described in the descriptions of pottery types in the following section. tion and by surface collections. It raises certain questions and problems which can be attacked in our future work. Most of these problems will be

information treated in terms of wares, rather than types. Fig. 17 is a seriation chart similar to Fig. 16, but it contains the same

excavation work will no doubt help solve this problem. been abandoned by earlier prehistoric Monongahela inhabitants. Future period because of the presence of plain and incised types. Since the other County, Pa., for instance (36Gr1), shows up in the Middle Monongahela that 36Grl was reoccupied by the historic group some years after it had fits in at the proper place at the top of the chart, our only explanation is ation of these charts. One of the Historic Monongahela sites, in Greene Historic Monongahela site from which we have an adequate ceramic sample, There are several problems which are apparent from a careful examin-

of the site. charts), but our surface sample has in most cases dated the latest occupation (although the obviously stratified sites have not been included on the Several sites appear to be multi-component sites and possibly stratified

of ceramic development; the type chart is better for assigning relative dates nearly accurate one. The ware chart is useful for an overall or broad picture dating, but that the type chart is the more sensitive and presumably more There is finally the question of the relationship between the ware chart and the type chart. It appears that both are rather crude tools for relative to sites and for understanding the detailed pottery developments.

#### POTTERY TYPES

These are listed in Table 6 with the quantities involved. correlated, we were left with 50 recognizable variations in ceramic style. After all the Survey collection had been sorted, and rim and body sherds

remaining types were then plotted and form the basis for the present seria-These types were therefore lumped with the most similar variety. The to be distinctive, did not have a significant spatial or temporal distribution. tion chart and the following definitions of types. This trial showed that certain tentative types, even though they appeared the 18 tentative pottery types which were tested on the first seriation chart. the seriation chart, many of these groups were lumped together to form Largely on the basis of size of sample, but also because of behavior on

#### "Half-Moon Cordmarked" (Plates 109-110)

Temper. Coarsely crushed fragments of rock predominantly Method of manufacture. Coiled. Malleated with a cordwrapped paddle. other igneous rock, but with chert and limestone used in certain in maximum dimension, make up from 50 to 80 per cent. of the varieties of this type. Temper fragments, often large, up to 10 mm. granite or

	1955
TABLE 6. RECOGNIZABLE VARIATIONS IN POTTERY	MAYER-OAKES: PREHISTORY OF THE UPPER OHIO VALLEY
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# TABLE 6. (Continued)

œ	8. Medium grit-tempered (Continued)	
	g. plain	133
9.	Fine grit-tempered	
	a. cordmarked	102
	b. net-impressed	2
	c. punctate and incised	-
	d. plain	10
10.	10. Iroquois gritty paste	
	a. cordmarked	40
	b. plain	36 36
	c. incised	12

. Limestone and shell-tempered a. cordmarked b. plain
---

- 4

		plain
npered	cordmarked	lain
Shell-tempered	a.	þ.
12.		

15,207 5,025 619

ç	t. simple-stamped	
48	f. simple-stamped	
126	e. punctate	
2	d. curvilinear incised	
619	c. rectilinear incised	

a. "Scarem Plain"

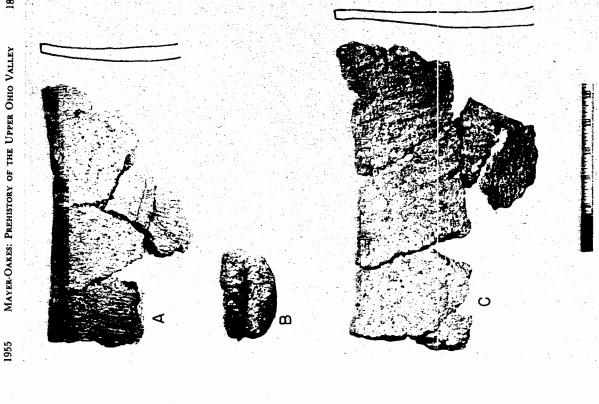
13.

79

other a. steatite-tempered b. sandy paste c. thin chert-tempered
--

Plate 109. "Half-Moon Cordmarked" potsherds in the Carnegie Museum collection

A, Rim exterior showing nearly vertical cordmarking. B, Oval lug and vessel wall. C, Rim interior showing impressions of a plain plaited fabric ("Legionville Fabric-impressed" variety).



