

Historic ceramic identification guide



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Among the most numerous types of artifacts found on campus are different types of ceramics. These range from homemade white plates, bowls and cups to several industrial earthy pipes and flower pots. The type of pottery and decorations in this area are important for not only dating the city, but also for understanding the economic and social status of the area. For example, richer individuals have porcelain edible sets with complex shapes, while lower classes had sets of white software with less detailed patterns. Thankfully, the identification of pottery is a fairly simple process based on viewing paste, glaze and decoration. Since pottery, which is often found in smaller walls or pieces, it is important to describe the artifact as fully as possible in order to obtain as much information as possible from it. The paste refers to the clay mixture that makes the container. The clay is mixed with other natural substances, such as sand or mules, known as temperment, to prevent cracks in shooting. The paste can be described with its color or translucency, hardness, porosity and texture. These are divided into earthy dishes, quarrying and porcelain in the historical period. The earthy container is divided into different colors, including white, yellow furnishings, cream and red furnishings. Frosting is a glass internal and internal coating on a container made of silicate mixture. Silicon dioxide is similar and can be mixed with a number of materials including lead, sodium, potassium, salt, copper or iron. The color and composition of the glaze is important. The frosting varies according to the time period, region, type and preference of the warehouse. Decoration consists of methods by which samples are applied to ceramics. We can apply them over or under the glaze. For historical periods, decoration was used either freely or using portable prints. Decoration can also include mold embossed patterns. Colour and pattern are important in identifying historical periods and regions. Here are some examples of items we found on MSU during our excavations and how the identification continued. White earthy container pots fragments of ceramics #1 Although a smaller version of the image makes it difficult to see, the paste is white and finely grainy. We can't tell from the picture whether it's hard or porous, but we do know it's both. That means it's probably a white earthy vessel. The glaze is internal and outer white, and the container has no decoration other than the slightly moulded lines in the handle. Given the lightness of the piece it is difficult to determine more information, we know that part of the most used period of campus because the handle was added manually. Rockingham ceramic ceramic #2 Pasta in this piece is much thicker than the previous one, with yellow-brown with medium to fine grain. It's also hard and porous. It's an earthy container, especially yellow. The frosting is a very delicate brown and yellow mottled look. This pattern is known primarily as Rockingham. The pattern was created so that the two colours of the glaze stood together. The piece also has a clear moldy appearance, creating two raised areas. With a careful description of pottery in various parts we can compose what the warehouse was like and shed more social information about the piece. For example, an unsokoted cup was, for example, a part that was owned by a student or campus. The lack of decoration means it wasn't from a wealthy household, and it's more utilitarian than decorative. The other parts we found have samples, although they are not detailed samples nor are found on porcelain, suggesting that finer ceramics and beautiful pottery were not part of the campus. As we continue to identify our artifacts found over the summer, we will be able to learn more about students and faculty on campus during the most difficult periods. Works Cited University of Utah. IMACs Handbook for Artifacts. Electronic source. related popularity was re-entre-re-wrapped in the 1850s and continued through the twentieth century's turn for what is called the Victorian Mayan (Kovel 1973:6). Importantly, the Victorian mayonnaise is a strong mold white container (see below), brightly coloured, and employs lead glazes rather than what we're classifying here as faience. Limited production of faience, majolica and delft continues through the present. 3. Yellowware-Yellowware is an occasional type of warehouse from the field of study. The body is a relatively hard and pale buffet to yellow. Surface treatments include clear lead glazes; a viskozno and strongly mottled brown form of Rockingham; and treated forms of white, blue, black and brown with occasional dendritic, wine-like patterns. The plain yellow container with a clear lead glaze was in the form of a variety of kitchen and tableware, including bowls, plates, mugs and bottles. The warehouse was usually available throughout the region until 1830 (Ramsay 1939:148). Rockingham or Bennington (1, 2) is a personal ceramic with a thick brown, mottled glaze and a danced body. Rockingham was first produced for the American market by English potters from Swinton County since 1788 (Spargo 1926:170). Most of this material is in the form of a teapot with a body formed from a soft yellow paste. English potters who immigrated to America began to produce a similar but much larger line. American potters from Pennsylvania, Ohio, Illinois, and especially from the pottery center in Bennington, Vermont, produced large quantities of ceramics until 1830 (Spargo 1926:147). The body may vary in colour from cream to light yellow. Sensitive surface treatment several elements. The rich colour included a mixture of manganese and sometimes umber into a glaze (Spargo 1926:171). Each factory had its own formula. The glaze was applied differently by bathing, brushing, sponging or with a stick (Spargo 1926:171). Most of the pieces show the effect of restraint. The most common technique for nano wearing glaze from 1847 to 1865 was by scattering or spraying it with a paddle (Spargo 1926:172). The special worker responsible for the use of glaze had a unique effect that suited his aesthetic interests. As a result, although the glaze patterns may be at the level of an artisan, factory or perhaps a region, none of the two pieces of Rockingham or Bennington are exactly the same. This form was most popular between the 1840s and 1900s. The last form of the yellow container is often called an annular storage. It has a glazed surface decorated with belts or rings of white, blue, black or brown. Occasionally, enthusiastic patterns circle the vessel. Sometimes even within wide, colored bands, there are vine-like patterns that circulate around outside the container. This important treatment is called mocha. The colours of the waist can be pink, blue or green, but the most common are brown and black (Sonderman 1979:92). Anular decoration was produced by American potters between 1840 and 1900 (Ramsay 1939:149). The regional yellow software manufacturer was located in Peoora, Illinois. One of the larger factories in Bennington was norton and fenton. In 1858, it closed the door. In 1859, Mr. Fenton and his supervisor, Decius W. Clark, opened Peoria Pottery in Peoria (Barber 1901:175). For years, these yellow containers, as well as whitish and stone-stoned equipment, were produced. Pitchers, teapots and pitchers were common forms. These products are not sufficiently known to be different from those of other producers, but it points to an interesting area for the future investigation. 