

CURRICULUM GUIDE

Modern Conveniences: Plumbing in the 1920s

by Janet Brown

for the Indiana Historical Society Indiana Experience

You Are There 1924: *Tool Guys and Tin Lizzies*



INDIANA HISTORICAL SOCIETY

This is a publication of the Indiana Historical Society
Eugene and Marilyn Glick Indiana History Center
450 West Ohio Street
Indianapolis, IN 46202-3269 USA
Teacher Resource available online: www.indianahistory.org

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This lesson coordinates with the You Are There 1924: *Tool Guys and Tin Lizzies* component of the *Indiana Experience* at the Eugene and Marilyn Glick Indiana History Center. In this experience, visitors are invited to step back in time to 1924 to visit the re-created Liniger brothers' plumbing, tinning, and roofing shop in Hartford City, Indiana. Auto mechanics from the George Greenlee Ford dealership next door worked in this space through an agreement Greenlee had with the Linigers. The Linigers conducted most of their work in homes and businesses around town, leaving the space available for use by Greenlee's mechanics. The curriculum is intended to provide historical context for life in Indiana and, in particular, life in Blackford County and Hartford City, Indiana, in the 1920s. The lesson may be used to prepare students for a visit to You Are There 1924: *Tool Guys and Tin Lizzies* or it may be used as a follow-up to a visit. In addition, the historical context and themes will be relevant to classroom instruction even if a visit is not possible. You Are There 1924: *Tool Guys and Tin Lizzies* opens March 20, 2010, and will remain open until February 27, 2011.

Overview/Description

This lesson will use primary sources to compare different plumbing methods and technologies available in the 1920s.

Grade Level

Elementary (grades 4 and 5) and middle/intermediate (grades 6, 7, and 8)

Academic Standards

- Indiana Standards
 - Grade 4
 - Social Studies 4.1.17—Using primary and secondary sources and online source materials, construct a brief narrative about an event in Indiana history.

- English 4.4.3—Write informational pieces with multiple paragraphs.
- Science 4.1.7—Discuss and give examples of how technology has improved the lives of many people, although benefits are not equally available to all.
- Grade 5
 - English 5.4.3—Write informational pieces with multiple paragraphs.
- Grade 6
 - English 6.4.3—Write informational pieces with multiple paragraphs.
 - Science 6.1.8—Describe instances showing that technology cannot always provide successful solutions for problems or fulfill every human need.
 - Science 6.1.9—Explain how technologies can influence all living things.
- Grade 7
 - English 7.4.3—Write informational pieces with multiple paragraphs.
- Grade 8
 - Social Studies 8.1.27—Give examples of scientific and technological developments that changed cultural life in the nineteenth-century United States, such as the use of photography, growth in the use of the telegraph, the completion of the transcontinental railroad, and the invention of the telephone.
 - English 8.4.3—Write informational pieces with multiple paragraphs.

- National Standards (National Council for the Social Studies)
 - I Culture
 - Compare similarities and differences in the ways groups, societies, and cultures meet human needs and concerns.
 - II Time, Continuity, and Change
 - Develop critical sensitivities such as empathy and skepticism regarding attitudes, values, and behaviors of people in different historical contexts.
- Document from Indiana University Press publication. See pages 11 and 12 of this lesson.
 - Excerpt from *Party Lines, Pumps and Privies: Memories of Hoosier Homemakers*, edited by Eleanor Arnold. Bloomington and Indianapolis: Indiana University Press, 1984.
- Images from Indiana Historical Society collection. See pages six, seven, 15, and 18 of this lesson.
 - “Family Group in the Front Yard of Their House,” ca. 1900 (Indiana Historical Society, Digital Image Collection, Item ID P0159_G_6X8_348)
 - “Woman with outdoor water pump,” no date (Indiana Historical Society, Indiana Extension Homemakers Association, M0820, Visual Collections, Photographs Box 2, Folder 3)
 - “Indianapolis Water Company Bathroom Display, 1926” (Indiana Historical Society, Digital Image Collection, Item ID P0130_P_8x10_99920-F)
 - “Bathroom in the Model Home, 1929” (Indiana Historical Society, Digital Image Collection, Item ID P0130_P_8x10_211196-F)
 - “Model Home Kitchen Display by Pettis Dry Goods, 1928” (Indiana Historical Society, Digital Image Collection, Item ID P0130_P_8x10_206648-F)

Social Studies/Historical Concepts

Plumbing and technological advancements resulting in changes in daily life

Learning/Instructional Objectives

Students will:

- Use primary sources to understand how plumbing functioned in the past.
- Use primary sources to learn about advancements in plumbing technology.

Time Required

One class period

Materials Required

- Paper
- Pencils
- Questions written on the board and on cards for each of the six “History Detective” stations described on pages four and five of this lesson.
- Document from the Indiana Historical Society collection. See page eight of this lesson.
 - Excerpt from *Middletown: A Study in Contemporary American Culture* by Robert and Helen Lynd. Harcourt, Brace, 1929, 97–98. (Indiana Historical Society Accession Number F534.M94 L95 1929)
- Image from J. C. Allen and Son Photography, courtesy of J. C. Allen and Son, Inc. Rural Life Photo Service. See page 18 of this lesson.
 - “The built-in kitchen sink and drainboard in the remodeled farm kitchen of Mrs. Irma Brown, Albion, Indiana, 1927”
- Images from the 1923 *Sears, Roebuck and Company Catalogue*, edited by Joseph J. Schroeder, Jr. Northfield, Illinois: DBI Books, Inc., 1973 reprint, pages 694–697, 702, 709, and 825.

Courtesy Krause Publications, a division of F+W Media, Inc. See pages 21 through 27 of this lesson.

- Print out of materials from the Web site of The Plumbing Museum, Watertown, Massachusetts. http://www.theplumbingmuseum.org/examples_of_our_collection.html (accessed January 5, 2010)

Background/Historical Context

By the 1920s, modernization of the American home focused on the bathroom and kitchen. The bathroom, in particular, was a place of rapid change. The greatest of these changes occurred in the years just prior to the 1920s and during the decade itself, when bathroom functions that had once occurred outdoors now took place inside the home. There were mechanical changes as well.

During the decade of the 1920s, the “water closet” completed a transformation that had begun in the 1880s into the “toilet.” This change centered on the application of a siphon principle to facilitate the flushing of waste. Water closets, sometimes called “valve closets” or “pan closets,” used a valve that opened to allow water and waste to flow down the drain due to gravity. The siphon, on the other hand, operated on the basis of “*net* atmospheric pressure (the difference between atmospheric pressure and the weight of the liquid).”¹ The siphon consisted of an inverted U-shaped tube or pipe with one leg being shorter than the other. The shorter leg draws water and waste from a container and into the longer leg. “Atmospheric pressure alone is the same at both openings, but because the weight of the liquid in the shorter leg is less, the net pressure is greater. Hence the liquid in the first container is pushed up through that tube, over and across the inverted U, and down the other leg,” notes historian Merritt Ierley.² In other words, the difference in atmospheric pressure in the siphon creates a

flushing effect. Additional changes to the toilet included covering the water tank and lowering it from an elevated tank to one just above the toilet seat.

Also by the late 1920s bathroom fixtures were largely made from gleaming white porcelain rather than wood paneling covering a series of pipes. In the case of tubs, the change from a wooden box lined with a lead basin had begun just prior to the turn of the century. During the first few decades of the twentieth century this wooden-box design was replaced first with a cast-iron bathtub painted inside and out, a box lined with copper, and finally a porcelain-coated cast-iron tub. The porcelain-coated tub might sit on feet, or, if the owner splurged, it might have a built-in look. The use of porcelain in place of wood not only brightened the bathroom into a “pleasant and cheerful room,” but also gave it a more sanitary appearance.³ In appearance and function, the bathroom of the late 1920s was very similar to what it is today.

In 1890 electric water pumps were still a thing of the future. By 1928, however, the production of electricity in the United States was estimated at eighty-eight billion kilowatt hours—an output equal to that of the rest of the world combined.⁴ Between 1921 and 1928, electrical companies gained ten million new customers, attaining the grand total of electrified households at nineteen million. For homes in towns and cities, this meant that water pumps supplying sinks in the kitchen and bathroom could be electrified, making the hand pump obsolete. Most urban areas in Indiana had electricity, enabling an indoor source of running water and heated indoor bathrooms.

By the late 1920s, the number of electrified homes represented only roughly two-thirds of American households. Rural America remained largely without electricity until at least the mid-1930s.⁵ Access to electricity was an important factor in bringing plumbing and running water into the house. Most rural homes in the 1920s continued to rely on outdoor wells, where water would be handpumped and then carried inside to

¹ Merritt Ierley, *The Comforts of Home: The American House and the Evolution of Modern Convenience* (New York: Clarkson Potter/Publishers, 1999), 222.

² Ierley, 222.

³ *House and Garden*, 1926 as quoted in Ierley, 223.

⁴ Ierley, 192.

⁵ Ierley, 192–193.

heat on a stove for bathing and cooking. In rural areas, outhouses also remained common during the 1920s. This was the case for residents in rural Blackford County, Indiana.

