

Encyclopedia of
Manufacturer's Marks
on Glass Containers
H-I

Compiled and Edited by
The Bottle Research Group

© Bill Lockhart 2016

Although we have placed a copyright on this material, Bill Lockhart and the Bottle Research Group grant everyone the right to use our research. We only request that you cite us and this volume in any reuse of the material.

Preface to the Encyclopedia of Manufacturer's Marks on Glass Containers H-I

The purpose of this encyclopedia is to update the venerable (and outdated) classic *Bottle Makers and Their Marks*, published by Julian Harrison Toulouse in 1971. Toulouse did a fantastic job, using the available technology of the 1960s. Much of his information came in the form of letters – now frequently referred to as snail-mail – generally handwritten and filled with semi-accurate or inaccurate information. It is remarkable how well he was able to create his 625-page study. However, that study is 45 years old in 2016. It is time for an update.

Background

The Bottle Research Group (BRG) is a consortium of archaeologists and other interested researchers dedicated to the study of glass containers. Our origins date to some point in 2002, when Bill Lindsey e-mailed Bill Lockhart, wanting to share information about bottles. The two rapidly became friends. Carol Serr first contacted Lockhart on August 8, 2003, because one of Lockhart's e-books contained the only example of a Clysmic bottle Serr could find online. On March 4, 2004, the three began group discussions about bottles.

Although the focus of the three researchers was very general, Lockhart, conducting research on soda bottles in El Paso, Texas, had become concerned because there was no information on the T-in-a-keystone logo that he was finding on El Paso bottles. Toulouse was silent on the subject, and none of the other publications about bottle markings offered any information. After considerable searching, Lockhart published an article on the Keystone-T logo and other marks used by the Knox Glass Bottle Co. After reading the article, David Whitten – a collector, researcher, and owner of a website about glass manufacturer's marks – joined the BRG on March 19, 2004. Whitten withdrew from the group in August 2005 to deal with other interests, although he has remained a contributor, and his manufacturer's mark website continues to be one of the best quick-reference sites on the subject.

After discussing bottles with Carol Serr for some time, Pete Schulz joined the BRG on October 21, 2005. By this time, the BRG was having regular annual field trips and had concentrated on the study of manufacturer's marks. The researchers officially adopted the title of the Bottle Research Group in 2006. In March 2010, Schulz suffered a disabling stroke and had to become inactive in the group. As of 2016, Schulz remains inactive, and his presence is sorely missed.

On July 28, 2010, Beau Schriever e-mailed Lockhart to discuss Clorox bottles. Schriever hosted Lockhart (and his wife, Wanda Wakkinen) for a tour of a Fort Bayard, New Mexico, trash dump from November 23-25, 2010. On January 22, 2011, Schriever became a member of the BRG. The four continue to comprise the core group of the BRG.

The actual picture, however, is *much* larger. The BRG has developed a huge network of contributors, who may only supply information about a single bottle, jar or factory – or who may regularly or sporadically contribute information. Throughout this encyclopedia, we have recognized most of these outstanding helpers as coauthors or contributors by citing specific contributions and/or by thanking them in the “Acknowledgments” areas of each chapter. We can attribute the quality and quantity of our information to this group of well over 200 archaeologists, collectors, historians, and just plain folks who find bottles – who share their knowledge and expertise with us.

Earlier, we mentioned the limitations that Toulouse worked under as he amassed his data during the 1960s. Because Toulouse worked in the glass industry (Owens-Illinois Glass Co.), he had access to many of the trade journals and a working knowledge of the players in the glass game at the time. In addition, he belonged to the glass collector's network begun by May Jones (first in California, then in Nara Visa, New Mexico). Through Jones, Toulouse received input via letters from collectors all over the U.S.

We have a tremendously expanded network and access to sources. Internet searches open vast vistas that were unknown 40 years ago, especially into the realm of scanned books and articles, archaeological networks, online newspaper databases, and collectors' websites. One of the amazing things about the internet is that new venues appear almost daily. In addition, through the medium of e-mail and listserves, we are in contact with literally hundreds of

archaeologists, collectors, historians, historical societies, museums, and just interested people. We can scan photos and drawings and capture photos from featured websites, eBay, and other online auctions. We are also in touch with professionals in today's glass industry and numerous authors and researchers. In short, we have hundreds of resources that were unavailable in the days of Toulouse.