4. Creamware-Like early faience, the cream vessel was not archaeologically recovered from upper Sangamona. The soft, creamy body was developed for the first time since 1750 by English potters, notably Josiah Wedgwood. By 1767, he was producing a form called Queen's ware (Hume 1972:219) with yellow lead glazes (in the arrows it appears yellow or green). While some plates and containers remained ordinary, edge treatments were popular. Two formed edge patterns were common: a pen bordered, with an edge shaped like frond and shell, and a cladocodoeous coil, and a flight attendant's blue, green or red subglact color. Hume (1978:124-128) shows that cream vessel from 1760 to 1820. Only small amounts were recovered from Illinois (Phillippe 1981:39). While still in production today, it became less common after 1810. With the measured presence of Euro-Americans in upper Sangamon until 1820, can still be recovered. 5. Pearlware-Josiah Wedgwood can also be credited with the innovative pearly dish of 1779 and the appellation pearl white (Hume 1972:232). It is often recovered from historical sites in Illinois dating back to the 1870s and is the most stimulating ceramic horizon that often meets in the upper Sangamona Valley. In the present terms, the body was harder and whiter than the cream vessel and had a glaze wrapped blue with the addition of cobalt (Sussman 1977:105). The blue tones in the glaze are best observed in places where the puddle (1, 2), i.e. in crevices under rims and handles and near the rings of the feet. The visual effect was to create a vessel that looked whiter than a cream vessel. The identification of the pearl container has proved somewhat problematic for the archaeologist and others. It is clear that in the United States, unlike the cream vessel, by 1790, the edge was marketed with the label blue and white warehouse or blue and green edge table service (Hume 1972:235). Less clear are the discrete attributes that can be macroscopically defined on small shers. Pearlware represents a series of technological changes that occurred in the industry in the early nineteenth century. At its application, the pearl container was little more than the use of blue-tinted glaze, rather than yellow-green glaze, for creamy-coloured fabric. By the end of production, the fabric was significantly bleached and had glazes that stretched from deep blue to almost colourless (Sussman 1977:105-106). Evolutionary steps, which have appeared in hardness and color of both pastes and glazes, make it difficult to differentiate nickel-size body sherd pearl container from one white woman. Whiteware also has a white fabric, on which blue-tinted frosting has often been applied. Flow blue, discussed under whiteware, is an example of a whitish-type body sherds that will remain inseparable from all but the most beautiful pearly containers. Even iron stone dishes by the manufacturer used to have a glaze of pearl dishes (Hanson and Hsu 1971:75). In the case of no other storage indicators, white herds with blue tone will be classified as white herds (prim Phillippe 1981:44). As a conservative approach, it's tinged to push forward on ceramic dates. The simplest surface treatment of the pearl container was the ordinary body on which the blue frosting was applied. McCorvie (1987:203) assigns him a median production value of 1805. Very few pearl containers were ordinary, the vast majority were either shaped in many edge shapes, which were first seen on a cream container or were painted or printed. By far the most common of the shapes formed was the edge of the shell with its blue or green sub-smooth color (Sussman 1977:106). Table 1 presents time data on several surface treatments (most of the pearl container is before 1830). In its most used expression, the edge of the shell displays linear elements that extend inwards from a manifestly irregular edge. Wedgwood interpreted it as a naturalistic term of the clam. Miller (1987) calls it rocco. The most common color was grey picked blue (Sussman 1977:108). By 1810, the edges were more characteristically level with linear elements enthusiastic and appearing in a more abstract form. The blue colour by then was a bright, purple-coloured colour (Sussman 1977:108). The type of bud with a winded edge was popular between 1813 and 1834. The same treatment without scaloping dates from 1840 to 1850. After 1830 the increasingly common term shell edge is a surface treatment consisting only of a blue or green colored belt. This decoration was the terminal term of the edge of the shell and is most commonly discovered in contexts after 1850. At the beginning of the nineteenth century, the blue underglaze hand painting (1a, 1b) became another common surface treatment of the pearl container. Many samples and models were employed. McCorvie (1987:203) assigns her a median production date of 1800. However, the blue and less often black transmission printing of the 1820s was dominated by production. There were still a lot of variations in the thematic motif. It has a median production date of 1818 (McCorvie 1987:203). The blue vb pattern, both hand-painted and printed (1, 2), was one of the more common motifs. In fact, the blue will continue to be produced and is a modern legacy of pearlware. His proletarian association is the basis of the special colloquialism of the blue plate (Hume 1972:247). Anular ornaments, discussed under a yellow dish, also appear as surface treatments on a pearl container. Production may be 1800. Between 1815 and 1830, he was evicted by white software. McCorvie (1987:203) assigned her a median production date in 1805. Hume (1972:236) shows that by 1810 Pearlware had become america's common desktop warehouse. But by 1820 it was planned with what we would call whiteware. 6. Whiteware -Whiteware is rendered of a stark white body that is harder than pearlware. It's covered with a colorless glaze. Whiteware was developed in England around 1810. By the 1830s it had become the most famous earthy vessel in America and remains common to this day. Surface treatments are countless and are the subject of extensive literature. Our debate will be limited to those characteristics that are time sensitive. Types of surface ornaments can be organized into at least nine categories using color attributes, application techniques and production technology. They are: (1) ordinary, unsoled; (2) hand-painted models; (3) transmission of printed models; (4) sponge; (5) vau, va. (6) luster and embosing; (7) decal ware; (8) art ware; and (9) fiesta warehouses. Common, unleattle white (1), often with rims (1, 2, 3) are common after 1820. It was the cheapest form of desktop service and was found in most households until 1840. 