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# SHOE AND LEATHER TRADE IN GERMANY

By

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Commercial Agent of the Department of Commerce and Labor

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TRANSMITTED TO CONGRESS IN COMPLIANCE  
WITH THE ACT OF MARCH 4, 1911, AUTHORIZING  
INVESTIGATIONS OF TRADE CONDITIONS ABROAD

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## C O N T E N T S .

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	<i>Page.</i>
Letter of submittal.....	5
Boot and shoe industry.....	7
Factory equipment—Trade in shoe machinery.....	7
Shoe-machinery manufacturers.....	8
Shoe-manufacturing centers—Nature of output.....	9
Employees—Working hours—Labor organizations.....	10
Wage scales.....	10
Method of furnishing tools and materials.....	16
Cost of labor and materials for certain operations.....	16
Labor cost for Goodyear work.....	18
Labor cost for McKay-sewn work.....	18
Cost of living.....	19
Taxes—Cost of land and buildings—Power.....	19
Manufacturers' retail stores.....	20
Tanning industry.....	21
Imports and exports of hides and skins.....	22
Number and capacity of tanneries.....	24
Trade in tanning materials.....	24
Source of tanning materials.....	26
Character of output—Sole leather.....	26
Upper leather—Harness and glove leather.....	27
Wages—Trade schools.....	28
Leather trade.....	29
Leather trade with principal countries.....	30
Market for American leather.....	31
Boot and shoe trade.....	33
Competition American shoes meet.....	33
Prospects for American trade.....	34
Appendix.....	36

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## LETTER OF TRANSMITTAL.

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DEPARTMENT OF COMMERCE AND LABOR,

Washington, June 11, 1912.

SIR: I have the honor to transmit herewith, in accordance with the act making appropriations for the legislative, executive, and judicial expenses of the Government for the fiscal year ending June 30, 1912, approved March 4, 1911, a report by Commercial Agent Arthur B. Butman, of this department, containing the result of his investigations of the shoe and leather trade in Germany.

Respectfully,

BENJ. S. CABLE,

*Acting Secretary.*

The SPEAKER OF THE HOUSE OF REPRESENTATIVES.

## LETTER OF SUBMITTAL.

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DEPARTMENT OF COMMERCE AND LABOR,  
BUREAU OF MANUFACTURES,

*Washington, April 18, 1912.*

SIR: I have the honor to submit herewith a report by Commercial Agent Arthur B. Butman on the shoe and leather trade of Germany. Mr. Butman's investigations were along lines similar to those followed in the United Kingdom and embraced a study of the German boot and shoe and tanning industries as well as of the trade in tanning materials, hides and leather, and boots and shoes.

Respectfully,

A. H. BALDWIN,  
*Chief of Bureau.*

To Hon. CHARLES NAGEL,

*Secretary of Commerce and Labor.*



## SHOE AND LEATHER TRADE IN GERMANY.

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### BOOT AND SHOE INDUSTRY.

The boot and shoe manufacturing industry in Germany, while more or less widely distributed throughout the Empire, has certain centers of activity. Cheap and medium grades of McKay work are manufactured at Pirmasens and Weissenfels, heavy work at Tuttlingen, and turned work in Berlin, while the better grades of both McKay and Goodyear work are produced at Erfurt and Offenbach on the Main.

Pirmasens is probably the most widely known shoe-manufacturing center. The industry has existed in this town since 1791, having been originally devoted to the manufacture of plush and felt footwear with leather soles. In 1905 there were 202 shoe factories in Pirmasens, 14 shoe-heel factories, 3 shoe-last factories, 16 tanneries, 17 leather merchants, and 28 boot and shoe wholesale merchants.

The industry in the Empire as a whole is advancing, as regards both quantity and quality of product. Generally speaking, the factory buildings are modern, the tendency among manufacturers during recent years having been to construct the most practical factories possible. Such buildings are of brick, with high walls, affording good light and air; cement floors; modern sanitary arrangements; individual lockers for operatives; refreshment rooms with tables and benches, where individual lunches may be eaten; also counters where lunches may be purchased at nominal prices. The average structure is two to four stories in height, one-floor factory buildings after the English style of construction being rare.

### FACTORY EQUIPMENT—TRADE IN SHOE MACHINERY.

As regards machinery, in some respects German factories are as fully equipped as the American. The machinery is installed according to the American system, though more floor space is allowed. In stock fitting, pulling over, and lasting particularly, there is a tendency to follow old methods. Broadly speaking, however, German manufacturers are progressive, marked conservatism in method being confined chiefly to smaller concerns.

Prior to 1889, when the American Goodyear machines were first introduced into Germany, the boot and shoe industry was of comparatively small importance. At that time other shoemaking machines of American origin were used, such as the American heeling and finishing machines and the McKay sole-sewing machine, but these were not very numerous. The first McKay sewer used in Germany was installed in the factory of Mr. S. Wolf, at Mainz.

The establishments then existing were small, and most of the operations were performed by hand. The output was smaller, while

the expense of production was, of course, much greater than under the modern system. All the better grades of domestic footwear were of the custom, or to-order handmade type.

The quantity of machinery for the shoe and leather industries imported from and exported to various countries in 1909 and 1910, and the total value of the imports and exports for these years, are shown in the following statement:

Countries.	1909	1910	Countries.	1909	1910
<b>IMPORTS.</b>					
United Kingdom.....	<i>Pounds.</i> 150,700	<i>Pounds.</i> 144,100	Denmark.....	90,860	223,520
United States.....	626,340	691,240	France.....	563,860	625,020
Total.....	777,040	835,340	Italy.....	491,480	532,620
Total value.....	\$190,876	\$203,490	Netherlands.....	209,000	235,840
<b>EXPORTS.</b>					
Argentina.....	106,480	143,000	Russia.....	744,260	944,460
Austria-Hungary.....	1,273,360	1,563,540	Sweden.....	208,120	286,000
Belgium.....	255,860	397,100	Switzerland.....	134,860	154,660
			United Kingdom.....	350,900	533,940
			Total.....	4,429,040	5,639,700
			Total value.....	\$1,228,556	\$1,552,474

#### SHOE-MACHINERY MANUFACTURERS.

It is difficult to state even approximately the proportion of shoemaking machinery supplied to German manufacturers by the German United Shoe Machinery Co. (affiliated with the United Shoe Machinery Co., of Boston, Mass.) and competing shoe-machinery concerns. It is safe to state, however, that by far the larger part of the equipment is furnished by the German United Shoe Machinery Co.

The well-known Maschinenfabrik "Moenus" A. G., Frankfort on the Main, originated from the firm of Webber & Miller founded in 1862. The latter, in 1889, amalgamated with the firms of S. Larabee and W. H. Gros and formed a limited company which, since 1900, has been known as the "Moenus" plant. Being a purely German concern it does a large business, especially in the Government's military workshops. It copies practically everything it can of American invention in shoemaking machinery, and also manufactures copies of American tanning machinery.

Nollesche Werke, Weissenfels, originally a nail and chain manufacturing concern, began the manufacture of shoe machinery a few years ago, the principal machines produced being copies of American equipment. The firm is also agent for foreign shoemaking machinery.

The Atlas Werke, Leipzig, originally copied the Eppler welt machines, but various difficulties in connection with the construction of the machines were experienced; and I understand the Eppler system has since been dropped, and that copies of the old Goodyear welt and stitcher are now being manufactured.

Robert Kiehle and Chn. Mansfield, Leipzig, compete principally among the smaller shoe manufacturers, their chief lines being dieing-out presses and wax-thread sewing machines for shoe-repairing outfits.

Rudolf Ley, Arnstadt, confines his output to various kinds of wood-pegging machines, which are sold chiefly to the smaller manufacturers.

Keats Maschinen Gesellschaft, Frankfort on the Main, is probably one of the oldest shoe-machinery firms, but, I am told, it is rapidly losing its hold on the business in this country.

Adrian & Busch, Oberursel, manufacture a welter and stitcher which finds some sale. They also manufacture copies of a number of American accessory machines for shoemaking.

There are several small local shoe-machinery manufacturers in different shoe centers, such as Ferd. Schäfer & Söhne and J. Sandt, in Pirmasens. Manufacturers of this class, however, produce inferior machines, their chief trade being in supplies and repairing.

The cost of the machinery manufactured by the firms mentioned is less than that of the same furnished by the German United Shoe Machinery Co., but the relative efficiency is also correspondingly less.

#### SHOE-MANUFACTURING CENTERS—NATURE OF OUTPUT.

In Germany shoe manufacturers who specialize are the exception; the output of individual factories usually includes footwear for both sexes and for all ages, and often all grades. More McKay-sewn goods are manufactured than any other class, followed by Goodyear-welt, pegged, and turned, in the order mentioned. No Standard-screwed boots or shoes are made in Germany.

The manufacture of canvas footwear is just being introduced, but very few canvas shoes have been made up to the present time. Very cheap grades of shoes or slippers are made in large quantities, as are also felt shoes and house slippers. The principal center for the manufacture of the latter classes of footwear is in Wurttemberg (Heilbronn), and the products are usually known on the market as "Heilbronn articles." These goods are made by attaching the sole to the inner sole and upper with tacks, generally by hand. A list of the principal boot and shoe manufacturers in Germany, with firm name and location and a statement as to the quantity and character of their output, will be found on pages 36-48.

The German manufacturer builds his footwear both on the long, narrow last of French shape and on the swing last in American style. At present, American-shaped lasts have the preference. Cuban heels are used for women's lines, and a lower heel, known in Germany as the English heel, for men's boots and shoes. Glazed kid is now largely used for women's and for men's lighter-class goods (patent-leather tips being very generally used on both) and box calf for heavier lines. Very little patent leather is made up by German manufacturers. On better grades the tendency is to make the boot or shoe as light as possible.

All manufacturing operations are usually carried on within the factory building; comparatively few home workers are employed, with the exception of the home employment on the cheapest grades of house slippers, felt shoes, etc., already noted, and then often only in districts where a sufficient number of female factory workers is not obtainable.

## EMPLOYEES—WORKING HOURS—LABOR ORGANIZATIONS.

There are comparatively more female operatives in German than in American shoe factories. They are employed exclusively in stitching rooms, and also share various operations ordinarily performed by boys or youths. The school laws of the Empire prohibit the employment of children in factories, and inspection is very strict.

The working hours are practically 56 per week, not including the short morning and afternoon recesses. While the hours in shoe factories vary somewhat, the average periods are from 7 a. m. to 12 m., with a recess from 8.30 to 8.45, and from 1.15 p. m. to 6 p. m., with a recess from 4 to 4.15.

In certain more progressive factories, where better grades of footwear are made, Americans are employed as superintendents. The number is small, however, probably not more than half a dozen at the present time. In efficiency, so far as can be ascertained, German shoe operatives of both sexes would seem to average about one-third less than American.

Labor troubles are not frequent, and in practically every instance have been confined to the factory in which the trouble originated. There is an organization of shoe manufacturers, its chief purpose being to meet labor demands and to support each other in wage movements. There is no special organization of boot and shoe operatives, but they are included in a general labor organization, from which, in case of strike or lockout, employees receive a certain allowance.

## WAGE SCALES.

Wages vary with localities and conditions. The lists that follow show the amount paid for various operations. In some instances wages are computed by the week, in others by the day, and in still others by the piece. Where the piecework system is employed, the operator's average output per hour or per day of 9 hours is generally stated.

## CUTTING AND STITCHING ROOM.

Operations.	Rate.	Operations.	Rate.
Pattern designing.....	<i>Per week.</i> \$12.50-\$20.00	Blucher vamp marking.....	<i>Per dozen pairs.</i> \$0.0075-\$0.0125
Pattern grading on Hartford machine.....	6.25- 7.50	Crimping on Lockett machine:	
Pattern cutting on pattern shears.....	5.00- 6.00	Box calf creoles.....	.055- .065
Pattern binding.....	4.50- 5.75	Patent leather creoles.....	.15- .20
Lining cutting on revolution press.....	4.50- 5.50	Blucher vamps, box calf.....	.015- .0175
Lining prickng on Boston machine.....	3.00- 3.75	Blucher vamps, patent leather.....	.0375- .04
Lining marking:		Skiving:	
On power lining marker.....	1.005	Glazed kid—	
Hand.....	2.25- 3.00	Men's and women's.....	.03- .035
Cutting outsides:		Misses' and children's.....	.0225- .0325
On fine leather, by machine.....	6.50- 8.75	Box calf—	
On medium and heavy grades.....	5.50- 6.50	Men's and women's.....	.0225- .03
Cutting, trimming, etc., on small machine.....	2.50- 4.00	Misses' and children's.....	.0175- .025
Stamping upper leather on power machines.....	2.03- .04	For fine grades, folded—	
		Men's and women's.....	.05- .06
		Misses' and children's.....	.04- .05
		Box calf, fine grades—	
		Men's and women's.....	.04- .05
		Misses' and children's.....	.035- .045

<sup>1</sup> Per dozen.<sup>2</sup> Per 100 pieces.

## CUTTING AND STITCHING ROOM—Continued.

Operations.	Rate.	Operations.	Rate.
Folding on Lufkin machine:		Perforating on Royal machine:	
Straight vamps—		Straight vamps—	
Men's.....	\$0.06	Men's and women's.....	\$0.02
Women's.....	.06	Misses' and children's.....	.015
Misses' and children's.....	.04	Top quarters.....	.01
Circular vamps—		Circular vamps—	
Men's.....	.035	Men's and women's.....	.02
Women's.....	.025	Misses' and children's.....	.0175
Misses' and children's.....	.02	Heel foxings.....	.01
Straight toe caps—		Straight toe caps.....	.0075
Men's and women's.....	.0125	Winged toe caps.....	.015
Misses' and children's.....	.01	Eyellet facings—	
Pointed toe caps.....	.025	Bals.....	.02
Winged toe caps.....	.03	Bluchers.....	.02
Wave heel foxings—		For oxfords.....	.0175
Men's and women's.....	.02	For bluchers.....	.015
Misses' and children's.....	.015	Perforating on Knight machine,	
Pointed heel foxings.....	.03	toe caps.....	.0037
Button flies.....	.025	Pasting in middle linings on	
Top quarters—		Hub lining cementer.....	
Men's and women's.....	.02	Plumping with Simplex electric	
Misses' and children's.....	.015	heated press.....	.05
Bluchers (nose by hand).....	.04	Seam rubber, power.....	.075
Folding on Booth machine:		Beading tops:	
Top quarters—		On Columbia beader.....	.02
Men's and women's.....	.01	On Monarch beader.....	.0125
Misses' and children's.....	.0075	Hooking on Peerless hooker.....	.015
Blucher top quarters, in		Eyeleting:	
three operations (nose,		On Duplex—	
front, and vamp line).....	.0225	Men's.....	.0075
Heel foxings—		Women's.....	.0125
Men's and women's.....	.0075	Blucher oxford.....	.0075
Misses' and children's.....	.0075	Halfway up, and punch-	
Straight toe caps.....	.0025	ing holes for hooking.....	.0125
Pointed toe caps.....	.0075	On Peerless—	
American jockey back straps	.0125	Men's.....	.0125
Straight tops.....	.01	Women's.....	.02
Sides of straight vamps		Blucher oxford.....	.04
without throw.....	.015	Halfway up, and punch-	
		ing holes for hooking.....	.02
		Lacing, on Ensign lacer.....	.0062

## SOLE-LEATHER ROOM.

Operations.	Rate per 100 pairs.			Average daily output.	Average daily wages.
	Men's.	Women's.	Girls' and children's.		
FOR ALL ARTICLES.					
Leather stripping.....					
Rolling sole leather.....					
Splitting sole leather.....					
Dieing out soles from the hide:					
According to order.....	\$0.24	\$0.24	\$0.20	500-600	1.30
For stock.....	.14	.14	.12	900-1,000	1.30
Dieing out soles from strips.....	.10	.10	.08	1,400-1,500	1.30
Dieing out insoles.....	.12	.12	.10	1,000-1,200	1.20
Dieing out counters and box toes.....	.10	.10	.10	1,200-1,300	1.20
Dieing out side linings, tar-felt and shank pieces.....					1.00
Dieing out lifts.....					1.20
Dieing out pieced lifts.....					1.20
Rounding soles with Planet machine:					
Single pairs.....	.30	.30	.24	400-450	1.20
Rounding insoles with Planet machine.....	.36	.32	.30		
Evening and marking with Nichols machine.....	.16	.14	.12	900	1.20
Marking (numbering) soles, insoles, and counters.....	.03	.03	.03	3,000	.90
Tacking rands on lifts with power welt tacker.....	.01	.01	.01	5,000	.60
Cutting rands from strips with Universal machine.....	.08	.06	.06	1,000-1,200	.70
Cutting rands from counter offal with Scott machine.....	.04	.04	.04	2,000-3,000	.80
Counter nicking.....	.06	.06	.04	1,200-1,500	.70
Counter rolling.....	.03	.03	.03	2,000	.60
Counter molding.....	.04	.04	.04	2,000	.80
Splitting strips for beveled lifts on Champion machine.....	.08	.08	.08	800-1,000	.80
Building heels with Clinch machine.....	.006	.006	.006	1,200-1,500	.80
Building women's high heels with Pyramid or Eclipse machine, including pressing.....	.12	.12	.10	600-800	.80
Compressing heels with No. 4 press.....	.20	.24	.16	400-450	.90
Condensing top lifts.....	.02	.02	.02	5,000-6,000	1.00

## SOLE-LEATHER ROOM—Continued.

Operations.	Rate per 100 pairs.			Average daily output.	Average daily wages.
	Men's.	Wom- en's.	Girls' and chil- dren's.		
<b>FOR GOODYEAR WORK ONLY.</b>					
Evening and sorting insoles and counters.....	\$0.10	\$0.10	\$0.10	1,000	\$1.00
Skiving leatherboard shank pieces on Davis machine.....	.06	.06	.06	900-1,200	.70
Channeling insole, Gem.....	.20	.20	.16	700-800	1.30
Channeling all-leather insole:					
With Universal machine.....	.24	.24	.20	500-600	1.30
With old-style Goodyear machine.....	.30	.30	.24	500	1.30
Insole lip cutting, scoring, and sizing.....	.04	.04	.04	1,500	.70
Lip turning.....	.06	.06	.06	1,000-1,200	.70
Cementing Gem insole.....	.09	.09	.07	600-800	.55
Making Gem insole, canvas machine.....	.12	.12	.10	600	.70
Shank skiving Goodyear soles.....	.06	.06	.04	1,500-1,600	.80
Flexing all-leather insoles with Goodyear insole-flexing machine.....	.04	.04	.04	2,000	.70
Skiving counters with Monarch or Scott machine.....	.06	.06	.04	1,500-2,000	1.00
Buffing counters and box toes.....	.08	.08	.06	1,000	.80
<b>FOR CHEAPER GRADES M'KAY AND PEGGED WORK.</b>					
Channeling McKay soles with Apex machine.....	.10	.10	.08	1,000-1,200	1.00
Reenforcing McKay insoles with leatherboard, and pressing.....	.06	.06	.06	1,000-1,200	.70
Feather edging McKay inner soles.....	.06	.06	.06	1,200-1,400	.80
Tacking rands on soles with power welt tacker.....	.12	.12	.10	600	.70
Tacking forepart filler and shank piece to sole with USMC No. 1 tacker or staple tacker.....	.10	.10	.08	1,000	1.00
Skiving counters with Scott machine for McKay work, split leather, etc.....	.12	.10	.08	1,000-1,200	1.00
Sole molding:					
With model C machine.....	.04	.04	.04	3,000	1.10
With single machine.....	.08	.08	.08	800	.70
Channel opening with No. 4 channeling machine.....	.05	.04	.04	1,500	.70
<b>FOR BETTER GRADES M'KAY WORK, WITH FAIR-STITCHED FOREPART.</b>					
Evening and sorting insoles and counters.....	.10	.10	.10	1,000	1.00
Skiving leatherboard shank pieces with Davis machine.....	.06	.06	.06	900-1,200	.70
Channeling McKay soles with Apex machine.....	.10	.10	.08	1,000-1,200	1.00
Reenforcing McKay insoles with leatherboard, and pressing.....	.06	.06	.06	1,000-1,200	.70
Feather edging McKay inner soles.....	.06	.06	.06	1,200-1,400	.80
Skiving counters with Scott machine.....	.08	.08	.06	1,200-1,500	1.00
Buffing counters and box toes.....	.08	.08	.06	1,000	.80
Sole molding:					
With model C machine.....	.04	.04	.04	3,000	1.10
With single machine.....	.08	.08	.08	800	.70
Channel opening with No. 4 machine.....	.05	.04	.04	1,500	.70
<b>GOODYEAR-WELT WORK.</b>					
Sorting lasts.....	\$0.06	\$0.06	\$0.06		\$1.00
Tacking on insole with staple tacker.....	.08	.08	.07	1,000-1,200	.80
Tacking on insole with staple tacker, including tacking on, reenforcing piece at heel, and trimming heel seat where necessary.....	.14	.14	.12	600-700	.80
Sorting uppers and laying them with lasts.....	.06	.06	.06		1.00
Pasting counter and box toe:					
If box toe is stitched in.....	.48	.48	.36	200-250	1.00
If box toe is not stitched in.....	.60	.60	.48	180-200	1.00
Assembling by machine.....	.08	.08	.07	1,200-1,500	1.10
Pulling over by machine.....	.40	.40	.30	360-400	1.40
Pulling up lining and tacking sides of heel seats.....	.24	.24	.20	450-500	1.20
Lasting on Consolidated (complete).....	.96	.96	.80	150-180	1.45
Lasting heel seats and sides on Consolidated.....	.56	.50		250-300	1.45
Lasting toes on No. 5 machine.....	.72	.72		200-250	1.45
Trimming upper leather, Rex machine.....	.12	.12	.12	800-900	1.00
Pounding heel seat and tapping up toe on rotary machine.....	.30	.30	.24	450	1.20
Pulling lasting tacks, removing toe wire, and resetting tacks to hold upper before weltling, by hand.....	.18	.16	.12	350-400	.70
Inseaming:					
With model K machine.....	.30	.36	.24	700-800	2.00
With old machine.....	.60	.35	.48	300-350	2.00