How to Use this Encyclopedia

The Encyclopedia is divided into letter sections (A, B, C, etc.) with some combinations (e.g., the H-I section). Each of these letter sections contains a series of titles, usually the name of a glass manufacturer or a family name (e.g., the Hermann Heye Glasfabrik or the Hamilton Family Glass Companies). Occasionally, the title will reflect a logo that was used by more than one glass house (e.g., The Great Holt Myth: A Study of Misidentification). Titles were also selected according to the way the *glass firm* styled itself. For example, Henry W. Putnam will be found in the "H-I" section – rather than the "P" section.

There is *no* classification system that will work perfectly for assigning positions for either glass factories or manufacturer's marks. To help our readers locate information, we have provided two tables (each in its own file or chapter – depending on whether you are using the printed or online format). The first table is a list of all factories found within a specific letter section. For example, the factory list in the "H-I" section includes intuitively obvious plants, such as the Hamilton Glass Co., Hazel-Atlas Glass Co., and the Illinois Glass Co. However, it also includes derivative factories, including Atlas Glass Co., Hazel Glass Co., and the Republic Glass Co., all eventually leading to the Hazel-Atlas Glass Co. – and counterintuitive names like Gerreshimer Glas (an offshoot of the Hermann Heye Glasfabrik), or the C. Ihmsen & Sons (a forerunner of the Ihmsen Glass Mfg. Co.). Each listing will direct the reader to the individual chapter where a discussion of the glass plant is found (e.g., the Owens-Illinois Pacific Glass Co. is discussed in the Illinois-Pacific Glass Co. chapter).

A second table will direct the reader to specific chapters that discuss individual maker's marks. For example, the H-over-A mark will be discussed in the Hazel-Atlas Glass Co. chapter. The IGC logo shows up in both the Illinois Glass Co. *and* the Ihmsen Family Glasshouse chapters – as well as others. A search in the "L" table will reveal that jars embossed "LIGHTNING" are discussed in the Henry W. Putnam section – located in the "H-I" section.

Other Important Information

Information locked into glass containers is *not* limited to manufacturer's marks, of course. The glass house logos are always related to the type of container, sometimes the color, the manufacturing techniques involved, and other codes. We have tried to address all of these variables in our discussions of marks.

The logos themselves are also much more complex than Toulouse (and most other researchers) indicated. For example, various shapes can tell us things about both time and company. In most 19th century beer bottles, for example, the "o" in "Co" can be regular or superscript, usually with an underline (e.g., MGCo or MGC^o). The superscript is consistently earlier in bottles made by most glass houses of the period. Marks used by the Streater Bottle & Glass Co. were made in several formats, each with its temporal association; it is important to know what shape was used as well as the S.B.&G.Co initials. A Circle-A logo on a bottle that was mouth-blown into a mold was used by the Richmond plant of the American Glass Co. before 1920, while the same mark on a machine-made bottle was used by the Armstrong Cork Co. from 1938 to 1969.

The other codes on the bottles may often be useful. Although mold codes on 19th century beer bottles and some other styles can give us a sense of a bottle's age, they become increasingly less helpful as we move into the machine era. Some companies with multiple factories also used factory codes. Where applicable, we have discussed these. Some numbers are catalog or model codes. These can identify in some cases what the bottle or jar looked like – even if only a fairly small fragment is available.

Of greatest importance, the American Bottle Co. began using date codes on some of its bottles in 1906. A few breweries and soda bottlers had included four-digit date codes on their bottles during the last half of the 19th century, but these were scarce. Once the American Bottle Co. began using first one-digit then two-digit date codes, it began a trend that others quickly emulated. By 1930, most soda and milk bottles included date codes. In 1934, federal law mandated date codes on all bottles made to contain liquor. We have included a discussion of date (and other) codes whenever applicable. We hope that our format and information will provide a useful tool for dating and bottle identification.