1930 (Esary 1982:186). As with the pearl container, hand-painted treatments take the widest range of models and patterns. Cobalt blue and black are colors known in the first quarter of the nineteenth century. Usually, the image covered most of the vessel's face with little background white display. The pattern of branches in monochromatic blue, red or green or as a polychromatic flow (1, 2, 3, 4, 5, 6, 7) uses combinations of these colors seems somewhat latter and through the 1890s. Miller (1987) shows that polychromes were the most popular, if uncommon, from 1830 to 1850, while Esary (1982:185) considers them to be the latter at 1840-1860. Shell-edge treatments continue on a white pearl container. Miller (1987) suggests at least seven the them. Their periods of popularity, production volume and mean dates are listed in Table 1. After 1830 (Esary 1982:185), white supremacists are more often a vehicle. Table 1. Temporal Data For Shell Edge Treatments on Pearlware and Whiteware (by Miller [1987]). Types Maximum Popularity Median Production Range Rococo 1788-1812 1800 1780-1820 Scalloped Rim, Enthusiastic Curved Lines (1, 2) 1802-1832 1817 1795-1845 Moistened Rim, Impressed straight lines (1) 1809-1831 1820 1795-1840 Scalloped rhymes, impressed bud (1) 1813-1834 1823 1800-1850 Embossed (raised) patterns (1, 2, 3, 4, 5) 1823-1835 1829 1820-1845 Unplugged, impressed rhymes (1, 2, 3) 1841-1857 1849 182 5 In 1879-1879 1850-1897, the beonjača with underglaze transfer printing was the most perspiration surface treatment of the mid-half of the nineteenth century Century. A large quantity was made for the US market by Staffordshire potteries in England. In 1773, Wedgwood began the art of portable printing in Staffordshire. An exceptional example of early British industrial capitalism, the 5-by-10-mile Staffordshire District reached its apex in 1829 with more than 50,000 pottery workers. By 1837, it had decreased significantly. Lung diseases and lead poisoning were extensive among workers, with thirty per cent of deaths up by fifteen and ninety per cent after the age of 45 (Gurujal 1988:14). Pottery works showed a high degree of economic specialisation, both internally and externally. Internal specialisations included distinctions such as women employed as laptops (Gurujal 1988:15). Very responsible work required the fit of the sample (1, 2) to the vessel and the use of the manufacturer's mark. External specialisation is exemplified by a separate industry that designed and produced the printing plates used in the transfer process. In this industry Not only often copy each other's patterns, but would sell the same design to different potters (Gurujal 1988:16). The technique involved in the transmission process flew through the change in the first twentieth years of the nineteenth century (Gurujal 1988:14). In general, the portable printing included engraving of a copper plate with the desired design. The design, with pigment, was then printed on paper and the paper was used to transfer the sample to ceramics. Early technology involved the use of a rather thick paper, which produced designs with heavy lines. After 1803 and the introduction of tissue paper, graduates of shady and fine lines were possible. Another technique popular in the early nineteenth century did not use paper. As a bat procedure, the transfer of the model was achieved using an oil and sheet of glue known as a bat. Typical of this procedure were prescribed engraving plates with minute hail and not lines. Samples used by different potters can sometimes be identified using frontier patterns and scenes. Excellent literature supports this work (see, for example, Maguire [1988]; Laidacker [1951 and 1954]; Williams [1978] and Larsen [1975]). The most time-sensitive feature of the portable warehouse used by archaeologists is the colour. The work of Miller (1987), Esary (1982:Appendix D), Sonderman (1979), McCorvie (1987), while others indicate the sequence and dates defined in Table 2. Some guys, such as green and red polychrome, were never very common. The surface effect on flow types was produced by adding gaseous chemicals to the atmosphere of shooting, allowing the ink to spread throughout the background. The Flowery Flow type often included mold patterns (1a, 1b.) on the rims and edges and overglaze applications of golden enamel. A note on the Flow Blue Sponge or spatter ware was a surface treatment in which the sponge was used to daub or crack paint on the container before glazing. Sometimes the whole vessel was covered and sometimes just a boundary. The colors included blue, green, red, yellow, brown, black and polychrome. This product became common until 1830 and remained popular throughout the 1860s. Esarey (1982:186) assigned her a median ceramic date in 1850. Forms of anular ornamentation (1, 2) described under the yellow container are also found on the pearl container and white. Between 1815 and 1830, the white software bridged the pearl container. It was produced at least until 1860 and has a median ceramic date in 1845 (Esarey 1982:186). Table 2. Time data on different colors of portable printed white software. Adapted from Miller (1987), Esary (1982), Sonderman (1979) and McCorvie (1987). Type Maximum Popularity Production Volume Median Dark Blue (1, 2a, 2b, 3, 4) 1820-1830 1820-1860 1845 Svetoplava (1, 2) 1827-1828 1826-1831 1829 Floating and painted ---- 1840-1860 Red (1, 2, 1829-1839 1829-1850 1840 Brown (1, 2) 1829-1839 1829-1850 1840 Green (1, 2) 1829-1839 1829-1850 Black (1, 2, 3) ---- 1830-1850 1840 Purple (1, 2) 1829-1839 1829-1860 1845 Purple and Painted ---- 1840-184 1860 1850 Gray i painted ---- 1840-1860 1850 Red and Green (1) 1832-1838 ---- 1835 Scenic Flow (Blue or Black) (1, 2, 3, 4a, 4b) 1840-1849 1840-1860 1850 Flower Flow (1a, 1b) 1870-1879 ---- 1875 Decal ware first introduced 1890. This included the use of the usual polychrome decal over the glaze. The dean can often be felt with a fingernail. It remained popular in the 30s and is still widely produced. The median ceramic date of 1910 (Esarey 1982:186) may be early. The use of luster bands as part of the processing of edges on ordinary or dance edged whites became more common after 1890. It continues to be produced through the 1930s and has a median ceramic date of 1910 (Esary 1982:186). Art ware (1) was ingested in various forms by the turn of the twentieth century. Special glazes were common. Zimler (1987:9) assigned her a median ceramic date in 1920. Fiesta ware (1) is the latest type of white software to be discussed. With hard, bright weasel monochrome, it became popular in the 1930s. It has a median ceramic value of 1940 (Zimler 1987:9). The manufacturer's brands appear on some English white programmes in the initial introduction. The logo of a specific workmanship can, of course, help you date with the object (Godden 1964). (See ONLINE Sources: English potters and potters for some illustrations of online sources to identify manufacturers.) In 1842, Parliament allowed potters to register their designs. From 1842 to 1883, a diamond-shaped trade mark (sometimes called lozenge in commercial literature) was registered. After 1883, the diamond mark was replaced using a registered design number printed as a script line. (See the Archaeological Guide to English Registry Codes and Numbers for the full discussion of how to decode tags and assign dates.) In the countries, with the adoption of the McKinley Tariff Act (October 1890) and its inauguration in 1891, it was stipulating that all imported goods had the name of the country of origin. The manufacturer's labels showing this information will be by date this year. In England, the Companies Act of 1860 allowed limited's corporate structure. The appearance of Ltd in the backstage stamp means that the vessel has been produced once after 1860. The English Trade Marks Act of 1862 provided the first protection of trade marks. The presence of Stamps in the potter's logo after the dates of 1862. All this is said, the fact remains that most pottery on the U.S. market before 1891 is not marked. The example of a regional manufacturer of the American transport warehouse was the Indiana Pottery Company. Short-term venture In 1836 he was managed by James Clews (Gurujal 1988:17). Unfortunately, no marker marks were attached to this product line. 7. Ironstone - In 1813 Charles Mason of Staffordshire, England introduced a product labeled by Ironstone China Patent. The so-called iron stone was destined to become quite popular among both commercial and domestic consumers. In 1842, James Edwards began sending his version of the warehouse to the American market. The success of his efforts has led to the rapid appearance of many production

