000		W. C. Cope
6723	SHOW IN COLUMN TO SHOW IN COLUMN TO SHOW		. Apr			000		S. J. McCaddle
6724	COLUMN TO SERVICE AND ADDRESS OF THE PARTY O		. Apr	ACCUMPAGE		900		를 받는 것 같다. 이 전 프라마스 (전 기업) (4 시간) 를 보고 있다. () () () () () () () () () (
6725	Louisville		Amr			900		
673			Ant			900		
6733			A			900		C. H. Merhoff & Son
6733			San Aller Annual Control			900		U. L. Ragland & Son
673 673			1 4		30, 19	900		Von Gounigen Bros
673			. Apr	il 8		900		Chas. Kaelin
673			. Apı			900		
673	Louisville		The beautiful the service of the	il a		900		Hall Bros.
674	Louisville							

		Analytical	Data.			
Specific Gravity.	Fat Per Cent.	Solids, not Fat Per Ct.	Total Solids, Per Cent.	Antisep-	Color.	REMARKS.
1.0287 1.0335 1.0305	6.4 3.0 3.6	8.60	15.00	None	None	Fats, low.
1.0340	3.4	8.49 9.32	12.09 12.72	"	"	Fats, low.
1.0295	3.6	8.23	11.83	"		Fats, low. Fats, low.
1.0290	4.0	8.19	12.19	**	"	rats, low.
1.0300 1.0285	4.1	8.46	12.56		"	Frank Potter.
1.0340	5.4	7.90	11.11			Fats, low-Chas. Swartz.
1.0305	3.0	8.37	11.37	**		Fats, low-E. A. Dun. Fats, low-Lewman & Graves
1.0315	3.8	8.77	12.57	66	**	Fats, low-1, 3. Adair.
1.0320 1.0300	3.0	8.74	11.74	"	"	Fats, low-Wm. Sims.
1.0300	3.2	8.28	11.48	"		Fats, low.
1.0295	3.8	8.27	12.07	**		Fats, low. J. L. Simcoe.
1.0340	3.8	8.36	13.20	"	"	J. II. SIMCOE.
1.0300	3.6	8.36	11.96	"		Fats, low-Mrs. A. Corn.
1.0300 1.0305	3.0	8.44	12.44		"	M. C. Colver.
1.0305	4.0	8.57	11.37 12.57	**		Fats, low-J. P. Pound.
1.0305	4.0	8.57	12.57	"	"	A. R. Bennet.
1.0340	4.3	9.50	13.80	"	"	
1.0325 1.0295	4.2	9.11	13.31	"	"	
1.0330	3.5	8.21 9.11	11.71	"		Fats, low.
1.0330	3.3	9.05	12.35	**	"	Fats, low.
1.0265	6.8	8.13	14.93	- 66	"	Fats, low.
1.0295	5.5	8.62	14.12	**	"	S. A. Prather.
1.0270 1.0300	9.4	8.77	18.17	"	"	E. A. Spangler.
1.0280	3.4	8.45 7.82	12.68 11.22	"		Chas. Ashton.
1.0325	3.0	8.87	11.87	"		Fats, low.
1.0315	3.8	8.77	12.57	"	"	Fats, low.
1.0340	3.4	9.32	12.72	"	" /	Fats, low.
1.0325 1.0330	3.5	8.97	12.47 12.59	"		Fats, low.
1.0330	4.2	9.23	13.43	**	**	Fats, low.
1.0310	3.8	8.65	12.45	"		J. D. Wakefield.
1.0325	4.5	9.17	13.67	"	66	G. W. Hardin.
1.0310 1.0310	3.8	8.65 8.49	12.45	"	**	J. L. Collins.
1.0320	3.9	8.92	11.49 12.82	**		Fats, low.
1.0280	3.7	7.88	11.58	"	**	
1.0280	3.6	7.86	11.46	"	"	Fats, low.
1.0315 1.0325	4.0	8.82	12.82	16	**	
1.0285	3.5	9.15 7.97	13.15 11.47	"	44	A. Koehler.
1.0285	5.0	8.27	13.27	**	- "	
1.0305	3.4	8.45	11.85	"	"	1 2 4 7 5 7
1.0325	3.3	8.93	12.23	"		Fats, low.
1.0310 1.0325	$\frac{3.1}{3.2}$	8.51 8.91	11.61 12.11	"	"	Fats, low.
1.0315	4.0	8.82	12.82		"	Fats, low.
1.0280	3.4	7.82	11.22		"	Fats, low.
1.0315	3.2	8.65	11.85	"	" 1	Fats, low.
1.0325 1.0305	4.2	9.11	13.31	"	"	
1.0315	$\frac{5.0}{3.4}$	8.77 8.69	13.77 12.09		"	Low in Fats.
1.0315	3.3	8.67	11.97	"	44	Low in Fats.
1.0310	4.6	8.81	13.41		Annatto	
1.0300	2.8	8.20	11.00		None	Low in Fats
1.0310	$\frac{6.2}{3.0}$	9.13 8.49	15.33 11.49	•••••		Low in Fata
1.0315	4.0	8.82	12.52			Low in Fats.
1.0340	4.4	9.52	13.92			
1.0340	3.0	9.36	12.96			Low in Fats.
1.0320 1.0320	3.0	8.74	11.74			Low in Fats.
1.0325	3.2	9.02 8.91	13.42 12.11	•••••		Low in Fats.
		0.01	12.11			LOW III Pats.

No.	Whole c	btained.	Date	e of Collection.	Seller or Producer.
6741	Louisville			1900	Jno. Tobb
6742	Louisville		May 2	1900	L. Brumleve
6744	Lorisville		May 2,	1900	A. Wilman
6747	Louisville			1900	F. Von Allmen, Jr.
6748	Louisville		May 2, May 2,	1900	P. Von Allmen
6750	Louisville		August 2	. 1900	H. S. Lawson
6936	Lexington Lexington		August 2	1900	R. D. Huffman
6937 6938	Lexington		August 2	. 1900	M. G. Featherston
6939	Lexington		August 2		N. B. Haggard
6940	Lexington		August 2	, 1900	N. B. Haggard
6941	Lexington		August 2	1000	M. R. Perkins
6942	Lexington		August 2	. 1900	R. L. & E. L. Parker
6944	Lexington		August 2		J. B. Baudekofel
6945	Lexington		August 2		Kriegel Bros
6946 6947	Lexington Lexington		August 2	. 1900	Kriegel Bros
6948	Lexington		August 2	, 1900	D. A. Trapp
6949	Lexington		August 2	1000	John Furrer
6950	Lexington		August 2	, 1900	Ed Downing
6951	Lexington		August 2		G. Kraehenbuehl
6952	Lexington		August 2	, 1900	Odd Fellows' Home
6953	Lexington		August 2		M. L. Henry
6954	Lexington		August 2		Mrs. N. B. Frazier
6955	Lexington		August 2	. 1900	Geo. W. Jett
6956 6957	Lexington		August 2	. 1900	W. B. Hawkins
6958	Lexington			3, 1900	J. E. Lilly
6959	Lexington		August 6	5, 1900	Lear Bros
6960	Lexington			5, 1900	Mrs. E. E. Berry
6961	Lexington			3, 1900 3, 1900	Jas. P. Headley
6962	Lexington			5, 1900 3, 1900	Mrs. G. A. Thompson
6963	Lexington			3, 1900	Walter Dingle
6964	Lexington			3, 1900	Albert Schuler
6965 6967	Lexington			3, 1900	Mrs. Mary L. Sayre
6968	Lexington			3, 1900	TO T Tilly
6970	Lexington			3, 1900	Mrs. L. B. Shouse
6971	Lexington			8, 1900 8, 1900	G L Ballard
6972	Lexington				
6973	Lexington			8, 1900	
6974	Lexington	•••••		1900	
6975 6977	Lexington			1900	W. B. Taylor
6978	Lexingtin			1900	J. M. Downing
6979	Lexington			1900	Ino Furrer
6980	Lexington			1900	J E Muir
6981	Lexington			1900	W. B. Taylor
6982			Aug 9.	1900	Ed Downing
6983		1	Aug. 9.	1900	M. A. Pharis
6984 6985		1	Aug. 9,	1900	W. F. Wheatley
6987		1	Aug. 9.	1900	. G Trill + '8 Dans
8048	Newport		May 16,	1901	P Young & Son
8049	Newport		May 16,	1901	Wannah Dwog
8050	Newport		May 16,		Wersch Bros
8051	Newport		May 16,	1901	Wersch Bros
8052	Newport		May 16,		I D Burgman, Jr
8053 8054	Newport Newport		May 16.	1901	F. Hunleman
8055	Newport		May 16.	1901	. N. Northeide
8056	Newport		May 16,	1901	. Jno. F. Long
8057	Newport		May 16.	1901	. Jno. F. Long
8058	Newport		May 16,	1901	
8059	Newport		May 16,	1901 1901	A Young
8060	Newport			1901	Mrs. Young & Son
8061	Newport		May 16,	1901	A Young
8062 8063	Newport		May 16	1901	