## GOODYEAR-WELT WORK—Continued.

Operations.	Rate per 100 pairs.			Average daily output.	Average daily wages.
	Men's.	Women's.	Girls' and children's.		
Pulling insole staples and tacks holding upper.....	\$0.10	\$0.10	\$0.08	600—700	\$0.70
Inseam trimming, Universal machine.....	.16	.16	.12	600—700	1.10
Skiving ends of welt and fastening with small tacks.....	.10	.10	.10	600—700	.70
Beating welt.....	.12	.12	.10	600—700	.80
Filling bottom:					
With "Besto".....	.12	.12	.10	500—600	.60
With tar-felt.....	.20	.20	.16	350—400	.70
Tacking in shank piece with USMC No. 1 tacker.....	.10	.10	.08	1,000—1,200	1.00
Cementing bottom with Economy cementer.....	.06	.06	.06	1,000—1,200	.65
Cementing soles with Julian cementer.....	.04	.04	.04	1,500—2,000	.70
Sole laying.....	.20	.20	.16	500—600	1.00
Sole rounding and channeling.....	.36	.36	.32	500—600	1.80
With double sole.....	.48	.40	.36	400—500	1.80
Channel opening.....	.10	.10	.08	1,000	1.00
Stitching:					
With model M machine.....	.40	.40	.36	350—400	1.50
With old-style machine.....	.60	.60	.48	200—240	1.50
Channel cementing with Star machine.....	.06	.06	.06	1,000—1,200	.70
Channel closing.....	.08	.08	.08	800—900	.70
Stitch wheeling with Goodyear indenting and burnishing machine.....	.18	.18	.14	500—600	1.00
Leveling and edge raising.....	.30	.30	.24	500—600	1.50
Heel-seat nailing with loose nailing or Davey machine.....	.14	.14	.10	1,000—1,200	1.20
Heel-seat trimming.....	.10	.10	.10	600—700	.70
Scouring shank and heel seat before heelng.....	.10	.10	.08	600—700	.70
Edge trimming in pairs.....	.96	.84	.72	120—150	1.20
Attaching heels with Lightning machine:					
On the lasts.....	.36	.36	.24	450—500	1.50
Without lasts.....	.30	.30	.20	500—600	1.50
High heels:					
On the lasts.....			.48	250—300	1.50
Without lasts.....			.32	400	1.50
Slugging.....	.14	.14	.12	600—800	1.00
Slugging loose heels.....	.10	.10	.10	1,200—1,500	1.00
Heel trimming:					
High heels.....			.12	1,000—1,200	1.20
Heel breasting.....	.12	.16	.12	600—700	1.20
On loose heels.....	.06	.08	.06	2,000	1.20
Heel scouring:					
Coarse—					
Low heels.....	.42	.42	.36	360	1.50
High heels.....		.50		300—350	1.50
Fine—					
Low heels.....	.24	.24	.18	500—600	1.30
High heels.....		.28		500—550	1.30
Heel-breast scouring with model N machine.....	.12	.16	.10	600—800	1.00
Jointing shank and heel, by hand.....	.30	.30	.30	450—500	1.50
Gumming and twice blacking edge.....	.24	.20	.16	500	1.00
Edge setting:					
Three times.....	1.20	.96	.72	120—150	1.50
Twice.....	.84	.72	.60	250—300	1.50
Stitch burnishing, Booth machine.....	.24	.24	.18	400—450	1.00
Top-lift sanding.....	.10	.10	.08	1,000	1.00
Bottom scouring, forepart.....	.10	.08	.08	800—900	1.00
Buffing bottom and top lift cleaning.....	.30	.30	.24	450—500	1.20
Blacking heels and bottoms twice:					
With Crest machine.....	.12	.12	.10	600	.70
By hand.....	.12	.12	.08	600	.70
Polishing heels and beading edge with Xpedite.....	.24	.24	.24	400—450	1.00
High heels.....		.30		400	
Polishing heels and beading edge with Universal.....	.20			500—600	1.00
Polishing bottoms and top lifts (black or brown).....	.48	.48	.36	250	1.20
Coloring and brushing fore part.....	.28	.24	.18	500	1.20
Blacking and polishing shank.....	.24	.24	.18	500	1.20
Rubbing up bottoms and cleaning slugs.....	.96	.84	.48	130—150	1.20
Drawing lasts.....	.24	.24	.20	450—500	1.00
Stamping trade-mark on soles with Regent.....	.08	.08	.08	1,200	1.00
Laying heel-seat sock lining and examining inside of shoe for tacks.....	.24	.24	.20	300—400	.70
Cleaning upper leather with machine.....	.12	.12	.10	500—600	.70
Cleaning lining.....	.10	.10	.08	600—800	.70
Ironing upper with Miller machine.....	.40	.40	.40	150—180	.70
Lacing or buttoning.....	.10	.10	.08	500—600	.60
Packing.....	.10	.10	.10	500—600	.60

## McKAY-SEWN WORK WITH FAIR-STITCHED FORE PART.

Operations.	Rate per 100 pairs.			Average daily output.	Average daily wages.
	Men's.	Wom-en's.	Girls' and chil-dren's.		
Sorting lasts.....	\$0.06	\$0.06	\$0.06		
Tacking on insole with staple tacker.....	.08	.08	.08	1,000-1,200	.80
Sorting uppers and laying them with lasts.....	.06	.06	.06		1.00
Pasting counter and box toe:					
If box toe is stitched in.....	.48	.48	.36	200- 250	1.00
If box toe is not stitched in.....	.60	.60	.48	180- 200	1.00
Assembling by machine.....	.08	.08	.07	1,200-1,500	1.10
Pulling over by machine.....	.24	.24	.20	500- 700	1.40
Lasting on Consolidated (complete).....	.76	.70	.54	200- 250	1.45
Pulling insole staples.....	.04	.04	.04	1,500-2,000	.70
Pounding with rotary pounding-up machine.....	.30	.30	.24	450- 500	1.20
Bottom filling, fastening shank piece and tap with staple tacker or USMC No. 1 tacker.....	.30	.30	.24	450- 500	1.20
Sewing taps with Rapid McKay sewer.....	.16	.16	.12	800	1.20
Relasting.....	.24	.20	.18	350- 400	1.00
Tacking on soles and heel seats (heel seats with 3 nails).....	.24	.24	.18	450- 500	1.10
Pounding heel seats and drawing lasts.....	.32	.32	.24	350	1.10
Heel-seat nailing with loose nailer or Davey.....	.14	.14	.10	1,000	1.20
Heel-seat trimming.....	.10	.10	.10	1,000-1,200	1.00
Stitching fore parts with Goodyear Rapid machine.....	.30	.30	.20	400- 450	1.20
Sewing shanks with Rapid McKay sewer.....	.16	.16	.12	800	1.20
Channel cementing with Star.....	.06	.06	.06	1,000-1,200	.70
Channel closing.....	.08	.08	.08	800	.70
Stitch wheeling with Booth machine.....	.18	.18	.14	500- 600	1.00
Leveling with Hercules or Cyclops leveler and edge raising.....	.18	.18	.16	700- 800	1.20
Randing and edge trimming.....	.60	.60	.48	200- 250	1.20
Scouring shanks and heel seat before heelng.....	.10	.10	.08	600	.70
Attaching heels with Lightning machine:					
On the lasts.....	.36	.36	.24	450- 500	1.50
Without lasts.....	.30	.30	.20	500- 600	1.50
High heels:					
On the lasts.....		.48	.36	250- 300	1.50
Without lasts.....		.40	.32	400	1.50
Attaching heels with rapid naler.....	.20	.20	.20	800-1,000	1.50
Slugging.....	.14	.14	.12	600- 800	1.00
Slugging loose heels.....	.10	.10	.10	1,200-1,500	1.00
Heel trimming.....	.12	.12	.12	1,000-1,200	1.20
High heels.....		.18- .24		600- 700	1.20
Heel breastng.....	.16	.16	.12	1,000	1.20
On loose heels.....	.06	.08	.06	2,000	1.20
Fetching finishing lasts and relasting.....	.24	.24	.20	500	1.00
Heel scouring:					
Coarse—					
Low heels.....	.42	.42	.36	360	1.50
High heels.....		.50		300- 350	1.50
Fine—					
Low heels.....	.24	.24	.18	500- 600	1.30
High heels.....		.28		500- 550	1.30
Heel-breast scouring with model N machine.....	.12	.16	.10	600- 800	1.00
Jointing shank and heel, by hand.....	.30	.30	.30	450- 500	1.50
Edge blacking, twice.....	.16	.16	.12	600	1.00
Edge setting, twice.....	.60	.60	.48	250	1.50
Stitch burnishing with Booth machine.....	.18	.18	.14	500- 600	1.00
Bottom and top lift scouring.....	.22	.16	.16	600- 800	1.20
Bottom and top lift buffing, cleaning.....	.30	.24	.20	450- 500	1.20
Blacking heels (twice) with Crest machine.....	.12	.12	.10	600	.70
Blacking bottoms by hand, twice.....	.12	.12	.08	600	.70
Polishing heels and beading edge with Xpedite.....	.24	.24	.24	400- 450	1.00
High heels.....		.30		400	
Polishing heels and beading edge with Universal machine.....	.20	.20	.20	500- 600	1.00
Polishing bottoms and top lifts (black or brown).....	.48	.48	.36	250	1.20
Coloring and brushing fore part.....	.28	.24	.18	500	1.20
Blacking and polishing shank.....	.24	.24	.18	500	1.20
Ornamenting shanks.....	.30	.24	.18	350- 400	1.00
Rubbing up bottoms, cleaning slugs, and drawing lasts.....	.60	.52	.44	150- 180	1.00
Laying heel-seat sock lining.....	.20	.20	.18	600	1.00
Stamping trade-mark on soles with Regent.....	.08	.08	.08	1,200	1.00
Cleaning upper leather with machine.....	.12	.12	.10	500- 600	.70
Cleaning lining.....	.10	.10	.08	600- 800	.70
Ironing upper with Miller machine.....	.40	.40	.40	150	.70
Lacing or buttoning.....	.10	.10	.08	500- 600	.60
Packing.....	.10	.10	.10	500- 600	.60

## CHEAPER GRADES OF MCKAY-SEWN AND PEGGED WORK.

Operations.	Rate per 100 pairs.			Average daily output.	Average daily wages.
	Men's.	Women's.	Girls' and children's.		
<i>Pairs.</i>					
Sorting lasts.....	\$0.06	\$0.06	\$0.06		\$1.00
Tacking on insole with staple tacker.....	.08	.08	.08	1,000-1,200	.80
Sorting uppers and laying them with lasts.....	.06	.06	.06		1.00
Pasting counter and box toe:					
If box toe is stitched in.....	.48	.48	.36	200- 250	1.00
If box toe is not stitched in.....	.60	.60	.48	180- 200	1.00
Assembling by machine.....	.08	.08	.08	1,200-1,500	1.10
Pulling over by machine.....	.24	.24	.20	500-1,000	1.40
Lasting on Consolidated (complete).....	.72	.64	.48	250- 300	1.50
Pulling insole staples.....	.04	.04	.04	1,500-2,000	.70
Pounding with rotary pounding-up machine.....	.30	.30	.24	450- 500	1.20
Tacking on soles and nailing heel seats with taper nail tacker.....	.30	.30	.24	400- 450	1.10
Heel-seat trimming.....	.08	.08	.06	1,200-1,500	1.00
Pounding heel seats and drawing lasts.....	.30	.24	.20	400- 450	1.10
Sewing with Rapid McKay sewer.....	.24	.24	.18	600- 800	1.30
Sewing with old-style McKay machine.....	.36	.36	.24	400- 500	1.30
Pegging with Davey machine.....	.36	.30	.24	400- 500	1.30
Channel cementing with Star.....	.06	.06	.06	1,000-1,200	.70
Channel closing.....	.08	.08	.08	800	.70
Leveling with Hercules or Cyclops leveler and edge raising.....	.18	.18	.16	700- 800	1.20
Randing and edge trimming.....	.48	.48	.36	250- 300	1.20
Randing and edge trimming (for edges without stitch wheeling).....	.36	.36	.30	350- 400	1.20
Attaching heels with Lightning machine:					
On the lasts.....	.36	.32	.18	450- 500	1.40
Without lasts.....	.30	.28	.16	500- 600	1.40
High heels:					
On the lasts.....		.48	.30	300- 350	1.40
Without lasts.....		.36	.24	400- 450	1.40
Attaching heels with rapid nailer.....	{ .20	.20	.20	800-1,000	1.50
	{ .24	.24	.24		
Slugging.....	.14	.12	.12	600- 800	1.00
Slugging loose heels.....	.10	.10	.10	1,200-1,500	1.00
Heel trimming:					
High heels.....	.12	.12	.12	1,000-1,200	1.20
Heel breasting.....	.12	.12	.12	1,000-1,200	1.20
Heel breasting on loose heels.....	.06	.08	.06	2,000	1.20
Fetching finishing lasts and relasting.....	.24	.24	.20	500	1.00
Heel scouring, coarse and fine:					
Low heels.....	.44	.36	.24	300- 350	1.20
High heels.....		.60	.32	200- 250	1.20
Heel breast scouring with model N machine.....	.12	.12	.08	800-1,000	1.00
Jointing shank and heel, by hand.....	.24	.24	.20	450- 500	1.10
Edge blacking.....	.12	.12	.08	600	.70
Edge setting:					
Without stitch wheeling.....	.48	.48	.30	300- 350	1.40
With stitch wheeling.....	.60	.60	.42	200- 250	1.40
Bottom and top lift scouring.....	.20	.20	.18	600- 800	1.20
Bottom and top lift buffing, cleaning.....	.30	.24	.20	450- 500	1.20
Blacking heels and bottom, by hand.....	.12	.10	.08	600- 700	.70
Polishing heels and beading edge with Universal.....	.20	.20	.16	500- 600	1.00
Polishing bottoms and top lifts (black or brown).....	.48	.48	.36	250	1.20
Coloring and brushing fore part.....	.28	.24	.18	500	1.20
Blacking and polishing shank.....	.24	.24	.18	500	1.20
Coloring and brushing fore part and shank.....	.48	.48	.40	250- 300	1.20
Coloring and brushing pegged bottoms with oakaline.....	.28	.24	.20	450- 500	1.20
Top ironing.....	.18	.18	.12	600- 700	1.00
Ornamenting shanks.....	.30	.24	.18	350- 400	1.00
Laying sock lining.....	.12	.12	.12	800- 900	1.00
Rubbing up bottoms, cleaning slugs, and drawing lasts.....	.60	.52	.44	150- 180	1.00
Cleaning upper leather with machine.....	.12	.12	.10	500- 600	.70
Stamping trade-marks on soles with Regent.....	.08	.08	.08	1,200	1.00
Cleaning upper and lining, treeing, dressing, lacing or buttoning, and packing:					
Box calf.....	.40	.40	.36	300- 350	1.20
Glazed kid.....	.48	.48	.40	250- 300	1.20

## METHOD OF FURNISHING TOOLS AND MATERIALS.

Special regulations obtain throughout the Empire as to supplying tools and materials to workpeople at an average cost price. In the shoe as in other industries certain supplies are furnished to the operatives by the manufacturers, the latter determining the quantity required by each worker and charging accordingly, the amount being reimbursed in the individual's wage. German manufacturers agree that this practice is necessary. If the supplies were furnished free, abuses and extravagance would result, while if the workers were allowed to furnish them, choosing their own sources of supply, the material would doubtless often be of inferior quality, with resultant detriment to the manufacturer's product. The supplies include needles, silk, thread, buttons, button fasteners, eyes and clasps, tacks, pegwood, iron wire, sandpaper, wax, oakaline, inks, cements, creams, etc.

## COST OF LABOR AND MATERIAL FOR CERTAIN OPERATIONS.

In the following tables showing the cost of the various operations mentioned on men's high-grade glazed-kid high cuts and women's kid blucher oxfords, the reimbursements for materials used are stated.

MEN'S HIGH-GRADE GLAZED-KID BALS; GOODYEAR WELT; FOLDED VAMP; UPPER FITTED ON BLOCK WITH MIDDLE LINING; RETAIL SELLING PRICE, \$4.