Teacher's Instructional Plan

Introduction

Show the image of the house with the windmill ("Family Group in the Front Yard of Their House," ca. 1900) to students. This image is reprinted on page six of this lesson. Discuss why the family might have had a windmill. (*answer—to pump water for irrigation or household use*) Ask students to explain the purpose of an outhouse. (*answer—toilet*)

Procedure

- Tell students that photographs can help us study and learn about our history. Show the class the image found on page seven of this lesson of the woman with the outdoor water pump and washing machine. Discuss the image using the following questions that you have previously written on the board:
 - What are the most important things you see in the photo? (*answer—water pump contraption and motor*)
 - Find two things in the photo that you might not see if the photo was taken in our community today. (*answers—the water pump contraption and motor, the woman's clothing and hairstyle*)
 - When do you think the photograph was taken? (*answer—early 1900s*)
 - What in the photo surprises you? (*multiple answers possible*)
 - Give the photograph an appropriate title. (*multiple answers possible*)
 - What is the woman in the photo doing and why? (*answer—The woman is drawing water from a barrel that has been filled by a pump fitted with a gasoline-powered motor. This motorized*

pump would have made it much easier to get a lot of water relatively quickly for household tasks such as washing clothes and dishes, cooking, and bathing.)

- Briefly discuss the issues with bringing water into the house and taking waste out of the house. (*Water is needed for washing clothes and dishes, cooking, bathing, washing hands, etc. It is hard work to carry it indoors. Dirty water and human waste contain germs that need to be disposed of properly or they might cause illness.*)
- Divide the class into small groups called "History Detectives."
 - These groups will examine primary source materials to research how people in the past got clean water and disposed of wastewater and human waste.
 - The six "History Detective" research stations include one for analysis of an excerpt of text about plumbing from *Middletown: A Study in Contemporary American Culture*; one for analysis of an excerpt of text from *Party Lines, Pumps and Privies*, a collection of oral histories from the Indiana Extension Homemakers Association; one for analysis of historic photographs of bathrooms; one for analysis of historic photographs of kitchens; one for analysis of scans of pages from the 1923 *Sears, Roebuck and Company Catalogue*; and one for analysis of images of historic plumbing fixtures taken from The Plumbing Museum Web site. (www.theplumbingmuseum.org/examples_of_our_collection.html)
 - Each group will answer the questions at each research station, recording the answers on their paper. Groups will have ten minutes at each station to gather information. (Student Questions and Teacher Answer Keys are provided on pages nine, 10, 13, 14, 16, 17, 19, 20, 28, 29, 31 and 32.)

- After each group has rotated to all of the stations, each student will compose a magazine article about plumbing in the 1920s based on their research findings. Students may include a drawing with their articles.

Assessment

Using a teacher-created rubric, assess the students' magazine articles based on the following criteria: selection of appropriate themes, clarity, organization, and quality of writing.

Suggested Modifications

- The teacher may bring in antique plumbing tools and have the students guess their uses. After the students make their guesses, the teacher can reveal the correct answer.
- Students may write a humorous story or draw a comic strip about carrying water into the house, bathing in the kitchen, or some aspect of family life related to 1920s plumbing technology. Remind the students that “humorous” does not mean “distasteful.”

Additional Resources

Publications

Ierley, Merritt. *The Comforts of Home: The American House and the Evolution of Modern Convenience*. New York: Clarkson Potter/Publishers, 1999. Describes the development of household technologies including bathroom and kitchen plumbing.

Ardley, Neil. *How Things Work*. London: Dorling Kindersley, 1995. Includes information on how water goes from water towers to homes.



“Family Group in the Front Yard of Their House,” ca. 1900 (Indiana Historical Society, Digital Image Collection, Item ID [P0159 G.6X8.348](#))



“Woman with outdoor water pump,” no date (Indiana Historical Society, Indiana Extension Homemakers Association, M0820, Visual Collections, Photographs Box 2, Folder 3)

History Detectives Station Number 1

**Document 1: Excerpt from *Middletown: A Study in Contemporary American Culture* by Robert and Helen Lynd. Harcourt, Brace, 1929.
(Indiana History Society Accession Number F534.M94 L95 1929)**

There was no running water prior to 1885, and by 1890 not more than 20 per cent. of the total mileage of the city's streets was underlaid with water mains. It is estimated that in 1890 only about one family in six or eight had even the crudest running water—a hydrant in the yard or a faucet at the iron kitchen sink. A leading citizen thought it sufficiently important to enter in his diary in 1890 that a neighbor “has a hydrant for his house.” The minutes of the Board of Education for 1888 contain an item: “Eph Smell . . . 1 wooden pump for High School . . . \$10.00.” For the most part, Middletown pumped its water to the back door or kitchen from a well or cistern. By 1890 there were not over two dozen complete bathrooms in the entire city. For approximately ninety-five families in each hundred, “taking a bath” meant lugging a heavy wooden or tin tub into a bedroom, or more usually the warm kitchen, and filling it half full of water from the pump, heated on the kitchen stove. Today all new houses, except the very cheapest, have bathrooms, and many houses are installing this improvement rapidly.* Many homes, however, still lack not only bathrooms but in January, 1925, approximately one in four of all the city's dwellings lacking running water.** This considerable use of a water supply from back-yard wells accompanies the persistence in even more working class homes of the old-fashioned backyard “privy.” According to the City Engineer, only two-thirds of the houses had sewer connections in 1924. It is not uncommon to observe 1890 and 1924 habits jostling along side by side in a family with primitive back-yard water in sewage habits, yet using an automobile, electric washer, electric iron, and vacuum cleaner. The unevenness in the diffusion of material culture becomes even more significant in the light of the community public health service with its outwardly stringent prohibition upon back-yard water supplies and back-yard toilets and sewage disposal.

*The extent to which this improvement is being introduced into older houses is reflected in the fact that one of the dozen local plumbing firms alone claims to have installed 50 per cent. more bathrooms in 1923, when “times were good,” than the entire total of new houses built during the year.

**Sixty-one and eight-tenths per cent. of the 11,232 homes of Zanesville have bathrooms, and 61 per cent. plumbing.

History Detectives Station Number 1

Teacher Answer Key

- 1) How did most people in Middletown get their water? (*answer—well or cistern*)

- 2) What fraction of the people's houses was connected to the sewer? (*answer—two thirds*)

- 3) Was it common for people to have some modern conveniences and yet still be using some out-of-date technologies? Explain. (*answer—It is common to see 1890 and 1929 technologies existing side by side. For example, a family might own an automobile or electric appliance and yet continue to use an outhouse.*)

- 4) What surprised you about the article? (*multiple answers possible*)

- 5) Give the article an appropriate title. (*multiple answers possible*)

History Detectives Station Number 2

Document 2: Excerpts from *Party Lines, Pumps and Privies: Memories of Hoosier Homemakers*, edited by Eleanor Arnold. Bloomington and Indianapolis: Indiana University Press, 1984. Reprinted with permission from the Indiana University Press.

Interviewer: “How did you get your water?”

Stella Mae: “Carried it by bucket, let it down in the well, and drew it up.”

Interviewer: “You didn’t have a pump then?”

Stella Mae: “Some did and some just had a dug well, had a bucket on a rope and drew it up and let the bucket down, and the rope was wound up on it.”

Stella Mae Irwin, 84, Parke County, page 33

“Well I remember we didn’t have water in the house. It all had to be carried in from a well out in the yard, and with snow up to your knees most of the time that was a big job. I think we had a cistern in the house there, but our drinking water was outside.”

Margaret Daubenspeck, 57, Rush County, page 35

Interviewer: “What is the difference between a cistern and a well?”

Thelma: “A cistern is a collection of rain off your roof, or some source of rain water and a well is the hard water that comes from underground sources.”

Thelma Nero, 68, Union County, page 35

“And I had running water in the kitchen, I want you to know. He built a little corner out over the well and [that] brought the pump in the kitchen, with a sink.”

Opal Gallagher, 72, Shelby County, page 37

Interviewer: “How did you take care of this [bathing]?”

Opal: “We had a washtub and you put water in it out in the sun to heat, and then you heated a teakettle of water to put in that, and that is how you’d take your bath. Usually out behind the house, in the summertime.”

Juanita: “In the wintertime, everybody cleared out of the kitchen and you took it in the kitchen.”

Opal: “Right by the cookstove with the oven door open!”

Interviewer: “Did you take a bath two or three times a day like some of the young people do now?”

Opal: “I think we took a bath once a week; that was to get cleaned up to go to church.”

Opal Whitsett, 84, Scott County, and Juanita Hunter, 81, Scott County, page 40–41

“In the old home where we all grew up, we never did have indoor plumbing, just a two seater out back.”

Libby McKinney, 54, Bartholomew County, page 44

Interviewer: “You mentioned the slop jar. Was that a common thing in every household?”

Beulah: “Oh, yes.”

Interviewer: “What went into that?”

Beulah: “That was the inside toilet. Some folks had a chamber pot under the bed, but a slop jar had a bail on it and was taller. If you had something in the chamber pot in the morning you would empty it into the slop jar to carry it out. It belonged to the bedroom set which had a bowl and pitcher. If you washed in the bedroom, you emptied [the water] into the slop jar and carried that out, too.”

Beulah Mardis, 76, Johnson County, page 45

“They had those outside toilets they built when [Franklin] Roosevelt was president. What do they call those toilets? I forget. They was concrete and built up like a stool for you to sit on, and a lid you could cover them up. But they were nice.”

Grace Hawkins, 93, Martin County, page 46

History Detectives Station Number 2

Student Questions

- 1) How did the people interviewed get water for use in the house?
- 2) Where did the people interviewed go to the bathroom?
- 3) Did anything surprise you about the article?
- 4) Give the article an appropriate title.