lines in the United States. The generic formula for iron stone included clay, iron slag, quartz and blue oxide cobalt. The paste was as nautical as harder and white from the white software. With the label Ironstone, Ironstone China (1), Royalstone China, Semiporcelain, Porcelain Opaque, Granite, Hotel China (1) and sundry, it was the most popular on the region's farms in the last half of the nineteenth century. Ironstone appears to have received all surface treatments (1) previously identified for a pearl container or white container. Since the popularity of these surface treatments exceeds the type of fabrics, the dates of the treatments found apply equally to iron stone. The characteristic stylistic expression of iron stone would be the emphasis on ordinary, unmod (1) and ordinary, painterly bodies and rims (1). As a simple, durable, bright white product seems to have appealed greatly to the aesthetics of the American consumer. Ordinary, non-molded shapes were usually available throughout the range of iron stone production and are therefore not very useful time markers (median ceramic date 1870). The shapes formed have broken up with previous white-software expressions with an emphasis on sharp angles rather than gentle curves. From the 1840s to the 1880s, the favourites were six-again and eighth body shapes (median ceramic date 1865). The incarnation motifs of plant elements became increasingly popular after 1860 (median ceramic date 1880). The items selected for the designs were extremely diverse and included such things as oak leaves, maple, grapes and ivy; elements and sprays from maize, wheat (1), soar and hops; fruits such as grapes, plums, peaches, pears and strawberries; and flowers such as colteta, lilies from the valley, roses, flounder and tulips. The second pronounced term of iron stone was a pattern of surface decoration, called a tea leaf (1, 2). With a copper luster glaze, the design always had a pattern of tea leaves at the center of the plate. The brown belt of the luster often circled the rims. The popularity of this pattern was between the 1860s and 1870s (Kovel 1973:15), but production continued well in the 1890s. The motif is assigned a median ceramic date from 1880. The distinction of ordinary, un molded body sherds from iron stone to macroscopic level is extremely problematic. Even under 10x magnification, little is revealed. iron stone bodies are usually thicker, rather fine texture and bluish white. Higher iron stone shooting temperatures make it a more reliable language test technique. Iron stone fabric should be less sticky on the tongue than white and more sticky than porcelain. Please advise that when I write this paragraph, my language is secure in the basal sherd of the uneasy, white plates showing the label of the manufacturer Bridgwood and Clarke, Burslem (Staffordshire, England). They produced a line of iron stone, which is marketed as opaque porcelain, and this sherd is thus marked. The product was recovered from contexts before 1861 at Lincoln Home in Springfield, Illinois, and the Nine Gal Tavern Site (11CH541) near Mahomet, Illinois (Stella 2006). Therefore, my advice can only let licker beware. However, it comforts in the fact that plain, un molded white colored clothing is produced through the 19th century and well into the twentieth. We calculated the stranded ceramic date from 1860 for whiteness and 1870s for iron tones. Therefore, the accuracy of the analyst interpretation of the type of fabric provides little help in assigning time properties. B. Stoneware Stoneware is the second basic ceramic type in our classification system. He shot temperatures from 1,200 to 1,390 degrees for a century, and he had an extremely hard and durable body. The colors of the fabric include gray, buff and yellow-red colors. Typically thick walls were part of heavy, utilitarian objects such as mugs, crow's, chugs, mugs, inks and oil lamps. Stoneware was produced in eastern North America until the beginning of the eighteenth century and is still under limited production (Greer 1981). The types of stone-based equipment have been produced over time and are relative insensitive markers of the horizon for archaeologists. The differences in surface treatments recognised in this study include the following types: un moisturous, plain; salt frosting; Albany slipped; And Bristol. 1. Neglazed Plain - Ordinary, unglazed stonework (1) is rare, most of it was at least partially glazed for decorative reasons or for easier cleaning. The surface of the ned-stone fitting has a flat, matte-like texture and is light brown, cream or grey. Although it is still produced, it remained unusual. 2. Salt glazed - Salt glazing (1, 2) was a simple technique. Plain salt was thrown into the barrel when shots were fired from the building. The vaporizing was thickened in the warehouse like a very thin film of glass silica. The delicate surface is clear and shiny, but texture like an orange peel. The colour of the container will reflect the amount of iron present in the clay and the oxygen concentration in the atmosphere of the shooting. In the most basic expression, the interiors remained unheeded. Equally common were indoor spaces treated with yellow-green or dark brown Albany slipure. All three forms were popular throughout the 19th century (Ramsay 1939:139-140), although salt glazed became less common after the 1860s (Zilmer 1987:35). 3. Albany Slip - Albany slip was a hard, chocolate brown frosting (1) produced by natural clay. The clay was mixed like a water slurry into which the vessel was weaten. The known applications were only inside (see Salt glaze), only on the external (or only part of the interior, see Bristol) or on both surfaces. The clay was first oused from a loci near Albany, New York, but was generally produced in the Midwest in the last three quarters of the nineteenth century. After 1910, it became less common. Zilmer (1987:35) points to the terminal date of 1940. Bristol - Bristol Frosting (1, 2) was prepared from commercially available ceramic chemicals, which included feldspars and zinc oxide. The visual effect was from white to white with the texture of thick enamel (hard and glossy). The body was always moldy and, often, decorated. The decoration included such things as performance numbers, designer names and, more rarely, complex designs. The famous version was mugged with Albany slipping up to the shoulders and Bristol glaze below. Bristol glazed rock was first produced in Bristol, England, and he also has its name. After the 1890s it became more common and in the twentieth century replaced Albany slipped. Potters in White Hall, Illinois, were well-known suppliers of these goods in the study area. Common forms of the product were like jars, crow's and mugs (Mounce 1988). C. Porcelain porcelain is the most vitrified of the basic types of paste. In the original Chinese term, it was made of kaolin and feldspara, fired at temperatures between 1250 and 1,400 degrees celsius. The result of the hard paste was translucent in the thin part and showed no difference between the body and the glaze. Chinese porcelain was always hand-painted. By mixing in large quantities of minced glass, European potters tried to emulate