Operations.	Per 100 pairs.		Average output per hour.	Average weekly wages.
	Wages.	Material.		
LINING.				
Lining and trimming tongue.....	\$0.10	.....	72	\$3.30-\$4.05
Binding tongue with fancy stitch on 1-needle machine (silk No. 80, thread No. 24).....	.11	\$0.12	60	3.30- 3.55
Closing linings (thread Nos. 24 and 50).....	.035	.015	60- 72	3.30- 3.80
Stitching heel stay (thread Nos. 24 and 50).....	.09	.03	30	3.55- 4.25
Pasting top and eyelet facings.....	.26	.005		
Stitching top and eyelet facings (thread Nos. 24 and 50).....	.17	.045		
Stitching pull strap (thread Nos. 24 and 50).....	.10	.005	18	3.30- 3.80
Sewing tongue to lining (thread Nos. 24 and 50).....	.18	.02		
TOE CAP.				
Cementing toe cap.....	.016	.....	360-420	3.10- 3.30
Folding toe cap, with Booth machine.....	.03	.....	216	3.30- 3.55
Perforating toe cap.....	.06	.....	144	4.25- 4.75
Pasting in toe cap.....	.20	.005	42	4.05- 4.55
Stitching toe cap (silk No. 60, thread No. 20).....	.40	.14	24	4.25- 4.75
NOTE.—Four times, 1 $\frac{1}{4}$ cents each row.				
WHOLE VAMPS.				
Cementing vamps.....	.03	.....	192-216	3.10- 3.30
Folding vamp, with Lufkin folder.....	.28	.06	30- 36	3.80- 4.75
Pasting in doubler.....	.13	.03	48	3.10- 3.55
Closing vamp to jockey back strap (thread No. 12).....	.26	.14	42	4.25- 5.45
Seam running.....	.14	.....	60	4.05- 4.55
TOP QUARTERS.				
Sorting for operations.....	.04	.....	156	3.10- 3.20
Cementing quarters.....	.03	.....	168-192	3.10- 3.30
Folding quarters, with Booth machine.....	.05	.04	144-180	3.80- 4.75
Pasting in middle lining.....	.20	.04	30	3.30- 3.80
Match marking.....	.04	.....		
Closing top quarters (thread No. 12).....	.12	.08	72	4.25- 4.75
Seam rubbing, by hand.....	.04	.....	144-180	3.10- 3.30
Stitching top and lining together (silk No. 60, thread No. 20).....	.24	.09	30	4.05- 4.25
Cementing.....	.02	.05	300	3.10- 3.30
Beading.....	.10	.....	72	3.30- 4.05

MEN'S HIGH-GRADE GLAZED-KID BALS; GOODYEAR WELT; FOLDED VAMP; UPPER FITTED ON BLOCK WITH MIDDLE LINING; RETAIL SELLING PRICE, \$4—Contd.

Operations.	Per 100 pairs.		Average output per hour.	Average weekly wages.
	Wages.	Material.		
<b>TOP QUARTERS—continued.</b>				
Fitting linings.....	\$0.56	\$0.02	<i>Pairs.</i>	\$3.55-\$4.25
Trimming lining and heel stay.....	.04	.....		
Seaming tops (silk No. 60, thread No. 20).....	.52	.05	12- 15	4.25- 5.25
Stitching in pull straps (silk No. 60, thread No. 20).....	.36	.....	36	3.55- 3.80
Trimming.....	.20	.....	144-156	3.55- 4.25
Eyeleting.....	.05	.....	60- 72	3.55- 4.25
Hooking.....	.04	.....	216-240	2.85- 3.10
Putting in Pratts' fasteners.....	.08	.....	60	3.10- 3.30
Lacing, with Ensign.....	.025	.....	96	3.55- 3.80
Barring.....	.10	.005	108	3.80- 4.25
Seaming up toe lining (thread Nos. 12 and 20).....	.075	.01	6	4.25- 5.25
Stitching tongue to vamp lining (thread Nos. 12 and 20).....	.075	.01	12	4.25- 5.95
Fitting upper block.....	1.50	.06	120	2.85- 3.10
Vamping (silk No. 60, thread No. 20).....	.94	.34	.....	3.55- 3.80
Barring.....	.05	.016	.....	.....
Trimming linings.....	.04	.....	.....	.....
Cleaning upper.....	.16	.....	.....	.....
Stapling in side stays.....	.05	.....	.....	.....
Tagging to keep pairs together.....	.06	.....	.....	.....

WOMEN'S KID BLUCHER OXFORD; MCKAY-SEWN; PATENT-LEATHER PERFORATED TIP; RAW EDGE; RETAIL SELLING PRICE, \$1.80.

LINING.				
Closing linings (thread Nos. 24 and 50).....	\$0.03	\$0.01	132	\$1.90-\$2.15
<b>TOE CAP.</b>				
Cementing toe cap.....	.016	.02	120-132	3.10- 3.30
Folding toe cap.....	.03	.....		
Perforating toe cap.....	.06	.....	78- 90	4.25- 4.75
Blacking perforations.....	.04	.002	60- 66	3.80- 4.25
Pasting in toe cap.....	.12	.006	39- 48	4.25- 5.00
Stitching toe cap (silk No. 60, thread No. 20).....	.20	.07	.....	.....
<b>CIRCULAR VAMPS.</b>				
Pasting tongue, middle lining, drill lining, and doublers on circular vamps.....	.34	.04	18- 24	3.55- 4.05
Stitching tongue to vamp lining and stitching tongue all round.....	.34	.10	18- 24	3.55- 4.25
<b>TOP QUARTER ON LEG.</b>				
Raw edge blacking.....	.04	.01	144-156	2.85- 3.10
Punching top quarter at vamp.....	.20	.....	36	3.80- 4.05
Pasting eyelet facings and trimming.....	.06	.....	108-120	3.55- 3.80
Stitching eyelet row and tying off ends (silk No. 60, thread No. 20).....	.28	.08	24- 27	4.25- 4.75
Seaming top quarter (thread No. 12).....	.11	.09	72- 84	4.05- 5.00
Seam rubbing.....	.04	.....	144-168	3.10- 3.55
Staying top quarter (silk No. 60, thread No. 20).....	.08	.046	84-108	3.55- 4.55
Stitching top and lining together (thread Nos. 12 and 20).....	.22	.07	30- 39	3.55- 3.80
Beading tops.....	.70	.04	9- 12	3.10- 3.80
Seaming tops (silk No. 60, thread No. 20).....	.30	.106	24- 30	4.25- 5.00
Eyeleting (5 eyelets).....	.05	.....	132-144	3.55- 4.05
Pasting heel foxing on vamps with side linings.....	1.02	.02	6- 8	3.55- 4.25
Vamping and barring (thread No. 20).....	.62	.146	12- 15	4.05- 4.75
Third row vamping (silk No. 60, thread No. 20).....	.32	.066	24- 27	4.05- 4.75
Trimming lining and side lining.....	.04	.....	36- 45	3.10- 3.80
Cleaning.....	.14	.002	194-240	2.85- 3.10
Lacing.....	.26	.....	.....	.....

## LABOR COST FOR GOODYEAR WORK.

The following table shows approximately the labor cost, per 100 pairs, of manufacturing weekly 2,500 pairs of men's and women's Goodyear-welt shoes corresponding to a like grade manufactured in the United States at a value (factory price) of \$2.50 per pair for men's and \$2.25 for women's.

Operations.	Cost per 100 pairs.		Operations.	Cost per 100 pairs.	
	Men's.	Women's.		Men's.	Women's.
Cutting outsides and lining, including foreman's wages at \$7.14 per week.....	\$3.19	\$3.19	Heeling, including slugging and breasting.....	\$0.736	\$0.602
Closing, including skiving and foreman's wages at \$7.14 per week.....	7.50	6.90	Relasting.....	.14	.22
Sole-leather room, including heel building.....	1.08	.98	Heel trimming.....	.614	.51
Pulling over, including assembling from tacking insole on.....	1.14	1.022	Heel scouring, including breast.....	.92	.80
Lasting, including pounding up and upper trimming.....	1.32	1.15	Edge trimming.....	.26	.30
Welting.....	.40	.36	Stitch wheeling and burnishing.....	.974	.874
Tack pulling, inseam trimming, and welt beating.....	.53	.47	Edge setting and blacking.....	.302	.262
Bottom filling, including tacking in shanks, cementing bottom, and shoe.....	.34	.29	Bottom finishing, including painting bottom, blacking shank and toppiece.....	.486	.486
Sole laying.....	.10	.10	Heel inking.....	.06	.06
Rounding and channeling.....	.34	.34	Heel burnishing.....	.20	.20
Opening channels.....	.09	.09	Upper cleaning, drawing lasts, laying heel-seat sock lining, including stamping bottoms.....	.812	.732
Stitching.....	.72	.70	Treeing, dressing, and crowning.....	1.126	1.126
Heel trimming and nailing.....	.176	.14	Cartoning and packing.....	.254	.254
Leveling, including channel cementing and closing.....	.594	.594	Total.....	24.404	23.036
Taking out lacers and drawing lasts.....		.154			

## LABOR COST FOR M' KAY-SEWN WORK.

The approximate labor cost, per 100 pairs, of manufacturing weekly 2,500 pairs of men's and women's McKay-sewn shoes corresponding to a like grade manufactured in the United States at a value (factory price) of \$2 per pair for men's and \$1.85 for women's is shown in the table following.

Operations.	Cost per 100 pairs.		Operations.	Cost per 100 pairs.	
	Men's.	Women's.		Men's.	Women's.
Cutting outsides and linings, including foreman's wages at \$7.14 per week.....	\$3.19	\$3.19	Heel scouring, including breast.....	\$0.54	\$0.51
Closing, including skiving and foreman's wages at \$7.14 per week.....	6.90	6.90	Edge trimming.....	.70	.70
Sole-leather room, including heel building.....	.90	.90	Stitch wheeling and burnishing.....	.26	.22
Pulling over, including assembling from tacking in sole on.....	.916	.912	Edge setting and blacking.....	.80	.74
Lasting, including pounding up and bottom filling.....	1.08	1.05	Bottom, shank, and toppiece buffing and scouring.....	.39	.262
Sole laying, including heel-seat nailing and trimming, and drawing lasts.....	.78	.702	Bottom finishing, including painting bottom, blacking shanks and toppieces.....	.40	.386
McKay sewing.....	.30	.20	Heel inking.....	.06	.06
Leveling, including channel cementing and closing.....	.49	.422	Heel burnishing.....	.16	.16
Heeling, including slugging and breasting.....	.622	.602	Upper cleaning, including drawing lasts, laying heel-seat socklining, and stamping trade-mark.....	.692	.692
Relasting.....	.13	.13	Treeing, dressing, and crowning.....	1.026	1.026
Heel trimming.....	.11	.22	Cartoning and packing.....	.244	.244
			Total.....	20.69	20.228

## COST OF LIVING.

Rent and living expenses of the average shoe workman in Germany are about as follows:

Items.	Marks.	American currency.
House rent:		
In country, including traveling expenses to and from factory.. per month.....	12- 30	\$2.86-\$7.14
In city.....	30- 40	7.14- 9.52
Table expenses, heat, and light.....	60- 95	14.30-22.61
Cost of insurance (municipal sick and invalid)..... per year.....	30- 40	7.14- 9.52
State and municipal tax.....	30- 50	7.14-11.90

The insured workman in case of illness is granted a sick allowance, free medical treatment, and medicines for a period of 13 weeks if necessary. In some cases a childbed allowance and a burial allowance are also granted.

## TAXES—COST OF LAND AND BUILDINGS—POWER.

Government taxation of boot and shoe manufacturers in Germany is approximately as follows: Average municipal and State commercial tax, 10 to 12 per cent of net earnings; average workmen's accident insurance, \$1.20 per man per year; average workmen's sick and invalid insurance (municipal), \$4.75 to \$5.95 per man per year.

As previously mentioned, the present custom is to build factories from two to four stories in height, including basement, the latter being used entirely for storing, cutting, and preparing sole leather; but there is still a tendency in localities where ground prices are not prohibitive and where the capacity of the factory is to be about 500 pairs daily, to erect one-story buildings with serrated roof. The cost of a multiple-story building, exclusive of heating apparatus and

elevators, varies from \$0.83 to \$1.06 per square foot, measured inside of walls. The cost of building sites varies according to locality and averages from about \$0.60 per square yard in small villages to about \$6.75 per square yard in larger towns. The average cost in factory districts is about \$1.65 per square yard.

A manufacturer renting a factory pays an average of 6 per cent on the owner's investment in land and buildings. Leases usually contain a clause specifying the amount up to which the lessee is responsible. As in other countries, taxes vary with the locality, averaging in small villages 10 per cent of the net earnings, as against 12 per cent in larger towns. From such figures as I have been able to obtain the factory floor space required averages about 5 square feet per pair on cheap grades and 11 square feet on better grades. These estimates represent only the area required in the manufacture or handling of the shoe and do not include areas for shipping and stocking of the finished product or for offices.

Most of the modern factories are equipped with electric motors, each driving an individual shaft. Electric power is generated in the larger factories by steam engines, by which means both power and light are provided, while steam is also produced for heating purposes. The actual cost of electrical power in one factory was stated to be 1.5 cents per horsepower hour. This includes interest on investment and all expenses incident to the production of power. The guaranty given by makers of gas engines for producing power by generator gas is about 1.5 cents per horsepower hour. With a Diesel motor burning tar oil guaranties of cost are given between 1.07 and 1.18 cents per horsepower hour.

The cost of electric power naturally varies with the locality. In Frankfort on the Main small concerns using motors of one-half to 2 horsepower pay at the rate of 11.9 cents per kilowatt hour, or 8.87 cents per horsepower hour. Larger concerns using motors of about 50 horsepower pay 2.6 cents per kilowatt hour, or 1.93 cents per horsepower hour. I am told that still larger concerns would pay even less.

#### MANUFACTURERS' RETAIL STORES.

Several of the larger and more progressive manufacturers maintain retail stores, among whom may be mentioned the following: Conrad Tack & Co., Burg, near Magdeburg, maintaining throughout the Empire as many as 130 stores; A. Krojanker, Burg, near Magdeburg; Hancisen & Co., Cannstatt, near Stuttgart, makers of the Mercedes shoe; J. Sigle & Co., Kornwestheim-Stuttgart, manufacturers of the Salamander shoe; Max Tack, Strausberg, near Berlin; R. Dorndorf, Breslau.

The wholesale boot and shoe trade constitutes a business of considerable importance in German trade centers, notwithstanding direct selling to retailers by a large proportion of manufacturers. The terms of credit allowed to retail dealers are of considerable latitude, often from three to nine months; the average is six months against sight draft.

## TANNING INDUSTRY.

The leather industry is of great economic importance in the German Empire. It is well organized in all branches, and this tends to its regulation and advancement. Organizations of buyers and sellers of raw hides and skins regulate purchases and sales at auctions. Buyers of East India kips have formed an association to bring about, if possible, better assortment. There are also an association of tanners, an association for the purchase of tanning extracts, and a shoe manufacturers' association.

The hide trade is carried on principally at Hamburg. All classes of hides and skins are imported and reexported, and all classes are included in those purchased for home consumption. The following table gives the quantity and value of the imports and exports of hides and skins during 1909 and 1910:

Articles.	Quantity.		Value.	
	1909	1910	1909	1910
IMPORTS.				
Cattle hides:				
Green and salted.....	165,881,760	205,211,820	\$22,246,336	\$27,539,456
Dry.....	77,428,340	85,388,740	17,494,504	18,816,756
Horsehides:				
Green and salted—				
Whole hides.....	14,564,220	17,060,340	1,254,498	1,406,818
Shoulders.....	290,620	681,560	99,246	106,386
Heads.....	2,090,220	4,123,900	205,634	341,768
Dry—				
Whole hides.....	3,688,740	3,540,680	736,372	672,350
Shoulders.....	331,980	1,139,600	70,686	235,144
Heads.....	776,160	572,120	107,100	134,232
Buffalo hides.....	2,757,920	3,323,320	584,528	479,808
Calfskins:				
Green and salted.....	57,862,200	56,550,780	12,472,390	12,749,184
Limed and dry.....	7,214,018	6,024,256	19,686,408	18,773,440
Lambskins, undressed:				
Wool left on.....	14,848,900	11,571,780	4,239,494	3,275,594
Wool taken off.....	31,240	86,680	22,372	20,468
Sheepskins, undressed:				
Wool left on.....	20,237,800	18,687,020	2,850,526	2,650,130
Wool taken off.....	789,360	1,383,800	226,576	374,612
Goat and kid skins, undressed.....	19,413,460	18,373,300	7,014,812	6,902,952
Other hides and skins.....	1,153,680	1,315,380	462,910	504,560
Total.....	389,360,618	435,035,076	89,774,392	94,983,658
EXPORTS.				
Cattle hides, green and salted.....	103,517,920	107,152,540	13,457,710	15,770,832
Horsehides, green and salted (whole hides).....	14,945,040	18,618,160	1,522,724	1,904,238
Calfskins, green and salted.....	23,589,060	17,851,900	5,971,896	4,497,248
Sheepskins, undressed, wool left on.....	5,998,680	6,020,960	850,850	916,062
Goat and kid skins, undressed.....	3,063,720	2,364,780	1,461,082	1,355,648
Other hides and skins.....	83,062	69,734	83,062	69,734
Total.....	151,197,482	152,078,074	23,347,324	24,513,762

## IMPORTS AND EXPORTS OF HIDES AND SKINS.

The source of the imports of hides and skins and the destination of the exports are shown by the following table:

Articles and countries.	1909	1910	Articles and countries.	1909	1910
IMPORTS.					
Cattle hides, green and salted:			Horsehides, dry, whole hides:		
Argentina.....	53,080,060	61,615,180	Argentina.....	2,699,180	2,550,240
Australia.....	1,239,260	682,880	Russia.....	823,460	817,740
Austria-Hungary.....	25,534,300	21,449,120	Uruguay.....	166,100	172,700
Belgium.....	2,358,620	5,440,600	Total.....	3,688,740	3,540,680
Brazil.....	22,356,620	26,744,740	Horsehides, dry, shou-		
Cuba.....	1,880,120	2,579,280	ders:		
Denmark.....	4,852,760	4,328,720	Argentina.....	308,000	1,109,460
France.....	11,108,900	22,344,960	Russia.....	23,980	30,140
Italy.....	2,321,220	3,111,460	Total.....	331,980	1,139,600
Netherlands.....	7,082,020	9,604,980	Horsehides, dry, heads:		
Paraguay.....	4,223,340	6,721,220	Argentina.....	352,000	302,280
Russia.....	1,667,380	2,784,320	United States.....	424,160	209,840
Sweden.....	1,623,820	2,297,460	Total.....	776,160	572,120
Switzerland.....	9,944,660	10,201,180	Buffalo hides:		
United States.....	2,337,720	5,213,340	Argentina.....	61,600	225,060
Uruguay.....	10,197,000	14,787,520	British Indies.....	1,543,960	810,480
All other countries.....	4,073,960	5,304,860	China.....	333,300	1,124,640
Total.....	165,881,760	205,211,820	Dutch Indies.....	819,060	1,163,140
Cattle hides, dry:			Total.....	2,757,920	3,323,320
Africa.....	1,340,020	1,746,800	Calfskins, green and		
Argentina.....	9,908,800	10,177,200	salted:		
Austria-Hungary.....	783,860	764,720	Austria-Hungary.....	21,297,540	19,320,400
Brazil.....	10,472,440	11,499,180	Denmark.....	3,814,800	5,807,780
British Indies.....	24,757,040	27,813,940	France.....	14,617,680	8,210,180
China.....	5,454,240	7,616,620	Italy.....	3,856,600	2,880,020
Colombia.....	1,265,660	2,977,500	Netherlands.....	786,940	1,290,300
Dominican Republic.....	640,200	618,200	Russia.....	4,608,120	2,629,440
Dutch Indies.....	2,176,240	2,545,180	Sweden.....	2,124,540	6,322,140
France.....	848,980	969,760	Switzerland.....	3,484,580	2,974,620
Guatemala.....	1,321,100	1,382,700	United Kingdom.....	683,320	1,358,280
Madagascar.....	3,751,440	5,148,880	United States.....	429,660	1,149,060
Paraguay.....	662,200	452,760	All other countries.....	2,158,420	4,608,560
Peru.....	1,098,240	1,249,600	Total.....	57,862,200	56,550,780
United Kingdom.....	842,820	922,240	Calfskins, limed and dry:		
United States.....	739,200	918,280	Argentina.....	1,046,100	641,740
Uruguay.....	5,480,200	2,613,600	Austria-Hungary.....	2,280,740	1,553,860
Venezuela.....	1,389,960	1,817,420	Brazil.....	296,120	256,080
All other countries.....	4,495,700	4,154,160	Denmark.....	628,760	486,860
Total.....	77,428,340	85,388,740	Finland.....	294,140	1,082,180
Horsehides, green and salted, whole hides:			Netherlands.....	348,480	288,640
Austria-Hungary.....	2,692,800	2,168,540	Norway.....	249,700	248,380
Belgium.....	769,560	1,418,340	Russia.....	10,197,660	7,912,960
Denmark.....	821,260	945,560	Switzerland.....	176,000	275,000
France.....	2,532,640	3,189,120	United States.....	49,280	191,620
Netherlands.....	669,900	1,012,880	All other countries.....	586,300	628,980
United Kingdom.....	4,397,800	5,839,460	Total.....	16,153,280	13,506,300
United States.....	442,420	395,560	Lambskins, undressed, wool left on:		
All other countries.....	2,237,840	2,090,880	Argentina.....	1,379,620	1,144,220
Total.....	14,564,220	17,060,340	Austria-Hungary.....	3,349,720	3,710,969
Horsehides, green and salted, shoulders:			France.....	1,406,020	574,420
France.....	153,560	492,360	Greece.....	814,220	830,000
Russia.....	137,060	189,200	Italy.....	883,080	892,600
Total.....	290,620	681,560	Portugal.....	402,160	378,624
Horsehides, green and salted, heads:			Russia.....	1,246,960	882,640
United Kingdom.....	293,700	269,940	Spain.....	2,372,920	1,512,288
United States.....	1,796,520	3,853,960	Turkey.....	1,006,060	533,900
Total.....	2,090,220	4,123,900	United Kingdom.....	489,060	270,340