Volume H-I

The Bottle Research Group

(In order by membership date)

Bill Lockhart, Bill Lindsey, Carol Serr
Pete Schulz, and Beau Schriever

With Contributions by

Tod von Mechow, Laurah Brown, Bill Baab,
Barry Bernas, and Al Morin

Table of Contents

Volume H-I

Preface.	iii
Table of Contents.	x

Logos and Glass Houses

Glass Firms of the Hagerty Brothers.	1
Histories.	1
Jobbers.	1
Hagerty & Lear.	1
B. & J. Hagerty.	1
Hagerty Brothers.	1
Hagerty Brothers & Co.	1
Glass Houses.	2
Hamilton Glass Works.	2
Brooklyn Green Glass Works.	2
Hagerty Glass Works.	2
Containers and Marks.	4
HAMILTON GLASS WORKS, N.Y..	4
HB.	5
H-B.	5
HB Monogram.	6
H.B.CO.	6
H.B.&.CO.	7
HB&CO in three ring.	9
HAGERTYS GLASS WORKS.	9
HAGERTY.	9
Discussion and Conclusions.	10
Sources.	10
The Hamilton Family Glass Companies.	13

Genealogy of the Hamiltons.	13
Histories.	14
Lorenz & Hamilton, Elizabeth, Pennsylvania.	14
W. Hamilton & Co., Pittsburgh, Pennsylvania.	14
W. Hamilton Co., Charleroi, Pennsylvania.	16
Containers and Marks.	16
H.	18
H in a Star.	19
HAMILTON.	19
W.H. HAMILTON.	20
W.H.H.	21
OUR DARLING.	21
J.H.&A. Hamilton, Pittsburgh, Pennsylvania.	22
J.H.&A. Hamilton Co. Pittsburgh, Pennsylvania.	23
J.H.&A. Hamilton Co., Butler, Pennsylvania.	25
J.H.&A. Hamilton Co., Blairsville, Pennsylvania.	25
Containers and Marks.	26
J.H.&A.H.	26
J.H.&A.H.Co.	27
H in a Triangle.	27
HOM-PAK.	28
VICTORY HOM-PAK.	29
Discussion and Conclusions.	29
Acknowledgments.	30
Sources.	30
Hamilton Glass Works – Ontario.	35
Histories.	35
Hamilton Glass Works, Hamilton, Ontario.	35
Containers and Marks.	36
THE GEM.	36
HAMILTON GLASS WORKS.	37
Hamilton Glass Co., Hamilton, Ontario.	41

Containers and Marks.	41
CROWN.	41
THE DARLING.	43
SAFETY VALVE – HG monogram in a triangle.	44
Discussion and Conclusions.	44
Acknowledgments.	44
Sources.	44
Hart Glass Mfg. Co.	47
Histories.	47
Fletcher, Hart Co.	47
Maring, Hart & Co.	47
Leasdale Glass Co.	48
Maring Hart & Co.	49
Maring Hart & Co.	51
Hart Mfg. Co.	51
Containers and Marks.	52
H.	52
H in a Heart.	53
Discussion and Conclusions.	53
Acknowledgments.	54
Sources.	54
Hazel-Atlas Glass Co.	59
Histories.	59
Hazel Glass Co.	59
Hazel Glass Co.	60
Containers and Marks.	64
H.	64
HAZEL.	64
MASCOT.	65
MASCOT IMPROVED.	67
“MASON’S” – MASON’S PATENT and the Tudor Rose.	69

SAFETY VALVE – HC monogram in a triangle.	72
Atlas Glass Co.	75
Containers and Marks.	76
ATLAS.	76
Republic Glass Co.	78
Hazel-Atlas Glass Co.	78
Containers and Marks.	84
HA Monogram.	84
Factory Codes.	86
N.	88
HA.	88
ATLAS.	89
ATLAS SEAL-ALL MASON.	89
E-Z SEAL.	90
HAZEL PRESERVE JAR.	90
HAZEL-ATLAS.	92
SIMPLEX.	92
TF ligature.	92
Other Fruit and Packer Jars.	93
Discussion and Conclusions.	93
Mascot Jars and Quotation Marks.	94
Rosette Logo.	95
Acknowledgments.	98
Sources.	98
The H.J. Heinz Co. and the H.J. Heinz Glass Co.	103
Histories.	103
Henry J. Heinz.	103
Containers and Marks.	103
H.J. Heinz.	103
Heinz & Noble.	104
Containers and Marks.	104
HEINZ & NOBLE.	104