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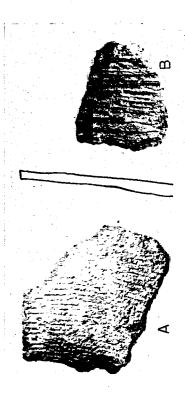




Plate 110. "Half-Moon Cordmarked" potsherds in Carnegie Museum collection

marking. B, Interior striated sherd ("Bolinger Striated" variety). C, Conical base. D, Flat disk base. A, Rim with vertical exterior cordmarking and horizontal interior cord-

MAYER-OAKES: PREHISTORY OF THE UPPER OHIO VALLEY

Texture. Contorted and irregular with tendency to break into jaggededge pieces if not along a coil break.

Hardness. Surface hardness from 2.0 to 3.5; interior often softer.

Color. Both surfaces and core tan to buff colored. The fabric-impressed and interior-striated varieties more likely to be gray.

marking running horizontally is common and plain plaited fabric or other sections of the vessel. Cordmarking is often deep and roughly applied so that the surface is very irregular and cord impressions are Surface finish. Interior surfaces are predominantly smoothed. Interior cordtrailed comb impressions are also known to occur. Exterior cordmarking is vertical near the rim but likely to be applied in various directions on indistinct.

Decoration. Practically none; two sherds with incised lines.

Rim. Straight.

Neck. Straight.

Lip. Square to slightly pointed.

Body. Elongated globular with constricted basal portion.

Base. Flat circular disk four to six inches in diameter. One conical base known.

Thickness. From 10 to 20 mm., averaging about 14 mm.

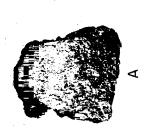
Appendages. Oval or mammiform lugs known to occur on some vessels. Diagnostic features. Paste, surface finish, rim form, thickness, base.

Beaver valleys. But the concentration appears to be in the area from Geographic range. This type is concentrated in the Ohio Valley proper. A few examples come from the Monongahela, the lower Allegheny and the Pittsburgh down. It is especially well known from sites in the northern West Virginia panhandle.

Probable relationships. This type is the basic Early Woodland pottery in Moon ware (Fetzer and Mayer-Oakes, 1951). It is definitely associated occupied by the builders of these mounds. The evidence from the Georgetown site places this type at the bottom of the pottery sequence cordmarked sherds look very much like Vinette I defined by Ritchie and 1951) types but the type "Fayette Thick" described by Griffin (1943b) is the Upper Ohio Valley and the most common member of the Halfwith Adena burial mounds and village sites which were probably and it may well be the earliest pottery in the area. Some of the interior MacNeish (1949), but are generally less well made. There are specific similarities to both Baumer (Cole, 1951) and Crab Orchard (Maxwell, apparently most similar to "Haif-Moon Cordmarked." The factor of thickness is not so constant in the Half-Moon type but it apparently agrees in most other characteristics. In general characteristics of form, this type is similar to the steatite-tempered pottery from Marcey Creek and Selden Island described by Manson (1948) and Slattery (1946).

Size of sample. 1012 sherds including the tentative types "Bolinger Striated" and "Legionville Fabric-impressed". References. Cole (1951). Fetzer and Mayer-Oakes (1951). Griffin (1948b). Manson (1948). Maxwell (1951). Ritchie and MacNeish (1949). Slattery (1946).

"McKees Rocks Plain" (Plate 111)





# 

Plate 111. "McKees Rocks Plain" potsherds in Carnegie Museum collection A, Body sherd. B, Sherd showing portion of flat base.

Method of manufacture. Unknown. No coil breaks observed.

Temper. Coarsely crushed fragments of rock, predominantly a coarse-Temper fragments often large, up to 10 mm. in maximum dimension, grained gray chert but sometimes granite or other igneous rock. make up from 40 to 70 per cent. of the paste.

Texture. Contorted and irregular but more compact than that of "Half-Moon Cordmarked". Breaks into jagged-edge pieces.

Hardness. Surface hardness from 3.0 to 4.0; interior only slightly softer. Color. Both surfaces gray to gray-buff colored; core often darker.

Surface finish. Both interior and exterior surfaces smoothed and consequently plain. Irregularities in the paste leave a few depressions in the surface but no evidence of a smoothing tool can be seen from the

Decoration. One example of a broad-trailed line in the neck area.

Rim. Straight with some sherds showing slight flare outward. Neck. Straight.

Lip. Square to slightly rounded.

Body. Elongated globular(?) with constricted basal portion.

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Base. Flat circular disk about ten centimeters in diameter.

Thickness. Varies from 8 to 14 mm., averaging about 12 mm.

Diagnostic features. Paste and surface finish; base. Appendages. Unknown.