History Detectives Station Number 2

Teacher Answer Key

- 1) How did the people interviewed get water for use in the house? *(answer—from an outside well or cistern. They carried the water into the house in buckets. Some of the interviewees had a pump in the kitchen.)*

- 2) Where did the people interviewed go to the bathroom? *(answer—in a chamber pot (slop jar) in the bedroom or in an outhouse)*

- 3) Did anything surprise you about the article? *(multiple answers possible)*

- 4) Give the article an appropriate title. *(multiple answers possible)*

History Detectives Station Number 3

Images of Bathrooms from the Indiana Historical Society Collection



“Indianapolis Water Company Bathroom Display, 1926”
(Indiana Historical Society, Digital Image Collection, Item ID
P0130_P_8x10_99920-F)



“Bathroom in the Model Home, 1929”
(Indiana Historical Society, Digital Image Collection, Item ID
P0130_P_8x10_211196-F)

History Detectives Station Number 3

Student Questions

- 1) How are these bathrooms similar to the bathrooms of today?
- 2) How are these bathrooms different from bathrooms of today?
- 3) What surprises you about the photographs?

History Detectives Station Number 3

Teacher Answer Key

- 1) How are these bathrooms similar to the bathrooms of today? (*answer—they have a tub, shower, sink, toilet, and tile like ours today do*)

- 2) How are these bathrooms different from bathrooms of today? (*answer—the radiator is not common today, nor would you likely see a table attached to the wall in a modern bathroom*)

- 3) What surprises you about the photographs? (*answers may vary*)

History Detectives Station Number 4

Images of Kitchens from the Indiana Historical Society Collection and from J. C. Allen and Son Photography, courtesy of J. C. Allen and Son, Inc. Rural Life Photo Service.



Image from the Indiana Historical Society collection
“Model Home Kitchen Display by Pettis Dry Goods, 1928”
(Indiana Historical Society, Digital Image Collection, Item ID
P0130_P_8x10_206648-F)



“The built-in kitchen sink and drainboard in the remodeled farm kitchen of Mrs. Irma Brown, Albion, Indiana, 1927” Image from J. C. Allen and Son Photography. Reprinted with permission.

History Detectives Station Number 4

Student Questions

- 1) How are these kitchens similar to kitchens of today?
- 2) How are these kitchens different from kitchens of today?
- 3) What surprises you about the photographs?

History Detectives Station Number 4

Teacher Answer Key

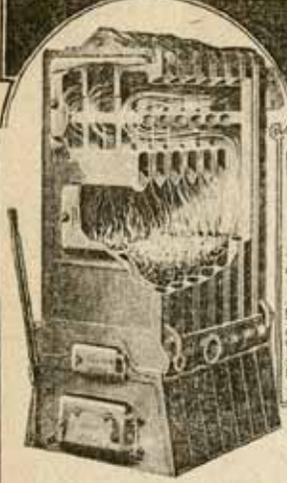
- 1) How are these kitchens similar to kitchens of today? (*answer—both have sinks, a tile floor, and cabinets for storage*)

- 2) How are these kitchens different from kitchens of today? (*answer—Mrs. Brown's kitchen has a water pump in the sink and no appliances are visible. The model kitchen has an old-fashioned stove, a phone on the wall, and no refrigerator*)

- 3) What surprises you about the photographs? (*multiple answers possible*)

Images from the 1923 Sears, Roebuck and Company Catalogue, edited by Joseph J. Schroeder, Jr., Northfield, IL: DBI Books, Inc., 1973 reprint. Courtesy Krause Publications, a division of F+W Media, Inc.

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No.	Size of Fire Box, Inches	Size of Smoke Pipe, Inches	Height, Feet	Flow and Return, Inches	Radiating Surface, Sq. Ft.	Rating, Btu. per Hour	Hot Water	Steam
174	17 1/2	6	58	2 1/2 in.	170	475	\$ 78.55	\$ 95.30
175	17 1/2	6	55	2 1/2 in.	159	475	87.50	100.00
176	17 1/2	6	55	2 1/2 in.	165	550	100.00	112.45
177	17 1/2	6	52	2 1/2 in.	150	475	112.75	125.00
178	17 1/2	6	58	2 1/2 in.	175	550	138.68	149.00

No.	Size of Fire Box, Inches	Size of Smoke Pipe, Inches	Height, Feet	Flow and Return, Inches	Radiating Surface, Sq. Ft.	Rating, Btu. per Hour	Hot Water	Steam
179	17 1/2	6	58	2 1/2 in.	170	475	\$ 78.55	\$ 95.30
180	17 1/2	6	55	2 1/2 in.	159	475	87.50	100.00
181	17 1/2	6	55	2 1/2 in.	165	550	100.00	112.45
182	17 1/2	6	52	2 1/2 in.	150	475	112.75	125.00
183	17 1/2	6	58	2 1/2 in.	175	550	138.68	149.00

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No.	Size of Fire Box, Inches	Size of Smoke Pipe, Inches	Height, Feet	Flow and Return, Inches	Radiating Surface, Sq. Ft.	Rating, Btu. per Hour	Hot Water	Steam
134	13 1/2	5	40	2 1/2 in.	100	175	\$ 47.70	\$ 60.45
135	13 1/2	5	40	2 1/2 in.	100	225	50.65	72.45
136	13 1/2	5	40	2 1/2 in.	100	300	71.75	84.45

No.	Size of Fire Box, Inches	Size of Smoke Pipe, Inches	Height, Feet	Flow and Return, Inches	Radiating Surface, Sq. Ft.	Rating, Btu. per Hour	Hot Water	Steam
137	13 1/2	5	40	2 1/2 in.	100	175	\$ 47.70	\$ 60.45
138	13 1/2	5	40	2 1/2 in.	100	225	50.65	72.45
139	13 1/2	5	40	2 1/2 in.	100	300	71.75	84.45

SQUARE FEET OF HEATING SURFACE		
18-inch Height, Sq. Ft.	24-inch Height, Sq. Ft.	30-inch Height, Sq. Ft.
42L3980	32	41
42L3990	33	42
42L3999	33	42

SQUARE FEET OF HEATING SURFACE		
27-inch Height, Sq. Ft.	36-inch Height, Sq. Ft.	48-inch Height, Sq. Ft.
42L4002	43	51
42L4003	43	51
42L4004	43	51

Shipped from factory in WESTERN NEW YORK. Prices subject to market changes.



Hercules Thermostat Heat Regulator.

\$31.45

This device will not only keep the temperature in your rooms regulated at all times and keep steady throughout the winter, but it will save up the dollars on your heating system for you before you are in the morning so that your rooms will be warm and cozy when you get up.

It will regulate any temperature you want to set it for.

PAYS FOR ITSELF IN ONE WINTER.

It will save you a big sum in your fuel bill. Right or day it is always on the job and it will pay for itself the first winter used. You will need to give your heating system only about one-half the attention the doctor does with regulated automatically. Furnished with or without a 10-c attachment. We recommend always with clock attachment, as useful without clock does not have feature of showing draft before you get up in the morning.

42L1770

With attachment of 10-c attachment. Shipping wt. 27 lbs. \$26.75
42L1771—With attachment of 10-c attachment. Shipping wt. 27 lbs. \$31.45



Image from the 1923 Sears, Roebuck and Company Catalogue, page 694.

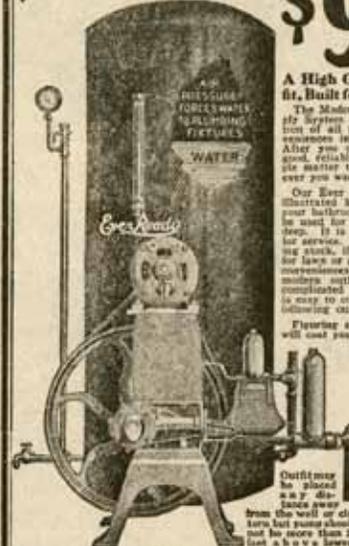
History Detectives Station Number 5

Images from the 1923 *Sears, Roebuck and Company Catalogue*, edited by Joseph J. Schroeder, Jr., Northfield, IL: DBI Books, Inc., 1973 reprint. Courtesy Krause Publications, a division of F+W Media, Inc.

Ever Ready Automatic Electric Water Supply System

\$90.85 Gives You Running Water in Your Home

Why Not Enjoy This Great Convenience



A High Grade Outfit, Built for Service.
The Modern Water Supply System is the foundation of all plumbing conveniences in the home. After you once have a good, reliable water supply system installed, it is a very simple matter to extend the pipes and have running water wherever you want it on your premises.

Our Ever Ready Automatic Electric Water Supply System, illustrated here, will automatically supply running water to your bathroom, kitchen sink, laundry, etc. These outfits may be used for running down wells, or cisterns out over 25 feet deep. It is a sturdy high grade, grained outfit and is built for service. You can extend the piping to your bath for washing, your wash, and have hydrants conveniently placed for lawn or garden sprinkling, fire protection, etc. All of these conveniences are yours as soon as you have one of these modern outfits installed in your home. There is nothing complicated or difficult to understand about this outfit. It is easy to connect and lay hands men can easily install it by following our simple instructions.

Regular cost of current at 10 cents per kilowatt hour. It will cost you only 3 cents to pump 100 gallons of water.

It Starts Itself—It Stops Itself
Night or Day It Never Forgets to Pump
When Water Is Needed

Water in Abundance When and Where You Want It.

A section pipe in, of course, extended to your well, and discharge pipe from the pump is connected to the piping system you will get a plentiful supply of running water.

Important—Please Note.
These outfits are furnished for four types of electric current, No. 1—110-volt, A. C., single phase, 60-cycle; No. 2—110-volt, A. C., single phase, 60-cycle; No. 3—110-volt, D. C., and No. 4—110-volt, D. C., same as furnished with our turn electric lighting plants. When ordering be sure to state which is wanted.