Articles and countries.	1909	1910	Articles and countries.	1909	1910
<b>IMPORTS—continued.</b>					
Lambskins, undressed wool left on—Contd.			Cattle hides, green and salted:		
Uruguay.....	486,640	373,560	Austria-Hungary.....	13,161,060	20,197,320
All other countries.....	1,012,440	463,980	Belgium.....	10,717,300	7,846,740
Total.....	14,848,900	11,571,780	Finland.....	3,382,500	4,857,380
Lambskins, undressed, wool taken off:			France.....	9,585,180	8,349,000
Denmark.....		4,620	Netherlands.....	10,426,020	8,242,300
France.....	31,240	82,060	Russia.....	24,039,840	30,757,460
Total.....	31,240	86,680	Sweden.....	6,396,500	5,435,540
Sheepskins, undressed, wool left on:			United Kingdom.....	9,476,940	6,453,700
Algeria.....	425,040	508,860	United States.....	10,292,040	8,333,380
Argentina.....	2,509,760	1,446,280	All other countries.....	6,040,540	6,649,720
Austria-Hungary.....	2,889,700	3,099,800	Total.....	103,517,920	107,152,540
Denmark.....	693,220	1,559,140	Horsehides, green and salted, whole hides:		
France.....	2,198,460	1,565,740	Austria-Hungary.....	48,400	320,100
Morocco.....	953,920	954,580	Belgium.....	573,540	303,380
Russia.....	2,632,520	3,385,800	Netherlands.....	301,620	728,200
Spain.....	1,728,320	1,309,660	Russia.....	12,331,660	16,021,500
Turkey.....	1,091,640	815,760	United States.....	1,689,820	1,244,980
United Kingdom.....	2,458,490	1,668,480	Total.....	14,945,040	18,618,160
All other countries.....	2,656,280	2,372,920	Calfskins, green and salted:		
Total.....	20,237,800	18,687,020	Austria-Hungary.....	1,354,540	1,604,020
Sheepskins, undressed, wool taken off:			Belgium.....	1,806,640	1,411,960
Australia.....	229,020	359,920	Canada.....	295,900	232,100
France.....	399,300	546,040	Finland.....	1,384,900	2,078,120
United Kingdom.....	161,040	477,840	France.....	2,302,300	2,141,920
Total.....	789,360	1,383,800	Netherlands.....	1,366,360	1,096,700
Goat and kid skins, undressed:			Switzerland.....	468,380	482,020
Algeria.....	606,760	245,960	United Kingdom.....	971,520	608,080
Austria-Hungary.....	1,948,320	2,185,700	United States.....	13,328,700	7,638,180
Belgium.....	261,140	257,180	All other countries.....	309,320	558,800
Brazil.....	520,520	314,380	Total.....	23,589,060	17,851,900
British Indies.....	2,267,980	3,573,240	Sheepskins, undressed, wool left on:		
China.....	869,660	1,273,140	Austria-Hungary.....	1,282,600	1,143,340
Dutch Indies.....	413,600	405,240	Belgium.....	1,554,080	1,511,180
France.....	4,301,000	3,014,000	France.....	409,860	531,740
Morocco.....	667,480	819,720	Netherlands.....	1,603,300	1,629,980
Russia.....	3,019,500	3,092,760	Russia.....	438,460	638,440
Spain.....	550,880	420,420	United Kingdom.....	426,140	258,500
Switzerland.....	423,720	228,580	United States.....	284,240	307,780
Turkey.....	722,920	428,780	Total.....	5,998,680	6,020,960
United Kingdom.....	874,500	712,360	Goat and kid skins, undressed:		
United States.....	719,400	347,820	Belgium.....	587,180	413,600
All other countries.....	1,246,080	1,054,020	France.....	1,547,920	1,196,580
Total.....	19,413,460	18,373,300	Italy.....	59,840	34,540
Other hides and skins:			Switzerland.....	45,540	59,620
Austria-Hungary.....	921,360	979,880	United Kingdom.....	381,700	506,880
Dutch Indies.....	8,140	7,920	United States.....	441,540	153,560
United Kingdom.....	97,460	154,880	Total.....	3,063,720	2,364,780
United States.....	126,720	172,700	Other hides and skins:		
Total.....	1,153,680	1,315,380	Austria-Hungary.....	153,780	197,780
			United States.....	109,560	59,620
			Total.....	263,340	257,400

Buffalo hides are imported principally from the British and Dutch East Indies. Of British Indian hides, the Northwestern are preferred; and of the Dutch those coming from Batavia, Samarang, and Soerabaya. Kips come principally from Calcutta and Karachi, and some via Madras and Bombay. Partially prepared East Indian sheepskins and goatskins—that is, skins given preparatory tannage with acacia bark and myrobolans, are also shipped from Madras and Bombay. Imports from the United States consist largely of packer hides. In both the import and export trade, hides and skins are always bought and sold on cash terms, prices being quoted per half kilo (1.1 pounds). Commission houses sell to tanners on three and six months' time.

#### NUMBER AND CAPACITY OF TANNERIES.

The tanning industry is widely distributed, there being between 6,000 and 7,000 tanneries in the Empire. Most of these establishments, however, can hardly be considered tanneries of the present-day standard. The small establishments, in which operations are carried on by various members of a family, very often without any outside help, are devoted exclusively to the manufacture of vegetable-tanned leathers. Some are producing sole leather by the old German process, others stuffed calfskins and East India kips. Tanners of this class work for the retail trade among the country shoemakers or for contractors to the army; they usually form large associations to dispose of their goods. The leather produced is generally very solid and specially adapted for rough wear.

The smaller tanning establishments in Germany, however, are gradually disappearing, and the tendency is toward large firms using mechanical power and supplied with modern equipment by which the cost of production is reduced. Aside from the small tanners there are 1,000 to 1,200 tanneries equipped with mechanical power, and the weekly output of many of these is limited. In Germany, a medium-sized tannery is one that works about 50 hides daily; and there are about 300 tanneries that attain this output. A much smaller number of plants have a considerably larger production.

The more important tanneries are well equipped with modern tanning machinery, German manufacturers as a rule being progressive and ready to adopt new machines and improved methods. Leaving out of consideration chrome leather, which is made in the same way and with the same kind of machines as in the United States, the German tanner has methods of manufacture that sometimes require certain special machinery not found in American tanneries.

#### TRADE IN TANNING MATERIALS.

Leather was formerly tanned in Germany with oak and pine barks; later valonia and sumac were used. Quebracho has been employed for about 30 years, being imported in large quantities, principally in the log. Divi-divi is used largely in the tanning of sole leather after the North German system. Mimosa bark has been used for about 20 years, while mangrove bark, which is now consumed in moderately large quantities, was introduced at a comparatively recent date; that of East and South African origin is preferred.

Of extracts, chestnut extract was the first used to a considerable extent in Germany; extract of oak was adopted soon afterwards. Quebracho extract is largely manufactured in the country, being the principal product of the German tanning-extract factories. It is estimated that Germany supplies perhaps one-fifth of its total demand for tanning materials. Although it has large tan-oak forests, considerable quantities of oak bark are imported annually; this is also true as regards pine bark. The quantity and value of Germany's imports and exports of tanning materials in 1909 and 1910 are shown in the following table:

Articles.	Quantity.		Value.	
	1909	1910	1909	1910
IMPORTS.				
Oak bark.....	94,550,060	85,985,460	\$1,033,872	\$940,100
Pine and similar barks.....	75,165,200	71,951,000	539,546	509,558
Acacia and other tanning barks.....	54,181,160	83,370,980	1,075,284	1,572,942
Quebracho and other tanning wood:				
In blocks.....	205,561,180	310,333,760	1,823,556	2,738,594
Split up.....	8,903,840	6,412,120	91,630	65,926
Gall nuts.....	5,804,040	6,374,160	631,890	708,526
Myrobalans.....	28,977,080	37,494,380	414,120	543,830
Catechu.....	7,611,120	9,491,020	421,706	517,174
Divi-divi.....	16,099,820	14,016,500	405,314	350,574
Sumac.....	7,822,540	7,902,180	227,052	205,632
Acorns.....	4,096,840	1,204,280	112,336	39,508
Algarovilla, valonia, and other tanning material.....	32,769,660	52,555,360	772,072	1,224,986
Total.....	541,542,540	687,091,200	7,548,378	9,417,350
EXPORTS.				
Oak bark.....	2,408,120	1,845,140	41,650	17,374
Pine and similar barks.....	1,096,040	1,088,780	9,996	8,806
Acacia and other tanning barks.....	4,425,960	4,933,280	86,870	97,104
Quebracho and other tanning wood:				
In blocks.....	519,200		32,368	
Split up.....	24,655,400	23,792,340	296,786	288,932
Gall nuts.....	11,440	82,280	6,664	13,090
Myrobalans.....	88,220	23,760	3,332	952
Catechu.....	246,620	526,240	31,416	54,978
Divi-divi.....	2,860	2,200	1,904	1,190
Sumac.....	303,600	492,580	8,806	15,946
Acorns.....	212,080	62,920	3,332	2,142
Algarovilla, valonia, and other tanning material.....	551,320	295,460	16,422	13,090
Total.....	34,520,860	33,144,980	539,546	513,604

Exports of tanning materials are small in comparison with imports. The largest single item is split quebracho and other tanning woods, of which, in 1910, Russia took 10,389,060 pounds, Austria-Hungary 8,404,660 pounds, and Sweden 4,998,620 pounds. Of other exports, oak bark went to Belgium and Switzerland, pine and similar barks to Austria-Hungary and Belgium, acacia and other tanning barks and gall nuts to Russia and Austria-Hungary, myrobalans to Norway and Portugal, catechu to Netherlands and Sweden, divi-divi to Norway and the United Kingdom, sumac to Austria-Hungary and Switzerland, acorns to Austria-Hungary and Belgium, and algarovilla, etc., to Russia and Norway.

## SOURCE OF TANNING MATERIALS.

The source of Germany's imports of tanning materials is shown in the following table:

Articles and countries.	1909	1910	Articles and countries.	1909	1910
Oak bark:			Myrobalans:		
Austria-Hungary.....	<i>Pounds.</i> 60,500,000	<i>Pounds.</i> 53,336,800	British Indies.....	28,428,840	<i>Pounds.</i> 36,210,900
Belgium.....	8,884,700	6,671,280	Dutch Indies.....	548,240	1,283,480
France.....	19,727,400	20,093,700	Total.....	28,977,080	37,494,380
Netherlands.....	5,437,960	5,883,680			
Total.....	94,550,060	85,985,460			
Pine and similar barks:			Catechu:		
Austria-Hungary.....	71,966,620	69,067,020	British Indies.....	5,341,380	<i>Pounds.</i> 3,820,520
Sweden.....	3,198,580	2,883,980	Dutch Indies.....	629,200	612,920
Total.....	75,165,200	71,951,000	Malacca.....	1,640,540	5,057,580
Acacia and other tanning barks:			Total.....	7,611,120	9,491,020
Australia.....	7,263,520	13,300,320			
British Africa.....	36,886,740	47,928,100	Divi-divi:		
British Indies.....	577,500	3,967,920	Colombia.....	9,029,460	<i>Pounds.</i> 4,599,320
German East Africa.....	2,302,740	2,974,180	Dutch Guiana.....	997,920	1,636,360
Madagascar.....	7,150,660	15,200,460	Venezuela.....	6,072,440	7,780,820
Total.....	54,181,160	83,370,980	Total.....	16,099,820	14,016,500
Quebracho and other tanning wood, in block; Argentina.....	205,561,180	310,333,760	Sumac:		
Quebracho and other tanning wood, split up:			Austria-Hungary.....	1,586,640	<i>Pounds.</i> 1,006,060
Belgium.....	8,811,000	6,301,460	Italy.....	6,235,900	6,896,120
Netherlands.....	92,840	110,660	Total.....	7,822,540	7,902,180
Total.....	8,903,840	6,412,120			
Gall nuts:			Acorns:		
China.....	5,006,540	5,561,040	Belgium.....	2,889,920	<i>Pounds.</i> 762,080
Turkey.....	797,500	813,120	Netherlands.....	1,206,920	442,200
Total.....	5,804,040	6,374,160	Total.....	4,096,840	1,204,280
			Algarovilla, valonia, and other tanning materials:		
			Austria-Hungary.....	2,064,040	<i>Pounds.</i> 2,981,220
			British Indies.....	38,500	25,520
			Chile.....	6,600	925,320
			Greece.....	3,685,000	1,289,420
			Turkey.....	26,975,520	47,333,880
			Total.....	32,769,660	52,555,360

## CHARACTER OF OUTPUT—SOLE LEATHER.

Practically every kind of leather is produced, although certain centers are noted for certain kinds of leather. The industry formerly centered largely near the sources of tanning materials, especially in the rich oak districts, as well as near a plentiful supply of water—Malmedy, Alsace Lorraine, Wurttemberg, etc.

While still carried on in these districts and the smaller central German States, the sole-leather industry has developed a more important center in and around Hamburg. Quebracho tanning has increased extensively in Hamburg, Wandsbek, Altona, Stellingen, Lagenfeld, Kellinghusen, Stade, Elmshorn, Itzehoe, and Neumunster. The products of these districts, tanned by the rapid-tanning system (extracts principally), are well known on the world's markets as North German sole leather. The North German tanners, generally speaking, are perhaps the most progressive. The industry is least progressive in East Germany. In the Rhine district and in Schleswig-Holstein extensive development has taken place, although the oak-bark or long-tannage system prevails.

Two distinct kinds of sole leather are made in Germany, one called "vacheleder," which is tanned with extracts for light wear, and the other termed "soleleder," used for army boots and heavy wear. The latter leather requires six months and upward for tannage, while the former is tanned in three to six weeks. A third method, a combination of these two, is also employed for tanning sole leather.

Among the largest sole-leather tanners may be mentioned the following firms: Lederfabrik Hirschberg, Knoch & Co., Hirschberg, with a weekly production of 8,000 hides; Lederwerke Wiemann A. G., Hamburg, 5,000 hides; Norddeutsche Lederfabrik, G. m. b. H., Stade, 3,000 hides; Lederwerke Neustadt, Mecklenburg, 3,000 hides.

Charging with chemicals leather that is sold by weight is not allowed in Germany; heavy extracts are sometimes used, however, to obtain a better yield.

#### UPPER LEATHER—HARNESS AND GLOVE LEATHER.

Chrome upper leather is manufactured in large quantities and in practically all parts of the Empire. The principal and larger firms are producing it on exactly the same lines as the American tanners; they use the same tanning process, and as previously stated, the same machines. The following are the important upper-leather tanners:

Firm name and address.	Output.
Cornelius Heyl, Worms.....	2,000 dozen calfskins, 150 dozen glazed kid, and 1,500 sides enameled leather daily.
Carl Freudenberg, Weinheim.....	1,500 dozen calfskins daily.
J. Mayer & Sohn, Offenbach on the Main.....	1,500 dozen glazed kid daily, also patent colt.
Hermann Sager, Neumunster.....	6,000 East Indian kips daily.
Emil Köster, Neumunster.....	1,000 dozen sheepskins daily.
Doerr & Reinhart, Worms.....	Patent leather, box calf, and glazed kid.
Carl Simon Söhne, Kirn on the Nahe.....	Glazed kid (semichrome).
Heinrich Bierling, Dresden.....	Box calf.
Deutsch-Amerikanische Lederwerke (Becker & Co.), Burgel.....	Box side leather.
Adler & Oppenheimer, Zingolsheim.....	All kinds of upper leathers, also sole and belting.
Sigmund Hirsch, Weinheim.....	Horsehides.

There is still a large demand in this country for bark-tanned upper leather, particularly for the Army and for the rural population. The raw materials employed for these leathers are cowhides, East Indian kips (worked mainly in Wurttemberg, Thuringia, and Holstein), calfskins (worked in the south of Germany), and horsehides. The latter, while not used nearly so extensively as formerly, are still worked to a certain extent in the south of Germany and in Holstein.

Split hides for bag leather are tanned and curried principally in the Province of the Rhine, the largest center being Mulheim on the Rhur. The principal tanners of bag leather are August Jaeger, Bonn; H. Coupienne, Mulheim on the Rhur; Z. Spier, Wickrath. Each of these firms also makes a high-grade japanned leather. Harness leather is manufactured in many towns, some of the principal manufacturers being C. F. Roser, Esslingen; J. H. Roser, Feuerbach-Stuttgart; Gebrüder Steinlein, Berlin; D. Römer, Berlin.

Vegetable-tanned sheepskins are used for many purposes and are tanned principally at Kirchhain (Brandenburg) and Neumark. Sheepskins are curried and finished near Frankfort on the Main and

in Thuringia. Glove leather is manufactured in large quantities, the principal centers of production being Burg, Magdeburg, Berlin, Brandenburg, Hainau, Munich, and Esslingen.

#### WAGES—TRADE SCHOOLS.

The cost of raw materials is about the same as in the United States. Wages vary, being influenced to a great extent by the location of the tannery; probably the highest are paid in the mining district near the Rhine. Unskilled labor (male) is paid \$4.30 to \$6.20 per week; skilled labor (male) from \$5.70 to \$7.15 and upward; female labor from \$2.85 to \$3.55. Piecework is the rule in most German tanneries, and I am informed that a man often earns from \$7.15 to \$11.90 per week, according to his skill.

Following are the actual amounts paid for certain piecework: Beamster, for fleshing large hide by hand, in Province of the Rhine, 7.14 cents; in other parts of Germany, 4.3 to 5.7 cents; machine shaver for shaving chrome calfskin or side, 1.07 cents; machine glazer, according to size of skin, 0.24 to 0.95 cent per skin; hand boarder, per hide, 0.7 to 2.85 cents. The handwork on a square foot of box calf is estimated, in one of the largest tanneries, at 6.43 cents, but this figure may be raised to 9.52 cents for smaller establishments.

Other actual prices paid in a chrome-leather tannery follow: Shaving calfskins or large sheepskins, \$1.07 to \$1.19 per 100 skins; first glazing, 14.3 cents per 100 skins; second glazing, 21.4 cents; third glazing, 28.6 cents; fleshing by machine (at a rate of 300 skins per hour), 4.8 cents per 100 skins.

Technical education, an important factor in German industrial life, is available for all branches of the industry. There may be specially mentioned the German Tanners School at Freiberg, Saxony, established in 1889, which gives theoretical and practical instruction in the tanning trade and also provides the general commercial and technical training necessary for carrying on the tanning industry. About half of the students are German and the remainder foreign. Other schools are the German Experimental Station for the leather industry, also at Freiberg; the institution at Metzingen, Wurttemberg, and the Shoemakers' Professional School at Siebenlehn, Saxony, which affords theoretical and practical training in all phases of the industry from the manufacture of a handmade boot or shoe to the management of a modern shoe-manufacturing plant.