Geographic range. Not yet well known. Apparently occurs as minority with "Half-Moon Cordmarked," on sites in the Ohio Valley below Pittsburgh. More than half of the sample comes from what may have been a complete vessel found in the 1896 excavation of McKees Rocks mound by Carnegie Museum.

Probable relationships. This type appears to be a late companion to the It is found on Early Woodland village sites and with what may be a late Adena complex at the type site. The pottery is most similar to the type "Adena Plain" discussed by Haag (1940) and Griffin (1942, 1945). basic Early Woodland cordmarked pottery in the Upper Ohio Valley. Size of Sample. 174 sherds.

References. Griffin (1942, 1945). Haag (1940).

"Mahoning Cordmarked" (Plate 112)





Plate 112. "Mahoning Cordmarked," "Mahoning Plain" and "Mahoning Incised" potsherds in Carnegie Museum collection

Method of manufacture. Coiled. Malleated with a cordwrapped paddle. Temper. Crushed fragments of rock, predominantly granite or other igneous rock and sometimes quartz. Temper fragments are moderate in size, averaging about four millimeters in maximum dimension and make up from 30 to 60 per cent. of the paste. The fine grit-tempered category appears to be a variant of this type.

Texture. Rather regular and compact, although in the thicker and more heavily tempered sherds the paste is contorted and irregular. Breaks are fairly regular, often along a coil line. vol. 34

Hardness. Surface hardness ranges from 2.5 to 3.5; core slightly softer.

Color. Both surfaces and core range from black and gray to tan with most

of the sherds being the darker colors.

paddle mark. A few sherds have carefully applied cordmarking on both most cases the cordwrapped paddle has not been carefully applied but interior and exterior surfaces-impressions are vertical on the exterior and horizontal on the interior. Three examples of fabric impressing Surface finish. Exterior surface is characteristically cordmarked, vertically near the rim but in various directions on other parts of the vessel. In was slightly dragged over the plastic surface or applied over a previous were noted and one additional specimen exhibited stamping done with a cordwrapped stick.

Decoration. Confined to the lip area where notching or impressing with the edge of a cordwrapped paddle is common. One body sherd exhibits shallow punctates.

Rim. Slightly flared, occasionally folded over to make a collar.

Neck. Slightly constricted.

Lip. Square to slightly rounded.

Body. Unknown, but probably elongated globular.

Base. Unknown, probably rounded.

Thickness. Varies from 8 to 10 mm., averaging about 7 mm.

Appendages. Unknown.

Diagnostic features. Paste, especially temper characteristics and surface

Geographic range. Concentrated in the Beaver River drainage, especially in the Mahoning River Valley, but occurs in small numbers on sites in the

a wide range of cultural and temporal differences. It is probably the marked" and as such is not particularly distinctive. There are definite similarities in some of the "Mahoning Cordmarked" sherds to the earlier "Half-Moon Cordmarked" and even greater similarities in form and decoration to the shell-tempered "Monongahela Cordmarked". The type is similar to the sherds described as Hopewellian (Mayer-Oakes, n.d.a) from the Marietta, Ohio, area, but is different in feel, and definitely does not have the distinctive stamped decoration technique. Ohio River Valley proper and the Allegheny Valley. Probable relationships. This type is rather amorphous and appears to cover local representative of what Griffin (n.d.) has called "Woodland Cord-

Size of sample, 1103 sherds, including the fabric impressed, cordwrapped

References. Griffin (n.d.). Mayer-Oakes (n.d.a). stick-stamped and punctate varieties.

#### "Mahoning Plain" (Plate 112)

Paste. Same as "Mahoning Cordmarked".

Surface finish. Usually well smoothed on both interior and exterior with occasional evidence of the use of a smoothing tool.

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Decoration. None.

Rim. Slightly flared.

Neck. Slightly constricted.

Lip. Flattened, often L shaped with interior or exterior overhang. Body. Unknown.

Thickness. Varies from 4 to 10 mm., averaging about 7 mm. Base. Unknown.

Diagnostic features. Paste and surface finish.

Appendages. Unknown.

Geographic range. Same as "Mahoning Cordmarked".

or Hopewellian in other artifact traits (Mayer-Oakes, 1953a, p. 120) and is almost identical with the plain sherds from Marietta, Ohio (Mayer-Probable relationships. Seems to occur on sites which are Middle Woodland Oakes, n.d.a).

Size of sample. 143 sherds.

References. Mayer-Oakes (1953a). Mayer-Oakes (n.d.a).

#### "Mahoning Incised" (Plate 112)

A tentative type similar in most ways to "Mahoning Plain" but decorated with incised parallel straight lines. Two of the 12 sherds in the sample show that the surface was marked with a cordwrapped paddle which was smoothed over before incising.