Heinz, Noble & Co..	105
Containers and Marks.	106
HEINZ NOBLE & CO..	106
F.&J. Heinz.	106
Containers and Marks.	107
F.&J. HEINZ.	107
HEINZ'S.	108
H.J. Heinz Co..	108
H.J. Heinz Glass Co..	109
Containers and Marks.	110
Numbers..	112
Early Machines?..	113
H (with numbers)..	114
HH.	115
H.J.H.CO...	115
HEINZ.	116
H.J. HEINZ CO...	117
Keytone Designs.	117
The Heinz Pickle.	118
57 Varieties.	118
The Other Heinz Companies.	120
Heinz Brothers & Co...	120
Containers and Marks.	120
HEINZ BROS. & CO..	120
Heinz Co..	121
Containers and Marks.	121
THE HEINZ CO.	121
Discussion and Conclusions.	122
Sources..	123
The Hemingray Glass Firms.	127
Histories..	127
Gray & Hemingray..	127

Gray & Hemingray.....	128
Gray, Hemingray & Bros..	128
Gray, Hemingray & Bro..	129
Gray, Hemingray Bros. & Co..	129
R. Hemingray & Co..	129
Hemingray Glass Co.....	129
Hemingray Glass Co.....	130
Containers and Marks.	133
G&H.....	134
GRAY & HEMINGRAY.....	134
GRAY HEMINGRAY & BR ^{OS}	134
HGCO.	135
HGCo monograms.	136
HEMINGRAY.	137
H-30 or other numbers.....	138
H in a Circle.....	139
H in a Square.	139
Fruit Jars.....	140
GLOBE.....	141
ROYAL.	143
ROYAL.	144
ROYAL PAT FEB27-1877 on base.....	144
ROYAL / OF / 1876.....	144
“Cincinnati” Jars.	146
WEBSTER’S PATENT.....	148
Grooved-Ring Wax Sealers.	149
Mason Jars.	150
Numbers.....	151
Patents.	151
September 18, 1860.....	151
June 9, 1863.....	152
February 16, 1864.	152
June 27, 1865.....	153

February 27, 1877.	154
May 25, 1886.	154
Insulators.	154
Discussion and Conclusions.	155
Acknowledgments.	155
Sources.	155
Henry W. Putnam and the Lightning Fastener.	161
History.	161
Henry W. Putnam.	161
Putnam Manufacturing. Co.	166
Patents.	167
Henry W. Putnam.	167
March 15, 1859.	168
September 10, 1878.	168
February 10, 1880.	168
April 25, 1882.	169
Charles de Quillfeldt.	169
January 5, 1875.	169
Karl Hutter.	170
February 7, 1893, June 16, 1896, April 13, 1897.	170
Containers and Marks.	170
H.W.P.	170
Bottles.	171
Fruit Jars.	172
HWP monogram.	172
LIGHTNING.	173
PUTNAM.	175
Bottles.	176
Fruit Jars.	176
Discussion and Conclusion.	178
Dating.	179
Acknowledgments.	180

Sources.....	180
The Bottles and History of the Hermann Heye Family Glassworks.	183
Histories.....	183
John Conrad Storm and Freidrich August Becker.....	183
Hermann Heye Glasfabrik.....	183
The Early Years.....	183
Expansion and Export.....	184
The Machine Age.....	186
The War Years.....	187
Recovery, Reorganization, and More Expansion.....	187
Bankruptcy and More Reorganization.....	189
Containers and Marks.....	189
ADLER CONSERVENGLAS.....	190
H.....	190
H HEYE / BREMEN.....	191
BREMEN / H HEYE.....	193
BREMEN H HEYE.....	193
HH.....	193
GLASS WORKS / H HEYE / HAMBURG.....	195
GLASS WORKS / H HEYE / NEINBURG A/W.....	196
BREMEN / H HEYE / HAMBURG.....	197
H HEYE NEINBURG A/D. W.....	200
H HEYE / NEINBURG A/W.....	201
HERMANN / HEYE / HAMBURG.....	201
H HEYE.....	202
HEYE.....	203
Clover Design.....	203
Gerresheimer Glas.....	204
Export.....	206
Incorporation and the Machine Age.....	206
World War II and Owens-Illinois.....	207
More Changes.....	208