		Analytical					
Specific Gravity.	Fat Per Cent.	Solids, not Fat Per Ct.	Total Solids, Per Cent.	Antisep-	Color.	REMARKS.	
1.0300 1.0320	3.2	8.28 8.78	11.48 11.98			Low in Fats-Wilson	Clan.
1.0295	3.4	8.19	11.59	•••••	••••••	Low in Fats. Low in Fats.	
1.0320	5.2	9.18	14.38			now in Fats.	
1.0310	3.0	8.49	11.49			Low in Fats.	1
1.0330 1.0320	3.0	8.99 8.83	11.99			Low in Fats.	
1.0340	4.6	9.44	12.93 14.00	•••••			
	0.3	l				Buttermilk.	
1.0360	4.8	9.99	14.79				
1.0320	0.4					Buttermilk.	
1.0350	5.6 4.2	9.15 8.98	14.75 13.82	•••••			
1.0340	5.0	9.52	14.52	•••••			
1.0320	6.0	9.23	15.23				
1.0330	5.2	9.27	14.47			190	
1.0320 1.0320	0.5	8.10	8.60			Buttermilk.	
1.0320	4.8	8.98 8.76	13.78 13.76				
1.0320	4.4	8.90	13.30	• • • • • • • • • • • • • • • • • • • •			
1.0320	5.0	9.02	14.02				
1.0310	4.7	8.70	13.40				
1.0340	5.0	9.52	14.52				
1.0320	4.6	8.94	13.54				
1.0330	4.6	$9.13 \\ 9.19$	13.43	• • • • • • • • •			
1.0340	4.0	9.32	13.32	• • • • • • • • • • • • • • • • • • • •			
1.0330	4.6	9.19	13.79				
1.0330	4.1	9.09	13.19				
1.0340 1.0320	4.1	9.34	13.44				
1.0330	4.5	8.92 9.17	13.42 13.67				
1.0310	4.7	8.85	13.05	•••••	· · · · · · · · · · · · · · · · · · ·		
1.0310	4.7	8.70	13.40				
1.0340	4.0	9.32	13.32				
1.0340	5.1	9.54	14.64				
$1.0300 \\ 1.0330$	3.7 4.9	8.25 9.25	11.95				
1.0310	4.2	8.60	14.15 12.80	• • • • • • • • • • • • • • • • • • • •			
1.0320	3.9	8.79	12.69	• • • • • • • • • • • • • • • • • • • •			
1.0330	4.9	9.25	14.15			entransis en	
1.0330	5.4	9.36	14.76	None	None		
1.0340	4.8	9.48	14.28	"		D 1	
1.0310	5.6	8.89	14.49	"	"	Buttermilk.	
1.0320	5.4	9.10	14.50	"			
1.0330	5.0	9.27	14.27	• • •	4.6		
1 0040	0.6		,	"	44	Buttermilk.	
1.0340 1.0310	4.8	9.48	14.28	"	"		
1.0320	5.4	8.62 9.10	12.92	"			
1.0320	4.3	8.88	13.18	"	"		
1.0320	4.8	8.98	13.78	"			
1.034				"	44	Sample broken.	
1.034	4.2	9.36	13.56	"	"		
1.031	3.9	8.79	12.69 12.80	"	"		
1.031	4.6	8.68	13.28	"	"		
1.029	3.2	7.89	11.09	"	"	Fats low.	
1.033	4.0	9.06	13.06	"	"		
1.034 1.034	4.0	9.32	13.32	"			
1.034	4.2	9.36 9.36	13.56	"	"		
1.033	4.1	1.08	13.56 13.18	"	"		
1.031	5.6	8.89	14.49	"			
1.034	4.5	9.42	13.92	"	"		
1.034	3.9	9.30	13.20	44	"		
1.034 1.032	4.2	9.36	13.56	"	"		
1.004	7.0	8.81	12.81	16	44		

No.	Where Obtained.	Date of Collection. Seller or Producer.
8064	Newport	May 16, 1901 P. Young
8065	Newport	May 16, 1901 Wm. Percy
8066	Newport	
8067	Newport	May 16, 1901 Mrs. H. A. Northcott
8068	Newport	
8069	Newport	
8070	Newport	
8071	Newport	
8072 8073	Newport	7. Tr1.1
8074	Newport	
8075	Newport	77 11
8076	Newport	May 16, 1901 P. Young
8077	Newport	
8078	Newport	
8079	Newport	
8080	Newport	T-1- 10 1001
8225 8226	Lexington	7 1 40 4004
8227	Lexington	T 1 40 4004
8228	Lexington	July 18, 1901 Ky. Pasteurizing Co
8229	Lexington	
8230	Lexington	July 18, 1901 H. S. Lawson
8231	Lexington	July 18, 1901 J. R. Tucker
8232	Lexington	July 18, 1901
8233	Lexington	
8234	Lexington	
8235	Lexington	
8236 8237	Lexington	July 18, 1901
8238	Lexington	Table 10 1001
8239	Lexington	July 18, 1901 7, A. Thompson
8240	Lexington	July 18, 1901 Mrs. M. B. Frazee
8241	Lexington	July 18, 1901 B. A. Wilson
8242	Lexington	July 18, 1901 J. E. Lilly
8243	Lexington	T-1- 40 4004 35-(Y Drog
8244	Lexington	T-1- to toot
8245 8246	Lexington	July 18, 1901 L. & H. Kreigal
8247	Lexington	July 18, 1901 Williams Bros
8248	Lexington	July 18 1901 Odd Fellows' Home
8249	Lexington	Inly 18 1901 W. B. Taylor
8274	Lexington	
8275	Lexington	July 23, 1901 E. W. Jackson July 23, 1901 J. W. Clarke
8276	Lexington	
8277 8278	Lexington	Inly 23 1901 M. R. Perkins
8279	Lexington	Tuly 92 1901 Mrs E E Berry
8280	Lexington	July 23, 1901 E. T. Lilly
8281	Lexington	
8282	Lexington	July 23 1901 W. B. Taylor
8283	Lexington	July 23, 1901 W. B. Taylor
8284	Lexington	July 23, 1901 I. H. Parker July 23, 1901 Lear Bros
8285	Lexington	
8224	Lexington	
9057 9058	Lexington	December 14 1901
9061	Lexington	December 18, 1901
	Lexington	December 18 1901
8379	Lexington	July 20, 1901 L. & H. Kreigel
7888	Lexington	May 7, 1901
7889	Lexington	May 7, 1901

MILK-Not Found Adulterated.

200		Analytical	Data.			
Specific Gravity	Fat Per Cent.	Solids not Fat Per Ct.	Total Solids Per Cent.	Antiseptic.	Color.	REMARKS.
1.032	4.6	8.94	13.54	None	None	
1.034	4.0	9.32	13.32	"		
1.034	3.6	9.24	12.84		•	Fats, low.
1.033	4.8	8.47	13.27		**	
1.030 1.033	6.6					
1.033	3.8	9.02 7.34	12.82 11.54			
1.032	3.0	8.61	11.61	**	-66	Fets low
1.034	3.8	9.28	13.08		44	Fats, low.
1.034	4.2	9.36	13.56	1.66	44	
1.035	4.8	9.75	14.55	**		
1.033	4.2	9.11	13.31		"	1
1.035	3.6	9.49	13.09	"	"	Fats, low.
1.031	4.6	8.68	13.28	"		
1.031	5.2	8.81	14.01			C 1 1
1.027 1.034	10.0	9.38	13.68	66.	"	Cream, low in fat.
1.032	4.4	8.90	13.30	di 11	44	
1.032	4.7	8.96	13.66		- 44	
1.032	4.9	9.00	13.90		**	
1.031	4.6	8.68	13.28	1	**	
1.032	5.8	9.19	14.99	.,	**	
1.033	4.7	9.21	13.91	"	"	
1.033	4.5	9.17	13.67	"		
1.030	4.1	8.33	12.43			
1.032	4.3	8.88	13.18	66	"	Flata la-
1.032	3.4	8.69	12.09			Fats, low.
1.033 1.032	4.2	9.11	13.31 13.78	"	1 "	
1.036	4.3	9.89	14.19	44	14	
1.031	4.4	8.64	13.04	"	"	
1.031	4.5	8.66	13.16	. "	"	
1.032	4.8	8.98	13.78	"	"	
1.033	5.1	9.29	14.39			
1.033	5.0	9.27	14.27			
1.032	5.3	9.08	14.38	"	"	
1.032	5.2	9.06	14.26	**	**	
1.031 1.033	4.1	8.70	13.40	••	44	
1.032	4.8	9.23	14.03 13.18	"	**	
1.032 1.032	4.9	9.00	13.90	"	"	
1.033	3.1	8.88	11.98	"		Fats, low.
1.032	3.6	8.73	12.33	"	"	" "
1.030	4.5	8.41	12.91			
1.032	4.6	8.94	13.54		**	
1.032	4.4	8.90	13.30	"	"	
1.033	3.7	9.00	12.70	"	44	Fats, low.
1.031	4.6	8.68	13.28	"	"	~ 400, 1011.
1.030	5.0	8.51	13.51	"	**	
1.030	3.5	8.21	11.71	"	"	Fats, low.
1.030 1.032	6.4	8.94	12.34			His own sample.
1.030	3.4	8.19	11.59		"	Fats, low.
1.031	3.9	8.54	12.44	"		
1.033	4.8	9.23	14.03	"	**	
1.030	5.2	8.55	13.75	**	44	
1.035	5.3	9.82	15.12	"	"	
1.032	3.4	8.69	12.09	"	44	Sent by R. VanDyke.
1.031	3.4	8.44	11.84	"	"	"
1.028	;.;	7.00	10.20	""	"	Sent by W. H. Warren.
1.028	4.4	7.89 7.91	12.29 12.41			Sent by F. W. Gann.

MILK-Found Adulterated.