the quality of this body. Vitrification was achieved at a lower temperature and the colours of the rats can be used. After 1800, English potters introduced a soft porcelain paste. It contained a high proportion of calcium phosphate in the form of a bone manger and is therefore often referred to as Bone China. European porcelain has received a number of types of surface treatments, including: plain white, hand-painted underglaze, hand-painted overglazes (1, 2a, 2b, 3, 4), transfer printed, decal and gold-plated. Porcelain has always been a more expensive warehouse and consequently occasionally. Unfortunately, it turns out difficult for archaeologists to date, even though they were illustrated shapes from good contexts before the 1850s. GLASS Glass is a wonderful invention of the Old World, formed from fused particles of silicon dioxide (quartz). This is the first European products to be found in the upper sangamon. In Jamestown, 1608, glass production has undergone a lot of technological change over the past 400 years. As a result, glass can be employed by an archaeologist in a useful sequence of horizon markers. The history of evolving technology is the subject of extensive, if often contradictory literature. The main objective of archaeologists trying to classify glass has historically been to document the time frame of technological attributes that are macroscopically accessible. This is the approach adopted in this debate. In its most basic expression, the glass is rendered by mixing sand, pot and lime into a ceramic crucible and then melting it into a viskozno state labeled metal. The shooting occurred in a small, rectangular wood-filled furnace (Fletcher 1976:12). To create the containers, the artisan then took over a small amount of metal at the end of the iron windmoy (pontil). By blowing through the tube, a bubble was created, which could then be formed by rolling or rotating. The blowing of metal into the mold, of course, transferred this shape to the craft and ameliorated this difficult step. When the shape was properly formed, parison, as it was called, was allowed to cool down. After a strong enough shingle, the Parison was removed from the wind. The container openings were finished by re-incineration the container, holding it with a pontiff to the base. The neck, rim and lip were then given the final configuration and the vessel was slowly cooled. The first successful glass house in the United States (1739) was started by Caspar Wistar in Salem County, New Jersey. It produced only utilitarian vessels and windows. The glass works of Wistar have begun what has become known as the South Jersey tradition. Each object reflected the effort of each glassworker, which creates devices according to their own design. The creation usually used the use of used glass and patterned mold as decorative elements. While glass blowers have taken advantage of established European styles, they are also an innovative configuration known as a lily pad. In the composition of the cap, a hot mass of glass was applied to the base of the container. The elements of the hot glass were then pulled over the sides of the container to form a series of naturalistic projections described as similar to the points of the foliage. The end result was that the vessel seemed to be resting on the lily pad. New Jersey's sand resources generally produced aqueous-colored glass, although a wide range of glass colours was employed within the tradition. The first glass that appeared in the field of study was in the form of glass edicts. Used as merchandise with natives and as a personal window, they were produced cheaply in different countries in hundreds of different countries size and colors. The main methods of ball-making are called drawing and wire-wound (Brain 1979:97). Both technologies have been in use since the 17th century. Five types of glass pairs were recovered from a town near Arrowsmith in 1730 (Stella 1988). However, from the mid to late 17th centuries, research site locations will be able to bring more examples. They are often recovered from nineteenth-century areas (1). The production of glass beers continues through the present. The production of bottles, jars and containers was the glass industry sector, which in the nineteenth century made the most complex set of technological changes. Ronald Deiss (1981:91-96) presents an excellent summary of the visible attributes associated with these changes. Table 3 is adapted to its work and others. The attributes are organized into four main categories: design process, finish, glass color and surface texture, and production and labelling. A. The formation design process refers to how the glass was molten, or metal formed into the final shape. At least nine techniques can be identified, but there are only three basic ways to design an object: free or off-hand blown; blows into the mould; Machine. All bottles were blown away by the 1830s, when one step body mold first made its appearance. The body of free blown containers contains irregular and lopsided air bubbles. Sometimes, as in the case of sample mold technique, one piece of mold was used early in the production route, but the vessel was finished by hand blowing. That's why there's no sign of mold. The vast majority of free bottles show pontoon markings where the blown tube was attached to the bottom of the container while the lip was finished. This early form of empontilling left a rough, rip-up glass ring. After 1840, this production step was achieved with a solid iron rod (improved pontile). The scar of the improved pontiff was dark (iron oxide or carbon residue), a circular depression on the base. By 1860, the disfigurement of the body was completely eliminated by the introduction of snap case technology. The suitcase was wrapped around the body of the vessel, allowing Parizon to be held in a much more labour-efficient way. Early, or later use of the technique for a cheaply produced glass warehouse, will sometimes leave traces from a snap suitcase on the body of the vessel. Table 3. Technological attributes of glass containers and their associated production periods (adapted from Deissa 1981:91-96). Attribute Production Range Median A. Formation Process (Click on label to go to attribute description) Free hand blown Bottles, jars, etc. To 1835 NA Table, art, and specialty wares This present ON South Jersey tableware This 1860 NA Dip mold Bottles To 1860 NA Bottles with 1818 - 1860 1839 Dvodelna plesni - steklenice S blowpipe pontil 1818 - 1860 1839 Z izbojšanim pontilem 1840 - 1875 1858 Snap case 1860 - 1875 1868 Tri kos, Dip bottom kalup - boce S blowpipe pontil 1830 - 1860 1845 S pobojšanim pontil 1830 - 1875 1853 Snap case (1) 1860 - 1905 1883 Tri kosa, Plate dno kalup - boce S blowpipe pontil (1) 1858 - 1860 1859 S unapjednanim pontil 1858 - 1875 1867 Snap case 1860 - 1915 1888 Turn/paste kalup - boce 1880 - 1905 1 893 Fully automatic bottling machine - boce S Owens ožljak 1903 predstavi NI NA S-vbljk gob fed ožljak 1917 predstavi NA B. Finish (Kliknite na oznaku da ode na atribut opis) Požar salijeri (1) Do 1855 NA Položi na ring To 1845 NA Simple oblik Preklopljene (1, 2) To 1875 NA Flanged (1, 2, 3) To 1875 NA Applied-Tooled Cork 1a, 1b, 2, 3 1825 - 1875 1858 Internal threads 1860 - 1875 1868 Codd/Internal glass marble (1) 1872 - 1895 1884 Roorbach/Internal ceramic marble 1885 - 1895 1890 Wire bail or Lightning 1875 - 1895 1885 Hutchinson 1879 - 1895 1887 Crown 1892 - 1910 1901 Ground rim Bust and grind, bottles 1820 - 1870 1845 With screw threads, jars (1) 1858 - 1915 1887 