Containers and Marks.	208
FH in a hexagon.	208
G-Under-Crown.	209
Da and Dc.	209
Discussion and Conclusions.	210
Acknowledgments.	211
Sources.	211
Hero Glass Firms.	217
Histories.	217
Lockport Glass Works.	217
Containers and Marks.	218
ALL RIGHT.	218
GEM.	219
HERO.	219
Hero Glass Works.	220
Containers and Marks.	220
CRYSTAL.	221
GEM.	222
HERO.	224
HEROINE.	225
HGW monogram.	226
PEARL.	227
PORCELAIN LINED.	228
Mason Jars.	229
Hero Fruit Jar Co.	230
Containers and Marks.	230
GEM.	230
HERO.	231
Hero Cross with no letters.	231
HFJCo in a Hero Cross.	235
HFJC in a Hero Cross.	236
Hour Glass.	237

Mason Jars.	239
Patents.	240
Discussion and Conclusions.	244
Acknowledgments.	244
Sources.	244
The Great Holt Myth: A Study of Misidentification.	247
Histories.	247
Campbell Glass Works.	247
Campbell Glass Mfg. Co.	247
O’Neill Flint Glass Works.	247
West Berkeley Glass Works.	248
William Holt.	249
The Heunisch Connection.	249
Containers and Marks.	252
{number} / H.	252
H / {number}.	255
{number} H.	255
H {number}.	256
H - {number}.	257
H.	257
Discussion and Conclusions.	258
Acknowledgments.	262
Sources.	262
Holz, Clark & Taylor.	267
History.	267
Holz, Clark & Taylor.	267
Holz & Clark.	267
Containers & Marks.	268
HOLZ CLARK & TAYLOR and SALEM JAR.	268
Stoppers.	269
Taylor & Hodgetts 1871 Patent.	270

HC&T.	272
Discussion and Conclusions.	272
Acknowledgments.	273
Sources.....	274
Hygeia Glass Corp. and Hygeia Nursing Bottles.	275
Histories.....	275
Hygeia Nursing Bottle Co.....	275
Hygeia Glass Corp..	277
Patents.	277
William M. Decker.	278
June 19, 1894.....	278
January 10, 1911.	278
January 24, 1911.	278
February 28, 1911.	278
June 2, 1914.....	279
December 5, 1916.	279
August 7, 1917.....	279
August 31, 1920.....	279
June 9, 1925.....	279
October 29, 1929.....	280
Howard H. Ganson.....	280
June 12, 1928.....	280
October 8, 1929.	280
December 21, 1943.	280
December 26, 1944.	281
September 2, 1947.....	281
Containers and Marks.	281
Hygeia.	281
Owens-Illinois Period.	284
Ball Period.	287
Prescription Bottles.	289
Unrelated Bottles.....	290

Discussion and Conclusions.	290
Machines.	291
Sources.	293
Other H.	295
Containers and Marks.	295
H.	295
H in a separated star.	296
H in a vertically elongated diamond.	297
Possible Manufacturer.	298
A.H. Heisey Co.	298
HARTFORD FRUIT JAR COMPANY.	299
Manufacturer.	299
Hartford Fruit Jar Co.	299
HAWLEY GLASS CO / HAWLEY, PA.	300
Manufacturer.	303
Hawley Glass Co.	303
H-B or I-B.	304
H.B.G.CO.	305
Possible User.	305
Henry B. Gilpin Co.	305
H&Co.	306
H&D.	306
H.E. WRITE & SONS.	306
H in an elongated, diamond-shaped G.	307
HG over a triangle.	307
Manufacturer.	308
Hillsboro Glass Co.	308
HILTON’S PATENT – MASS. GLASS CO.	308
Manufacturer.	310
Massachusetts Glass Co.	310
H&L	311
Probable User.	312