## LEATHER TRADE.

Much of the German leather trade was formerly transacted at leather fairs held in various towns, those of Frankfort and Leipzig being most important. These fairs are still held at intervals in the two towns named and also in Allenstein, Brunswick, Breslau, Cassel, Frankfort on the Oder, Hanover, Heilbronn, Kirchhain, Neustadt on the Orla, Stuttgart, and Ulm, but the transactions are far less important than formerly. Leather is now sold to the consumer direct, and through commission agents and wholesale dealers, also on the exchange at Hamburg. The quantity and value of Germany's imports and exports of leather in 1909 and 1910 are shown in the following table:

Articles.	Quantity.		Value.	
	1909	1910	1909	1910
IMPORTS.				
Leather, half or wholly dressed, not further prepared:				
Sheep and lamb skins.....	4,913,260	6,095,760	\$3,641,400	\$4,500,818
Goat and kid skins.....	3,196,100	3,645,840	2,702,966	3,057,824
Upper leather for boots, shoes, and slippers.....	312,620	538,780	551,684	857,276
Leather, tanned, dressed, and finished:				
Sole leather.....	2,504,700	2,535,060	1,206,660	1,057,672
Leather belting.....	1,507,660	1,466,080	688,058	680,870
Leather for harness, furniture, pocketbooks, etc.....	102,960	128,480	145,894	137,088
Glove leather, including glazed, reindeer, wash leather, etc.....	44,660	49,500	116,382	121,380
Goat and kid leather, except glove and patent.....	716,100	861,080	1,705,944	2,053,424
Sheep and lamb leather, except glove and patent.....	2,007,060	2,239,160	2,451,757	2,605,346
Patent calf.....	15,180	15,840	60,690	53,550
Patent cow, goat, sheep, etc.....	89,540	150,920	161,602	260,848
Artificial leather made from leather by-products.....	3,520	15,400	476	1,428
Other leather.....	103,400	101,860	109,718	139,944
Total.....	15,516,760	17,843,760	13,543,231	15,527,468
EXPORTS.				
Leather, half or wholly dressed, not further prepared:				
Sheep, lamb, goat, and kid skins.....	120,560	103,620	146,370	72,352
Upper leather for boots, shoes, and slippers.....	18,170,880	18,206,660	19,485,536	20,440,154
Leather, tanned, dressed, and finished:				
Sole leather.....	9,692,760	10,905,020	2,023,476	2,664,648
Leather belting.....	68,420	105,160	101,626	129,710
Leather for harness, furniture, pocketbooks, etc.....	2,344,540	2,492,360	1,863,778	2,097,494
Glove leather, including glazed, reindeer, wash leather, etc.....	1,569,700	1,398,100	3,054,254	3,015,460
Goat and kid leather, except glove and patent.....	3,243,460	3,447,180	6,371,736	6,926,514
Sheep and lamb leather, except glove and patent.....	1,158,960	1,466,540	1,478,218	1,850,926
Patent calf.....	2,468,020	3,185,720	4,105,738	5,212,438
Patent cow, goat, sheep, etc.....	1,512,060	2,055,460	1,912,230	2,917,642
Artificial leather made from leather by-products.....	91,960	127,820	27,846	33,320
Other leather.....	122,100	115,310	276,794	276,080
Total.....	40,563,420	43,608,950	40,847,602	45,636,738

The foregoing shows that the exports are nearly three times the value of the imports. The latter increased from \$13,543,231 in 1909 to \$15,527,468 in 1910, while during the same period the exports increased from \$40,847,602 to \$45,636,738.

## LEATHER TRADE WITH PRINCIPAL COUNTRIES.

The quantity of leather imported from and exported to the principal foreign countries is shown in the following:

Articles and countries.	1909	1910	Articles and countries.	1909	1910																																																																																																																											
IMPORTS.																																																																																																																																
Sheep and lamb skins, half or wholly dressed:			Sheep and lamb leather, dressed and finished, except glove and patent:																																																																																																																													
Austria-Hungary.....	39,380	64,900	Belgium.....	164,340	157,960																																																																																																																											
Belgium.....	47,300	44,000	France.....	1,252,020	1,411,520																																																																																																																											
British Indies.....	716,320	734,360	United Kingdom.....	564,740	621,500																																																																																																																											
France.....	1,315,600	1,676,620	United States.....	25,960	48,180																																																																																																																											
Netherlands.....	22,880	43,340	Total.....	2,007,060	2,239,160																																																																																																																											
Spain.....	38,280	67,760																																																																																																																														
United Kingdom.....	2,733,500	3,464,780																																																																																																																														
Total.....	4,913,260	6,095,760																																																																																																																														
Goat and kid skins, half or wholly dressed:			Patent calf:																																																																																																																													
British Indies.....	2,559,640	2,587,640	United Kingdom.....	6,600	8,360																																																																																																																											
France.....	195,140	113,520	United States.....	8,580	7,480																																																																																																																											
United Kingdom.....	441,320	944,680	Total.....	15,180	15,840																																																																																																																											
Total.....	3,196,100	3,645,840																																																																																																																														
Upper leather for boots, shoes, and slippers:			Patent cow, goat, sheep, etc.:																																																																																																																													
Austria-Hungary.....	42,680	31,240	United Kingdom.....	72,380	101,200																																																																																																																											
France.....	11,220	39,380	United States.....	17,160	49,720																																																																																																																											
Netherlands.....	5,720	35,640	Total.....	89,540	150,920																																																																																																																											
United Kingdom.....	117,700	152,240																																																																																																																														
United States.....	135,300	280,280	Artificial leather made from leather by-products:																																																																																																																													
Total.....	312,620	538,780	France.....	3,300	5,500																																																																																																																											
Sole leather:			United Kingdom.....	220	9,900																																																																																																																											
Chile.....	1,980,000	1,818,960	Total.....	3,520	15,400																																																																																																																											
France.....	57,860	42,680																																																																																																																														
Russia.....	37,620	31,900	Other leather:																																																																																																																													
United Kingdom.....	429,220	641,520	Austria-Hungary.....	3,960	3,520																																																																																																																											
Total.....	2,504,700	2,535,060	France.....	1,100	10,340																																																																																																																											
Leather belting:			Russia.....	35,640	36,740																																																																																																																											
Belgium.....	1,063,700	1,066,340	United Kingdom.....	24,640	28,600																																																																																																																											
United Kingdom.....	443,960	399,740	United States.....	38,060	22,660																																																																																																																											
Total.....	1,507,660	1,466,080	Total.....	103,400	101,860																																																																																																																											
Leather for harness, furniture, pocketbooks, etc.:																																																																																																																																
Japan.....	39,160	54,120	EXPORTS.																																																																																																																													
United Kingdom.....	63,800	74,360	Total.....	102,960	128,480	Sheep, lamb, goat, and kid skins, half or wholly dressed:			Austria-Hungary.....	21,560	21,560	Austria-Hungary.....	52,800	59,400	France.....	9,020	16,500	United Kingdom.....	67,760	44,220	Russia.....	14,080	11,440	Total.....	120,560	103,620	Total.....	44,660	49,500				Goat and kid leather, dressed and finished, except glove and patent:			Upper leather for boots, shoes and slippers:			Austria-Hungary.....	16,060	15,620	Austria-Hungary.....	2,931,720	3,651,120	France.....	153,340	187,880	Belgium.....	655,360	560,780	Netherlands.....	30,360	48,620	Denmark.....	398,640	464,200	United Kingdom.....	53,240	57,640	France.....	1,481,040	1,299,980	United States.....	463,100	551,320	Italy.....	1,857,680	1,787,500	Total.....	716,100	861,080	Netherlands.....	667,260	535,480				Norway.....	306,020	332,200				Roumania.....	272,800	234,080				Russia.....	2,001,780	2,185,040				Sweden.....	644,600	649,440				Switzerland.....	2,028,180	2,127,180				United Kingdom.....	3,168,880	2,594,900				United States.....	123,860	130,680				All other countries.....	1,633,060	1,654,080				Total.....	18,170,880	18,206,660
Total.....	102,960	128,480	Sheep, lamb, goat, and kid skins, half or wholly dressed:																																																																																																																													
Austria-Hungary.....	21,560	21,560	Austria-Hungary.....	52,800	59,400																																																																																																																											
France.....	9,020	16,500	United Kingdom.....	67,760	44,220																																																																																																																											
Russia.....	14,080	11,440	Total.....	120,560	103,620																																																																																																																											
Total.....	44,660	49,500																																																																																																																														
Goat and kid leather, dressed and finished, except glove and patent:			Upper leather for boots, shoes and slippers:																																																																																																																													
Austria-Hungary.....	16,060	15,620	Austria-Hungary.....	2,931,720	3,651,120																																																																																																																											
France.....	153,340	187,880	Belgium.....	655,360	560,780																																																																																																																											
Netherlands.....	30,360	48,620	Denmark.....	398,640	464,200																																																																																																																											
United Kingdom.....	53,240	57,640	France.....	1,481,040	1,299,980																																																																																																																											
United States.....	463,100	551,320	Italy.....	1,857,680	1,787,500																																																																																																																											
Total.....	716,100	861,080	Netherlands.....	667,260	535,480																																																																																																																											
			Norway.....	306,020	332,200																																																																																																																											
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			Switzerland.....	2,028,180	2,127,180																																																																																																																											
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			All other countries.....	1,633,060	1,654,080																																																																																																																											
			Total.....	18,170,880	18,206,660																																																																																																																											

Articles and countries.	1909	1910	Articles and countries.	1909	1910
<b>EXPORTS—continued.</b>					
<b>Sole leather:</b>					
Austria-Hungary.....	168,520	229,460	Sheep and lamb leather, dressed and finished, except glove and patent:		
Denmark.....	409,640	417,400	Austria-Hungary.....	491,040	557,060
France.....	457,380	776,160	Brazil.....	73,920	113,520
Netherlands.....	1,487,640	2,110,680	Italy.....	72,600	83,160
Switzerland.....	1,860,760	2,562,780	Russia.....	174,460	305,800
United Kingdom.....	4,464,900	3,768,820	Sweden.....	67,320	104,940
All other countries.....	843,920	1,039,720	United Kingdom.....	73,260	97,460
Total.....	9,692,760	10,905,020	United States.....	40,480	22,000
Leather belting:			All other countries.....	165,880	182,600
Russia.....	20,680	40,920	Total.....	1,158,960	1,466,540
United Kingdom.....	47,740	64,240			
Total.....	68,420	105,160			
Leather for harness, furniture, pocketbooks, etc.:					
Austria-Hungary.....	636,460	738,700	<b>Patent calf:</b>		
France.....	299,860	178,860	Argentina.....	84,260	132,220
Italy.....	287,980	315,480	Australia.....	66,220	71,280
Russia.....	352,000	386,540	Austria-Hungary.....	293,700	287,320
Switzerland.....	220,660	282,480	Belgium.....	70,840	90,200
United Kingdom.....	165,440	162,360	Brazil.....	52,580	92,180
All other countries.....	382,140	407,880	France.....	259,380	244,200
Total.....	2,344,540	2,492,360	Italy.....	111,760	162,920
Glove leather, including glazed, reindeer, etc.:			Russia.....	216,480	444,180
Austria-Hungary.....	324,720	349,580	Turkey.....	159,280	150,260
Denmark.....	62,700	58,080	United Kingdom.....	472,120	905,520
Russia.....	96,800	134,640	United States.....	135,360	95,920
United Kingdom.....	109,780	121,440	All other countries.....	546,040	509,520
United States.....	948,860	661,540	Total.....	2,468,020	3,185,720
All other countries.....	26,840	72,820			
Total.....	1,569,700	1,398,100			
Goat and kid leather, dressed and finished, except glove and patent:			<b>Patent cow, goat, sheep, etc.:</b>		
Argentina.....	71,720	88,440	Austria-Hungary.....	199,540	223,520
Austria-Hungary.....	323,180	364,760	France.....	151,800	117,920
Belgium.....	162,580	171,820	Italy.....	122,980	123,760
Brazil.....	149,160	123,420	Portugal.....	50,380	69,960
Denmark.....	77,000	93,940	Russia.....	769,780	1,203,620
France.....	194,700	161,480	United Kingdom.....	75,900	146,520
Italy.....	278,300	279,180	All other countries.....	141,680	171,160
Roumania.....	198,660	164,120	Total.....	1,512,060	2,055,460
Russia.....	611,380	881,760			
Sweden.....	116,820	166,100	<b>Artificial leather made from leather by-products:</b>		
United Kingdom.....	540,100	440,880	Argentina.....	69,300	84,700
United States.....	73,920	80,300	Switzerland.....	22,660	43,120
All other countries.....	445,940	430,980	Total.....	91,960	127,820
Total.....	3,243,460	3,447,180			
Other leather:			<b>Other leather:</b>		
Austria-Hungary.....			Austria-Hungary.....	37,620	25,550
Belgium.....			Belgium.....	1,540	1,540
France.....			France.....	43,780	39,380
Italy.....			Italy.....	6,820	16,500
Switzerland.....			Switzerland.....	32,340	32,340
Total.....			Total.....	122,100	115,310

## MARKET FOR AMERICAN LEATHER.

Germany is making strenuous efforts to increase its export trade in leather as well as to supply home demands. Nevertheless certain American leathers find a good market in this country. American calfskins, which were sold here in large quantities 10 years ago, have been supplanted almost entirely by German leathers, which have been gradually improved to compete with the American product; furthermore, they are favored because of the greater care and uniformity in assortment.

Importers state that they occasionally sell American chrome calf. American side leather has lost its former position in the German market on account of (1) high prices, due to the advance in prices of hides, and (2) the customs duty, which was considerably advanced in 1906. The only side leather of American origin now sold here is patent leather, for which there is a constantly increasing demand. According to United States statistics, exports of patent or enameled leather from the United States to Germany were valued at \$390, \$652, \$1,882, \$5,130, and \$91,926 for the fiscal years 1907, 1908, 1909, 1910, and 1911, respectively. The sale of American splits has ceased almost entirely, owing to the high duty, which has made prices prohibitive.

American glazed kid finds a good market here and sales are increasing. The best lines of American kid are still superior in quality to German makes. The principal German kid competing is that tanned by Mayer, at Offenbach; in calfskins, Heyl, Freudenberg, and Doerr & Reinhardt are the main competitors. Competition in patent sides is also largely with the Heyl brand.

Preference is often given German leathers because German tanners, who greatly fear American competition, are giving very close attention to the requirements of their customers and are filling orders with all possible promptness. French glazed kid is cheaper, but it is admittedly not so good as the American. Prices, however, are so dependent upon quality and grading that to attempt comparisons would be misleading. The outlook for American glazed kid and side patent leathers is very good and sales of both lines can be increased materially if American manufacturers exercise more care in filling orders and live up to contracts so far as concerns date of delivery.

European firms offer long credits. The larger importers of leather do not object, however, to paying against documents, but they do complain severely regarding deliveries. Four weeks from date of shipment is the time ordinarily allowed for delivery from the United States, as against three to eight days in Germany. It is stated, however, that the four-week period is often extended indefinitely by the majority of American leather exporters, who apparently fill German orders at their own convenience, with small regard for living up to contracts.

## BOOT AND SHOE TRADE.

Although there has been marked development in the domestic industry and Germany's exports of boots and shoes now exceed in value its imports, the market for American shoes is a considerable one, and may, I believe, be further increased notwithstanding certain unfavorable circumstances. Germany's exports are articles of cheaper grade; imports are almost entirely high-class footwear. Imports were valued at \$2,036,804 in 1910, against \$1,933,750 in 1909, while exports were \$2,732,478 in 1910 and \$2,284,324 in 1909. The quantity of the imports and exports, by countries, is shown in the following table:

Countries.	1909	1910
Imports.	Pounds.	Pounds.
Austria-Hungary.....	674,960	621,280
France.....	40,040	51,480
Netherlands.....	29,480	44,440
Switzerland.....	121,000	138,600
United Kingdom.....	137,280	166,320
United States.....	322,740	367,840
Total.....	1,325,500	1,389,960
Exports.		
Austria-Hungary.....	203,940	302,280
Denmark.....	423,060	381,260
Finland.....	159,500	153,340
France.....	144,980	146,080
German Southwest Africa.....	106,700	168,960
Netherlands.....	54,340	38,500
Russia.....	17,380	20,460
Switzerland.....	853,380	1,026,740
United Kingdom.....	57,640	51,480
Total.....	2,020,920	2,289,100

## COMPETITION AMERICAN SHOES MEET.

Purchases from Austria-Hungary far exceed in weight those from the United States. Footwear of Austro-Hungarian origin includes chiefly articles for ladies' wear, especially boots and shoes in lighter weights, house slippers, and dress footwear. In other than these special lines, the American exporter does not encounter very keen competition from other foreign countries. More competition is met among certain German manufacturers who are now producing lines of higher-class goods, although the number of manufacturers whose products may claim to vie with the grades and classes imported from the United States is very limited.

There is no market in Germany for the cheaper grades of American boots and shoes, trade in which line is supplied by the constantly increasing production of domestic factories, at retail prices so low that American competition is out of the question. Only the better grades of footwear should be sent to this country, the demand for

American products being found among the upper classes and more largely among the young men and young women than the middle-aged or older people. The various novelties in ladies' goods imported each season find ready buyers in the "society set." As regards styles, it may be stated that possibly 40 per cent of the so-called more up-to-date shapes, that is, styles sold as "latest" in New York, are popular here, but the bulk of the trade is done in footwear built on lasts specially designed.

The trade is chiefly in men's and women's goods; the high price of children's American-made shoes as compared with the domestic product constitutes a great drawback to their sale. Nearly all leathers find sale, including box calf, vici kid, patent colt, and patent calf, but vici kid is most popular. Some kangaroo and suede leathers are also sold. Black is by far the best selling color, although tans enjoy a certain popularity during summer months. Sizes and widths should run from medium to large and broad, D and E widths being good sellers. The retail prices of American boots and shoes range from 16.50 to 30 marks (\$3.93 to \$7.14) per pair for men's and women's, and from 10.50 to 15 marks (\$2.50 to \$3.75) for children's sizes 7 to 13.

#### PROSPECTS FOR AMERICAN TRADE.

As regards the outlook, American boots and shoes for adults are to-day in good favor and in good demand. Whether this will continue, or increase, or whether our footwear is now at the height of its popularity is a mooted question. I am inclined to believe, after interviews with dealers in various parts of the Empire, that we may continue not only to hold our own, but also to enjoy a normal growth in sales.

The shoe trade in Germany is now, as a whole, in excellent condition, due chiefly to a freer expenditure of money by the people. A few years ago, I am told, it was customary among different classes to have footwear resoled, often more than once. This practice of course lessened the output and actual turnover by manufacturers, but increased the cobbling shoemakers' trade. To-day the better classes are, it is stated, buying pair for pair as many shoes as the American consumer. This change in conditions has been of great benefit to shoe manufacturers, the output of German factories in some cases being doubled.

The average grade of German-made boots and shoes for adults is popularly priced in all styles at 12.50 marks (\$2.97) per pair. German-made footwear competing with imported goods is retailed at 15.50 and 18.50 marks (\$3.69 and \$4.40). Custom and to-order goods are sold up to 30 marks (\$7.14) per pair.

Competing English lines retail at prices ranging from 12.50 to 25 marks (\$2.97 to \$5.95) per pair. Very small quantities are sold at 20 marks (\$4.76) and upward, in proportion to the amount of business done. English-made tennis shoes are in good demand, and sporting-goods stores as a rule carry English-made football shoes.

The more important retailers of American footwear in Germany obtain stocks direct from the manufacturer in the United States. The majority of the smaller retail dealers place orders through commission agents, from whom small or large quantities can be obtained. It would seem that the American manufacturer not

already established here can hardly expect to obtain a considerable business other than through an exclusive agency, or the establishment of his own retail stores.