Company	Station No.	Where Obtained.	Date of Collection.	Seller or Producer.
Comparison Com				
Louisville	6654	Louisville	April 10, 1900	J. T. Davis & Son
Comparison Com	6657	Louisville	April 10, 1900	M. Norris
Louisville	6658	Louisville	April 10, 1900	Blue Grass Milk Depot
Color	6659	Louisville	April 10, 1900	Hikes & Hess
Comparison Com	6662	Louisville	April 11, 1900	H. E. Lewman
Color	6664	Louisville	April 11, 1900	
Louisville	6666	Louisville		
Louisville	6969	Louisville	April 11, 1900	
Comparison Com	6677	Louisville	April 13, 1900	Kentucký Dairyman's Exchange
Comparison Com		Louisville	April 13, 1900	
6706 Louisville April 19, 1900. " " 6707 Louisville April 19, 1900. " " 6708 Louisville April 20, 1900. Mrs. L. C. Marsh 6720 Louisville April 27, 1900. Katle Sauer 6726 Louisville April 27, 1900. J. R. Wigginton 6727 Louisville April 27, 1900. J. W. Pittinger 6728 Louisville April 27, 1900. M. J. Steinmetz 6729 Louisville April 27, 1900. Mrs. Burke 6730 Louisville April 30, 1900. B. M. Leinert 6736 Louisville April 30, 1900. B. M. Leinert 6743 Louisville May 21, 1900. F. Sanders 6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6943 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. E. W. Jackson 6976 Le			April 19, 1900	Louis Meyer
Comparison Com				
Comparison Com				
6720 Louisville April 20, 1900. Mrs. L. C. Marsh 6726 Louisville April 27, 1900. Katie Sauer 6727 Louisville April 27, 1900. J. R. Wigginton 6728 Louisville April 27, 1900. J. W. Pittinger 6729 Louisville April 27, 1900. Mrs. Burke 6730 Louisville April 27, 1900. Mrs. Burke 6736 Louisville April 30, 1900. B. M. Leinert 6743 Louisville May 21, 1900. F. Sanders 6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6943 Lexington August 2, 1900. W.F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor 6987 Lexington August 8, 1900. E. W. Jackson			April 19, 1900	
6726 Louisville April 27, 1900 Katie Sauer 6727 Louisville April 27, 1900 J. R. Wigginton 6728 Louisville April 27, 1900 J. W. Pittinger 6729 Louisville April 27, 1900 M. J. Steinmetz 6730 Louisville April 27, 1900 Mrs. Burke 6736 Louisville April 30, 1900 B. M. Leinert 6743 Louisville May 21, 1900 F. Sanders 6745 Louisville May 21, 1900 Geo. Berry 6749 Louisville May 21, 1900 Jno. Gassman 6943 Lexington August 2, 1900 W. F. Wheatley 6955 Lexington August 6, 1900 J. B. Hunt 6966 Lexington August 6, 1900 E. W. Jackson 6976 Lexington August 8, 1900 W. B. Taylor 6987 Lexington August 8, 1900 E. W. Jackson			April 20, 1900	Mrs. L. C. Marsh
Comparison Com			April 27, 1900	Katle Sauer
6728 Louisville April 27, 1900. J. W. Pittinger 6729 Louisville April 27, 1900. M. J. Steinmetz 6730 Louisville April 27, 1900. Mrs. Burke 6736 Louisville April 30, 1900. B. M. Leinert 6743 Louisville May 21, 1900. F. Sanders 6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6949 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor 6986 Lexington August 8, 1900. W. B. Taylor			April 27, 1900	J. R. Wigginton
6729 Louisville April 27, 1900. M. J. Steinmetz 6730 Louisville April 27, 1900. Mrs. Burke 6736 Louisville April 30, 1900. B. M. Leinert 6743 Louisville May 21, 1900. F. Sanders 6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6943 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor 6986 Lexington August 8, 1900. W. B. Taylor			April 27, 1900	J. W. Pittinger
6730 Louisville April 27, 1900. Mrs. Burke 6736 Louisville April 30, 1900. B. M. Leinert 6743 Louisville May 21, 1900. F. Sanders 6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6943 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor Copper Lexington August 9, 1900. F. W. Jackson			April 27, 1900	M. J. Steinmetz
6736 Louisville April 30, 1900. B. M. Leinert 6743 Louisville May 21, 1900. F. Sanders 6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6943 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor 6987 Lexington August 9, 1900. E. W. Jackson			April 27, 1900	Mrs. Burke
6743 Louisville May 21, 1900. F. Sanders 6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6943 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor 6987 Lexington August 8, 1900. W. B. Taylor 6997 Lexington August 8, 1900. W. B. Taylor			April 30 1900	B. M. Leinert
6745 Louisville May 21, 1900. Geo. Berry 6749 Louisville May 21, 1900. Jno. Gassman 6943 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor 6986 Lexington August 8, 1900. W. B. Taylor			May 21, 1900	F. Sanders
6749 Louisville May 21, 1900 Jno. Gassman 6943 Lexington August 2, 1900 W. F. Wheatley 6959 Lexington August 6, 1900 J. B. Hunt 6966 Lexington August 6, 1900 E. W. Jackson 6976 Lexington August 8, 1900 W. B. Taylor 6986 Lexington August 9, 1900 E. W. Jackson			May 21, 1900	Geo. Berry
6943 Lexington August 2, 1900. W. F. Wheatley 6959 Lexington August 6, 1900. J. B. Hunt 6966 Lexington August 6, 1900. E. W. Jackson 6976 Lexington August 8, 1900. W. B. Taylor 6986 Lexington August 8, 1900. F. W. Jackson			May 21, 1900	Ino. Gassman
6959		1 220 020 1220 11111	August 2 1900	W. F. Wheatley
6966 Lexington August 6, 1900 E. W. Jackson 6976 Lexington August 8, 1900 W. B. Taylor August 8, 1900 W. B. Taylor 1900 E. W. Jackson August 9, 1900 E. W. Jackson			August 6 1900	J B Hunt
6976 Lexington August 8, 1900 W. B. Taylor			August 6 1900	E W. Jackson
cook Lovington August 9 1900 E. W. Jackson			August 8 1900	W. B. Taylor
0900 Hearington August 5, 1000			August 9 1900	E W Jackson
			Mor 91 1000	T Nielson
6746 Louisville May 21, 1900 J. Nielsen W. B. Taylor W. B. Taylor	6746		April 17 1000	W R Toylor

MILK-Found Adulterated.

	Analytical Data								
REMARKS.	Antiseptic.	Color.	Total Solids, Per Cent.	Solids not Fat Per Ct.	Fats Per Cent.	Specific Gravity.			
ats low.	Formalin	None	11.96	8.36	3.6	1.0298 1.0320			
	"	**	11.98	8.78	4.6	1.0325			
lata balan atandar			13.79	9.19 8.50	2.4	1.0325			
ats below standar	None	"	$ \begin{array}{c c} 10.90 \\ 9.62 \end{array} $	6.62	3.0	1.0235			
Vatered.			10.23	7.03	3.2	1.0250			
"	**	"	9.87	6.87	3.0	1.0245			
			10.26	7.66	2.6	1.0280			
**	66	"	8.93	6.23	2.7	1.0225			
"		"	10.26	7.66	3.2	1.0275			
	Boric acid	"	12.45	8.55	3.9	1.0305			
	" ucid iiiii	44-	12.92	8.52	4.4	1.0330			
	1 44	"	12.94	8.84	4.1	1.0315			
	••	"	12.71	9.01	3.7	1.0325			
Vatered.	None	**	9.03	6.83	2.2	1.0250			
" and colore	"	Annatto	9.39	6.39	3.0	1.0250			
	"	"	11.58	7.78	3.8 2.3 3.8	1.0275			
" "	"	"	9.39	7.09	2.3	1.0235			
	"		11.83	8.03	3.8	1.0285			
		"	11.25	8.25	3.7	1.0295			
	Formalin	None	11.59	8.09	3.5	1.0290			
	"	"	12.80	8.50	4.3	1.0300			
7-4			12.80	8.50	4.3	1.0300			
Vatered or skimme	None	"	11.03	8.73	2.3 4.8	1.0325 1.0320			
	Formaldehyde	"	13.78 13.79	8.98 9.09	4.8	1.0320			
Vatered.	None		10.11	7.31	2.8	1.0270			
atereu.	None Formaldehyde	"	14.28	9.48	4.8	1.0340			
Tatered.	None		10.4	7.00	3.4	1.0250			
accreu.	Boric acid	"	12.33	8.73	3.6	1.0315			
ent by George Ne	Formaldehyde		12.00	0.10	0.0				

OLEOMARGARINE—Found Adulterated.

Station No.	Bought as	Price per lb.	Where Obtained.	Date of Collection.	From Whom Obtained.
6118	Butter	20e	Lexington	Dec. 13, 1899	Blue Grass Grocery Co
6780	Dairy Butter	20c	Louisville	May 16, 1900	Louisville Tea & Coffee Co.
6791	Dairy Butter	20c	Louisville	May 24, 1900	Hiram Forn
6794	Dairy Butter	20c	Louisville	May 24, 1900	J. & B. Kupper
6796	Dairy Butter	20c	Louisville	May 24, 1900	J. B. Smith
7807	Butter	20c	Louisville	March 16, 1901 March 16, 1901	E. H. Jenne
7808	Butter	20c 20c	Louisville	March 18, 1901	J. W. Weatherton Louisville Tea & Coffee Co
7809 7810	Butter	20c	Louisville	March 18, 1901	J. B. Swift
7811	Oleomargarine	20c	Louisville	March 18, 1901	A. Button & Son
7812	Butter	20c	Louisville	March 19, 1901	M. Wolff & Sons
7813	Oleomargarine	20c	Louisville	March 19, 1901	Chas. A. Heusser
7814	Butter	20c	Louisville	March 19, 1901	E. B. Evans
7815	Butter	25c	Louisville	March 19, 1901	Geo. E. Adams
7816	Oleomargarine	20e	Louisville	March 20, 1901	Jno. Bohlson
7817	Oleomargarine	.20c	Louisville	March 20, 1901 March 20, 1901	Fred. Brinke
7818	Oleomargarine	20c 20c	Louisville	March 22, 1901	G. W. Brown
7819 7820	Oleomargarine	20c	Louisville	March 22, 1901	W. C. Brown
7821	Butter	20c	Louisville	March 22, 1901	W. C. Cope
7822	Oleomargarine	20c	Louisville	March 22, 1901	Chas. Deckel
7823	Oleomargarine	20c	Louisville	March 25, 1901	Edward Frank
7824	Oleomargarine	20c	Louisville	March 25, 1901	W. P. Grigsby
7826	Butter	20c	Louisville	March 26, 1901	Jno. Hardy
7827	Oleomargarine	20c		March 27, 1901 March 27, 1901	S. S. Jones
7828	Oleomargarine	20c 15c	Louisville	March 28, 1901	A. E. Jones
7829	Oleomargarine	20c	Louisville	March 28, 1901	Robt. Lucas
7830 7831	Oleomargarine	25c	Louisville	March 29, 1901	Anton Meyer
7832	Oleomargarine	20c	Louisville	March 29, 1901	Thos. F. Morgan
7833	Butter	25c	Louisville	March 29, 1901	Paul A. Neff
7921	Oleomargarine	20c	Owensboro .	May 7, 1901	C. F. Sturgeon
7922	Oleomargarine	25c	Owensboro .	May 7, 1901	Lee Birk
7925	Oleomargarine	25c 25c	Owensboro .	May 7, 1901	Scherer & Haffendorfer
7932	Butterine	15c	Covington	May 8, 1901 May 13, 1901	R. Hamilton Grocery Co
7955	Oleomargarine	15c	Covington	May 13, 1901	Geo. C. Goode
7957 7961	Oleomargarine	15c	Covington	May 13, 1901	Great China & Tea Co
7969	Oleomargarine	20c	Covington	May 13, 1901	J. L. Hilker
7987	Oleomargarine	15c	Covington	May 14, 1901	J. M. McKinley
7988	Oleomargarine	10c	Covington	May 14, 1901	J. M. McKinley
7992	Oleomargarine	20c	Covington	May 14, 1901	B. H. Kroger
8001	Oleomargarine	16c 12c	Covington	May 14, 1901 May 14, 1901	G. T. Ellison
8013	Oleomargarine	20c	Newport	May 15, 1901	Great China & Tea Co
8028	Oleomargarine	11c	Newport	May 15, 1901	Otto Deppenbrock
8032 8034	Oleomargarine	12c	Newport	May 15, 1901	
8037	Oleomargarine	13c	Newport	May 15, 1901	Frank Fecker
8045	Oleomargarine	15c	Newport	May 15, 1901	B. H. Kroger
8436	Butterine	15c	Louisville	Aug. 2, 1901	F. H. Wirries, Manager
8439	Oleomargarine	15c	Louisville	Aug. 2, 1901	Mammoth Grocery Co
8534	Oleomargarine	20c	Frankfort	Aug. 23, 1901	Howard & Noonan
8553	Oleomargarine	20c	Frankfort	Aug. 24, 1901 Aug. 24, 1901	A. H. Wagner
8554	Oleomargarine	20c 20c	Frankfort	0 1 0 1001	
8636	Oleomargarine	20c	Frankfort	0 1 0 1001	
8637 8709	Oleomargarine	25c	Louisville	Oct. 11, 1901	M. Wolff & Sons
8716	Oleomargarine	15c	Louisville	Oct. 11, 1901	Mammoth Grocery Co
7825	Oleomargarine	15c	Louisville	March 26, 1901	Fred Gansman
7934	Creamery Butter	25c	Owensboro .		
7991	Creamery Butter	20c	Covington	May 14, 1901	G. B. Murphy
8440	Butter	20c	Louisville		
8941	Oleomargarine	20c	l revington	Dec. 10, 1001	1. D. Batter white

OLEOMARGARINE-Found Adulterated.