Hartell & Letchworth.....	312
HONESDALE GLASS WORKS.....	312
Manufacturers.....	313
Tracyville Glass Works.....	313
Honesdale Anthracite Glass Works.....	313
Honesdale Glass Works.....	313
HP-ligature in an oval.....	314
HS in an oval.....	314
Discussion and Conclusions.....	315
Acknowledgments.....	315
Sources.....	315
Manufacturers and Jobbers in the H Section.....	323
Manufacturer’s Marks and Other Logos on Glass Containers – H.....	327
Ihmsen Glass Companies.....	333
Ihmsen Family Genealogy.....	333
Ancestral and Early Firms.....	336
Ensell, Wendt & Co.....	337
Ihmsen, Wendt & Co.....	337
Sydney Glass Co.....	337
Beltzhoover, Wendt & Co.....	337
Containers and Marks.....	338
Sutton, Wendt & Co.....	338
Wendt & Ensell.....	338
Whitehead, Ihmsen & Phillips.....	338
Whitehead, Sproul & Co.....	338
Containers and Marks.....	339
W.I.&P.....	339
The Christian Ihmsen Firms.....	339
Christian Ihmsen & Co.....	339
Containers and Marks.....	340

C. IHMSEN GLASS MANUFACTURER.....	340
C. IHMSEN & Co.....	340
C.I.&Co.....	341
C. Ihmsen & Son.	341
C. Ihmsen & Sons.	341
Containers and Marks.	342
C. IHMSEN & SON or C. IHMSEN & SONS.	342
C.I.&SONS.	343
The Third Generation Ihmsen Firms.	344
C.I. Ihmsen & Co..	344
Ihmsen Glass Co., Ltd.....	344
Ihmsen Glass Co.....	344
Containers and Marks.	345
IGCo.....	345
IGC.....	346
IGCoL.....	346
Cunningham & Ihmsen.	348
Dominick Ihmsen.....	348
Ihmsen Glass Mfg. Co.....	348
Butler Flint Bottle Co., Ltd.....	348
Butler Glass Co., Ltd.....	348
William Ihmsen.	349
Williamsport Glass Co..	349
Containers and Marks.	350
W. IHMSEN'S.....	350
WI.....	350
Other Ihmsen Companies.....	350
Young, Plunkett & Ihmsen.	351
Ihmsen, Plunkett & McKnight.....	351
Ihmsen & Ulam or Ulam & Ihmsen.....	351
Ihmsen, Fox & Co.....	352
Discussion and Conclusions.	352
Acknowledgments.	354

Sources.....	354
Illinois Glass Co.....	359
History.....	359
Containers and Marks.....	368
IG.....	369
IGC.....	369
IGCo.....	369
Illinois Glass Co. or Ihmsen?.....	372
I.C.Co.....	372
IGCO in a Diamond.....	373
'01, '02, or '03.....	375
7 on Milk Bottle Heels.....	376
Diamond-I.....	376
Numbers in a Diamond.....	377
Prescription Bottles.....	379
Lyric.....	379
Signet.....	381
Fruit Jars.....	381
IGCo Monogram.....	381
Columbia.....	384
Electric.....	384
Presto.....	384
SMALLEY, KIVLAN AND ONTHANK.....	386
Sunshine Jar.....	386
Other Glass Houses with Similar Logos.....	387
Ihmsen Glass Co.....	387
A.H. Heisey & Co.....	387
Discussion and Conclusions.....	388
Acknowledgments.....	388
Sources.....	388
 Appendix A: Catalog Codes (Mold Numbers for Soda Bottles	 397