Improved-Tooled Cork (1) 1875 - 1915 1895 Wire bail or Lightning 1875 - 1915 1895 Hutchinson (1) 1885 - 1915 1900 Crown 1905 - 1920 1913 Machine made, bottles Cork (1) 1903 - 1915 1909 Crown 1903 to present NA Wire bail or Lightning (1) 1903 to present NA Lug 1906 to present NA Screw threads - Nonstandardized 1903 - 1920 1912 Screw threads - Standardized (continuous thread) 1919 to present NA C. Glass Color and Surface Texture (Click on label to go to attribute description) Flint or lead (clear) (1) 1770 to present NA Black or opaque To 1870 NA Soda-lime (moderately clear) 1860 to present NA With purple, pink, or amethyst tint (1) 1880 - 1918 1899 With yellow tint 1915 to present NA Opal (white) glass lid seals (1) 1869 to present NA Surface texture Molded, hammered-metal effect (1) To 1870 NA Chilled iron mold, smooth surface 1870 to present NA D. Embossing and Labeling (Click on label to go to attribute description) Figural flasks (1, 2, 3) 1830 - 1875 1853 Gothic style embossing (1) 1830 - 1875 1853 Embossing on panels 1867 - 1915 1891 Slug plate (1, 2) 1850 - 1915 1883 Mason jars (1) 1858 to present NA Embossed: Poison or skull and cross-bones Post - 1870 NA Embossed: Federal law prohibits sale or reuse of this bottle 1932 - 1964 1948 Screen painted labeling 1935 to present NA Molding represents a major technological breakthrough in terms of labor efficiency and the uniformity of the product. Razvoj postopka je bil po možnosti začet kot stekleni pihalci, ki so eksperimentalizirali z plesni kot načinom izdelave posebnih površinskih učinkov na njihove posode. Na primer, z oblikovanjem vzorcev, je parison sprva oblikovan znotraj plesni, ki je bila oblikovana z diamanti, obrabi, Etc.. Mold would bring these models to the body of the vessel. Normally, the process was completed by removing the parisona from the mold and blowing and rotating in off-hand mode until they reached the desired shape and size. The second step in the transition to the mold involved the use of what are known as dip mold. In this case, the size and shape of the parisona was complete when it was removed from the mold. In round bottles, the mold was simply a cylinder, open at one end, inside which the glass blower blew out the bubble. This use of mold allowed for a new sampling style - embossed product names and logos. The third step in the transition to fully automated molding was the use of mold, which consists of several parts. This type of mold has always left ridges or shave glass, where sections of mold have merged. The number of sections and their configuration have determined the location of these lines. An exception to this rule is pasting or casting. In this case, after the parison mold was, it caught fire and shred. While the technology was aimed at removing mold markings, horizontal lines will appear in the body of the vessel as a result of turning. All three transitional steps to complete automation required the vessels' lips to be completed manually or with special tools. This included the heating of the open area. Therefore, bottles and jars produced by any of these techniques never display traces of mold outside the neck of the vessel. The general rule of thumb is that the farther through the neck of the vessel the mold marks spread, the more recent its production is. In 1903, Michael Owens invented a fully automatic filling machine. It quickly dominated the industry. With him, the whole bottle was in the mold. The dance marks extend all along the side of the body and neck and on to the lip. The machine left a circular mark on the pedestal of the vessel called Owens Scar (1, 2). The edge of the brand is sometimes quite incorrect. Some manufacturers have come to camouflage the ring with reinforcement or make B. Finish Finish refers to how the mouth of the vessel is completed. Before the introduction of the automatic bottling machine, this required one or more separate production steps. At least seven different techniques can be distinguished: fire polished, end-to-ring, simply shaped, applied-tool, earth rim, improved tool and machine made. The fire-polished finish simply involved burning the mouth of the bottle and smoothing the lips. A technique was placed on the ring, in which a cord of glass was wrapped around the mouth of the bottle. A simple design finish required the opening to restart and then create either a face-to-face or flange. The method used included 2) glass. The fines were designed with tools and it was on the twisted neck of the bottle. An examination of the vessel's throat will usually reveal a shav where two pieces of glass have been combined or driven. The ground rim process consisted of the cooling of the container and the mechanical grinding of the surface of the lips reaching the required balance or square. Sanding has resulted in a matte texture for the floor surface. The improved process eliminated a separate step of adding and decolorating the glass. The lip and body of the container are all made of one piece and the target tool is employed, basically, for the finally treated surface of the lips. Finally, with machine-made vessels, the objective is achieved in the moulding process itself and thus unnecessary additional steps in the production process. The mold lines will expand and cross the lip of the vessel. Detailed discussions on the labels left by these procedures are available in Deiss (1981:21-24,49-51), McKearin and McKearin (1941:486) and Newman (1970:74). These same sources provide extensive information on the estimated thousands of types of bottle stoppers that were used when William Painter was issued a patent for leaking with a crown and cork in 1892. The dynamics of precise modification of the design of the stopper were required by strength, pourability, tightness of tightness and production economy. Only a few will be described in the current dicuse. These few left design elements or changes on the glass and are therefore potential markers of the horizon. Cork stoppers are common to all types of finished works. They represent a generic form of a clogged device. The inner neck was usually vertical, although sometimes there is a slightly oblique or V-shape. If the contents of the bottle were pressurized, like in champagne, beer, or soda, then the cork could fit on a bottle with a piece of wire. Normally, this would require the creation of a finish to provide some anchorage for the wire pusher. The applied cord of glass around the neck of champagne bottles is an example of such an anchor. The unusual form of clogging, which shows a different change in the throat of the container, involved the use of internal threads. As the label implies, they have even spread down the bottle's throat. The stopper was then wrapped in a bottle. Torchlater-style bottles (1, 2) are immediately identified as a stopper using an internal glass sphere or marble. The finish will always be used and robbed. The Codd bottle was filled in an inverted position so that, as soon as the filling stopped, the bullet sank to the bottom of the inverted bottle, sitting next to a rubber seal located inside the vessel's throat. This rubber seal was usually positioning in a distinctive lip or groove. Carbonation pressure in the bottle should marble in its seat. To open the bottle, it is necessary to press down. When the seal was broken, the marble sank and was trapped in an additional distinct structure of the glass of the neck, the door chamber. A lot of these bottles were kids trying to get marble. Many of the glass marble, which so often recovered archaeologically from their home