Trade in American shoe polishes is very small, as they are higher in price than the German and English. Moreover, the American manufacturer sends polishes marked in English text, whereas those of British make have the text printed in German. The quality of the British polishes is excellent, foremost among them being the Nugget Shoe Polish and Meltonian Cream. The Nugget Polish Co. has an office and a warehouse in Frankfort on the Main.

## APPENDIX.

### GERMAN SHOE MANUFACTURERS.

#### PIRMASENS DISTRICT.

Names of firms.	Pairs per week.	Class of work.
PIRMASENS.		
J. Adolf.....	3,600	Men's, women's, girls', and children's McKay sewn.
A. Bayersdorf.....	600	Girls' and children's McKay sewn.
L. Bayersdorf.....	1,200	Women's, girls', and children's McKay sewn.
F. Bechtold.....	1,200	Men's, women's, girls', and children's McKay sewn.
Bleitching & Co.....	2,700	Women's, girls', and children's McKay sewn and turns.
L. Bleitching.....	600	Girls' and children's turns (handwork).
L. Bock.....	3,600	Men's and women's McKay sewn.
C. L. Breith.....	1,200	Do.
K. Bucholz.....	4,800	Do.
Burckhardt & Zell.....	4,800	Do.
J. Broschart.....	1,200	Women's, girls', and children's McKay sewn.
Busch & Loeser.....	4,800	Women's McKay sewn.
Christmann & Co.....	600-1,000	Men's and women's McKay sewn.
L. Dauter.....	1,200	Men's, women's, girls', and children's McKay sewn.
Dehmer & Höreth.....	3,600	Men's and women's McKay sewn and Goodyear welt.
Chr. Diehl.....	3,600	Men's and women's McKay sewn.
F. Döring.....	600-1,000	Do.
H. Dreihaupt.....	600-1,000	Do.
Drexler & Co.....	3,600	Men's, women's, girls', and children's McKay sewn and turns.
K. I. Eckert.....	600	Women's McKay sewn.
A. Faul.....	600	Do.
G. Faul, Jr.....	960	Women's, girls', and children's McKay sewn.
A. Frank.....	600	Girls' and children's McKay sewn.
Frey & Gärtner.....	600	Women's, girls', and children's McKay sewn.
P. Faul.....	600	Girls' and children's McKay sewn.
E. Ganss.....	360	Do.
H. Gaubatz.....	1,200	Women's, girls', and children's McKay sewn.
A. Gaubatz.....	850-1,000	Do.
Chr. Gemeinder.....	2,400	Men's, women's, girls', and children's McKay sewn.
Griesser & Lang.....	1,800	Men's and women's Goodyear welt and McKay sewn.
G. Gross.....	600	Women's McKay sewn.
Chr. Haber.....	1,200	Men's, women's, girls', and children's McKay sewn.
Haber & Co.....	1,200	Women's, girls', and children's McKay sewn.
Gg. Hartmann.....	600-1,000	Men's and women's McKay sewn.
Fr. K. Heil.....	1,200	Women's McKay sewn.
L. W. Heinrich.....	600-1,000	Men's and women's McKay sewn.
H. Hill.....	3,600	Men's Goodyear welt and McKay sewn.
K. Hoch.....	1,800	Men's, women's, girls', and children's McKay sewn.
Hh. Hoffmann.....	1,200	Men's and women's McKay sewn.
Paul Hüttig.....	600	Do.
H. Ihle.....	600-1,000	Do.
Gg. Itt.....	1,200	Men's, women's, girls', and children's McKay sewn.
Junge & Rothaar.....	600	Do.
P. Kaiser.....	3,600	Do.
Kaiser & Co.....	7,200	Do.
Kilian & Schuck.....	1,800	Women's, girls', and children's McKay sewn.
J. Kaufmann, Jr.....	960	Do.
Chr. Klein.....	600	Women's McKay sewn.
H. Klesmann.....	2,400	Men's, women's, girls', and children's Goodyear welt and McKay sewn.
Klesmann Gebr.....	1,200	Men's, women's, girls', and children's McKay sewn.
L. F. Klesmann.....	600	Women's, girls', and children's McKay sewn.
Ludw. Klesmann.....	600	Do.
W. Kling.....	960	Do.
Chr. Kling.....	1,200	Men's, women's, girls', and children's McKay sewn.
P. König.....	2,400	Do.
Ludw. Kopp.....	9,600	Men's and women's Goodyear welt and McKay sewn.
L. Kaufmann.....	600-1,000	Men's and women's McKay sewn.
L. Knerr.....	600-1,000	Do.
Fr. Krummel.....	1,200	Women's, girls', and children's McKay sewn.
Knell & Krautwurst.....	600	Do.
G. Krummet, Jr.....	4,800	Girls' and children's McKay sewn.
Gg. Hoffmann.....	600	Men's, women's, girls', and children's McKay sewn.
Lehnung Gebr.....	1,200	Do.
H. Lehnung.....	3,600	Women's McKay sewn.
H. Lukes.....	1,200	Girls' and children's McKay sewn.
Carl Matz.....	1,200	Men's and women's McKay sewn.
Fr. Mangold.....	600-1,000	Do.

## German shoe manufacturers—Continued.

## FIRMASENS DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
<b>PIRMASENS—continued.</b>		
Fr. Mall.....	600	Women's, girls', and children's McKay sewn.
H. Metzger.....	2,400	Men's and women's McKay sewn.
W. Müller.....	1,200	Women's, girls', and children's McKay sewn.
W. Müller Sohn.....	600	Girls' and children's McKay sewn.
W. H. Müller.....	1,200	Men's, women's, girls', and children's McKay sewn.
Carl Müller.....	600-1,000	Men's and women's McKay sewn.
Chr. Mugler.....	2,400	Do.
G. Neuppert.....	600-1,000	Women's, girls', and children's McKay sewn.
C. Ohr.....	3,600	Men's and women's Goodyear welt, McKay sewn, turns, and veldtschoen.
Emil Faque.....	12,000	Men's and women's McKay sewn.
F. Pirmann.....	1,450	Men's and women's McKay sewn.
Preisser Nachf.....	2,400	Men's women's, girls', and children's McKay sewn.
L. Raber.....	600-1,000	Men's and women's McKay sewn.
P. Reinhardt.....	900	Men's, women's, girls', and children's McKay sewn.
Ed. Rheinberger.....	12,000	Men's, women's, girls', and children's Goodyear welt, McKay sewn, and turns.
Hch. Rieder.....	960	Men's and women's McKay sewn.
W. Rock.....	1,200	Do.
Ross Gebr.....	1,200	Women's, girls', and children's McKay sewn.
Fr. Roth.....	600	Do.
M. Roth.....	1,200	Men's and women's McKay sewn.
George Rühl.....	600-1,000	Do.
H. Rühl.....	600-1,000	Do.
L. Seibel.....	600-1,000	Do.
L. Sertel.....	600-1,000	Do.
Carl Semler.....	17,000	Men's, women's, girls', and children's McKay sewn.
L. Semler.....	1,200	Do.
Jakob Semler.....	350	Children's McKay sewn.
C. Sedlmeyer.....	480	Women's, girls', and children's McKay sewn.
H. Soffel.....	600	Do.
Chr. Schäfer.....	1,200	Girls' and children's McKay sewn.
L. & J. Schlotter.....	600	Do.
H. Schmenger.....	850	Women's and girls' McKay sewn.
Simon Schmidt.....	850	Women's, girls', and children's McKay sewn.
Fr. Schmidt.....	600	Girls' and children's McKay sewn.
Carl Schmidt.....	600-1,000	Men's and women's McKay sewn.
Chr. Schmidt.....	600-1,000	Do.
Maria Schmidt.....	600-1,000	Do.
A. & G. Schneider.....	2,400	Men's, women's, girls', and children's McKay sewn.
Adam Schwarz.....	960	Women's, girls', and children's McKay sewn.
Franz Schwarz.....	4,800	Men's and women's Goodyear welt and McKay sewn.
Max Schwarz.....	350	Women's McKay sewn.
Theobald & Rosenfelder.....	1,200	Men's, women's, girls', and children's Goodyear welt and McKay sewn.
Theysen & Heumach.....	600-1,000	Men's and women's McKay sewn.
P. Uhl.....	850	Women's, girls', and children's McKay sewn.
C. Waltz Nachf.....	2,400	Men's and women's Goodyear welt, McKay sewn, and turns.
C. Weitz.....	960	Women's McKay sewn.
M. Wolff.....	3,600	Men's and women's Goodyear welt, McKay sewn, and turns.
R. & H. Weber.....	1,200	Women's McKay sewn.
H. Wilhelm.....	600-1,000	Men's and women's McKay sewn.
K. Weiss.....	600-1,000	Do.
K. Walter.....	600-1,000	Do.
John Wilhelm.....	600-1,000	Do.
F. Wollmeringer.....	600-1,000	Do.
L. Wolff.....	600-1,000	Do.
C. Zinnecker.....	600-1,000	Do.
L. Zimpfer.....	600-1,000	Do.
L. Zimpfer, jr.....	960	Do.
Lambrecht & Weber.....	100	Women's, girls', and children's McKay sewn.
<b>HAUENSTEIN.</b>		
J. Feith.....	1,200	Men's and women's McKay sewn.
Joseph Hengen.....	1,450	Do.
Jos. Kaiser.....	2,400	Do.
George Kratz.....	1,800	Do.
Joh. Naab.....	2,400	Men's McKay sewn.
C. A. Seibel.....	3,600	Do.
Süddeutsche Schf.....	3,000	Men's and women's McKay sewn.
Gebr. Schwarzmiller.....	2,400	Do.
J. Schwarzmiller.....	1,200	Do.
Anton Seibel.....	1,800	Men's and women's Goodyear welt and McKay sewn.
Memmer & Co.....	600-1,000	Men's and women's McKay sewn.
Mannsmann Gebr.....	600-1,000	Do.

## German shoe manufacturers—Continued.

## PIRMASENS DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
RODALBEN.		
Schmulder & Wagner .....	600	Girls' and children's McKay sewn.
M. Dauenhauer .....	600-1,000	Men's and women's McKay sewn.
Franz Durm .....	600-1,000	Do.
C. Frank Nachf. ....	600-1,000	Do.
J. Loretz .....	600-1,000	Do.
Joh. Leister .....	600-1,000	Do.
A. Pfundstein .....	600-1,000	Do.
Max Reber .....	600-1,000	Do.
J. Servas .....	600-1,000	Do.
M. Servas .....	600-1,000	Do.
HELTZERSBERG.		
Josef Depper .....	1,200	Women's, girls', and children's McKay sewn.
Fr. Neumayer .....	1,500	Men's, women's, girls', and children's McKay sewn.
W. Martin .....	600-1,000	Men's and women's McKay sewn.
Jacob König .....	600-1,000	Do.
A. Müller .....	600-1,000	Do.
ZWEIBRÜCKEN.		
L. Greiner .....	1,200	Women's, girls', and children's McKay sewn.
Bremle & Fuchs .....	1,200	Women's McKay sewn.
Fritz Bach .....	850	Men's and women's McKay sewn.
L. Frowenn .....	1,450	Men's, women's, girls', and children's McKay sewn.
Joh. Unger .....	600-1,000	Men's and women's McKay sewn.
OTHER PLACES.		
Maria Ulma, Clausen .....	600-1,000	Men's and women's McKay sewn.
Carl Backe, Burgalben .....	600	Women's, girls', and children's McKay sewn.
Peter Schiel, Burgalben .....	1,200	Girls' and children's McKay sewn.
Flaig & Kalmer, Burgalben .....	600-1,000	Men's and women's McKay sewn.
Börck & Co., Blieskastal .....	600-1,000	Do.
J. Brill, Blieskastal .....	600-1,000	Do.
L. Cronauer, Leimen .....	1,800	Women's, girls', and children's McKay sewn.
F. N. Cronauer, Leimen .....	1,800	Do.
Cronauer Gebr., Leimen .....	600-1,000	Men's and women's McKay sewn.
A. Allspach, Höhfröschen .....	1,800	Do.
Gebr. Rund, Höhfröschen .....	600	Women's, girls', and children's McKay sewn.
Adam Zeigler, Annweiler .....	1,200	Do.
J. Boch, Annweiler .....	600-1,000	Men's and women's McKay sewn.
Chr. Kofer, Kröppen .....	3,600	Women's, girls', and children's McKay sewn.
Kunz & Weber, Lemberg .....	600-1,000	Men's and women's McKay sewn.
Kunz & Kästner, Lemberg .....	600-1,000	Do.
Fran. J. z i m e r m a n , Münschweiler .....	600-1,000	Do.
Marx Wadle, Münschweiler .....	2,400	Men's, women's, girls', and children's Goodyear welt and McKay sewn.
Josef Wadle, Münschweiler .....	1,800	Men's, women's, girls', and children's McKay sewn.
Karl Wadle, Münschweiler .....	1,200	Do.
Genossensch. Schuhfabrik, Lemberg .....	1,800	Women's, girls', and children's McKay sewn.
Gg. Traxel, Erlenbrunn .....	1,200	Men's, women's, girls', and children's McKay sewn.
Oskar Klan, Dahn .....	1,200	Do.
J. Gerlach, Trulben .....	600	Women's, girls', and children's McKay sewn.
Nik. Wagner, Trulben .....	600	Do.
Genossensch. Schuhfabrik, Glashütte .....	600-1,000	Men's and women's McKay sewn.
J. Ganter, Gaugeweiher .....	600-1,000	Do.
Heil Gebr., Kapsweyer .....	600-1,000	Do.
Müller & Schwab, Simten .....	600-1,000	Do.
Lenhard & Sohn, Neustadt .....	600-1,000	Do.
R. Stegner, Rieschweiler .....	1,200	Men's, women's, girls', and children's McKay sewn.
A. Ipers, Niederauerbach .....	7,200	Men's and women's McKay sewn.
J. Müller Söhne, Speyer .....	1,800	Men's, women's, girls', and children's Goodyear welt and McKay sewn.
Bernh. Roos, Speyer .....	1,800	Men's and women's McKay sewn.
Jakob Bauer, Thaleischweiler .....	3,600	Girls' and children's McKay sewn.
J. Greiner, Thaleischweiler .....	600-1,000	Men's and women's McKay sewn.
K. Rothhaar, Thalfröschen .....	720	Do.
Gg. Sauer, Thalfröschen .....	3,000	Women's, girls', and children's McKay sewn.
Stöss Gebr., Waldfischbach .....	8,500	Men's and women's McKay sewn.
O. Oeltzscher, Waldfischbach .....	2,400	Girls' and children's McKay sewn and turns.
L. Gleich, Waldfischbach .....	600-1,000	Men's and women's McKay sewn.
Fr. I. Löwenberg, Spirkelbach .....	600-1,000	Do.
J. Müller, Simten .....	600-1,000	Do.
C. Ross Nachf., Ixheim .....	600-1,000	Do.
P. Sandmann, Apostlemühle .....	600-1,000	Do.
Seibel Gebr., Erfweiler .....	600-1,000	Do.
Hch. Schäfer, Moschelmühle .....	600-1,000	Do.
Chr. Stöss, Kröppen .....	600-1,000	Do.

## German shoe manufacturers—Continued.

## ERFURT AND WEISSENFELS DISTRICT.

Names of firms.	Pairs per week.	Class of work.
<b>ARNSTADT.</b>		
Hofmann Gebr.....	2,000	Men's and women's McKay sewn and pegged and children's turns.
Bern. Gärber, A. G.....	1,500	Men's, women's, youths', and children's Goodyear welt, McKay sewn, and pegged.
Hullemann & Geck.....	1,200	Men's, women's, youths', and children's McKay sewn and pegged.
F. A. Keil.....	1,500	Men's, women's, youths', and children's Goodyear welt, McKay sewn, and pegged.
E. Wagner.....	1,200	Men's, women's, youths', and children's McKay sewn and pegged.
<b>BURG.</b>		
Dedermann & Homen.....	4,500	Men's, women's, and youths' McKay sewn and pegged.
Aug. Voigt.....	4,000	Do.
Hömen & Co.....	4,000	Do.
A. Kroatjanker.....	2,000	Men's, women's, youths', and children's McKay sewn and pegged.
C. Taack & Co.....	30,000	Men's, women's, youths', and children's Goodyear welt, McKay sewn, pegged, and veldtschoen.
L. Walter.....	1,200	Men's, women's, and youths' McKay sewn and pegged.
G. Schütz.....	1,000	Men's, women's, youths', and children's McKay sewn and pegged.
<b>ERFURT.</b>		
F. C. Böhner.....	4,000	Men's, women's, youths', and children's Goodyear welt and McKay sewn.
Cerf & Bielschowsky.....	5,500	Do.
F. H. Dotzler.....	600	Men's, women's, youths', and children's McKay sewn and pegged.
Ducke Gebr.....	3,500	Men's and women's Goodyear welt and McKay sewn.
A. Eisfelder.....	900	Women's, youths', and children's McKay sewn.
Erfurter Mech. Schuhfabrik.....	4,000	Men's, women's, youths', and children's Goodyear welt and McKay sewn.
M. & L. Hess.....	15,000	Do.
Hofmann & Stenger.....	1,000	Do.
J. Mergenbaum's Nachf.....	2,500	Do.
F. Metzler.....	2,500	Do.
E. Linger, A. G.....	20,000	Do.
J. A. F. Tieck.....	1,600	Do.
Unseld & Koppe.....	800	Men's and women's Goodyear welt.
<b>WEISSENFELS.</b>		
A. Arsand.....	5,000	Men's, women's, youths', and children's Goodyear welt, McKay sewn, and pegged.
E. Blasig G. m. b. H.....	7,500	Men's, women's, youths', and children's McKay sewn and pegged.
Barnutz & Schenk.....	2,000	Youths' and children's McKay sewn.
Herm. Böhme.....	4,500	Men's, women's, youths', and children's McKay sewn and pegged.
R. Dieck.....	5,000	Do.
H. Holze.....	1,200	Do.
Carl Kühn.....	3,000	Do.
Wilh. Mötz.....	1,500	Men's, women's, youths', and children's Goodyear welt, McKay sewn, and pegged.
H. Schlegel.....	3,000	Men's, women's, youths', and children's McKay sewn and pegged.
E. Pretzsch.....	1,200	Do.
O. Feyerabend.....	2,500	Men's, women's, youths', and children's McKay sewn.
F. W. Schieck.....	1,200	Women's, youths', and children's pegged.
C. Hüninger.....	2,000	Youths' and children's pegged.
A. Landmann.....	2,500	Men's, women's, youths', and children's McKay sewn and pegged.
Ernst Schieck.....	1,500	Women's, and children's McKay sewn and pegged.
O. Kallenowsky.....	1,500	Children's pegged.
G. Mendelsohn.....	1,500	Women's and children's McKay sewn and pegged.
Otto Albert.....	1,500	Children's pegged.
<b>OTHER PLACES.</b>		
Franke & Heseler, Artern.....	1,200	Men's, women's, and girls' Goodyear welt. McKay sewn, and pegged; children's Goodyear welt, and youths' McKay sewn and pegged.
G. Engelhardt & Co., Cassel.....	3,000	Men's, women's, youths', and children's Goodyear welt and McKay sewn.