IGCo Logos Unrelated to Illinois Glass Co.	401
Imperial Glass Companies.....	401
Imperial Glass Co.	401
Imperial Glass Corp.	401
Containers and Marks.	402
IG.	402
IG Monogram.....	402
IMPERIAL GLASS.	403
Other Logos.	404
Other Imperial Glass Companies.....	406
Independent Glass Companies.....	407
Independent Glass Co.....	407
Containers and Marks.	408
IGCo Monogram.	408
INDEPENDENT JAR.	409
Other Independent Glass Companies.....	410
Intermountain Glass Mfg. Co.	410
Intermountain Glass Mfg. Co.	410
Containers and Marks.	410
MOUNTAIN MASON.....	411
IGC Monogram.	411
IGCo Monogram.	412
Iroquois Glass Industries, Ltd.	412
Iroquois Glass Industries, Ltd.	412
Containers and Marks.	412
IG Monogram.....	413
Discussion and Conclusions.	413
Acknowledgments.	413
Sources.....	414
Illinois-Pacific – A West Coast Phenomenon, Part I – Illinois-Pacific Glass Co.	417
History.	417
Illinois-Pacific Glass Co.....	417

Containers and Marks.	420
Machine Manufacture.	423
I.P.G.Co. or IPGCO with no surrounding lines.	425
IPGCo in a diamond (with or without periods).	426
IPGCo-in-an-oval mark.	427
ILLINOIS PACIFIC GLASS Co. S.F. CAL..	428
ILLINOIS PACIFIC GLASS Co. / MANUFACTURERS.	429
I.P.G.CO / S.F. CAL. in a Diamond.. . . .	429
BEAVER.	430
The Banner Jars.	430
Everlasting (cursive) JAR (in banner).	431
Improved Everlasting Jar.	432
Standard (cursive) MASON (in banner).	435
Genuine (cursive) MASON (in banner)..	437
Boyd (cursive) MASON (in banner).	438
Mason..	439
SEALTITE WIDE MOUTH MASON..	439
IPGCO in a triangle.	440
IPGC..	441
IPG in a Triangle.	441
Rim Code Dates..	441
Discussion and Conclusions.	443
Acknowledgments.	443
Sources..	443
Illinois-Pacific – A West Coast Phenomenon, Part II – Illinois-Pacific Glass Corp.. . .	449
History.	449
Illinois-Pacific Glass Corp..	449
Containers and Marks.	450
IPG in a Triangle.	450
Electroneal.	451
Fruit Jars..	452
Milk Bottles.	453

Soda Bottles.....	453
MANUFACTURED BY ILLINOIS PACIFIC GLASS CORP.....	457
Discussion and Conclusions.	458
Acknowledgments.	458
Sources.....	459
Illinois-Pacific – A West Coast Phenomenon, Part II – Illinois-Pacific Coast Co. and Owens-Illinois Pacific Coast Co.....	463
Histories.....	463
Illinois-Pacific Coast Co.....	463
Owens-Illinois Pacific Coast Co.....	464
Containers and Marks.	465
IPC in a Triangle.	466
MANUFACTURED BY ILLINOIS PACIFIC COAST CO.....	467
Owens-Illinois Pacific Coast Co. Marks.	467
MANUFACTURED BY OWENS-ILLINOIS PACIFIC COAST CO..	469
Discussion and Conclusions.	469
Acknowledgments.	469
Sources.....	470
Other I Marks.....	473
Containers and Marks.	473
I.	473
User and Manufacturer.	474
Tropicana Products, Inc..	474
Industrial Glass Co..	474
IGWCO.	475
INDPLS GLASS WORKS or INDIANAPOLIS GLASS WORKS.	476
Manufacturer.	477
Indianapolis Glass Works.	477
I-P.....	477
IPC.....	477
Franz Guilleaume & Ewald Goltstein 1893 Patent.	478

William A. Lorenz 1899 Patent.	479
William A. Lorenz 1899 Patent.	479
User.	481
Imperial Packing Co..	481
Beech-Nut Packing Co..	481
B.N.P.Co..	182
I-R&CO.	482
IRONCLAD.	483
Manufacturer.	483
Ironclad Mfg. Co...	483
ISABELLA GLASS WORKS.	484
Manufacturer.	484
Isabella Glass Works.	484
ISGCo..	486
Manufacturer.	487
Interstate Glass Co..	487
IXL.	487
Possible Manufacturer.	489
IXL Glass Bottle Mfg. Co...	489
Discussion and Conclusions.	489
Acknowledgments.	489
Sources..	489
I Section – Glass Houses and Logo Users.	495
Manufacturer’s Marks and Other Logos on Glass Containers – I.	497