		Analytic	al Data.		T 1 1 01
Manufacturer.	Reichert,	Valenta Test. Degrees C	Color.	Antiseptic.	Label or Stamp or Package.
		96.0	Annatto		Oleomargarine.
	1.5	88.0	Azo Dye		None.
	0.34	86.0	"		Oleomargarine.
	2.5	89.0	Questionable		
	0.86	93.0	Ara Dra	Powie sold 2007	None.
	1.2	90.0	Azo Dye	Boric acid, 20%	Oleomargarine.
• • • • • • • • • • • • • • • • • • • •	1.7	98.0		Boric acid, 14%	"
	1.0	95.0		Doric acid, 14/6	44
		91.0			
•••••	1.2	98.0	Questionable		44
		88.0	Azo Dye		"
	0.9	90.0	" "		"
	1.0	96.0	" "	*******	"
• • • • • • • • • • • • • • • • • • • •		94.0	" "	• • • • • • • • • • • • • • • • • • • •	
• • • • • • • • • • • • • • • • • • • •		95.0	" "	•••••	
• • • • • • • • • • • • • • • • • • • •		95.0		***************************************	
• • • • • • • • • • • • • • • • • • • •		89.0 92.0			
• • • • • • • • • • • • • • • • • • • •	0.9	89.0			
		92.0	- 11 11		"
• • • • • • • • • • • • • • • • • • • •		92.0	" "		"
		94.0	66 66		"
	0.9	90.0	11 11		66-
		87.0	"		44
		89.0			"
Grom Bros		88.0	" "		"
		90.0		Boric acid, 0.11%	"
	1.7	89.0		Borie acid, 0.15%	"
		89.0			"
Dugue & Eitta	1.8	90.0	"		
Braun & Fitts		88.0	11 11		
		96.0	Aniline		
Columbus Butter Co	2.2	90.0	Aumine		"
Kruggar & Co		87.0			
Julverhill & Ruban		85.0	44	Boric acid	
Ohio Butterine Co		90.0	44	"	"
"		90.0	"	" "	"
11		92.0	"	" "	
" ")	90.0	"	" "	4
Wm. J. Moxley		87.0	"	" "	"
Ohio Butterine Co		79.0	"	" "	
		78.0	"		1
		83.0	**		"
Ohio Butterine Co		83.0	"	Boric acid	"
Ohio Batterine Co.		83.0	44	Boric acid	· · ·
		81.0	44	Boric acid	ii ii
Capital City Dairy Co	1.9	87.0	Annatto		"
Doiry ('O	1.6	83.0	Aniline		
Columbus Butter Co		88.0	Annatto		•
		90.0	"		. "
Ohio Butterine Co		89.0	Aniline		"
Columb is Butter Co		91.0	Annato		"
Dhio Butterine Co		89.0	Aniline		a
		90.0	"		"
		90.0			
	1.5	93.0	44		"
	2.0	87.0	46	Boric acid	**
	2.3	87.0	16	Boric acid, 0.6%	"
Capital City Dairy Co	4.0				

MINCE MEATS-Found Adulterated.

Station Where Obtained.		Date of Collection.	From Whom Obtained.
6128 6130 6221 6467 6481 6492 6493 7612 8092		December 13, 1899. December 15, 1899. April 2, 1900 April 14, 1900 April 18, 1900 April 18, 1900 February 2, 1901	J. W. Parrish Honaker Grocery Co. Jno. O. Keefe Honaker Grocery Co. "" Mammoth Grocery Co. Moses & Nichols L. D. Landers O'Bryan & Lawson

MINCE MEATS-Not Found Adulterated.

Station No.	Where Obtained.	Date of Collection.	From Whom Obtained.
7997	Covington	May 14, 1901	B. H. Kroger

LARD AND OLIVE OILS, ETC.—Not Found Adulterated.

Station No.	Make or Brand on Label or Stated.	Where Obtained.	Price Paid.	Date of Collection.	From Whom Obtained.
7960 7994 7995 8041 8046 8651 8658 8709 8041 8044 7805 7806	Table Oil Olive Oil Salad Oil Olive Oil Lucca Oil Olive Oil Olive Oil Olive Oil Olive Oil Leaf Lard Olive Oil	Covington Covington Newport Newport Newport Louisville Louisville Newport	50 08 25 25 15	May 13, 1901	B. H. Kroger B. H. Kroger T. W. Wilson W. H. Homer B. H. Kroger I. Schafer P. F. Cook Wolff & Sons G. W. Wilson W. H. Homer

LARD AND OLIVE OFLS, ETC .- Found Adulterated.

Station No.	Make or Brand on Label or Stated.	Where Obtained.	Price Paid.	Date of Collection.	From Whom Obtained.
8707	Compound Lard	Louisville	10	October 10, 1901	Wolff & Sons

MINCE MEATS-Found Adulterated.

Manufacturer or Producer.	Sugar Per Cent.	Glucose, Per Cent.	Antiseptic.	REMARKS.
E. N. Dailey & Co. Atmore & Son Mann Pk. Co. Atmore & Son "" "" E. G. Dailey & Co.	4.6	21. 	Borates Benzoic acid Salicylic acid "trace """ "" Borates Boric acid	

MINCE MEATS—Not Found Adulterated.

Manufacturer or Producer.	Sugar, Per Cent.	Glucose, Per Cent.	Antiseptic.	REMARKS.
Merrill, Soule & Co	5.74	· · · · · · · · · · · · · · · · · · ·	I company	

LARD AND OLIVE OILS, ETC.—Not Found Adulterated.

Manufacturer or						
Producer.	Sp. Grav. 15.5C.	Iodine No.	Halphin Test.	Baldwin Test.	Bechi Test.	REMARKS.
Bruce & West Benton Fils Lissard Fils E. Rae & Co.	.9168	109.7 82.5 107.7 78.8 78.3 107.1 77.7 79.4	Dark red Pink Dark red Same Dark red Dark red No change.	No change		Cotton seed oil.
Swift & Co Rugins & Co S. Rae & Co	.9161 .9159	60.0 78.8 78.3	No change. Faint pink. No change. No change.	No change		Bechi's, no reaction
L. A. Price L. A. Price	.9166	80.2	No change. No change.	" " …		Quality extra sup. Quality superfine.

LARD AND OLIVE OILS, ETC .- Found Adulterated.

Manufacturer or			Analytic	al Data.	1.00	
	Sp. Grav. 15 5c.	Iodine No.	Halptrin Test.	Baldwin Test.	Bechi Test.	REMARKS.
Swift & Co		72.5	Dark red			Cotton seed oil.

SODA FOUNTAIN DRINKS-Not Found Adulterated.

tation No.	Name of Syrup or Flavor.	Date of Collection.	Where Obtained.	From Whom Obtained.
		00 1001	Lexington	McGurk & Spears
0001	Rock Candy	July 26, 1901	Lexington	McGurk & Spears
8381	Coca Cola	July 26, 1901	Lexington	. McGurk & Spears
8383	Ranana	July 26, 1901	Lexington	J. P. Glenn
8385	Orange Cider	July 26, 1901	Lexington	J. P. Glenn
8391	Coca Cola	July 26, 1901	Lexington	J. P. Glenn
9394	Cherry Cobbler	July 26, 1901	Lexington	George Schange
8397	Peach Stock	July 26, 1901	Lexington	George Schange
	Claret Phosphate		Lexington	Davis Drug Co
8398 8399	Peach		Lexington	Childs Bros
8400	Grane Juice		Lexington	Davis Drug Co
8401	Coca Cola			F. Fugazzi
8402	Orange Cider	July 26, 1901		F Fugazzi
8403	Cherry	00 1001	Lexington	
8404	Coca Cola			C A Johns
8407	Strawberry	. July 20, 1001		C A Johns
8408	Cherry Phosphate	July 26, 1901		
8411	Blue Ribbon			
8412	Grape Juice		Lexington	I II II. (TIAV
8414	Pineapple			I P. Glenn
8640	Pineapple		Lexington	
8641	Peach	. September 10 1001		MOUTHER OF PROGRES
8645	Claret Phosphate	. September 10 1001	Lexington	
8646	Banana	. September 1001	Lexington	
8660	Phospho	. 00000001 17 1001		
8661	Strawberry	00000001 1, 1001	T -i- mton	
8662	Pineapple	00000001 1, 1001		
8663	Raspberry	00000001	I coton	
8664	Strawberry	October 7, 1901	Lexington	Davis Drug Co
8665	Pineapple	October 13 1001	Lexington	Davis Drug Co
8666	Claret Phosphate	00000001 1, 1001		
8668	Strawberry	D October 8, 1901	Lexington	George Schange
8669	Wild Cherry Phos	October 8, 1901	Lexington	George Schange
8670	Ranana	October 8 1901	Lexington	George Schange
8671	Orange Phosphate	Ostobon 9 1901	Lexington	George Schange
8672	Pineapple	0-1-1-1-0	Lexinglon	
8673	Pineapple	October 8 1901	Lexington	F. Pugazzi
8674	Vanilla	October 9 1901	LEXITELOH	
8675	Claret Phosphate	destamban 19 190	Lexington	0. 1.
8638	Strawberry	September 18, 190	Lexington	
8643	Strawberry	October 7 1901	Lexington	2 1
8667	Orange Phosphate		L. Lexington	George Schange
8635	Grape Juice	September 11, 100		
			TATES Found A	dulterated.
	SODA	FOUNTAIN DR	INKS-Found A	uuliolaiou.

8043 8201 8382 8384 8386 8387 8388 8389 8390 8392 8395 8396 8410 8413 8425 8649 8644 8659 84405 8409 8421 8006 8377 8378	Welch's Grape J. Cherry Cobler Orange Cider Strawberry Orange Syrups Wild Cherry Phosp. Pepsin Ade Claret Phosphate Strawberry Syrup Concentr'd Cherry J. Vola Pineapple Raspberry Strawberry Syrup Orange Phosphate Cherry Cobbler Cherry Cobbler Cherry Phosphate Cherry Phosphate Blood Orange Cherry Phosphate	July 26, 1901 September 18, 1901 September 18, 1901 September 18, 1901 September 18, 1901 July 26, 1901 July 30, 1901 May 14, 1901	Lexington Louisville Lexington Lexington Lexington	McGurk & Spears J. P. Glenn J. P. Glenn George Schange C. A. Johns Childs Bros. R. H. Gray R. M. Hughes & Co. J. P. Glenn J. P. Glenn George Schange C. A. Johns Childs Bros. R. H. Gray R. M. Hughes & Co. J. P. Glenn

SODA FOUNTAIN DRINKS-Not Found Adulterated.