You can get this information from the people who supply you with electric current. We cannot furnish motors for current other than the four types stated above.

The pump motor can be attached direct to the wires on any electric lighting system having current mentioned above. There are no difficult electrical connections to make and you will not require the services of an experienced electrician or plumber for any part of the work. The outfit is very simple and the installation and operation is all very clearly explained in our special instructions sent with each outfit. Complete outfit includes power tank, electric motor, with automatic switch, and all necessary valves, gauges and connections. A 1/2 inch galvanized section pipe to well or cistern supply pipe to plumbing fixture not included.

Stroke of pump, 2 in.; bore, 1 1/2 in. Capacity, 100 gallons per hour. Size of motor, 1/2 H.P. Cylinder is brass lined. Piston rod is solid brass. Piston is leather packed. Maximum working pressure, 50 pounds. Range of pressure for which automatic cut-off switch can be adjusted, 15 to 45 lbs.

PRICES FOR EVER READY AUTOMATIC ELECTRIC WATER SUPPLY SYSTEM.

Outfit	Diameter, Tank, Feet	Length, Tank, Feet	Total Working Capacity, Gallons	Spec. Wt., Lbs.	Price
4213600%	18	53	52	220	\$ 92.85
4213602%	20	57	52	250	107.85
4213601%	18	4	51	225	\$107.95
4213603%	20	4	51	250	112.25
4213610%	18	4	51	225	\$69.95
4213605%	20	4	51	250	84.95

Outfits may be placed in any dis-charge well or cistern not to exceed 25 feet in depth. Lowest water level.

Outfits include pump and pump on all contents shipped from CENTRAL ILLINOIS or PHILADELPHIA stores, gauges and valves shipped from our CHICAGO or PHILADELPHIA stores.

We also sell Automatic Electric Pumping Outfits for Deep Wells. Write for Our Special Water Supply Circular 5736GCL.

"Water Boy" Pneumatic Water Supply System.

Easy to Operate.

\$49.75

Gives You Running Water in Your Home at Small Expense.

It is a very much improved type of system. In this outfit the physical effort required to pump the water is greatly reduced. The mechanism built up around the heavy wheel makes the pump work smoothly and easily over the full range of pumping strokes, so that the tank is rapidly brought up to pressure with surprisingly little effort. The great advantage of this outfit are strikingly apparent. You can place it in your basement or elsewhere and you can locate it any distance away from the house, the well, or the cistern. The outfit will still furnish a plentiful supply of water to your bathroom fixtures on the second floor as well as to the kitchen sink on the first floor, or to any other plumbing fixtures in your home. Tank can be pumped up with gas in ten minutes and pumping once or twice a day will fill all the requirements of the average family. A water pressure as high as 25 pounds may be developed. It is one of the most reliable running outfits ever placed on the market for the home. Tank has brass rod and 2-inch brass cylinder; stroke of pump, 2 inches; tank size, 20x20 inches; total capacity, 60 gallons.

4213620%—"Water Boy" Pneumatic Water Supply System, complete with black tank, all valves, gauges, etc., as illustrated, ready for service. Shipping weight, 325 pounds. \$49.75

4213621%—"Water Boy" Outfit, same as above, with tank 20x20 inches, shipping weight, 325 pounds. \$67.75

Hand Power Pneumatic Water Supply System.

For Wells or Cisterns Up to 20 Feet Deep.

Vertical Tank \$52.75

Outfits.

Our Ever Ready Hand Power Water Supply Systems quoted below are equipped with one of the best hand power pumps on the market. Easy working geared hand drive, brass lined piston rod, brass air cylinder attachment, brass air and water at the same time. Large air chamber, well made cast iron machinery. These pumps are up to the highest standard in workmanship, finish and material. Pumps will draw water from any well or cistern up to 20 feet deep.

These outfits will force water wherever you wish to extend the pipe and connect a faucet. With one of these outfits you can have all the conveniences of modern plumbing. A sink, bathtub, lavatory or water closet, with hot and cold water always on tap. The first cost is the only cost. Fifteen minutes' pumping each day supplies sufficient water for the ordinary household. Complete outfit includes one vertical black tank, one double acting geared hand pump with 2-inch brass piston rod and cold water pump attached; also all necessary valves, gauges and connections, etc., as shown. Section pipe to well or cistern or water supply pipe to plumbing fixtures not included. Order black galvanized pipe to connect pump with well and black galvanized pipe to make connection to plumbing fixtures.

Prizes and Dimensions—Vertical Tank Outfits

Diame. Tank, In.	Length, Tank, Feet	Total Working Capacity, Gallons	Spec. Wt., Lbs.	Price
18	40	100	470	\$52.75
20	44	100	500	62.75
20	48	100	530	77.75

Tanks on all these outfits are shipped from factory in CENTRAL ILLINOIS or PHILADELPHIA stores; pumps and trimmings from our CHICAGO or PHILADELPHIA stores. Payment will be made from order money only.

Any of these outfits can easily be converted into a power outfit by attaching engine or electric motor drive by simply attaching one of our No. 312 Pump Gaskets as listed on page 618.

Septic Tanks for Sewage Disposal.

Purifies Sewage by Bacterial Action.

We furnish the two cement tanks or compartments only. Each compartment has a removable cover.

The sewage is discharged into the larger tank with ordinary cast iron soil pipe or glazed sewer tile. Tanks should be interconnected at top with sewer pipe. Outlet discharged into a system of ordinary porous field drain for further purification. Tanks are made of cement composition, well reinforced with steel rods. They are made in one solid piece with removable covers; no seams, no chance for leakage.

4213630%—Two tanks only, for sanitary sewage disposal system as described, with covers, no pipe fittings, size of pipe included. \$29.75

For cast iron soil pipe and fittings see page 704.

SEARS, ROEBUCK AND CO. .695

Image from the 1923 *Sears, Roebuck and Company Catalogue*, pages 695.

History Detectives Station Number 5

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Modern Bathroom Outfits

\$71³⁵ Buys This High Grade Outfit

Why be without this great convenience in your home? It is not difficult to install a modern bathroom outfit. By following our simple plans and instructions you can install your own plumbing material and make a big saving. Send us a sketch showing how you would like to locate the plumbing fixtures and let us send you an estimate on a complete modern plumbing system.

Our prices are remarkably low. Remember all our plumbing material is strictly best quality. We do not sell seconds or "B" grade plumbing fixtures of any kind.

Easily Installed in the Home



Our Complete Plumbing Systems Also Sold on Easy Payment Terms. Write for Our Estimate.

The prices given in this catalogue are our cash prices. There is an advantage, of course, in paying cash for your material. However, if it is more convenient for you to pay for your plumbing system on monthly payments, provided you own the property in which the material is to be installed, we will make special arrangements so that you can purchase your material on easy payment terms.

By taking advantage of this offer you need not wait until you have accumulated sufficient funds to pay for the material in full. You can make this great improvement in your home right now and begin at once to enjoy this great comfort and convenience while paying for the material in moderate monthly payments easily within your means.

BATHTUB is 5 feet long, 30 inches wide over rim at top and 18 1/2 inches deep, sufficient to prevent water from overflowing over sides. Drain from floor to top of tub, 22 inches. Made of enameled iron, coated inside with white porcelain enamel, painted red outside and has 3-inch red rim. Standard 7-gallon rotary back check, 1 1/2-inch connected waste and overflow and two 1 1/2-inch cold supply pipes to floor, all of brass, nickel plated and polished.

LAVATORY is 14 inches from front to back, 21 inches wide and has 8-inch built back and roll up turnover top 4 inches deep. Hot and cold water tap in top directly above center, 1 1/2 inch trap with outlet to wall, two compartment faucet with china top, one marked "hot," the other "cold," and two 1/2-inch supply lines to wall. All fixtures, traps, supply pipes, etc., made of brass, in the latest design, rarely nickel plated.

Fairview Bathroom Outfit.

A very popular combination. Modern, of neat appearance and durable finish lower for the first time. A good investment made at a moderate price. You can easily install it yourself. Why not enjoy this great comfort in your home now?

42L3664—Fairview Bathroom Outfit (bathtub, lavatory and closet), with supply and waste pipes to wall, as illustrated. **\$73.35**

42L3665—Fairview Bathroom Outfit (bathtub, lavatory and closet), with supply and waste pipes to floor. **\$71.80**

If wanted with waste and supply pipes threaded for iron pipe, allow \$1.50 extra.

Prices for above outfits do not include paper holder, towel bar, etc. For Bathroom Trimmings see page 524.

\$83¹⁰ COMPLETE

Troquois Bathroom Outfit



White vitreous china closet tank, Siphon jet stainless steel hot and cold water lavatory and special features of this outfit.

LAVATORY is 14 inches from front to back, 21 inches wide and has a 7-gallon high back and three spray jets, made of cast brass with snap on top, two 1/2-inch cold water supply lines to wall, one marked "hot" and "cold," and two 1/2-inch cold water supply lines to wall. All trimmings of brass, rarely nickel plated.

CLOSET has vitreous china, jet, stainless steel, hot and cold water, with 7-gallon high back and three spray jets, made of cast brass with snap on top, two 1/2-inch cold water supply lines to wall, one marked "hot" and "cold," and two 1/2-inch cold water supply lines to wall. All trimmings of brass, rarely nickel plated.

\$107⁶⁵ COMPLETE

Chippendale Bathroom Outfit



Here is an outfit of a moderate price that would be appropriate for the smartest home. What a price it will be for you to have this beautiful outfit installed in your home.