## German shoe manufacturers—Continued.

## ERFURT AND WEISSENFELS DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
OTHER PLACES—Continued.		
C. & A. Hochhuth, Eschwege.	2,400	Men's, women's, and youths' McKay sewn, and pegged.
Ch. Rost, Eschwege.	2,400	Do.
L. Mensing, Eschwege.	500	Do.
A. Günther's Nachf., Göttingen.	900	Men's, women's, youths', and children's McKay sewn and pegged.
A. Fritsche, Halle on the Saale.	1,800	Men's, women's, and youths' Goodyear welt and McKay sewn.
J. Seyfarth, Ilmenau.	200	Men's, women's, youths', and children's McKay sewn.
H. Mäckel, Kirchberg.	400	Men's, women's, youths', and children's McKay sewn and pegged.
Schreiber & Honer, Muhlhausen.	3,600	Men's, women's, and youths' McKay sewn and pegged.
Bühring & Co., Magdeburg.	5,000	Men's, women's, youths', and children's Goodyear welt and McKay sewn.
E. Charles & Sohn, Oschersleben.	5,000	Women's McKay sewn.
Baumann & Malz, Meerane.	2,000	Men's, women's, youths', and children's Goodyear welt, McKay sewn, and pegged.
Lichtenstein Gebr., Meerane.	2,500	Men's, women's, youths', and children's McKay sewn and pegged.
Malz & Sohn, Netzschkau.	2,000	Men's, women's, youths', and children's Goodyear welt and McKay sewn.
J. G. Schaller & Söhne, Schmolln.	3,000	Men's and women's veldtschoen; also wooden shoes.
Petzold, Pfeifer & Co., Schmolln.	3,500	Men's, women's, youths', and children's McKay sewn and felt shoes.
Anton Linzen, Weimar.	400	Men's, women's, youths', and children's McKay sewn and pegged.
Carl Hässner, Weida.	1,000	Men's, women's, and children's McKay sewn and felt shoes.
George Kögel, Weida.	800	Men's, women's, youths', and children's Goodyear welt and McKay sewn.
Selle & Co., Weida.	1,000	Men's and women's McKay sewn and felt shoes.
Richter Gebr., Wilkau.	1,000	Men's, women's, youths', and children's Goodyear welt, McKay sewn, and felt shoes.
Aug. Schmidt, jr., Zorbig.	1,200	Men's, women's, and children's Goodyear welt, McKay sewn, and pegged.

## STUTTGART DISTRICT.

MÜNCHEN.		
Regensteiner Gebr.	2,800	Men's and women's Goodyear welt and McKay sewn.
S. Leiter.	2,400	Men's and women's McKay sewn.
W. Blumgart.	3,600	Men's and women's McKay sewn and felt shoes.
E. & M. Bälersdörfer.	4,000	Men's and women's McKay sewn.
R. Widemann.	1,800	Do.
TUTTLINGEN.		
A. Bartenbach.	600	Men's and women's pegged.
Chr. Binder.	1,000	Do.
Adam Binder.	900	Do.
Karl Binder.	700	Do.
Diehlmann Gebr.	1,500	Men's, women's, and girls' McKay sewn and pegged.
Feineisen & Hechtle.	600	Men's and women's pegged.
M. Graf Söhne.	800	Do.
Haller & Co.	3,000	Men's, women's, and youths' Goodyear welt, McKay sewn, and pegged.
Fr. Häberle.	2,000	Men's, women's, and youths' pegged.
Gustav Henke.	1,200	Do.
Henke Gebr.	2,400	Men's, women's, and girls' McKay sewn and pegged.
J. Henke Söhne.	1,500	Do.
Karl Henke.	900	Men's and women's pegged.
Jakob Henke.	900	Do.
And. Klaiber.	500	Do.
Martin & Mocker.	1,500	Men's, women's, and youths' pegged.
J. G. Martin Söhne.	900	Men's and women's pegged.
Joh. Martin.	800	Do.
J. Martin & Co.	900	Do.
G. W. Martin.	700	Men's, women's, and youths' Goodyear welt, McKay sewn, and pegged.
Lorenz Müller.	400	Men's and women's pegged.
Neipp & Faul.	2,400	Men's, women's, and youths' McKay sewn and pegged.
J. G. Reichle.	6,500	Men's, women's, and youths' pegged.
Rieker & Co.		Men's, women's, and girls' Goodyear welt, McKay sewn, and pegged.

## German shoe manufacturers—Continued.

## STUTTGART DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
<b>TUTTLINGEN—continued.</b>		
B. Stehle.....	1,800	Men's, women's, and youths' pegged.
J. G. Stengelin.....	700	Men's and women's pegged.
Storz & Henke.....	1,800	Men's, women's, and girls' McKay sewn and pegged.
Fr. Trommer & Sohn.....	1,200	Do.
<b>OTHER PLACES.</b>		
Aug. Wessels A. G., Augsburg-Oberhausen.....	50,000	Men's, women's, and girls' Goodyear welt and pegged.
J. Levinger, Augsburg.....	4,500	Men's, women's, and children's veldtschoen.
J. Link & Co., Balingen.....	6,000	Men's and women's McKay sewn and veldtschoen.
C. G. Falkenstein, Balingen.....	1,800	Men's and women's Goodyear welt and McKay sewn.
G. Strassner, Balingen.....	1,800	Men's, women's, and girls' McKay sewn and pegged.
Zeber & Honer, Backnang.....	1,500	Men's, women's, and girls' Goodyear welt and McKay sewn.
G. Herlinger & Sohn, Bietigheim.....	1,200	Men's and women's McKay sewn and pegged.
Otto Mannal, Bietigheim.....	700	Men's, women's, and youths' McKay sewn and pegged.
Hauelsen & Co., Cannstatt.....	1,000	Do.
W. Keller, Bisingen.....	15,000	Men's and women's Goodyear welt.
J. Wanner, Böblingen.....	3,600	Men's and women's McKay sewn.
W. Sparr, Belistein.....	2,400	Men's, women's, and girls' Goodyear welt and McKay sewn.
Kriechl Gebr., Bonndorf.....	500	Men's and women's pegged.
J. Dobelmann, Ditzingen.....	900	Men's and women's McKay sewn.
W. Keller, Ebingen.....	1,200	Men's, women's, and youths' McKay sewn and pegged.
Seitz Gebr., Ebingen.....	5,000	Do.
E. Back, Ebingen.....	2,500	Men's and women's McKay sewn and nailed.
L. Strassner, Eggenfelden.....	2,000	Do.
Heller & Hahn, Eggenfelden.....	2,400	Men's and women's McKay sewn and felt shoes.
F. Albert, Eichstätt.....	1,800	Men's and women's McKay sewn, nailed, and felt shoes.
N. Söhlner, Emmendingen.....	3,000	Men's and women's McKay sewn and veldtschoen.
H. Schäffert, Endingen.....	800	Men's, women's, and youths' McKay sewn and pegged.
Krafft Gebr., Fahrhau.....	800	Men's, women's, and girls' McKay sewn and pegged.
M. & S. Levi, Fahrhau.....	6,000	Men's, women's, and youths' McKay sewn and pegged.
Chr. Bacher, Frickenhausen.....	4,500	Men's, women's, and girls' Goodyear welt and McKay sewn.
R. Wehle, Furth im Walde.....	4,000	Men's, women's, and girls' McKay sewn and nailed.
J. Eith, Geislingen.....	2,400	Men's and women's McKay sewn.
J. Schreiber, Geislingen.....	1,200	Men's, women's, and girls' Goodyear welt and McKay sewn.
Walther & Schluck, Geislingen.....	600	Men's and women's McKay sewn and pegged.
Maute & Hirming, Gammertingen.....	700	Do.
Moos & Rosenthal, Hechingen.....	600	Men's and youths' pegged.
Dieringer & Spannagel, Hechingen.....	2,800	Men's, women's, and youths' McKay sewn and pegged.
Sigle & Co., Kornwestheim.....	3,600	Men's and women's McKay sewn and felt shoes.
J. Schmalzried, Leonberg.....	30,000	Men's and women's Goodyear welt.
Käumlen & Krauss, Leonberg.....	2,400	Men's, women's, and girls' McKay sewn and pegged.
H. Eyrich, Messkirch.....	1,500	Do.
J. Weiß, Mülhausen E.....	1,800	Men's, women's, and girls' McKay sewn and felt shoes.
Binde Gebr., Neuhausen on the Erms.....	1,500	Men's and women's McKay sewn; also sandals.
J. J. Schlager, Reutlingen.....	1,500	Men's and women's pegged.
H. Dinkelacker, Sindelfingen.....	1,800	Men's, women's, and girls' Goodyear welt and McKay sewn.
R. J. Mayer, Schwäb. Gmünd.....	1,200	Men's, women's, and girls' Goodyear welt and pegged.
Johannes Heller G. m. b. H., Schwenningen.....	3,200	Do.
Jakob Bürk, Schwenningen.....	3,500	Men's and youths' McKay sewn and pegged.
George Müller, Schwenningen.....	1,000	Men's and women's pegged.
E. Schiele A. G., Stetten/Hoh.....	1,000	Do.
E. Schiele A. G., Fil., Bohl.....	4,200	Men's, women's, and girls' McKay sewn and pegged.
Wolf & Co., Stetten/Hoh.....	3,600	Men's and women's McKay sewn.
Wolf & Co., Fil., Burladingen.....	6,000	Men's and women's McKay sewn sandals and slippers.
W. Speiss G. m. b. H., Stuttgart.....	3,600	Men's and women's McKay sewn.
	3,000	Men's, women's, and youths' Goodyear welt.

## DÜSSELDORF DISTRICT.

## CLEVE.

Frau H. Janzen.....	400— 500 3,000— 3,500	Children's McKay sewn. Children's turns (handwork).
F. Pannier.....	4,000— 5,000 3,000— 3,500	Children's McKay sewn. Children's turns (handwork).

## German shoe manufacturers—Continued.

## DÜSSELDORF DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
CLEVE—continued.		
Van Leyen Gebr.	2,400- 3,000 1,200- 1,500 2,500- 3,000	Children's McKay sewn. Children's McKay sewn and turns. Children's turns (handwork).
A. V. Offern Nachf.	1,500- 1,800 2,000- 2,500	Children's McKay sewn and turns (handwork). Children's turns.
P. Schneite & Co.	1,500- 1,800 2,000- 2,500	Children's McKay sewn. Children's turns.
Frau W. Mittmann	1,500- 1,800 2,000- 2,500	Children's McKay sewn. Children's turns (handwork).
W. Roggmann	1,500- 1,800 2,000- 2,500	Children's McKay sewn. Children's turns (handwork).
G. Hoffmann	12,000-15,000 4,000- 5,000 4,000- 5,000	Children's McKay sewn. Children's turns (handwork). Children's turns.
W. F. Böhmer	600	Mens' and youths' Goodyear welt.
H. Hunck.	1,200- 1,500 1,500- 1,800	Men's, women's, and youths' turns. Children's McKay sewn. Children's turns (handwork).
SCHNEVERDINGEN.		
H. Meyer	400- 600	Pegged, various.
Pappard & Co.	800- 1,000	Do.
Chr. Röhrs.	1,000- 1,200	Do.
J. H. Maack.	800- 1,000	Do.
F. Schnackenber.	1,800- 2,100	Do.
W. Loose.	400- 600	Do.
OTHER PLACES.		
J. Dües, Ahaus.	2,400- 2,600	Men's and women's McKay sewn.
C. Holst, Altona-Ottensen.	1,800- 2,200	Tacked felt shoes.
L. Vogel, Ahrweiler.	1,500- 1,800	Children's McKay sewn.
Steinhoff & Hürkamp, Ahlen.		Men's and women's pegged.
G. Wirtz, Altmyl.	400- 500	Men's pegged.
J. Tovar, Ahlen.	900- 1,100	Do.
H. Rickert, Barmstedt.	600- 700	Men's and children's heavy pegged.
Bielefelder Schuhfabrik m. b. H., Bielefeld.	400- 500	Men's and women's Goodyear welt.
A. Meinert, Bielefeld.	800- 1,000	Men's, women's, and youths' Goodyear welt and McKay sewn.
H. F. Meyer, Bremen.	1,500- 1,800	Men's and youths' Goodyear welt.
Forst & Pulvermacher, Burtscheid.	300- 400	Men's and youths' McKay sewn.
L. Frankenstein, Burscheid.	600- 750	Women's, ball, and patent leather McKay sewn.
J. Bödding, G. m. b. H., Burgsteinfurt.	3,000- 3,300	Women's and ball McKay sewn.
C. Scheuermann, Bochum.	2,500- 3,000	Tacked.
Rollmann & Mayer, Cöln-Nippes.	500- 600	
Rollman & Engels, Cöln.		Felt shoes (prison work).
Pohling & Co., Cöln.		Ball McKay sewn.
A. Viereck, Cöln.	1,000- 1,200	Gymnastic McKay sewn.
W. Morschies & Co., Crefeld.	600	Tennis McKay sewn.
J. Peters Söhne, Crefeld.	3,000- 3,500	Camel's-hair felt shoes.
P. Wilms, Dalheim.	4,000- 4,500	Veldtschoen (stitchdowns).
P. J. Schmitz, Düsseldorf.	5,000	Ball, gymnastic, etc., McKay sewn.
Hassenpflug & Schmidt, Elberfeld.	4,000- 5,000	Do.
E. Peters, Emmerich.	2,500- 3,000	Tacked felt shoes.
J. Krenen, Erkelenz.	900- 1,100	Men's and women's McKay sewn.
W. Sternfeld, Goch.	200- 300	Men's and women's Goodyear welt.
J. Völling, Goch.	200- 300	Men's and women's McKay sewn.
J. Nöhlhics, Gerderath.	2,500- 3,000	Do.
Martin Mendel G. m. b. H., Glückstadt.	700	Men's, women's, and youths' Goodyear welt.
D. Nordheim, Geldern.	300	Men's, women's, and youths' McKay sewn.
Carl Cain, Geldern.	300- 350	Men's, women's, and girls' Goodyear welt.
Pigge & Marquard, Hameln.	300- 350	Men's, women's, and girls' McKay sewn.
Forst & Pulvernacher, Hellenbrunn.	500- 600	Men's and women's McKay sewn.
F. Rinne, Hess. Oldendorf.	400- 600	Men's, women's, and youths' McKay sewn.
Multhaupt Gebr., Hildenheim.	4,000- 5,000	Men's and youths' McKay sewn.
	1,200- 1,500	Do.
	500- 600	Men's, women's, and youths' heavy pegged.
	900- 1,100	Men's and youths' heavy pegged.
	1,800- 2,100	Other kinds.
	600- 700	Tacked felt shoes.
	10,000-12,000	Men's and women's McKay sewn.
	1,800- 2,100	Other kinds.
	600- 900	Men's, women's, and youths' McKay sewn.
	1,000- 1,200	Do.
	1,800- 2,400	Men's, women's, and youths' McKay sewn.

## German shoe manufacturers—Continued.

## DÜSSELDORF DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
OTHER PLACES—continued.		
Nordstern G. m. b. H., Hildesheim.	200- 300	Men's and women's Goodyear welt.
Von der Heide Gebr., Kamen.	500- 600	Men's, women's, and youths' McKay sewn.
C. Henter, Kamen.	1, 200-1, 800	Do.
Niederrheinische Schuhfabrik G. m. b. H., Kervenheim.	400- 600	Men's and women's McKay sewn.
Terhoeven Söhne, Kevelaer.	1, 500-1, 800	Men's, women's, and youths' McKay sewn.
C. H. Hünnikes, Kevelaer.	400- 600	Do.
Geschw. Bergmann, Kevelaer.	900-1, 100	Do.
W. Krohn, Krempe.	600- 700	Do.
F. Drenhaus, Linden.	400- 500	Men's and youths' McKay sewn.
W. Conrads, Lövenich.	1, 200-1, 500	Do.
H. Vogels, M. Gladbach.	700- 900	Men's, women's, and youths' McKay sewn.
Vieten Wienand, M. Gladbach.	2, 100-2, 400	Men's and youths' McKay sewn.
W. Krohn, Krempe.	300	Men's and women's McKay sewn.
Jacob Heck, M. Gladbach.	600- 700	Men's, women's, and youths' McKay sewn.
Decker & Co., Nachf., Mülfort.	1, 500-1, 800	Do.
H. Prenzler & Sohn, Osnabrück.	700- 900	Men's and women's McKay sewn.
M. Auerbach, Paderborn.	2, 700-3, 000	Men's and youths' heavy pegged.
Zurwonne Gebr., Soest.	1, 000-1, 200	Men's, youths', and girls' McKay sewn.
Rheinische Sandalen Fabrik G. m. b. H., Stüchteln.	300	Football McKay sewn.
P. M. Tawwel, Straelen.	1, 800-2, 000	McKay-sewn sandals.
J. W. Dorn vor. C. Berthold, Unna.	400- 600	Men's and youths' McKay sewn.
C. Frese, Uetersen.	400- 600	Men's, women's, and youths' McKay sewn.
F. W. Giesecke, Peine.	200- 300	Do.
C. Hundt, Peine.	400- 500	Men's, women's, and youths' Goodyear welt.
H. Kerkhoff & Söhne, Uedem.	300- 400	Men's, women's, and youths' McKay sewn.
F. Winkins, Rathheim.	1, 500-1, 700	Men's and youths' McKay sewn and pegged (heavy).
J. Vossen, Rath.	900-1, 100	Men's and youths' McKay sewn.
L. Stern & Co., Rheydt.	600- 800	Men's, women's, youths', and children's McKay sewn.
Seuwen Gebr., Rheydt.	2, 500-3, 000	Men's and youths' McKay sewn.
B. Krippehl & Co., Rheydt.	1, 500-1, 800	Do.
Scheulen & Rees, Rheydt.	1, 200-1, 500	Do.
C. Breidling & Sohn, Soltau.	1, 800-2, 100	Do.
Twenhöfel, Varel.	600	Men's, women's, and youths' Goodyear welt.
A. Flöring, Wermelskirchen.	1, 500-1, 800	Men's, women's, and youths' McKay sewn.
Iserhardt & Kattwinkel, Wermelskirchen.	400- 500	Various heavy pegged.
A. Nippel, Wermelskirchen.	3, 500-4, 200	Men's, women's, and youths' McKay sewn.
R. & A. Pfeiffer, Wermelskirchen.	400- 500	Men's and women's Goodyear welt.
P. Laermann, Wetten.	1, 200-1, 400	Men's and women's McKay sewn.
J. Kosters, Wetten.	300- 400	Men's and women's Goodyear welt.
Schuster & Zimmer, Wickrath.	600- 700	Men's, women's, and youths' McKay sewn.
G. Stinshoff, Witten.	200- 250	Men's, women's, and youths' Goodyear welt and McKay sewn.
F. W. Böhmer, Xanten.	500- 600	Various pegged, heavy handwork.
	1, 000-1, 200	Men's, women's, youths', and children's McKay sewn.
	600	Men's, women's, and youths' McKay sewn.
	1, 800	Men's, women's, and youths' McKay sewn.

## FRANKFORT ON THE MAIN DISTRICT.

BURGKUNDSTADT.		
P. Pretzfelder.	1, 000-1, 300	Men's McKay sewn and pegged.
H. Püls.	3, 000	Men's and women's McKay sewn and pegged.
Pretzfelder & Rieixinger.	3, 000	Do.
Iglauer & Co.	900-1, 000	Men's, women's, youths', and children's McKay sewn and pegged.
J. Weiermann, A. G.	1, 000	Men's and women's Goodyear welt.
DETTWEILER.	2, 500	Men's and women's McKay sewn and pegged.
Levy Frères & Co.	900-1, 000	Men's and women's McKay sewn and pegged.
A. Roth.	1, 800-2, 000	Men's and women's McKay sewn and pegged, heavy.
Schirmer-Haas.	150- 200	Do.
Schmitt-Huber.	500- 600	Do.
G. Vogel, G. m. b. H.	2, 500-3, 000	Do.
G. Zimmermann.	1, 000-1, 200	Do.