Syrup or Flavor.	Antiseptic.	Color Artificial.	Remarks.
n m e G	None found	None found	Found to be raspberry flavor
Burr, Paff & Co	None found	None found	
Coca Cola Co	None found	None found	
J. P. Glenn	None found	None found	
Coca Cola Co	None found	None found	
Concentrated Co	None found	None found	
Crown Cordial & Extract Co.	None found	None found	
Renton Mevers	None found		
Crown Extract & Cordial Co.	None found		
Childs Bros	None found	None found	
Coca Cola Co	None found		
F. Fugazzi	None found		
Benton Meyers	None found	None found	
Cocoa Cola Co	None found		
Gunthers	None found	37 03	
Thompsons	None found		
Benton Meyers	None found		
Vinland Grape Juice Co	None found		
	None Tound		
		None found	
	None found	None found	
	None found	None found	
	None found	None found	
	Questionable		
	None found	None round	
	None found	None found	
	Questionable	None found	
	None found	None found	
	None found	None found	
	Questionable	None found	
	None found	None found	
	None found	None found	4
	None found	None found	
	Mone Tound	21020 20020	
	None Tound	None found	
	None found	None found	
	None found		
	Questionable	None found	
	Questionable		
Welch Grape Juice Co	None found		Red label, "Without Antise
Welch Grape Juice Co	None round		tics."
SODA I	OUNTAIN DRI	NKS-Found Adu	lterated.
	a v v a sid		
	Sancyne actu		
Freemont Grape Juice Co	Solicylic acid		
Welch's Grape Juice Co	. Sancyne acid		
Welch's Grape Juice Co McGurk & Spears	Salicylic acid	Aniline color	
Welch's Grape Juice Co McGurk & Spears McGurk & Spears	Salicylic acid None	Aniline color	
Welch's Grape Juice Co McGurk & Spears McGurk & Spears Crown Cordial Extract Co	Salicylic acid Salicylic acid Salicylic acid	Aniline color Aniline color Aniline color None found	
Welch's Grape Juice Co McGurk & Spears McGurk & Spears Crown Cordial Extract Co	Salicylic acid Salicylic acid Salicylic acid	Aniline color Aniline color Aniline color None found	
Welch's Grape Juice Co McGurk & Spears McGurk & Spears Crown Cordial Extract Co Crown Cordial Extract Co Walker Shaw Phosphate Co.	Salicylic acid None Salicylic acid Salicylic acid Salicylic acid Salicylic acid Salicylic acid	Aniline color Aniline color None found Aniline color	
Welch's Grape Juice Co McGurk & Spears Crown Cordial Extract Co Crown Cordial Extract Co Walker Shaw Phosphate Co. Pensin Ade Co.	Salicylic acid None Salicylic acid Salicylic acid Salicylic acid Salicylic acid Salicylic acid Salicylic acid	Aniline color Aniline color Aniline color None found Aniline color None found Aniline color None found	
Welch's Grape Juice Co McGurk & Spears Crown Cordial Extract Co Crown Cordial Extract Co Walker Shaw Phosphate Co. Pepsin Ade Co	Salicylic acid None Salicylic acid	Aniline color Aniline color Aniline color None found Aniline color None found Aniline color Aniline color	
Welch's Grape Juice Co. McGurk & Spears McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co.	Salicylic acid None Salicylic acid	Aniline color Aniline color Aniline color None found Aniline color None found Aniline color None found Aniline color None found	14 t
Welch's Grape Juice Co. McGurk & Spears McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co. Pepsin Ade Co. J. P. Glenn Hance Bros. & White	Salicylic acid None Salicylic acid	Aniline color Aniline color Aniline color None found Aniline color None found Aniline color Aniline color None found Aniline color Aniline color Aniline color	
Welch's Grape Juice Co. McGurk & Spears McGurk & Spears McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co. Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co.	Salicylic acid None Salicylic acid	Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color None found Aniline color None found	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers	Salicylic acid None Salicylic acid	Aniline color Aniline color Aniline color None found None found Aniline color	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers	Salicylic acid None Salicylic acid	Aniline color Aniline color Aniline color Aniline color None found Aniline color None found Aniline color None found Aniline color None found Aniline color Aniline color Aniline color Aniline color Aniline color	
Welch's Grape Juice Co. McGurk & Spears McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers	Salicylic acid None Salicylic acid	Aniline color Aniline color Aniline color Aniline color None found Aniline color None found Aniline color None found Aniline color None found Aniline color Aniline color Aniline color Aniline color Aniline color Aniline color	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers Benton Meyers Benton Meyers Co.	Salicylic acid None Salicylic acid None found	Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color None found Aniline color	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers R. M. Hughes & Co.	Salicylic acid None Salicylic acid None found None found	Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color None found Aniline color	
Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers R. M. Hughes & Co.	Salicylic acid None Salicylic acid None Salicylic acid None found None found	Aniline color Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers R. M. Hughes & Co. McGurk & Spears	Salicylic acid None Salicylic acid None found None found Salicylic acid None found	Aniline color Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color None found Aniline color	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers Benton Meyers R. M. Hughes & Co. McGurk & Spears	Salicylic acid None Salicylic acid None Salicylic acid None found None found None found None found	Aniline color Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color Cochineal	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers Benton Meyers R. M. Hughes & Co. McGurk & Spears	Salicylic acid None Salicylic acid None found None found None found None found Salicylic acid None found Salicylic acid None found Salicylic acid None found Salicylic acid	Aniline color Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color Aniline Aniline color Aniline Aniline color	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers R. M. Hughes & Co. McGurk & Spears	Salicylic acid None Salicylic acid None found None found Salicylic acid	Aniline color Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color None found Aniline color Cochineal None found Aniline color Aniline	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers R. M. Hughes & Co. McGurk & Spears Thompson Freemont Grape Juice Co.	Salicylic acid None Salicylic acid None found None found None found Salicylic acid None found Salicylic acid None found Salicylic acid None found Salicylic acid Salicylic acid None found Salicylic acid Salicylic acid	Aniline color Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color None found Aniline color Aniline Aniline color Cochineal None found	
Welch's Grape Juice Co. McGurk & Spears Crown Cordial Extract Co. Crown Cordial Extract Co. Walker Shaw Phosphate Co. Pepsin Ade Co. J. P. Glenn Hance Bros. & White Chicago Concentrated Co. Benton Meyers Benton Meyers Benton Meyers R. M. Hughes & Co. McGurk & Spears	Salicylic acid None Salicylic acid None Salicylic acid None found None found None found Salicylic acid None found Salicylic acid None found Salicylic acid	Aniline color Aniline color Aniline color Aniline color None found None found Aniline color None found Aniline color None found Aniline color None found Aniline color Cochineal None found Aniline color Aniline	

SYRUPS, SUGARS AND HONEY-Not Found Adulterated.

Station Make or Brand,		Where Obtained.	Date of Collection.	From Whom Obtained.		
6148	Old Manner Canadian					
0140	Manle Syrun	Lexington	December 6, 1899	Warren Bros		
6149	Pure Quebec Maple		_ cccmccr 0, 1000	warren bros		
0110	Syrup	Lexington	December 6, 1899	Warren Bros		
6151	Pure Maple Syrup	Lexington	December 8, 1899	J W Parish		
6154	White Clover Honey	Lexington	December 11, 1839 .	Joe Dinelli		
6423	Pure Maple Sugar	Versailles	February 28, 1900	J. E. Neet		
6424	Pure Maple Sugar	Versailles	February 28, 1900	J. E. Neet		
6425	Granulated Sugar	Versailles	February 28, 1900	J. E. Neet		
6428	Pure Maple Syrup	Correct County	March 17 1000	J. M. Wasson		
6448	Now Orleans Molasses	Levington	Tuno 12 1000	M. Simmons		
7059	Sorghum Molasses	Lynnville	October 24 1900	W. H. Scherffius		
7964	Pure White Clover	By HI (III C I I I I I I I I I I I I I I I	October 21, 1000	W. II. Schermas		
1001	Honey	Covington	May 13, 1901	J. Hilker		
7973	Pure Honey	Covington	May 14, 1901	E. J. Goebel		
7980	Pure Honey	Covington	May 14, 1901	I. H. Seppenfield		
8711	Granulated Sugar	Louisville	October 10, 1901	M. Wolff & Sons		

TOMATO CATSUP, SAUCES, ETC.—Not Found Adulterated.

Station No.	Brand or Make.	Where Obtained.	Price Paid.	Date of Collection.	From Whom Obtained.
8648	Tomato Catsup	Louisville	10c	Sept. 26, 1901	Wm. Cumming
8796 8795 8795 (D)		Frankfort Frankfort Frankfort		Nov. 4, 1901 Nov. 4, 1901 Nov. 4, 1901	H. S. Wash & Co

SYRUPS, SUGARS AND HONEY—Not Found Adulterated.

	Sugar, Per Cent, Per Cent	Weter	Ach	Acidity.	Polari	Polarization.	
Manufacturer or Wholesaler.			Ash, Per Cent.		Direct.	Invert.	Temperature C.
Damen Greenw Ge	62.4				+60.4	-22.	24°
Power Grocery Co	02.4		1		100.1		
J. F. Hertmeier & Sons	61.8				+60.6	-21.	24°
Pearson & Clarke	60.4		í í)	459.3	-20.4	24°
Vogt & Foley	2.6			••••	-12.0	-15.4	24°
Curry, Tunis & Norwood	87.2		•••	••••	+85.	-29.2	26°
Reinhardt & Newton	84.1				+85.	-25.2	26°
Martin & Woolfolk	99.94			••••	+99.6	-21.4	26°
Curry, Tunis & Norwood	63.0			••••	+61.6	-21.	26°
	56.3			••••	+55.2		26.6
New Orleans Coffee Co	46.9	24.45	3.03			大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大大	
	••••	35.8	2.4	11.8cc			
F. W. Muth & Co	1.9				-13.3	-15.5	31°
C. H. Weber					- 8.5	-10.5	31°
C. H. Weber	1.5				-10.0	-12.0	31°
	98.0				+99.6	-30.3	27°

TOMATO CATSUP, SAUCES, ETC.—Not Found Adulterated.

Manufacturer.	Antiseptic.	Color.	Label.
E. Ottenheimer & Son		Aniline	"These goods are thus labeled adulterated to conform to the Pure Food Laws of Kentucky."
Hirsch Bros. & Co	None	Aniline	"Harmless vegetable coloring and soda benzoate used; preservative used."

TOMATO CATSUP—Found Adulterated.