LAVATORY is cast iron white porcelain finished, 20 inches from front to back and 24 inches wide. 1 1/2-inch trap with outlet to wall. Metal waste, two Puller pattern corky wash china handles, marked "hot" and "cold," and two 1/2-inch hot and cold water supply pipes to wall. All trimmings nickel plated.

Prices do not include paper holder, towel bar, stool, bath seat, etc. For Bathroom Trimmings see page 524.

696. SEARS, ROEBUCK AND CO.

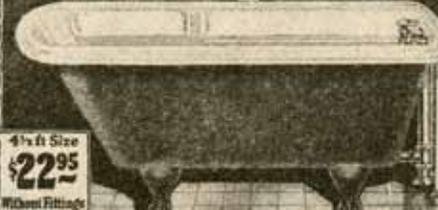
Image from the 1923 *Sears, Roebuck and Company Catalogue*, pages 696.

History Detectives Station Number 5

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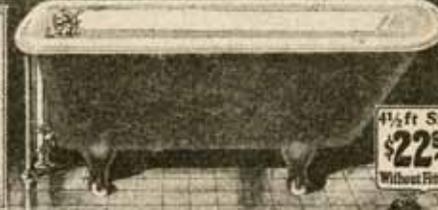
Bathtub Bargains

Look Over These Rock Bottom Prices Improve Your Home Now!



4 1/2 ft Size
\$22.95
Without Fittings

All Bathtubs on This Page Are Strictly First Quality. We Do Not Sell "Seconds" or Grade B Plumbing Fixtures of Any Kind.



4 1/2 ft Size
\$22.95
Without Fittings

Brookside Cast Iron Roll Rim Bathtub With Legs.

Heavy Cast Iron One-Piece Bathtub, detachable cast iron legs, 3-inch roll rim. Heavily coated inside and over rim with white porcelain enamel. Outside painted one coat of iron filler paint. Furnished with or without trimmings as noted below. Trimmings include Full or half bath rock, connecting waste and overflow and supply pipes to floor, all of nickel plated brass. WASH. over rim, 20 inches. Depth, 14 inches. Length, 22 inches. Shipped from LAYTON PARK, WIS.

	42L3600	42L3601
	Without	With
	Trimming	Trimming
Length, feet	4 1/2	5
Shipping weight, pounds	135	150
4 1/2	\$22.95	\$28.95
5	23.95	29.95
6	34.75	38.85
7	39.95	43.60

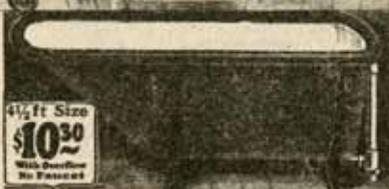
NOTE—Trimmings are necessary to connect to floor. If wanted for iron pipe connection, add 75 cents to price of tub with trimmings.

Irving Bathtub for Small Bathrooms.

Only 28 inches wide over all. Same as 42L3600's, except narrower width, for small bathrooms where space is limited. Width, over all, 28 inches. Width of rim, 2 inches. Trimmings include Full or half bath rock, connecting waste and overflow, all brass, nickel plated. Shipped from LAYTON PARK, WIS.

	42L3602	42L3603
	Without	With
	Trimming	Trimming
Length, feet	4 1/2	5
Shipping weight, pounds	120	135
4 1/2	\$21.40	\$22.90
5	21.85	23.90
6	24.70	26.80

For iron pipe connection, add the price of tub with trimmings.



Sheet Steel Bathtub.
Made of sheet steel, painted with patent enamel, inside white, outside blue. Has 2-inch wood rim, varnished. Nickel plated connected waste and overflow threaded for 1-inch iron pipe. Drilled for both ends, hot bath rock, or supply pipe not included at price quoted. Shipped from DETROIT, MICH. Shipping wt., 50 lbs.

Size	4 1/2 ft.	5 ft.	6 ft.	7 ft.
Each	\$10.30	\$10.70	\$11.10	\$11.70

Elegant Built-In Style Bathtub.

This tub is cast iron with three coats of porcelain enamel inside and outside. Artistic and sanitary. Has nickel plated brass model waste and overflow with a china lining basin, nickel plated brass supply pipes with ball off set connections and a nickel plated Full or half bath rock with chrome handles. This tub sets up against the back and end walls and fits tight to the floor. It is therefore strictly sanitary and easily kept clean. Hot or other trimmings, connect to end, bottom or behind the tub. Furnished for either right or left hand corner. Illustration shows tub for right hand corner. Show which is wanted. Shipped from LAYTON PARK, WIS. For iron pipe connection add 75 cents.

Length of tub, feet	4 1/2	5	6
Shipping weight, pounds	120	135	150
42L3690—For Right Hand Corner	\$44.35	\$48.70	\$50.90
42L3691—For Left Hand Corner	\$44.35	\$48.70	\$50.90

For iron pipe connection add 75 cents. Shipped from LAYTON PARK, WIS.

Marquette Bathtub, Stylish Design With Base.

Tub and base are cast in one solid piece. White porcelain enameled inside, painted one coat outside. Also furnished with white porcelain enameled deck inside and outside. Fitted complete with nickel plated china floor waste, nickel plated Full or half bath rock and nickel plated supply pipe to floor, an illustration. Hot or other trimmings, connect to end, bottom or behind the tub. A beautiful, sanitary bathtub.

Length, feet	4 1/2	5	6
Shipping weight, pounds	120	135	150
42L3699	\$41.45	\$41.75	\$43.50
42L3697	\$41.50	\$41.50	\$42.25

For iron pipe connection add 75 cents. Shipped from LAYTON PARK, WIS.

Venetian Built-In Corner Bathtub.

This beautiful massive cast iron white porcelain enameled corner bathtub is truly a masterpiece of the designer's art. It is the last word in sanitary bathroom design. The entire tub is coated both inside and out with highest quality genuine white porcelain enamel. Tub is furnished complete with latest pattern solid brass nickel plated fixtures, standing waste and supply pipes with individual shut off cocks and china handles. Shipped from LAYTON PARK, WIS. Furnished for right or left hand corner. Illustration shows tub for right hand corner. Show which is wanted. For iron pipe connection add 75 cents.

Length of tub, feet	4 1/2	5	6
Shipping weight, pounds	120	135	150
42L3700—For Left Hand Corner, Size 5 feet. Shipping wt., 470 lbs.	\$85.00		
42L3701—For Right Hand Corner, Size 5 feet. Shipping wt., 470 lbs.	\$85.00		

Alhambra Recess Built-In Bathtub.

This elegant tub is an exact counterpart of our Venetian Built-In Tub described at left, except that it is designed to be built in at both ends and one side as shown. The waste and supply fittings are concealed in the wall and the connecting knobs only protrude. This style of tub is now in great popular favor and is to be found in the most modern and fashionable residences in the country. Tub is furnished complete with concealed fixtures, nickel plated wall plates and controlling knobs with china handles for setting in wall as shown.

Length, feet	4 1/2	5	6
Shipping weight, pounds	120	135	150
42L3704	\$85.00		

For iron pipe connection add 75 cents. Shipped from LAYTON PARK, WIS.

SEARS, ROEBUCK AND CO. 697

Image from the 1923 *Sears, Roebuck and Company Catalogue*, page 697.

History Detectives Station Number 5

Images from the 1923 Sears, Roebuck and Company Catalogue, edited by Joseph J. Schroeder, Jr., Northfield, IL: DBI Books, Inc., 1973 reprint. Courtesy Krause Publications, a division of F+W Media, Inc.

Handy Portable Bathtubs and Heaters

No Pipes. No Sewers. No Running Water. No Plumbing Work



Heater, Kerosene Stove and Bath Tub. Three in One. Burns Kerosene.

Sink and pump outfit shown in illustration not included in price.

\$29⁴⁵

Heater and bathtub are separate and can be moved about independently. You can use the heater for heating water, cooking, etc., while the bathtub is set in use. Both the heater and tub are light and easily handled. When not in use tub can easily be lifted up and stored in and in some cases be covered where it will be out of the way, and the heater can be moved into the kitchen and placed alongside of the sink, as shown in the illustration at the left, and you will always have hot water for cooking, washing dishes, etc., by just opening the faucet on the tank. During hot summer days you can remove the tank and use the stove part of heater as a kerosene stove for cooking, frying, heating irons, etc., so that you will not have to burn a hot coal or wood stove burning in your kitchen.

An Ideal Outfit for the Summer Cottage.

This outfit holds three hot meals at every house, as shown by the illustration. Has 6-foot rubber hose to let water run outdoors. Tub is galvanized sheet steel nicely painted, 3 1/2 feet long and 25 inches wide with varnished oak rim. Tank holds 12 gallons. It is made of galvanized sheet steel and is covered with light nickel plated sheet metal, 4-inch of beautiful finish. Entire outfit is structurally well made and elegantly finished throughout. Just the thing for the country home which has no running water. At a special outfit for the summer cottage it can't be beat. Shipping weight, 35 pounds. Shipped from factory at DETROIT, MICH.

42L2711—Outfit complete as described. \$29.45



No Pipes or Plumbing Work Necessary.

\$36⁴⁰

You will be impressed with the appearance, fit and workmanship and practical utility of this outfit. Turn off the heater tank with water and light the burner. Water will be heated sufficiently for bath in thirty minutes. The water runs right into the tub by simply opening the faucet. To drain the water out of the tub, a 6-foot length of hose is provided which you can attach to the water outlet and let the water run outdoors. Water heater holds 12 gallons.