sites, were thus protected. Ordinary ceramic marbles found in their home towns had their origins in bottles made on the basis of a patent from William L. Roorbach from 1885 (U.S. Patent and Trademark Office 1885:323.737). A wide range of coffee locks were employed to close bottles and glasses. The one who came to dominate the market in the latter part of the nineteenth century is a lightning stopper. In the vast majority of iterations, bail wires were simply attached to the ceiling of the bottle and gave no evidence of their use at the level of the glass. The exception included models that sewed up two holes or divots located on opposite sides of the top of the bottle. These shallow holes acted as an anchor and a turning point behind the stopper. Otherwise, unless the closure of the security is still attached to the vessel, they cannot be granted to this category. The vessel employs Hutchinson or simply Hutch, and the closure of the type represents another form that is often difficult for the archaeologist to deal with. Although it is quite common for household composition, the stopper will usually be separated from broken bottles. The swing itself was similar to a partially straightened paper clip, which had a rubber-attached disc attached to one end. The internal pressure created by beer or soda, with these closures being employed, would keep the rubber seal closed to the lip or the plantation inside the throat. When the bottle opened by pressing down on the closure, there would be a different pop or whistling. That's the foundation of American colloquialism, soda pop. At the level of the glass is the diagnostic inner lip or groove. Sometimes it is difficult to distinguish codd and apply, too Hutchinson bottles in the absence of codd door chambers. The corks, which have dominated the beverage bottle industry throughout the twentieth century, is the closing of the crown and cork. Crown stoppers are, of course, still in production, although cork seals have been replaced with plastic. C. Glass colour and surface texture Most of the bottles produced in the first half of the nineteenth century were colored glass. The colour usually came from natural impurities found in the sand from which the glass was made. Black or deep olive and brown are due to the presence of iron oxide. If he wanted to hide the contents of the bottle, say wine deposits, then it was natural However, clear glass became increasingly desirable as the century progressed. Flint glass, which uses lead as a means of clarification, was expensive and reserved only for the most desired libations and table storage. In 1860, the soda-lime formula became available, allowing cheap production of reasonably clear glass. Lead glass can be broken from soda-lime by apply a drop of hydrofluorohydrozonic acid to the object. If lead is present, the city will be black, if soda-lime is present, the city will become milky-white [Brown 1971:103]. (Author's note: Be careful with HF, but it's a very ugly thing.) A safer alternative involves using ultraviolet light: lead glass will appear blue-purple and soda-lime glass will emit green-yellow light. In 1880, manganese from German sources began to be used as a purulof agent in a court glass. However, in ultraviolet light, it was unacceptable and, as a result, changed the rest over time. Until 1915, selenium compounds were available for this same function. With the advent of World War I, English and American glassmakers switched exclusively to its use. Selenium on a glass glass glass furnace. In the 1870's opal glass began to be used to make mason-type jars. Patented by Lewis Boyd in 1869, it serves as a useful marker of the horizon on all farms in the mid-nineteenth century. Surface textures changed in the nineteenth century. Free hand-blown glass always has a smooth hard surface. For moldy glass, the surface texture is a function of the type of mold used. In 1870, chilled iron mold was introduced. It was able to produce a smooth surface. Previously, all fully moulded objects show a superficial appearance, described as hammer metal or whittled. D. Embossing and labeling Embossing can occur on all mold-manufactured products. Table 3 identifies separate and time-sensitive samples. Figural zucchini were popular half-pint, pint, and quart liquor containers from 1830 to 1875. They were embodied with a wide variety of shapes, the most common element of which was the eagle. Stars, shings, heads and faces, architectural elements and letters are also common. Embossing plates on their own bottles achieved much greater economics by introducing a slab of mold or snail plate (1, 2) in the 1850s (Newman 1970:74). Found with rounded or rectangular ignition surrounding embossing, it allowed an explosion in the embossed marking, which is characterized by the folly of patent medicines (1860 to 1906). Its own container, important for the investigation of the nineteenth and twentieth century farms, was a container patented in 1858 by John Mason (Lorrain 1968:40). All these places will bring mason jars and their zinc lids. Until 1870, the Common Industrial Convention for Bottles of Toxic in order to poison or skull and cross bones. The commercial interests of U.S. bottle manufacturers received some protection between 1932 and 1964 with a requirement under federal law requiring... Message. Tagging has been achieved in various ways, except embossing. Burning, eating or glass apial were early treatments. Paper labels became common until the mid-nineteenth century. Screen image was also used after 1935. Table cabinets in the form of compressed glass are of interest to the archaeologist. Compressed glass was found in most homes after 1845 (Lorrain 1968:38). The compression machine was patented in 1827 and has surged the production of large quantities of attractive and relatively cheap table cabinets. Its distinctive features are smooth interiors and an exterior with boldly enthusiastic designs. The pressing machines employed three or four pieces of mold. Seam scars are present. Tightly wrapped rims in the early parts will show outcasts along the outer edge of the lip. Before the 1850s, the common terms were lacy patterns. The screen has boring external surface ends with design backgrounds or hard-face design elements (1) or formatting (1). Faces and accessories worked to reflect light and brighten or more reflect the glass. Some of the paintings of the hollow warehouse from this period will show the pontile marking floors off and polished. After 1850, the surfaces of compressed glass were polished with fire, thus eliminating the need for hesitation (1). Another interesting form of table cabinet was Depression Glass. Colour red, green, yellow and blue and in different pastel shades (1) the dishes were cheap and extensive. There was higher production between 1920 and 1940. The back row of the table cabinet is known as Carnival Glass. The compressed glass container was given a coating of semi-transparent, metallic paint. The common design was like bowls or serving pieces. Like Depression Glass, it was cheap and widely ingested. There was a higher production between 1900 and 1940 (Deiss 1981:86). A window or flat glass is one of the most frequently run-in types of glass in the locations of residential structures. In 1800, flat glass was created by three methods: crown, cylinder and casting (Lorrain 1968:37). The crowning technique, which involved rotating the metal bubble at the end of the pontiff, allowing the disc to cool down, and then cutting out the panes, before the dates of 1820. Its highly variable