Station No.	Brand or Make.	Where Obtained.	Price Paid.	Date of Collection.	From Whom Obtained.
6162	West Virginia	Lexington		Dec. 8, 1899	H. Buchegnani
6170	Maple Leaf	Lexington		Dec. 13, 1899	W. W. Williams
6171	Anchor	Maysville	•••	Dec. 15, 1899	Jno. O'Keif
6172	Butters	Maysville		Dec. 15, 1899	R. B. Lovill Jno. W. DeBald
6173	Wild Rose	Maysville	Бe	Dec. 15, 1899 May 14, 1901	~
7981	Standard High Grade.	Covington	5c	May 14, 1901	
7993	Ivory	Covington	4c	May 15, 1901	
8033	Pure Tomato	Newport	8c	May 15, 1901	B. H. Kroger
8035	Roseberry	Newport	5c	May 15, 1901	T. W. Wilson
8042 8082	Finest Quality	Owensboro	10c	May 11, 1901	Scherer & Hafen-
0004	Finest Quarty				derfer
8085	Waldorf	Owensboro	15c	May 11, 1901	Dugan & Rogers
8987	Home Prepared	Owensboro	10c	May 13, 1901	
8089	Admiral	Owensboro	10c	May 13, 1901	
8091	High Grade	Owensboro	10c 10c	May 13, 1901 Aug. 1, 1901	
8430	Tomato Catsup	Louisville	5c	Aug. 1, 1901	
8435	Rival	Louisville	10c	Aug. 2, 1901	
8438	Sunny Side	Louisville	15c	Aug. 3 ,1901	
8442	Ferndale	Frankfort	15c	Aug. 23, 1901	
8540	Cruikshank's Ketchup	7 0 4	20c	Aug. 23, 1901	. Jno. Driscoll
8541	Chill Sauce	Frankfort	CONTRACTOR OF THE PROPERTY OF	Aug. 23, 1901	. Landers & Tichenor
8548	Chimes Waldorf	Frankfort		Aug. 23, 1901	
8549 8558	Tomato Catsup		10c	Aug. 23, 1901	
8647	Tomato Catsup	Louisville	10c	Sept. 26, 1901	
8538	Maple Leaf	Frankfort		Aug. 23, 1901	
8545	Monarch	Frankfort		Aug. 23, 1901	. N. B. McKinney .
8649	Heinz	Frankfort	10c	Aug. 23, 1901 Aug. 23, 1901	
8654	High Grade	Frankfort	5c 20c	Aug. 23, 1901 Aug. 28, 1901	
-8656	Chili Sauce	Frankfort		Aug. 28, 1901	P. F. Koch
8657	Chimes			Oct. 10, 1901	. Wolff & Son
:8698	Tomato Catsup			Oct. 10, 1901	
8701	Price's Imp			Oct. 10, 1901	
-8703	German			Oct. 14, 1901	. J. R. Miller
8721	Van Camp's		10c	Oct. 14, 1901	
8722 8723	Heinz		15c	Oct. 14, 1901	
-8724	Chili Sauce		10c	Oct. 14, 1901	
8727	Hoffman House			Oct. 14, 1901	
:8731	Clover	. Nicholasville		Oct. 14, 1901	
8734	Heinz	. Nicholasville		Oct. 14, 1901	
8735	Heinz Chutney	. Nicholasville	25c	Oct. 14, 1901	
8737	Pure Gold	. Nicholasville	10c	Oct. 14, 1901 May 16, 1901	G. H. Voss
7958	Butler's	. Covington	. 5c	Oct. 14, 1901	Vogt & Foley
8717	Snyder's			Oct. 14, 1901	
8718	Waldorf			Oct. 14, 1901	
8719	Snyder's	. Lexington		000. 24, 2002	wood
0015	Chill Garas	. Covington	1 15c	May 14, 1901	Geo. Reedy
8015	Chili Sauce Worcester Sauce				
8794	Worcester Bauce				
			The second second		

TOMATO CATSUP—Found Adulterated.

Manufacturer or Producer.	Antisepti	c.	Color.	Label, If Any.	Remarks.
Buch & Batton	Benzoic acid	l		None	
Tip Top Ketchup Co	Salicylic aci	d		"	Trace antiseptic.
Exley, Watkins & Co. Ivory Canning Co. W. M. Spencer & Son Ky. Pickling Co.	Benzoic acid		Aniline	44 44 44	Trace salicylic acid.
Wilhoyte, Barret & Co	" "		"	"	
Williams Bros. & Charbonneau E. G. Daily & Co. Knadler & Lucas M. Kahn & Co. Gast & Croffts Price & Lucas Tip Top Co. Ontario Preserving Co. Cruikshank Co. Lippincott & Cree Standard Packing Co. Williams Bros. & Charbonneau Gast & Strosler Lutz & Schramm Maple Leaf Packing Co. N. Sibal H. J. Heinz M. Kahn & Co. Hyman Pickle Co. Standard Packing Co. Price & Lucas Ed. L. Meyer Van Camp Packing Co. Tip Top Co. H. J. Heinz & Co. J. Wells Co. Flach Bros. Gro. Co. H. J. Heinz & Co. New London Canning Co. Tip Top Co. Snyder Co. Williams Bros. & Charbonneau Snyder	Benz. & bor. Salicylic acid Benzoic acid "" None found Benzoic acid "" "" "" "" "" "" "" "" "" "" "" "" ""	d			"In stock 8 yrs;" seller stated. Sample very old.
Lippincott & Cree				"	•
	***********	• • • • • • • • • • • • • • • • • • • •			

VINEGARS—Found Adulterated.

Station No.	Represented to be.	Where Obtained.	Date of Collection.	From Whom Obtained.
6218 6219 6319 7211 7836 7986 8004 8012 8021 8081 8084 8088 8095 8105 8420 8423 8426 8427 8428 8428 8431 8433 8555 8655	Extra pure vinegar Apple vinegar P. & C. pure vinegar Apple vinegar Cider vinegar Apple vinegar Apple vinegar Apple vinegar Cider vinegar Cider vinegar Cider vinegar Fruit vinegar Fruit vinegar Cider vinegar Apple vinegar Cider vinegar Cider vinegar Cider vinegar Cider vinegar Cider vinegar	Lexington Elizabethtown Covington	Dec. 15, 1899 Dec. 6, 1900 Dec. 20, 1900 March 7, 1901 May 14, 1901 May 11, 1901 May 11, 1901 May 13, 1901 May 13, 1901 May 14, 1901 May 13, 1901 May 14, 1901 July 30, 1901 July 31, 1900 Aug. 1, 1901	Jno. Hutchison Davis & Williams Reed & Bro. D. Porter Jno. Dalheim M. L. Young H. Voss, Meyer & Bro. Frank Meis & Bro. D. T. Haley Winter Bros. & Birx W. L. Brown A. B. Thompson & Co. E. F. Sturgeon McCann & Jones L. A. Nunn Wolff & Sons R. M. Hughes & Co. R. M. Hughes & Co. C. W. Adams & Son C. W. Adams & Son Lou. Cider & Vin. Works Gast & Croffts Price & Lucas George Salender

VINEGARS—Not Found Adulterated.

6217	Cider vinegar	Maysville	Dec. 15, 1899	R. B. Lovel
6220	Cider vinegar	11436,2110	Dec. 15, 1899	G. W. Geisel
6320	Apple vinegar Apple vinegar	Lexington	Dec. 6, 1900	J. C. Berryman
6321	Apple vinegar	Bezingen	Dec. 8, 1900	J. W. Parish
6322	Apple vinegar	**	Dec. 13, 1900	Honaker Gro. Co
7962	Apple vinegar	Covington	May 13, 1901	J. J. Schular
7983	Apple vinegar Apple vinegar Tarragon vinegar	60,11180011	May 14, 1901	
8007	Torragon vinegar	n	May 14, 1901	
8029	Cider vinegar	Newport	May 15, 1901	
8036	Apple vinegar	No. R	May 15, 1901	B .H. Kroger
8086	Cider vinegar	Owensboro	May 11, 1901	W. F. Reinhardt
8090	Apple vinegar	66	May 13, 1901	O'Bryan & Lawson
8145	Cider vinegar	Lexington	June 24, 1901	
8429	Apple vinegar	Louisville	Aug. 1, 1901	Lou. Cider & Vin. Works
8432	Apple vinegar	"	Aug. 1, 1901	Price & Lucas
8434	Apple vinegar Apple vinegar Apple vinegar	"	Aug. 1, 1901	
8536	Apple vinegar	Frankfort	Aug. 23, 1901	Howard & Noonan
8537	Annla vinagar		Aug. 23, 1901	Rupert Gro. Co
8539	Apple vinegar Apple vinegar Apple vinegar Apple vinegar	**	Aug. 23, 1901	
8542	Apple vinegar		Aug. 23, 1901	
8546	Apple vinegar		Aug. 23, 1901	N. B. McKinney
8550	Apple vinegar	66	Aug. 23, 1901	J. W. Tichenor
8556	Vinegar		Aug. 24, 1901	George Salender
8551	Apple vinegar	"	Aug. 23, 1901	
8790	Cider vinegar Cider vinegar	Lexington	Nov. 1, 1901	Jno. Hutchison
8198	Cider vinegar	"	July 16, 1901	J. B. Rogers & Co
8047	Apple vinegar	Newport	May 13, 1901	G. H. Voss
7975	Apple vinegar	Covington	May 14, 1901	E. J. Goebel
7983	Apple vinegar	Covington	May 14, 1901	G. H. Voss
8018	Apple vinegar			

VINEGARS-Found Adulterated.

	Analytical Data.						
Manufacturer or Producer.	Specific Gravity.	Ac. Acid, Per Cent.	Total Sol. Per Cent.	Ash Per Cent.	Color.	REMARKS.	
I. F. Heibmeier & Son B. T. Chandler & Co	1.010 1.007	3.42 3.54	0.98 0.18	0.03 0.18	Caramel.	Spirit	vinegar.
Pearson & Clarke	1.007	4.14	0.28		"	166	"
Sou. Molasses & Coffee Co	1.008	4.15	0.34	0.04	• •	66	**
Drexler, Heft & Co	1.007	3.54	0.23	0.04	60	**	
H. Schmidt & Son	1.004	3.12	0.31	0.04	"		14
Walley Austinhams	1.013	3.78	2.23	0.04	"	**	"
Weller Austinburg J. Weller	1.006	3.66	0.24	0.04	**		- 44
May & Schoenfeld	1.006	4.14	1.28	0.01			161
H. L. Koltensky & Son	1.009	3.90	0.67	0.10	***		"
Lou. Cider & Vin. Works	1.006	3.48	0.23	0.04		••	"
Price & Lucas	1.007	4.20	0.50	0.11		**	**
Price & Lucas	1.007	3.66	0.36	0.06		"	"
May & Schoenfeld	1.008 1.008	4.26	0.44	0.07	"		**
L. Fishback	1.006	3.66	0.85	0.13	**	**	"
Price & Lucas	1.006	3.66	0.30	0.05		"	"
Ed. L. Myer & Co.	1.007	3.84	0.38	0.06		11	"
R. M. Hughes & Co.		3.30	0.17	0.20	"		"
R. M. Hughes & Co.	1.007	4.26	0.34	0.06	••	"	44
	1.006	3.97	0.27	0.03	**	- 11	4.6
R. M. Hughes & Co	1.004	2.04	0.27	0.04		**	"
Lou. Cider & Vin. Works	1.004	3.66	0.34	0.04		4.6	"
	1.007	3.78	0.39	0.07	"	"	"
Fast & Croffts	1.006	3.66	0.30	0.03	"	"	- "
Red Cross	1.005	3.30	0.23	0.02	"	64	44
Red Cross	1.007	3.36	0.39	0.04	"	6.6	**
R. M. Hughes	1.007	4.38	0.25	0 04	"	46	66

VINEGARS—Not Found Adulterated.