Tub is 5 feet long and 25 inches wide. It is made of galvanized sheet steel. Entire tub is heavily coated with paint enamel, giving the outfit a handsome and sanitary appearance. The upright stand is also white enameled to match the tub. Handwood iron stand entire top of tub, white enameled painted to match. Heater has galvanized steel inner casing covered with an outer casing of light nickel plated sheet steel, highly polished.

Light, Portable, Easily Handled.

The entire outfit is on rubber leveling rollers and can be pushed out of the way into some convenient storeroom or clothes closet. Water circulates through a copper tube in the heater directly over the burner, so that it heats quickly. Heater may be provided with gasburner or burner to burn kerosene, as desired. Stale which is wanted. This outfit is perfect in every respect where there is no modern plumbing installed. Shipping weight, 35 pounds. Shipped from factory at DETROIT, MICH.

42L3710—Outfit complete as described. \$36.40

Sheet Steel Sinks Will Not Break.



Light and durable. Fitted for 1 1/2-inch lead pipe. If lined for 1 1/2-inch iron pipe connection, add 25c. Size, over all, inches: 18x24 18x30 20x36 Shipping weight, pounds: 14 18 24 30 36 42

42L1630—Painted	\$2.10	\$2.70	\$2.98
42L1632—Galvanized	2.35	3.40	3.48

Roll Iron Sheet Steel Sinks.



Size, over all, inches: 18x24 18x30 20x36 Shipping weight, pounds: 20 26 32 38 44 50

42L1634—Painted	\$2.35	\$2.60	\$2.48
42L1636—Galvanized	2.55	3.40	3.93

42L1644—Painted Sheet Steel Sink—Length, 24 in., 12 in. high, 18x24 inches, 12 lbs. \$1.75

42L1646—Galvanized Steel Sink—Length, 24 inches, 12 inches high, 18x24 inches, 12 lbs. \$2.10

42L1648—Galvanized Steel Sink—Length, 30 inches, 12 inches high, 18x30 inches, 15 lbs. \$2.35

Genuine White Porcelain Enameled Flat Rim Kitchen Sinks.



\$4⁷⁵ and Up

Cast Iron Kitchen Sinks.

The Old Reliable Cast Iron Flat Rim Sink, furnished with genuine white porcelain enamel finish inside and painted finish outside; also with painted finish inside and outside. Both styles available. Heavy duty. Heavily furnished for lead pipe connection. Threaded for 1 1/2 or 1 1/4-inch iron pipe, 2 1/2 inches.

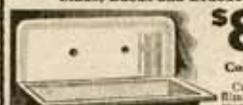
Size, over all: 18x24 18x30 18x36 20x36 20x42

Size, wt., lbs.	40	45	55	65	80
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42L1674—Painted inside and out \$5.15 \$5.45 \$5.20 \$5.75 \$ 6.45

42L1676—Porcelain enamel inside, 4.75 4.90 7.25 5.25 7.40 10.75

Sinks, Backs and Brackets.



\$8⁹⁵ and Up Complete

Cast Iron Flat Rim Sink, white enamel finish, enameled back, steel brackets. Sink, 12 inches high with holes for two faucets. Furnished with enamel, enamel holes, and tray containing threaded for iron pipe. Faucets or trap not included.

Size, inches: 18x24 18x30 20x36 20x42

Shipping wt., lbs.	38	40	50	55
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Above with waste pipe threaded for iron pipe. \$12.00 \$17.20 \$12.00 \$17.20

Cast Iron Sink Backs.



\$3⁵⁰ and Up

Porcelain enameled, for flat rim sinks, 12 inches high and 2 1/2 inches deep.

Length, inches: 42L14815 36 40 48

Shipping weight, lbs.: 30 35 45

\$3.50 \$3.75 \$4.95 \$6.00

Perfection Kitchen Sink and Pump Outfit.



Waste on a pump outfit. 1/2 inch waste pipe, forced into an attic tank or used for sprinkling, etc.

State if trap is wanted to floor or to wall.

Includes cast iron flat rim sink, porcelain enameled inside, 3-inch brass body cistern pump with rock spout threaded for hose connection, three sink brackets, oak pump board, 1 1/2-inch cast iron trap, fitted for iron pipe connection. Pump has 1/2-inch suction and 1/2-inch discharge for iron pipe connection. No pipe included.

42L2031

Size of sink, in.: 18x24 18x30 20x36 20x42

Shipping wt., lbs.	52	57	65	71
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With trap to floor \$33.10 \$35.35 \$34.85 \$38.95

With trap to wall \$31.90 \$34.30 \$32.90 \$37.85

Drain Boards.



42L1010—Reversible cast iron enameled drain board. Fits on bracket. For roll iron sinks. Size, 18x24 inches. Shipping weight, 48 lbs. \$9.25

42L350—No. 1 Plain, for 16 and 18-in. sinks. Per pair—\$3.25

42L351—No. 2 Plain, for 20-inch sinks and larger. Per pair—\$4.50

Sink Brackets.



Can be used with any sink on this page. Very neat in appearance. Shipping weight, 3 lbs. 3 pounds per pair.

Kitchen Sink Outfit With Cistern Pump.



Includes cast iron flat rim sink, porcelain enameled inside, 3-inch rubber spout pump with iron cylinder, 1/2-inch cast iron trap to floor or wall fitted for iron pipe connection, pump board, three brackets. Pump threaded for 1 1/2-inch iron pipe connection. Waste pipe or suction pipe not included.

State if trap is wanted to floor or to wall.

42L2029—Outfit complete as described.

Size of sink, inches: 18x24 18x30 20x36

Shipping wt., pounds	51	55	65
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With trap to wall \$32.10 \$34.30 \$32.70 \$37.70

With trap to floor \$33.30 \$35.50 \$34.90 \$39.90

If pump with brass lined cylinder is wanted instead of iron, add 50c to above prices.

702 SEARS, ROEBUCK AND CO.

Image from the 1923 Sears, Roebuck and Company Catalogue, page 702.

History Detectives Station Number 5

Images from the 1923 *Sears, Roebuck and Company Catalogue*, edited by Joseph J. Schroeder, Jr., Northfield, IL: DBI Books, Inc., 1973 reprint. Courtesy Krause Publications, a division of F+W Media, Inc.

Ready Made Pumping Outfits

High Spout Anti-Freezing Windmill Lift Pumping Outfit for Dug or Drilled Wells.

\$12⁴⁰

COMPLETE OUTFIT FOR 30-FT. WELL.

Complete Outfit includes 4212464 pump as described on page 106, with cylinder galvanized pipe and pivoted pump foot all cut and fitted ready to install in depths of wells specified.

4212464—Same as Outfit as described, for 30-foot well. Shipping weight, 175 pounds. **\$12.40**

4212465—Same Outfit, for 40-foot well. Shipping weight, 175 pounds. **\$14.35**

4212466—Same Outfit, for 50-foot well. Shipping weight, 202 pounds. **\$16.30**

4212470—Same Outfit, for 60-foot well. Shipping weight, 230 pounds. **\$18.25**

4212472—Same Outfit, for 70-foot well. Shipping weight, 256 pounds. **\$20.20**

Outfits quoted below same as above, except Hand Pump 4212464, as described and illustrated on page 796, is furnished instead of windmill pump.

4212440—Pumping Outfit as described, with hand pump instead of windmill pump for 30-foot well. Shipping weight, 145 pounds. **\$11.65**

4212442—Same Outfit, for 40-foot well. Shipping weight, 159 pounds. **\$13.60**

4212444—Same Outfit, for 50-foot well. Shipping weight, 197 pounds. **\$15.55**

4212446—Same Outfit, for 60-foot well. Shipping weight, 225 pounds. **\$17.50**

4212448—Same Outfit, for 70-foot well. Shipping weight, 253 pounds. **\$19.45**

For less body cylinder instead of iron cylinder on any of above outfits, add \$2.18 to the price quoted.

Extra Heavy Windmill Force Pumping Outfit for Dug or Drilled Wells.

\$14⁴⁰

COMPLETE OUTFIT FOR 30-FT. WELL.

Complete Outfit includes 4212474 pump as described on page 108, with cylinder galvanized pipe and pivoted pump foot all cut and fitted ready to install in depths of wells specified.

4212474—Pumping Outfit as described, for 30-foot well. Shipping weight, 177 pounds. **\$14.40**

4212476—Same as a Pumping Outfit, for 40-foot well. Shipping weight, 191 lbs. **\$16.35**

4212478—Same as a Pumping Outfit, for 50-foot well. Shipping weight, 219 lbs. **\$18.30**

4212480—Same as a Pumping Outfit, for 60-foot well. Shipping weight, 247 lbs. **\$20.25**

4212482—Same as a Pumping Outfit, for 70-foot well. Shipping weight, 275 lbs. **\$22.20**

4212484—Same as a Pumping Outfit, for 80-foot well. Shipping weight, 303 lbs. **\$24.15**

4212486—Same as a Pumping Outfit, for 90-foot well. Shipping weight, 331 lbs. **\$26.10**

Outfits quoted below are same as above, except Hand Pump 4212474, as described and illustrated on page 796, is furnished instead of windmill pump.

4212450—Pumping Outfit as described, with hand pump instead of windmill pump for 30-foot well. Shipping weight, 155 lbs. **\$13.40**

4212452—Same as a Pumping Outfit, for 40-foot well. Shipping weight, 176 lbs. **\$15.35**

4212454—Same as a Pumping Outfit, for 50-foot well. Shipping weight, 203 lbs. **\$17.30**

4212456—Same as a Pumping Outfit, for 60-foot well. Shipping weight, 230 lbs. **\$19.25**

4212458—Same as a Pumping Outfit, for 70-foot well. Shipping weight, 258 lbs. **\$21.20**

Drive Well Pump Outfit With Heavy Windmill Force Pump.