thickness and curved distorted lines are diagnostic. The cylinder method lasts until 1920. With it, the bubble was made into a cylinder with a swing. After removing the ends and cutting the bubble longitudin, the glass soaded until it disintegrated like a sheet of glass. The thickness is much more uniform than crown glass and has straight distorting lines. Casting was achieved by the outflow of metal on the sand, covered where it has been rolled to the appropriate thickness. The pane was then minced and polished to achieve clarity. The glass thus produced is marked with a plate. Always expensive, it is important because of the lack of distortion and clarity. After 1903 and the invention of the cylinder window glass machine (Deiss 1981:84), higher quality and less expensive window glass became available. Complete automation of production was realized in 1917 by the permanent process of the sheet (Deiss 1981:85). Production of the deadlines ended until 1920. While several technologies leak different production indices, the small size of sherds usually recovers from archaeological sites make it difficult to assign species. Glass has many applications other than the applications we discussed. One of the useful horizon endorsements that often meet in the field of study are kerosene lamps and chimney lamps (1). They are common after 1860. Milk bottles (1) appear in the 1880s. Edison's first hand of blown-up light bulbs began production in 1879. Finally, until the completion of the nineteenth century glass buttons, they are the dominant device for closing fabrics. III. STRUCTURAL MATERIALS Excellent discussions on the engineering and design elements of residential construction from the late eighteen to early twentieth centuries can be found in Elbert and Sculle (1982), Koos (1986) and Mansberger (1981). Two classes of structural artifacts, which are not exactly glass, have some usefulness on dating sites. These are nails and bricks. Wood was the preferred material for residential construction throughout the upper Sangamon Basin during the historic period. The most expensive construction was, of course, with the staff and hand-held elements (Elbert and Sculle 1982). An interesting late example (1848-1850) was Oyer's cabin, divided in 1994. Reflecting the board's house design, the interior walls consisted of solid white oak wood, which were soothed both on internal and external exposures. Angles were composite dovetail techniques and fastening for structural or bearing elements were tree nails (wood doweling). The inner beard material included a plaster to which the hair (likely horse) was added. Although the Oyer cottage was built of solid wood, sawn wood saws were generally available after the 1840s. Metal fasteners were often employed when used. Three types of nails, each with modifications, are recovered. The most used guy was hand-fors fersovaded. Among the characteristics were nailed surface texture, irregular head formation and bar with four-sided tape (1) (Nelson 1968). Because they were expensive and hard to procure, they remained relatively low in the region. Nevertheless, their superior clinical ability made them useful for pruning and closets where they were employed until the end of the nineteenth century. Another type of nail, mechanical incision, reflects the type of between 1790 and 1830. During this time, the nail machine was introduced and production industrialized. After 1830s machine-made nails became widely available throughout the area. Visible changes in production are defined in Table 4. Table 4. Technological attributes of machine-cut nails and their associated production periods. (1) Cut from the same side and hammer head Date: 1790 to 1825 (2) cut from opposite sides and hammer head Date: 1810 to 1825 (3) cut from the same side and with raw, Mašin-engraved head Date: 1815 to 1835 (4) cut from opposite sides i with raw machine-engraved heads Date: 1825 to 1835 (5) cut from opposite sides i with unpeitted machine exuding heads Date: 1825 to 1835 (5) cut from opposite sides i with unappoped machine exuct heads Date date: 1825 to 1835 (5) cut from opposite sides i with unappoped machine exuding heads Date: 1825 to 1835 (5) cut from opposite sides i with unaled machine exuding heads Date: 1825 to 1835 (5) cut from opposite sides i with unamed machine exuned heads Date: 1825 to 1835 (5) cut from opposite sides i with unrefilled machine ized heads Date: 1825 to 1835 (5) : 1825 to 1835 (5) cut from opposite sides i from u over 1840 to the present 1830 Before 1830, iron fibers in the nail glass perpendicular to the cottage. After that time, they ran parallel to the longitudinal axis. Machine incision nails are typical of the nineteenth century construction. Those produced after the 1830s are not clearer than those made today. The back type of nail is machined from wire. Wire nails were first made in the 1850's, but became the dominant variety in the 1890's (Mansberger 1981:91). Early shapes were usually small with light bulbs and eccentric bar. Brick production in the upper valley starts around the same time as sawn wood. There are three distinct horizons: manually punched, pressed and exihxed. The arm struck the most like, dating from the 1830s to the 1860s. Often produced very close or on construction site (Mansberger 1981:69), the brick was expensive and poor and uncertain quality. Using surface clay and open, five-sided mold, the clay was watered down and hand blown away. Surface clay often contained rocks up to the size of pebbles. The astonishing operation left the linear lanes on one side. Poorly controlled shooting in the clamps made light, porous bodies yellow and orange. The bricks that were baked closest to the fire were often glazed with sand that was dusted on the inside of the mold or burnt. Those who were furthest from the fire were often soft enough to be scratched with their fingernails. The applications were very specialized and limited to such things as fireplaces and submissable tanks. Ing stones in the form of glaciers, rather than bricks, were in the 1850s-had employees as piers for the base of the attic. The compressed brick was available after 1860. The subject of local industries, clay was pressed into mold, which created six smooth sides. The quality has been greatly improved. A more selective choice of clay and better treatment increased the uniformity of the size of the clay particles. Compression has increased the compactness of the body. Better shooting control allowed for the manufacture of hard, uniformly dark red bricks. While it enjoyed greater architectural use than the previous type, pressed brick extensively exploited in residential construction until the 1880s (Koos 1986:9). By the 1890s, the employees were the employees. The example of a regional manufacturer using a knittedand name is Danville Block Company. In the 1890s, she supplied brick for mahomet. The exuted shape of bricks is occasional. It uses the same production technology as field tiles. The field tile was a common local industrial term in many communities in the study area given the importance of the tile for draining the vast marsh, called the Great Grass. The quality of the bricks was not good. The recovered cases point to a lack of compactness of bricks and shooting at a relatively low temperature. The excited brick will show the line at each end from the passage through the nozzle of the existed device, as well as the cutting marks. This was possibly a less expensive and locally available masonry product. 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