Flach Bros. Gro. Co	1.016	4.08	3.20	0.31	Natural	
Flach Bros. Gro. Co		4.02	3.09	0.29	11	
H. J. Heinz	1.018	4.62	2.81	0.33	11 /	••••••
Morby, Raum & Grogreve	1.014	4.02	1.79	0.28	66	
H. J. Heinz & Co	1.018	4.86	2.82	0.33	""	••••••
Farm near Covington	1.009	3.48	2.42	0.40	"	Agotic and I
Lutz & Schramm	1.017	3.73	3.08	0.31	- "	Acetic acid, low.
Tarragon, bottled	1.020	5.82	2.49	0.45	"	Acetic acid, low.
	1.018	4.80	2.69	0.35	Olationable	
	1.016	4.14	2.80	0.35	Q'stionable.	
S. R. & J. C. Mott	1.015	3.18	2.90	0.26	"	***************************************
Hyman Pickle Co	1.010	4.20	1.30		"	Acetic acid, low.
H. J. Heinz & Co	1 017	4.74		0.14		***********************
Lou. Cider & Vinegar Works	1.009	4.14	2.51	0.31		
Price & Lucas	1.013	9.00	0.80	0.13	Natural	
Price & Lucas	1.020		0.12	0.02	"	
Elko Co	1.020	5.76	2.76	0.23	Q'stionable.	
J. Weller Co		4.14	2.71	0.27	Natural	
J. Weller Co	1.016	4.14	2.63	0.19	"	
Hirsch Bros. & Co.	1.017	4.74	2.38	0.26	"	
Hingeh Prog '8 Co	1.017	4.50	2.67	0.22	- 44	
Hirsch Bros. & Co	1.016	4.20	2.38	0.32	- 11	
0	1.017	4.74	2.58	0.36		
Own make	1.015	2.76	2.91	0.36		Acetic acid, low.
Heinz & Co	1.017	4.80	2.66	0.25	"	·····
Elko Cider & Vinegar Co	1.016	4.08	2.50	0.18	"	
	1.017	5.88	3.31	0.24	"	• • • • • • • • • • • • • • • • • • • •
	1.021	5.58	3.35	0.39	"	••••••
Williams Bros	1.017	4.26	2.80	0.22	**	••••••
	1.018	5.16	2.54	0.30	"	••••••
	1.010	0.10	2.04	0.50		••••••

Vinegars marked "questionable" show some change in color with Fuller's Earth.

Chapter 13 of the Acts of 1900.

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CIRCULAR OF INFORMATION AND FORM OF GUARANTY.

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AN ACT to Amend an Act of the General Assembly of the Commonwealth of Kentucky, Entitled an Act Regulating the Sale of Food, which became a Law June 13, 1898.

Be it enacted by the General Assembly of the Commonwealth of Kentucky:

First. That the statute mentioned in the title of this act and being an act regulating the sale and manufacture of food, which became a law on June 13, 1898, be, and the same is hereby repealed, and in lieu thereof, the following is enacted:

Section 1. It shall be unlawful for any person, persons, or corporation within this State to manufacture for sale, or expose for sale, or have in his or their possession for sale, or to sell any article of food which is adulterated or misbranded within the meaning of this act; and any person, persons or corporation, who shall manufacture for sale, expose for sale, or have in his or their possession for sale, or sell any article of food which is adulterated or misbranded in violation of this act, shall be fined not to exceed one hundred dollars, or be imprisoned for not more than fifty days, or both such fine and imprisonment.

Sec. 2. The term food, as used in this act, shall include every article used for, or entering into the composition of, food or drink of man or domestic animals, except spirituous, vinous or malt liquors.

The term misbranded, as used in this act, shall include every article of food, and every article which enters into the composition of food, the package or label of which shall bear any statement purporting to name any ingredient or substance as not being contained in such article which statement shall be untrue in any particular or any statement purporting to name the substance or substances of which such article is made, which statement shall not give fully the names of all substances contained in such articles in any measurable quantity.

Sec. 3. For the purpose of this Act, an article shall be deemed adulterated:

First. If any substance or substances be mixed or packed with

it so as to reduce or lower or injuriously affect its quality or strength;

Second. If any inferior substance or substances be substituted wholly or in part for the article;

Third. If any valuable constituent of the article has been

wholly or in part abstracted;

Fourth. If it be an imitation, or sold under the name of another article; provided that nothing in this act shall be construed to prohibit the manufacture or sale of oleomargarine, butterine, or kindred compounds in a separate and distinct form, and in such manner as will advise the consumer of its real character, free from coloration or ingredient that causes it to look like butter;

Fifth. If it is colored, coated, polished or powdered, whereby damage is concealed, or if it is made to appear better or of greater

value than it is;

Sixth. If it contains poisonous ingredients which may render such article injurious to the health of the party consuming it, or if it contains any antiseptic or preservative not evident or not known

to the purchaser or consumer.

Seventh. If it consists in whole or in part of a diseased, filthy or decomposed or putrid substance, either animal or vegetable, unfit for food, whether manufactured or not, or if it is in any part the product of a diseased animal, or of any animal that has died otherwise than by slaughter.

Eighth. If it be labeled or branded so as to deceive or mislead the purchaser, or purport to be a foreign product when not so, or is an imitation either in package or label of another substance of a

previously established name.

Provided, That any articles of food which are adulterated or misbranded within the meaning of this act, but which do not contain any added poisonous or deleterious ingredient, may be manufactured or sold if the same shall be plainly labeled "adulterated," or labeled, branded or tagged so as to show the exact character thereof.

Provided further, That nothing in this act shall be so construed as requiring or compelling proprietors or manufacturers or sellers of proprietary foods which contain no unwholesome substances to disclose their trade formulas, except so far as the provisions of this act require to secure freedom from adulteration or imitation, but in the case of baking powders every can or other package shall be

labeled so as to show clearly what acid salt has been used in making the same.

Provided further, That no dealer shall be convicted under the provisions of this act when he can establish a written guaranty of purity in a form approved by the Director of the Kentucky Agricultural Experiment Station, signed by the wholesaler, jobber, manufacturer, or other party from whom he purchased said articles, and provided he establishes that such guarantor or guarantors reside in the State of Kentucky. But said guaranty to afford protection shall contain the full name and address of the party or parties making the sale of such article to such dealer.

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Sec. 4. The Director of the Kentucky Agricultural Experiment Station shall make or cause to be made examinations of samples of food manufactured or on sale in Kentucky at such time and place and to such extent as he may determine. He shall also make or cause to be made analyses of all food products which the State Board of Health may suspect of being injurious to health, and of any sample of food furnished by any Commonwealth's, county or city attorney of this Commonwealth. And the said Director may appoint such agent or agents as he may deem necessary, who shall have free access at all reasonable hours for the purpose of examining into places wherein it is suspected any adulterated article of food exists, and such agent or agents upon tendering the market price of such articles, may take from any person, firm or corporation, samples of any articles suspected of being adulterated or misbranded. The Director of said Station is hereby empowered to adopt and fix standards of purity, quality or strength, when such standards are not specified or fixed by statute.

Sec. 5. Whenever any sample shall have been examined and found to be adulterated or misbranded in violation of this act, the Director shall certify the facts to the Commonwealth's attorney of the District, or to the county attorney of the county, or city attorney of any city or town in which the said adulterated or misbranded food product was found; together with a statement of the results of the examination of the said article of food duly authenticated by the analyst under oath and taken before some officer of this Commonwealth authorized to administer an oath having a seal. And it shall be the duty of every prosecuting attorney, county attorney and city attorney to whom the Director of said Station shall report any violation of this act, to cause proceedings to be commenced

against the party so violating the act, and the same prosecuted in manner as required by law.

Sec. 6. Said Station shall make an annual report to the Governor upon adulterated food products, in addition to the reports required by law, which shall not exceed one hundred and fifty pages, and said report may be included in the report which said Station is already authorized by law to make, and such annual reports shall be submitted to the General Assembly at its regular session.

Sec. 7. The said experiment Station may issue at least once a year a bulletin giving the results of all analyses of samples taken under this act, together with the names of the parties from whom the samples were taken; as far as possible, the names of the manufacturers; the number of samples found to be adulterated; the number not found adulterated; and the number of adulterated samples that have been reported by the Station to the different Commonwealth's attorneys, county and city attorneys of the State. The edition of this bulletin shall not be less than ten thousand copies, to be distributed free to citizens of the State who may desire the same, and to other interested persons so long as the edition may last.

Sec. 8. Said Experiment Station shall receive five (\$5.00) dollars for the analyses of each sample taken in accordance with this act, and all necessary expenses in carrying out the provisions of this act, including expenses for procuring samples, expert witnesses attending the grand juries and courts, clerk hire and attorneys' fees; provided the total expenses from all sources shall not exceed in any one year seven thousand five hundred dollars (\$7,500). The Board of Control of said experiment Station shall furnish to the Auditor of Public Accounts an itemized statement of all the expenditures of money made under this act.

The amount of expenditures reported to the Auditor shall be paid by the Commonwealth to the Treasurer of said Experiment Station, upon the written request of the Board of Control of said Experiment Station, and the Auditor for the payment of the same, is directed to draw his warrant upon the Treasurer as is the manner of the payment of other claims against the Commonwealth.

Sec. 9. All fines recovered under this act shall be kept as a separate fund to pay necessary expenses in maintaining same.

Sec. 10. No civil action shall be maintained in any court in this

State on account of any sale or other contract made in violation of this act.

Sec. 11. All acts and parts of acts inconsistent herewith are hereby repealed.

Approved March 17, 1900.

Circular of Information Regarding the Kentucky Pure Food Law.

The Legislature of Kentucky, at its late session, amended the law entitled "An Act Regulating the Sale and Manufacture of Food." The amended act went into effect June 12, 1900.