\$11⁶⁰

COMPLETE OUTFIT FOR 10-FT. WELL.

Same as Outfit 4212474, etc., as described on left, except that it is furnished with 1 1/2 inch 60-gauge well pipe, 30 inches long, for drive well.

4212504—Drive Well Pumping Outfit as described for 10-foot well. Shipping weight, 120 pounds. **\$11.60**

4212505—Same Outfit, for 15-foot well. Shipping weight, 140 lbs. **\$13.55**

4212506—Same Outfit, for 20-foot well. Shipping weight, 160 lbs. **\$15.50**

4212507—Same Outfit, for 25-foot well. Shipping weight, 180 lbs. **\$17.45**

4212508—Same Outfit, for 30-foot well. Shipping weight, 200 lbs. **\$19.40**

Outfits quoted below are same as above, except Hand Pump 4212474, as described and illustrated on page 796, is furnished instead of windmill pump.

4212510—Drive Well Pumping Outfit as described, with hand pump instead of windmill pump for 10-foot well. Shipping weight, 110 lbs. **\$10.60**

4212511—Same Outfit, for 15-foot well. Shipping weight, 130 lbs. **\$12.55**

4212512—Same Outfit, for 20-foot well. Shipping weight, 150 lbs. **\$14.50**

4212513—Same Outfit, for 25-foot well. Shipping weight, 170 lbs. **\$16.45**

4212514—Same Outfit, for 30-foot well. Shipping weight, 190 lbs. **\$18.40**

For less body cylinder instead of iron cylinder on any of above outfits, add \$2.18.

Anti-Freezing Windmill Lift Pumping Outfit for Drive Well.

\$9⁶⁵

COMPLETE OUTFIT FOR 10-FT. WELL.

Same as Outfit 4212444, etc., as described on left, except that it is furnished with 1 1/2 inch 60-gauge well pipe, 30 inches long, for drive well.

4212492—Drive Well Pumping Outfit as described for 10-foot well. Shipping weight, 110 lbs. **\$9.65**

4212493—Same Outfit, for 15-foot well. Shipping weight, 130 lbs. **\$11.60**

4212494—Same Outfit, for 20-foot well. Shipping weight, 150 lbs. **\$13.55**

4212495—Same Outfit, for 25-foot well. Shipping weight, 170 lbs. **\$15.50**

4212496—Same Outfit, for 30-foot well. Shipping weight, 190 lbs. **\$17.45**

Outfits quoted below are same as above, except Hand Pump 4212444, as described and illustrated on page 796, is furnished instead of windmill pump.

4212498—Drive Well Pumping Outfit as described, with hand pump instead of windmill pump for 10-foot well. Shipping weight, 87 lbs. **\$8.90**

4212499—Same Outfit, for 15-foot well. Shipping weight, 107 lbs. **\$10.85**

4212500—Same Outfit, for 20-foot well. Shipping weight, 127 lbs. **\$12.80**

4212501—Same Outfit, for 25-foot well. Shipping weight, 147 lbs. **\$14.75**

4212502—Same Outfit, for 30-foot well. Shipping weight, 167 lbs. **\$16.70**

For less body cylinder instead of iron cylinder on any of above outfits, add \$2.18.

Sure Tight Covers Cover for Safety and Cleanliness.

4211840—For 21-inch opening. Made of cast iron with ring for fitting and two catches, making it necessary to turn cover slightly before it can be removed. For safety of children, as it will close when they fall, into tubs or water tanks. Shipping weight, 30 pounds. **\$3.95**

4211847—Same as above, except with holes in cover for each chamber of toilet tank. **\$4.50**

\$3⁹⁵

21-INCH SIZE

Challenge Steel Curb Purifying Pumps.

\$10⁹⁸

COMPLETE FOR 10-FOOT WELL.

Turning of crank gives large, continuous flow of water at pump foot. A child can easily operate it. Water is raised by means of an endless chain with buckets which pass a curved bearing in pump and well. Buckets carry air to bottom of well where it is released and water rises to the surface in small bubbles. These bubbles liberate the gases the water contains, while the oxygen in the air helps to purify the water. Order outfit that will reach to within 2 feet of well bottom, as water is roiled and fresh at this point. Pumps consist of galvanized steel work, nicely painted, galvanized molasses chain with buckets and lower bearing all ready to place in well. Shipping weight, 40 pounds. **\$10.98**

4212201—For 10-foot well. **\$10.98**

4212202—For 11-foot well. **\$12.93**

4212203—For 12-foot well. **\$14.88**

4212204—For 13-foot well. **\$16.83**

4212205—For 14-foot well. **\$18.78**

Wood Curb Tubular Chain Pump.

\$6⁵⁹

COMPLETE FOR 10-FOOT WELL.

Turning of crank gives large, continuous flow of water at pump foot. A child can easily operate it. For shallow wells or cisterns, not for deep wells. Curb is made of wood, nicely painted. Chain is heavily galvanized. Buckets furnished with this pump are made of good quality rubber with large inside flange and galvanized steel, making it practically impossible for rubber to slip or become loose. We advise the use of this pump for wells no deeper than 20 feet. For wells of greater depth, purchase one of our iron pumps. Shipping weight, 64 pounds. **\$6.59**

4212201—For 10-foot well. **\$6.59**

4212202—For 11-foot well. **\$8.54**

4212203—For 12-foot well. **\$10.49**

4212204—For 13-foot well. **\$12.44**

4212205—For 14-foot well. **\$14.39**

Let Our Simplex Hydraulic Ram Pump Water for You.

\$10⁹⁵

AND UP

No engine, electric motor or other artificial source of power necessary to drive this pump. It makes the water pump itself by its own power. Our Simplex Hydraulic Ram operates on the right, will pump water anywhere from 20 to 120 feet above point where it is placed, depending upon height of fall of water to run. It works continuously night and day and never gets tired.

Will absorb water to a high tank or reservoir or will force it a long distance at a distance of from 25 to 50 feet. Will lift water 4 to 10 feet for every foot of fall (between a level) between pump and tank. The ram lifts about one-seventh of the water which runs into it, the balance of the water runs off the run at the valve in the operation of lifting. All you have to do is to connect the supply or lead pipe to run and place one end in the water. Connect the discharge pipe to the other side of run and run it to your storage tank. Ram will not work with less than 2 feet of fall. We furnish all directions for installing. Better yet, and tell us just what conditions you have to operate a ram and we will prepare a special estimate. Ask for our Hydraulic Ram Circular No. 1475-G.C.L. sent postpaid on request.

Catalog No.	Gallons of Water Pumped in 24 Hours Necessary to Operate Ram	Size of Supply Pipe	Size of Discharge Pipe	Shipping Weight, Lbs.	Price
4212300	1 to 2	1 1/2 in.	1 1/2 in.	27	\$10.95
4212301	2 to 4	1 1/2 in.	1 1/2 in.	41	13.00
4212302	4 to 6	1 1/2 in.	1 1/2 in.	56	16.95
4212303	6 to 10	2 in.	2 in.	77	22.75
4212304	11 to 20	2 1/2 in.	2 1/2 in.	96	30.75

Use in connection with 4212211's, and 4212212's, N. 1's or Pumps as listed in the left. Furnished in 5, 6, 7 or 8-foot lengths. Reservoir tubing is used in connection with the pump curb. Furnish tubing pipe at bottom.

Galvanized Steel Tubing.

Reservoir Tubing.

Funnel Tubing.

Plain Tubing.

Galvanized Pump Chain.

Enter chain for chain pumps. Shipping weight, per foot, 5 ounces.

421370—Per foot. **.4c**

Steel Curb Tubular Chain Pump.

Same as our 4212201's, etc., illustrated above, except that galvanized steel curb of top casting illustrated in left is furnished instead of wood. Shipping weight, 73 lbs.

4212201—For 10-foot well. **\$7.98**

4212202—For 11-foot well. **\$9.93**

4212203—For 12-foot well. **\$11.88**

4212204—For 13-foot well. **\$13.83**

4212205—For 14-foot well. **\$15.78**

Each. **51c**

Per foot. **.4c**

SEARS, ROEBUCK AND CO. .709

Image from the 1923 *Sears, Roebuck and Company Catalogue*, page 709.

History Detectives Station Number 5

Images from the 1923 *Sears, Roebuck and Company Catalogue*, edited by Joseph J. Schroeder, Jr., Northfield, IL: DBI Books, Inc., 1973 reprint. Courtesy Krause Publications, a division of F+W Media, Inc.