## German shoe manufacturers—Continued.

## FRANKFORT ON THE MAIN DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
<b>FRANKFORT ON THE MAIN.</b>		
Schuhfabrik Herz A. G. ....	6,000 900 600- 800	Men's, women's, and children's Goodyear welt. Men's, women's, and children's McKay sewn. Men's, women's, youths', and children's turns.
Goldschmidt & Poewenick....	20,000 3,000 500	Men's, women's, and children's felt shoes. McKay sewn slippers. Turned slippers (handwork).
R. & W. Nathan.....	1,500- 1,800 1,200 1,300	Women's, girls', youths', and children's turns. Women's, girls', youths', and children's McKay sewn. Children's turns; some handwork.
J. & C. A. Schneider.....		
<b>OFFENBACH.</b>		
H. Heroux.....	1,500- 1,800	Men's and women's Goodyear welt and McKay sewn.
E. Liebmann.....	3,000	All kinds Goodyear welt.
H. Liebmann.....	1,800- 2,000	Men's and women's Goodyear welt and McKay sewn.
Ochsenhirt & Behrens.....	12,000-15,000	Do.
Herm. Peters.....	1,200 900	Men's and women's Goodyear welt. Men's and women's McKay sewn.
Union G. m. b. H. ....	1,800	Men's and women's Goodyear welt and McKay sewn.
E. Wallerstein.....	7,000 300	Men's, women's, and children's Goodyear welt. Women's turns.
<b>OTHER PLACES.</b>		
Aug. Gotz, Alzey.....	3,000- 3,500	Men's pegged.
E. Hudelmaier Alzey.....	4,000- 4,500 800- 900 600	Do. Men's, women's, youths', and children's Goodyear welt. Men's, women's, youths', and children's McKay sewn.
Manz A. G., Bamberg.....	4,500- 5,000 350 4,000	Men's, women's, youths', and children's McKay sewn, pegged, and veldtschoen. Men's McKay sewn. Felt slippers.
Neuburger Gebr., Bamberg.....	3,000- 3,500 2,500 1,500 4,000	McKay sewn slippers. Do. Men's, women's, youths', and children's pegged. McKay sewn and pegged slippers.
W. Spahr, Beilstein.....	1,500- 1,800	Men's, women's, youths', and children's heavy pegged.
R. & L. Weyl, Benfeld.....	300- 400	Men's and women's McKay sewn and pegged.
L. Weil & Co., Bischweiler.....	1,200- 1,500 1,000	Men's and women's heavy pegged. Pegged slippers.
C. Bühler, Bischweiler.....	1,500- 1,800	Men's and women's turned slippers (handwork).
G. P. Groll, Bretten.....	1,500- 1,800 1,000	Men's and women's Goodyear welt and pegged; also sport- ing boots.
A. Sulzberger & Sohn, Bruschal	1,500- 1,800	Men's and women's pegged slippers.
Rumpf & Sohn, Butzbach.....	300- 400	Do.
H. Dreher, Butzbach.....	1,200- 1,500	Do.
J. Kronenbusch, Cona a. S. ....	1,000	Do.
Poster & Dehmer, Hainstadt.....	1,500- 1,800	Men's and women's McKay sewn and pegged.
W. Wachsmuth, Hanau.....	1,500- 1,800	Men's and women's Goodyear welt and pegged.
Herm. Wilz, Heidelberg- Schlierbach.....	8,000-10,000 4,000 3,000 2,000	Men's and women's heavy pegged. Pegged slippers. Men's and women's McKay sewn and pegged slippers.
Neff & Schelle, Heilbronn.....	3,000- 3,500	Men's and women's McKay sewn and pegged slippers.
Falk Siegel, Heilbronn.....	3,000- 3,500	Men's and women's McKay sewn and pegged slippers.
Fr. Weber, Heilbronn.....	6,000 2,000	McKay sewn slippers and sandals.
Schwarzwälder & Wolf, Heil- bronn.....	6,000 2,000	Pegged sandals.
Conr. Schürr, Herzogenaur- ach.....	3,000- 3,500	Men's and women's pegged slippers.
Heinr. Schürr, Herzogen- aurach.....	3,000- 3,500	Men's and women's McKay sewn and pegged slippers.
Ver. Fränkische Schuhfabri- ken, Herzogenaurach.....	6,000 2,000 3,000 4,000	Men's and women's McKay sewn and pegged.
A. J. May, Kronach.....	3,000- 3,500 600- 800 600- 800	Men's, women's, youths', and children's McKay sewn and pegged.
Coblitz & Waltgenbach, Kircheinbolanden.....	1,800- 2,000	Men's and women's Goodyear welt.
Th. Meller & Co., Bockenheim	1,500- 1,800	Men's and women's McKay sewn.
Breunig & Collin, Oberrad.....	1,500- 1,800	Men's and women's Goodyear welt and McKay sewn.
Metzger & Süssespeck, Forth. ....	1,500- 1,800	Men's and women's McKay sewn and pegged.
S. Schloss & Co., Fuerth.....	1,500- 1,800	Men's, women's, and youths' McKay sewn and pegged; also sandals.
J. Weil, Fuerth.....	3,000 3,000 6,000 3,000 3,000 1,200	Women's McKay sewn. Felt slippers. McKay sewn sandals. Men's, women's, and children's veldtschoen. Children's McKay sewn.
Ver. Fränkische Schuhfabri- ken, Fuerth.....	1,500- 1,800 1,200- 1,400 6,000- 8,000 1,200- 1,500 1,500- 1,800 1,500- 1,800	Men's and women's McKay sewn and pegged.
H. Munder, Künselsau.....	400	All kinds McKay sewn and pegged.
Nilsen Gebr., Ladenburg.....	500	Men's and women's pegged slippers (prison work).
J. Heinsheimer, Mannheim.....	400	Men's and women's McKay sewn.
Eichbaum & Co., Mainz.....	500	Men's and women's Goodyear welt.
Emil Weis, Mainz.....	400	Men's and women's McKay sewn.
S. Wolf, Mainz.....	500	Men's and women's turns.
L. Streitz Söhne, Marnheim.....	2,000- 2,500	Wooden shoes.

## German shoe manufacturers—Continued.

## FRANKFORT ON THE MAIN DISTRICT—Continued.

Names of firms.	Pairs.	Class of work.
OTHER PLACES—continued.		
Legris Frères Nachf., Metz.	1,800- 2,000	All kinds McKay sewn and pegged.
A. Legris & Fils, Metz.	1,200- 1,500	Do.
L. Maujean, Metz.	3,000	Do.
Seifert & Kloeber, Naila.	400	Men's and women's Goodyear welt.
O. Tamm & Co., Naila.	6,000- 6,500	Men's and women's McKay sewn, pegged, and felt shoes.
A. Bieringer & Co., Nürnberg	1,500	Men's and women's heavy pegged.
L. Heimann & Co., G. m. b. H., Nürnberg.	1,800- 2,000	Men's and women's McKay sewn and pegged.
Ver. Fränkische Schuhfabriken, Nürnberg.	3,000	Mens, women's, and children's Goodyear welt, McKay sewn, and pegged.
J. Einstein, Oehringen.	50,000-60,000	Men's and women's Goodyear welt, and all kinds McKay sewn, turned, and pegged.
Muller & Heinz, Presseck.	1,800	Men's and women's pegged slippers.
J. Ott, Fresseck.	250- 300	Men's and women's McKay sewn and pegged.
Von Arnim, Rehau.	900	Men's and women's; cheap articles.
Wolf & Co., Sontheim-Heilbronn.	10,000	Do.
E. Heimann, Schweinfurt.	1,000	All kinds McKay sewn and pegged, including some sandals.
	2,000	Men's and women's Goodyear welt.
Silberstein & Neumann, Schweinfurt.	1,800- 2,000	Men's and women's McKay sewn and pegged; some sandals.
George Roth, Schweinfurt.	1,200	Men's, women's, and children's Goodyear welt, McKay sewn, and pegged.
Ver. Leder & Schuhfabriken, Woelsloch.	2,000	Men's, women's, and children's McKay sewn and pegged.

## DRESDEN DISTRICT.

DRESDEN.		
Paul Eberle.	200	Men's and women's Goodyear welt.
	1,500	Men's and women's McKay sewn.
	500	Men's and women's pegged.
Carl Heysing.	1,500	Men's and women's McKay sewn.
	1,200	Men's and women's turns (hand and home work).
E. Heimann.	2,000	Children's McKay sewn.
	1,200	Children's turns.
E. Hammer G. m. b. H.	1,200	Children's turns (handwork).
	3,600	Men's and women's Goodyear welt.
	4,500	Men's and women's McKay sewn.
	1,200	Men's and women's turns.
	6,000	Men's and women's turns (handwork).
Paul Lösch.	800	Men's and women's McKay sewn.
	400	Men's and women's pegged.
Van Leyan.	1,200	Children's turns (handwork).
Müller & Sprung.	1,500	Men's and women's Goodyear welt.
	1,200	Men's and women's McKay sewn.
	1,200	Men's and women's veldtschoen.
H. Pampel.	100	Men's and women's Goodyear welt.
	900	Men's and women's McKay sewn.
	200	Men's and women's turns (handwork).
Nierth & Helbig.	100	Men's and women's Goodyear welt.
	600	Men's and women's McKay sewn.
	200	Men's and women's turns (handwork).
L. & I. Salinger.	600	Men's and women's McKay sewn.
Carl Silbermann.	1,800	Men's and women's felt shoes.
C. Treibmann & Sohn.	200	Men's and women's Goodyear welt.
	1,200	Men's and women's McKay sewn.
	300	Men's and women's pegged.
	300	Men's and women's turns.
EHRENFRIEDERSDORF.		
A. Atmanspacher.	1,800	Men's and women's Goodyear welt.
	1,200	Men's and women's McKay sewn.
	300	Men's and women's pegged.
Carl Franke.	500	Men's and women's Goodyear welt.
	1,200	Men's and women's McKay sewn.
	300	Men's and women's pegged.
Carl Helbig.	500	Men's and women's McKay sewn.
	500	Men's and women's pegged.
A. Hillig.	300	Men's and women's McKay sewn.
	300	Men's and women's pegged.
Hillig & Fischer.	250	Men's and women's McKay sewn.
	250	Men's and women's pegged.

## German shoe manufacturers—Continued.

## DRESDEN DISTRICT—Continued.

Names of firms.	Pairs per week.	Class of work.
EHRENFRIEDERSDORF—CON.		
Münch & Reuther.....	200	Men's and women's McKay sewn.
	200	Men's and women's pegged.
A. Rockstroh.....	200	Men's and women's McKay sewn.
	200	Men's and women's pegged.
GROITZSCH.		
Götze & Fischer.....	900	Men's and women's Goodyear welt.
	1,200	Men's and women's McKay sewn.
	200	Men's and women's turns.
O. & E. Kalischer.....	1,500	Men's and women's Goodyear welt.
	800	Men's and women's McKay sewn.
Domhardt & Co.....	1,200	Do.
R. Gutzschhahn.....	1,000	Do.
	200	Men's and women's pegged.
A. Heine.....	100	Men's and women's Goodyear welt.
	900	Men's and women's McKay sewn.
	300	Men's and women's pegged.
ROSSWEIN.		
L. Stadler.....	120	Men's and women's Goodyear welt.
	600	Men's and women's McKay sewn.
	300	Men's and women's pegged and turns.
	1,000	Men's and women's turns.
	1,000	Men's and women's felt shoes.
	4,500	Children's McKay sewn.
A. Heller.....	10,000	Children's turns.
Carl Fuchs.....	220	Men's and women's Goodyear welt.
	1,500	Men's and women's McKay sewn.
	300	Men's and women's pegged.
Schulze & Ulbricht Nachf....	1,000	Men's and women's turns and pegged.
	120	Men's and women's Goodyear welt.
	800	Men's and women's McKay sewn.
	300	Men's and women's pegged.
SEIFHENNERSDORF.		
A. Oppelt.....	400	Men's and women's McKay sewn.
	200	Men's and women's pegged.
R. Masslich.....	3,000	Men's and women's felt shoes.
	700	Men's and women's McKay sewn.
	500	Men's and women's pegged.
C. G. Michel.....	2,000	Men's and women's felt shoes.
Paul Mehlich.....	2,500	Do.
	2,000	Do.
WALDHEIM.		
Wernigk & Co.....	1,000	Men's and women's Goodyear welt.
Trüschel & Schubert.....	200	Men's and women's McKay sewn.
	500	Men's and women's pegged.
Schön & Schmidt.....	1,000	Men's and women's Goodyear welt.
	100	Men's and women's McKay sewn.
R. Gärditz.....	1,400	Do.
OTHER PLACES.		
Büttner & Co., Elterlein.....	400	Men's and women's turns (handwork).
Haug & Leonhardt, Eppendorf.....	9,000	Men's and women's McKay sewn.
	12,000	Men's and women's pegged.
F. Wetzel & Sohn, Freiberg.....	1,200	Men's and women's veldtschoen.
Rau & Vogel, Gr. Hartau.....	600	Men's and women's McKay sewn.
J. Fein & Söhne, Hartha.....	800	Men's and women's pegged.
H. Müller, Hartha.....	5,000	Men's and women's felt shoes.
Paul Otto, Hartha.....	2,000	Do.
Burckhardt & Sohn, Leipzig.....	1,500	Do.
Zehl & Co., Leisnig.....	1,200	Men's and women's Goodyear welt.
	800	Men's and women's McKay sewn.
	150	Men's and women's Goodyear welt.
	800	Men's and women's McKay sewn.
	500	Men's and women's pegged.
Nedon Gebr., Löbau.....	1,200	Men's and women's McKay sewn.
Auerswald & Sauerbrunn, Lössnitz.....	10,000	Men's and women's felt shoes.
	400	Men's and women's Goodyear welt.
	900	Men's and women's McKay sewn.
	500	Men's and women's pegged.
Gerber & Müller, Lössnitz.....	12,000	Children's McKay sewn.
	6,000	Children's pegged.
	18,000	Children's turns (handwork).

## German shoe manufacturers—Continued.

## DRESDEN DISTRICT—Concluded.

Names of firms.	Pairs per week.	Class of work.
OTHER PLACES—continued.		
Joh. Gessner, Lössnitz.....	1,000	Men's and women's turns (handwork).
Berkowitz, Heyl & Co., Lucka.....	1,000	Men's and women's Goodyear welt.
Preuss & Möbius, Meissen.....	800	Men's and women's McKay sewn.
Herm. Möbius, Meissen.....	1,000	Men's and women's Goodyear welt.
Weichold & Sohn, Mittweida.....	900	Men's and women's McKay sewn.
Schurig & Prüfer, Mügeln.....	1,200	Men's and women's Goodyear welt.
Gocht & Co., Neugersdorf.....	1,200	Men's and women's McKay sewn.
P. Herrlich, Oschatz.....	1,800	Men's and women's turns.
A. Marthaus, Oschatz.....	300	Men's and women's felt shoes.
A. Kunze Nachf., Oschatz.....	2,500	Men's and women's McKay sewn.
F. Dietzsch, Pegau.....	400	Men's and women's pegged.
F. Fischer, Pegau.....	500	Men's and women's felt shoes.
R. Ninchritz, Pegau.....	2,000	Men's and women's Do.
Herm. Löser, Rochlitz.....	6,000	Men's and women's McKay sewn.
Herm. Thieme, Rochlitz.....	2,000	Men's and women's pegged.
Höfer & Hockemeyer, Siebenlehn.....	150	Men's and women's turns.
Krug & Co., Stellberg.....	900	Men's and women's Goodyear welt.
Moritz Schubert, Thum.....	300	Men's and women's pegged.
A. Herrmann, Wolkenstein.....	300	Men's and women's McKay sewn.
A. Trommler, Zwönitz.....	10,000	Men's and women's turns.
	1,000	Men's and women's felt shoes.
	400	Men's and women's McKay sewn.
	500	Men's and women's pegged.
	600	Men's and women's McKay sewn.
	150	Men's and women's Goodyear welt.
	600	Men's and women's McKay sewn.
	300	Men's and women's pegged.
	300	Men's and women's McKay sewn.
	1,100	Men's and women's Goodyear welt.
	800	Children's McKay sewn.
	1,200	Children's turns (handwork).
	300	Men's and women's McKay sewn.
	200	Men's and women's pegged.
	300	Men's and women's McKay sewn.
	300	Men's and women's pegged.
	18,000	Children's McKay sewn.
	4,000	Children's pegged.
	15,000	Children's turns (handwork).

## BERLIN DISTRICT.

BERLIN.		
Gg. Beck.....	600	Men's and women's turns.
J. Goldmann.....	1,500	Men's and women's turns; also felt shoes.
H. Hintze Nachf.....	1,500	Men's and women's turns.
J. Jacobius & Söhne Nachf.....	2,400	Men's and women's felt shoes.
Max Klug.....	3,600	Men's and women's McKay sewn.
Muller & Schlizweg.....	1,800	Men's and women's McKay sewn.
E. Pinner Nachf.....	1,500	Men's and women's turns; also men's and women's McKay sewn and felt shoes.
S. Rosenberg & Rötschke.....	3,600	Men's and women's McKay sewn.
A. Schweiger.....	5,000	Men's and women's felt shoes.
Silberberg Gebr.....	8,000	Turned slippers and ball shoes.
OTHER PLACES.		
H. Jacobowski, Rixdorf-B.....	4,000	Men's and women's McKay sewn.
Reh & Prädel, Britz-B.....	4,000	Men's and women's turns and felt shoes.
J. Brilles, Bromberg.....	1,500	Men's and women's turns; also men's and women's McKay sewn.
V. Weynerowski & Sohn, Bromberg.....	800-900	Men's and women's turns.
O. Sally & Co., Frankfort on the Oder.....	6,000	Gymnastic McKay sewn.
P. Schlesinger, Frankfort on the Oder.....	2,000	Men's and women's McKay sewn.
	900	Do.
	700	Men's and women's Goodyear welt.
	900	Men's and women's McKay sewn.
	300	Gymnastic McKay sewn.
	300	Men's and women's veldtschoen.
	2,400	Men's and women's McKay sewn.
	18,000	McKay-sewn slippers.
	900	Men's and women's Goodyear welt.
	900	Men's and women's McKay sewn.
	700	Men's and women's Goodyear welt.
	1,400	Men's and women's McKay sewn.

*German shoe manufacturers—Concluded.*

## BERLIN DISTRICT—Concluded.

Names of firms.	Pairs per week.	Class of work.
<b>OTHER PLACES—concluded.</b>		
Senger & Stockwald, Furstenwalde.	1,200	Men's and women's turns.
	2,500- 3,000	Men's and women's McKay sewn.
B. Wiener, Hohensalza.	700	Men's and women's pegged.
Haase Russ, Nowawes.	6,000	Men's and women's McKay sewn.
R. Sieburth Söhne, Posen.	600	Men's and women's Goodyear welt.
W. Zablocki, Posen.	800	Men's and women's pegged.
H. Schliewe, Storkow.	250	Men's and women's Goodyear welt.
P. Lainga, Strausberg.	3,600	Men's and women's McKay sewn.
	350	Men's and women's Goodyear welt.
M. Tack, Strausberg.	350	Men's and women's McKay sewn.
Vater Gebr., Strausberg.	1,500	Men's and women's Goodyear welt.
W. Gottheimer, Breslau.	1,500	Men's and women's McKay sewn.
Kaempfle & Latsch, Breslau.	600	Men's and women's Goodyear welt.
M. Wohlauer, Breslau.	1,000	Men's and women's McKay sewn.
Ertel & Scholz, Glatz.	700	Men's and women's pegged.
Rosenstein & Prerauer, Landschut.	1,200	Men's and women's McKay sewn.
M. Wieluner, Liegnitz.	3,000	Men's and women's Goodyear welt.
G. Klemm, Oels i. Sch.	300	Men's and women's McKay sewn.
E. Frankel's Nachf., Ratibor.	2,000	Men's and women's Goodyear welt.
	700- 800	Do.
	3,000	Men's and women's McKay sewn.
	1,500- 1,800	Do.
	12,000	Men's and women's McKay sewn and felt shoes.
	800- 900	Men's and women's McKay sewn and Goodyear welt.