The provisions are mainly those of the old law. The definitions of adulteration and misbranding remain the same, with the addition of a provision against labels that are calculated to deceive or that represent an article to be imported when it is really of domestic origin. It provides for the sale of adulterated articles or substitutes which contain nothing poisonous or deleterious, if they are labeled adulterated, or if the component parts are stated on the label. It provides that the acid salt of which baking powders are made must be made known on the label. The retailer is protected from prosecution when he has a written guaranty from the party from whom he purchased that the goods are pure, provided he establishes that the guarantor resides in this State. The penalty for violation of the law is a fine of not more than \$100 or imprisonment not to exceed 50 days, or both. It is made the duty of Commonwealth's attorneys, county and city attorneys, to prosecute for violations of the law, upon information obtained by analyses made by the Experiment Station. Attention is called to the fact that the law applies to the adulteration of food of domestic animals as well as that of man.

A copy of the law is furnished herewith. This circular is intended to anticipate many inquiries in regard to the application of its provisions to particular articles of food.

Adulterations.—The law provides (Sec. 3) that articles of food which are adulterated but which do not contain any added poisonous or deleterious ingredient, may be manufactured or sold if plainly labeled "Adulterated" or labeled, branded or tagged so as to show the exact character thereof. The words "mixture," "com-

pound" or other similar expressions can not be substituted for the word "adulterated" when the components are not given.

Antiseptics.—Saylicylic acid, benzoic acid, boracic acid, hydrofluoric acid, sulphurous acid and their compounds, the salicylates, benzoates, fluorides and sulphites; also formaldehyde or formalin, and various mixtures known in the trade as "freezine," "iceine," "preservalines" of various kinds, etc., are antiseptics, and it is unlawful to sell articles of food containing them unless plainly labeled "adulterated" or the presence of the antiseptic and its kind is clearly shown on the label or made known to all purchasers, where the article is not capable of being labeled.

Baking Powders.—The law requires that every can or other package of baking powder shall be labeled so as to show clearly what acid salt has been used in making the same. Baking powders, in which exsiccated alum or sulphate of alumina is used, should be labeled "alum baking powder;" those in which phosphate and alum are used should be labeled "alum phosphate baking powder;" those in which phosphate alone is used should be labeled "phosphate baking powder," and those in which cream of tartar is used "cream of tartar baking powder." If the label already makes known in a conspicuous manner what acid salt has been used, the form is not essential. If the label does not give the name of the acid salt, a printed slip stating what acid salt has been used must be pasted on the label. But in any case the words "alum," "alumphosphate," "phosphate" or "cream of tartar" must be printed in letters not smaller than brevier heavy GOTHIC CAPS and on white or light background so that the words can be easily seen.

BUTTER.—Butter should contain at least 80 per cent. of pure milk fats. Butter made by the use of "black pepsin" or other substance, in order to incorporate large quantities of water and casein, is adulterated.

Where other fats or oils are substituted, in part or whole, for milk fat in butter such article can not be sold as "Butter," or "Creamery Butter," or "Dairy Butter," or any combination of words embracing the word "Butter," but must be classed as "Oleomargarine" or "Butterine" and so plainly labeled.

Process butter or unmarketable butter that has been melted and made over is classed as adulterated butter.

CANDY.—The use of harmful coloring matters or other ingredients, and the admixture of terra alba, kaolin or other mineral substances to give weight and volume to the mass, are adulterations.

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CHEESE.—Cheese not made wholly from milk or cream, salt, and harmless coloring matter, is considered adulterated, and must be sold as "Filled Cheese" or the name and amount of the adulterant must be made part of the label. Cheese made from milk from which part of the cream or fat has been taken, must be so labeled as to indicate the amount of cream or fat taken from the milk of which it was made. Cheese containing less than 10 per cent. of fat must be labeled "Skim milk cheese."

CIDER.—Cider is the unfermented juice of the apple. Any substitute for apple juice, or any antiseptic added constitutes an adulteration, and such adulterated cider should not be offered for sale, unless the name of the adulterant is made part of the label.

COFFEE.—Any article offered as coffee which contains any substitute for the coffee bean in any proportion is adulterated, and should not be offered for sale unless the quantity and kind of such substitute is given as part of the label.

CREAM.—Cream shall be produced wholly from pure milk and free from added coloring matter, preservatives or other additions of any kind. It must contain not less than 15 per cent. of milk fat.

FLOUR.—Flour is the fine and bolted meal of the wheat grain. When mixed with any material not derived from the wheat grain it is adulterated, and can not lawfully be sold unless plainly marked "adulterated" or the kind and amount of the admixture is made a part of the label.

Buckwheat flour or rye flour must be derived wholly from the grains designated in the name, and any admixture of other flours or materials constitutes an adulteration, and such mixtures can not be lawfully sold unless plainly marked "adulterated," or the kind and amount of the admixture is made part of the label.

Fruit Jellies, Fruit Butters, Preserves, Canned Fruits, Fruit Conserves, Confections, Fruit Juices and Syrups, Etc., must consist of the fruit specified in the label, preserved only with cane sugar (sucrose), and must not contain artificial flavors, coloring matters or antiseptics. If such articles contain any substitute for the fruit, or any inferior material to make up bulk or weight, any glucose or other substitute for sugar, any artificial flavor or color, any starch or animal gelatine, any salicylic acid or other antiseptic, or any substance not naturally occurring in such fruits, except spices or other wholesome, natural flavoring materials, they are adulterated, and can not be lawfully sold unless plainly labeled

"adulterated," or the presence of all such substances is clearly indicated by the label.

Fruit preserves, jams, marmalades and butters should not contain less than 80 per cent. of total solids, 1 per cent. of acid calculated as malic, and 0.6 per cent of ash; jellies should not contain less than 65 per cent. total solids, 1 per cent. of acid calculated as malic and 0.3 per cent. of ash.

Guaranty of Purity.—Attention is called to the provision of section 3, sub-section 8, "that no dealer shall be convicted under the provisions of this act when he can establish a written guaranty of purity in a form approved by the Director of the Kentucky Agricultural Experiment Station, signed by the wholesaler, jobber, manufacturer or other party from whom he purchased said article, and provided that he establishes that such guarantor or guarantors reside in the State of Kentucky. But such guaranty, to afford protection, shall contain the full name and address of the party or parties making the sale of such article to such dealer."

Honey.—Honey is the nectar of flowers and other saccharine exudations of plants gathered by bees. Honey made by feeding bees glucose, sugar, invert sugar, or other saccharine substance, is not pure honey. Adding sugar, invert sugar or glucose to honey or substituting these materials for honey constitutes an adulteration and such adulterated honey can not lawfully be sold unless it is plainly marked "adulterated," or the quantity and name of the adulterant is made part of the label.

LABELING.—In labeling articles to comply with the law each separate package must be labeled. For example, it will not answer to attach to a case of catsup a label stating that it is preserved with benzoate of soda, but each bottle must bear such label.

LARD.—Lard is the fat of swine, the fat being melted and separated from the flesh. Adding beef fat or stearine, cotton seed oil, or other substitute for swine fat constitutes an adulteration, and such adulterated lard can not lawfully be sold unless it is plainly marked "adulterated," or the quantity and name of the adulterant is made part of the label. Lard must contain not less than 99 per cent. of fat.

MILK.—Milk must contain at least 12 per cent. of total solids and 3 per cent. of fat. Milk containing less than these proportions will be considered adulterated, unless labeled or offered as "skim milk," or milk below standard. The addition of antiseptics or preservatives or coloring matter is an adulteration.

MILK FAT is the fat contained in pure milk or derived therefrom and has a Reichert-Meissl number not less than 24 and a specific gravity not below .905 at 40°c.

MINCE MEAT containing glucose or any inferior material added for the purpose of increasing weight or bulk, or any antiseptic, is adulterated and should not be offered for sale unless plainly marked "adulterated" or its component parts given.

Molasses and Syrups.—All molasses and syrups are assumed to be made from the juice of cane, or other sugar-producing plant, or the sap of the maple tree, and any syrup or molasses containing starch-sugar, glucose, or corn-syrup, is considered adulterated, and should not be offered for sale unless the label indicates the presence of the same.

OLEOMARGARINE.—Oleomargarine, butterine, or kindred compounds, or mixtures of these with butter, can not lawfully be sold if colored in imitation of butter. The law does not prohibit the sale of oleomargarine, as such, if not colored to look like butter.

OLIVE OIL is the expressed oil of the olive. The substitution of other oils or fats for olive oil, either in part or whole, constitutes an adulteration, and such adulterated oil can not lawfully be offered for sale unless plainly labeled "adulterated," or amount and kind of the adulterant is clearly shown on the label.

SPICES, MUSTARD, PEPPER, etc., must not contain any foreign substances or coloring matter introduced to dilute or cheapen the article, and any such admixture constitutes an adulteration and can not lawfully be sold unless plainly labeled "adulterated," or the kind and amount of admixture are indicated on the label.

TEA.—Tea consists of the dried leaves of the true tea plant, without addition of artificial coloring matter, or filler, or extraction of any essential properties, and any article offered as tea which does not conform to this definition is adulterated and can not lawfully be offered for sale unless plainly labeled "adulterated," or its true composition is given as part of the label.

VINEGAR.—Standard vinegar is a vinegar made from the juice of the apple, and contains not less than 1½ per cent. of apple solids and 4 per cent. of acetic acid. All vinegars labeled "apple," "cider," or "orchard" vinegars are assumed under the law to be standard vinegars. Vinegars not made of the juice of the apple must be labeled truly of what they are made, as "malt vinegar," "distilled vinegar," or "wine vinegar." Otherwise they are to be con-

sidered adulterated. If artificial coloring matter is used, this must be stated on each and every label. Vinegars to which other acids than acetic acid have been added are adulterated.

Vinegars containing less than 4 per cent. of acetic acid may be sold, provided the percentage of acetic acid is made part of the label.

M. A. SCOVELL,

Director Kentucky Agricultural Experiment Station, July 19, 1900. Lexington, Ky.

Form of Pure Food Guaranty.

. APPROVED BY M. A. SCOVELL, DIRECTOR.

I, (or, we), the undersigned, resident of the Commonwealth of
Kentucky, whose name and Postoffice address are hereto sub-
scribed, being the (a)of the article hereinafter
described, and being the person from whom (b)of
dertake and obligate (c)unto (b)
the aforesaid purchaser, that said article is (or, are) pure within
the meaning of that term as used, applied and defined in the Stat-
ute law of Kentucky, known as the Pure Food Law.
The said article above referred to is (or, are) described as fol-

The said article.. above referred to is (or, are) described as follows: (d).....

(Name) (e)												
(P. O. Address) (e)											•	
(Name)												
(Name)					 							
(P. O. Address)	 											
(P. O. Address)	 											

- a.—Insert "Wholesaler," "Jobber," "Manufacturer" or other word or words aptly describing the party from whom the article or articles in question were purchased.
- b.—Insert name and address of the dealer for whom the guaranty is given.
- c.—The singular or plural forms should be used throughout according as the guarantors are one or more in number.
- d.—Describe the articles clearly and explicitly.
- e.—Write out name and Postoffice address in full.

Lexington, Ky., September 1, 1901.