<p>\$1.45 Gray Enamelled Seamless Chamber Combinet.</p>  <p>Made of sheet steel, well enamelled inside and out. This chamber has a hand pull top, 11 in. in diameter. Capacity, 12 quarts. Shipping weight, 15 pounds.</p> <p>99L2221.....\$1.45</p>	<p>Gray Enamelled Seamless Chamber Pail. \$1.40</p>  <p>Very durable. Sheet steel covered with two coats of tough enamel. Top, 9 1/2 inches in diameter. Holds 12 quarts. Shipping weight, 15 pounds.</p> <p>99L2220.....\$1.40</p>	<p>Gray Enamelled Chamber Covers. 18c Medium.</p>  <p>9L2108—Medium size. Weight, 1 1/2 pounds. 18c 9L2109—Large size. Weight, 10 ounces. 20c</p> <p>Get Enamelled Chamber.</p>  <p>40c</p> <p>9L2105—Medium size. Weight, 1 pound. 40c 9L2106—Large size. Weight, 1 1/2 pounds. 50c</p>	<p>White Enamelled Chamber. \$1.95</p>  <p>With white enamelled cover. Easily cleaned. Can be used as chamber or pail. Capacity 12 quarts; 11 inches top diameter. Shipping weight, 15 pounds.</p> <p>99L2200.....\$1.95</p>	<p>White Enamelled Chamber Cover. 30c Large.</p>  <p>Weight, 10 ounces. Size 9L2483—Medium.....35c 9L2482—Large.....35c</p> <p>White Enamelled Chamber. 65c Large.</p>  <p>Weight, 2 pounds. Size 9L2480—Medium.....65c 9L2481—Large.....65c</p>		
<p>Gray Enamelled Wash Basins. 26c Medium.</p>  <p>9L2097—Small size. 10 inches. 26c 9L2098—Medium size. 12 inches. 26c 9L2099—Large size. 14 inches. 30c</p>	<p>Gray Enamelled Foot Bath Tub. \$1.30</p>  <p>9L2095 Size, 18 1/2 inches. Capacity, 20 quarts. Weight, 3 1/2 lbs. \$1.30</p>	<p>SEAMLESS WHITE ENAMELED WASH BASINS.</p>  <p>9L2455—Medium. Dispenser. 11 1/2 in. Wt. 1 1/2 lbs. 35c 9L2456—Large. Dispenser. 12 in. Wt. 1 1/2 lbs. 45c 9L2457—Large. Dispenser. 12 inches. Weight, 1 1/2 pounds. 55c</p>	<p>White Enamelled Foot Bath Tub. \$1.50</p>  <p>9L2448 Size, 18 1/2 in. Capacity, 20 quarts. Wt. 3 1/2 lbs. \$1.50</p>			
<p>Gray Enamelled Water Pail. 99L2232</p>  <p>Capacity, 12 quarts. Weight, 15 lbs. \$1.10</p>	<p>Gray Enamelled Soap Dish. 10c</p>  <p>9L2010—Size, 4 1/2 inches. Weight, 4 ounces. 10c</p>	<p>White Enamelled Washstand Set. \$5.95</p>  <p>Strong, durable and sanitary. Also steel stand. High with wash basin and towel bar. White enamelled steel and wash basin. Fitted with 4-inch heavy glass top. Wash basin 14 in. in diameter. Shipping weight, 17 lbs. Not available. 99L2204.....\$5.95</p>	<p>Complete Washstand Set. \$3.60</p>  <p>Steel stand 30 in. high. 12-inch wash basin. 4-quart water pitcher. Bowl and pitcher are made of heavy sheet steel, covered inside and out with white enamel. Soap dish and stand are chrome plated. Shipping weight, 12 pounds. Not available. 99L2205.....\$3.60</p> <p>For other Washstands, see page 822.</p>			
<p>\$3.35 4-Piece Galvanized Toilet Set.</p>  <p>Servicable and durable. Made of 14-gal. steel, galvanized after being sprayed. Includes 10-in. toilet brush, 2 1/2-in. x 4-in. x 4-in. water pitcher and 14-inch wash basin. Shipping weight, 16 pounds.</p> <p>99L2099.....\$3.35</p>	<p>White Enamelled Toilet Set. \$5.65</p>  <p>High quality white enamelled wash basin, 4-quart water pitcher. Toilet brush set and cover. Large size chamber and soap dish with grate. Each made from the heaviest heavy glass steel. Shipping weight, 23 pounds. Not available. 99L2207.....\$5.65</p>	<p>A Very Handy Wash Set. 65c</p>  <p>Basin holder, 4 1/2 x 6 1/2 inch and 12-inch white enamelled basin with a screen for attaching to wall. Weight, 7 1/2 pounds. 9L2466.....65c</p>	<p>Handy White Enamelled Wash Set. \$2.20</p>  <p>A handy set for the back porch or kitchen. High quality white enamelled wash basin, 4-quart water pitcher, 13-in. wash basin and 14-quart water pitcher. Shipping weight, 15 lbs. 99L2206.....\$2.20</p>			
<p>Nickel Plated Cupid. 30c</p>  <p>9L2028—Loaded bottom. Weight, 1 pound. 30c</p>	<p>THE THRIFTY BUYER always considers quality as well as price, because it requires both to measure value. Our experienced merchandising assures you the highest possible value for every dollar.</p>					
<p>Gasoline Torch. \$3.85</p>  <p>NOTE: Points in Gasoline Torches should be lighted by hand only.</p> <p>Gives a strong light, for indoor or outdoor lighting. Screw furnished for hanging torch. Maximum High Burner Gasoline Torch with 9 1/2-in. galvanized reservoir and large size enamelled burner. Shipping weight, 15 lbs. 99L2177.....\$3.85</p> <p>Standard Gasoline Torches with 3 1/2-quart reservoir in gas and regular burners.</p> <p>99L2175—Single Burner. Shipping weight, 15 pounds. \$1.95 99L2176—Double Burner. Shipping weight, 22 pounds. \$2.90</p>	<p>Galvanized Oil Can. 90c</p>  <p>2-Gallon.</p> <p>Made of sheet steel, galvanized after being sent to factory, making it completely tight. Has COPPERED riveted top, which adds strength to the can. EVERY can tested.</p> <p>99L2100—5-gallon size. Shipping weight, 7 lbs. 90c 9L2608—1-gal. size. Shipping weight, 1 1/2 lbs. 30c</p>	<p>Delivers' Special Cold Blast Lantern. \$2.40</p>  <p>Large reflector. 15-candle power. Bright light. Clamps on dash by means of a spring clamp at back of lantern. No. 1 burner with 5-in. wick. Well made and fully guaranteed. Weight, 2 1/2 pounds.</p> <p>9L2508.....\$2.40 9L2513—Extra Cold Blast Globe in No. 1 Burner. Weight, 10 ounces. 10c</p>	<p>Junior Cold Blast Wagon Lantern. \$1.55</p>  <p>A popular style of wagon lantern that supplies your all night driving lamp. Fitted with 2 1/2-inch red burner lens in rear. Attaches to wagon by means of spring clamps. Burner polished in black enamel. No. 1 burner with 5-in. wick. Weight, 2 1/2 pounds.</p> <p>9L2604.....\$1.55 9L2610—Extra globe for above lantern. Weight, 10c</p> <p>For Kerosene see page 827. For Electric Vehicle Lamps see page 813.</p>	<p>"Little Wonder" Lantern. 55c</p>  <p>A well made, small size lantern that will burn steadily in wind or storm. No. 1 burner. 3 1/2-in. wick. Height, 7 1/2 inches. Weight, 1 1/2 pounds.</p> <p>9L2505.....55c 9L2506—Extra Globe for 9L2505 "Little Wonder" Lantern. Weight, 3 ounces. 10c</p>	<p>Junior Cold Blast Lantern. 85c</p>  <p>Well made. Same high quality as our High Grade Cold Blast Lantern. No. 1 burner. 3 1/2-in. wick. Weight, 2 pounds.</p> <p>9L2500.....85c 9L2510—Extra Globe for 9L2500 Junior Cold Blast Lantern. Weight, 30 ounces. 10c</p>	
<p>All weights and measurements given on this page are approximate and may vary a trifle. SEARS, ROEBUCK AND CO. 825</p>						

Image from the 1923 *Sears, Roebuck and Company Catalogue*, page 825.

History Detectives Station Number 5

Student Questions

- 1) How were the pots shown on page 825 used?
- 2) What improvements over the pots were available on page 702?
- 3) What is the purpose of the EverReady and the Water Boy products on page 695?
- 4) How much would a completely outfitted bathroom cost?
- 5) What surprises you about the products offered for sale in the catalog?

History Detectives Station Number 5

Teacher Answer Key

- 1) How were the pots shown on page 825 used? (*answer—the chamber pots were used as toilets or as a basin for bathing and washing*)
- 2) What improvements over the pots were available on page 702? (*answer—indoor tubs and sinks with pumps and drains are advertised on page 702*)
- 3) What is the purpose of the EverReady and the Water Boy products on page 695? (*answer—these electric pumps provided running water in the home*)
- 4) How much would a completely outfitted bathroom cost? (*answer—from \$71.35 to \$107.54*)
- 5) What surprises you about the products offered for sale in the catalog? (*answers may vary*)

History Detectives Station Number 6

Printed Pages from The Plumbing Museum Web Site

Teachers: Print the materials found on The Plumbing Museum's Web site.

http://www.theplumbingmuseum.org/examples_of_our_collection.html (accessed January 5, 2010)

History Detectives Station Number 6

Student Questions

- 1) Of what materials do the toilets and bowls/sinks appear to be made?

- 2) From what year is the image of the modern-looking toilet?

- 3) From what year is the image of the modern-looking sink?

- 4) One image shows an improvement made to the chamber pot. What is the improvement?

- 5) What surprises you about these objects?

History Detectives Station Number 6

Teacher Answer Key

- 1) Of what materials do the toilets and bowls/sinks appear to be made? (*answer—wood, copper, and glazed enamel*)
- 2) From what year is the image of the modern-looking toilet? (*answer—1891*)
- 3) From what year is the image of the modern-looking sink? (*answer—1885*)
- 4) One image shows an improvement made to the chamber pot. What is the improvement? (*answer—it was mounted in a case so that it would be easier to use*)
- 5) What surprises you about these objects? (*multiple answers possible*)