# "Watson Cordmarked"



Plate 113. "Watson Cordmarked" sherds in Carnegie Museum collection

Method of manufacture. Coiled. Malleated with a cordwrapped paddle.

Temper. Crushed fragments of limestone which have a tendency to leach out in acid soil leaving angular holes in the paste. Temper fragments vary in size up to about eight millimeters in maximum dimension, and make up from 20 to 50 per cent. of the paste.

Texture. Compact but somewhat contorted and irregular because of shape of the limestone inclusions. Tends to break with a rough edge but sometimes along a coil line.

Hardness. Surface hardness ranges from 2.5 to 4.0 with most of the sherds between 3.0 and 3.5. Core is often softer.

Color. Both surfaces are uniformly a drab yellow-gray or tan with only slight variation. Core is slightly darker.

fingers. Exteriors are commonly rather deeply imprinted with the mark of the cordwrapped paddle which has been applied vertically from the Surface finish. Interior surfaces are smoothed, often poorly done with the lip down almost to the base. Decoration. Confined to the lip which is cordmarked, transversely incised or impressed with the edge of the cordwrapped paddle.

Rim. Straight, a few slightly everted, rarely a slight collar. Neck. Straight, a few slightly constricted.

Lip. Square to slightly flattened.

Body. Elongated globular.

Thickness. Varies from 5 to 15 mm., averages about 7 mm. Base. Rounded ?

Appendages, Unknown.

but is known to occur sparsely in the Monongahela Valley and on late have been found in the lower Allegheny Valley and at one site on the Geographical range. This type is concentrated in the Ohio Valley proper sites reported from the upper Youghiogheny Valley. Scattered examples Mahoning River. It is known to occur in the Marietta, Ohio, area Diagnostic features. Paste, surface finish, rim form, color. (Maver-Oakes, n.d.a).

Probable relationships. This pottery type appears as a homogeneous unit with some indication of typological overlap with earlier Half-Moon types and later Monongahela types. It is definitely post-Adena as (Fetzer and Mayer-Oakes, 1951) and is placed between Half-Moon and town and Watson sites. It is possible that this type is the basic utilitarian Monongahela types in the stratified sequence recovered from the George-Middle Woodland pottery for the area. It is quite similar to some of the limestone-tempered pottery mentioned by Griffin (1945, p. 240-243) from Ohio Hopewell sites. If this is so, the typological evidence for development, the stratified evidence from the Georgetown and Watson sites, and the seriation study all indicate a continuity in ceramics from an Adena stage through Hopewell and on into the final Mississippi evidenced by its presence in pits which are intrusive into Adena mounds

MAYER-OAKES: PREHISTORY OF THE UPPER OHIO VALLEY 1955 The type "Page Cordmarked" (Manson, MacCord and Griffin, 1943)

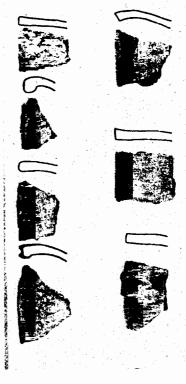
is probably a late derivative of this type.

Limestone-tempered pottery characterizes the intermediate ceramic periods in several southern areas (Griffin, 1989; Haag, 1942; Heimlich, 1952; and Lewis and Kneberg, 1946) but the relationship of this material to the Watson ware has yet to be determined.

Size of sample. 2597 sherds.

Haag (1942). Heimlich (1952). Lewis and Kneberg (1946). Manson, MacCord and Griffin (1943). Mayer-Oakes (n.d.a). Mayer-Oakes (n.d.d). References. Fetzer and Mayer-Oakes (1951). Griffin (1989). Griffin (1945).

"Watson Plain" (Plate 114)



# 

Paste. Same as "Watson Cordmarked". Surface finish. Smoothed.

Plate 114. "Watson Plain" sherds in Carnegie Museum collection

Decoration. Various appendages applied to the lip. Form

Rim. Moderately to sharply everted.

Lip. Flattened and square to rounded. Neck. Moderately constricted.

Body. Elongated globular.

Base. Rounded: one small flat disk base known.

Thickness. Varies from 4 to 12 mm., averaging about 6 mm.

Appendages. Loop handles, mammiform and spout-like lugs, and castellations are the rare forms which appear on this type.

Diagnostic features. Paste, surface finish, appendages.

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Geographic range. At present known from the northern West Virginia

Panhandle area and the upper Youghiogheny area.

Probable relationships. The simple forms of this type are indistinguishable with appendages are identical with "Monongahela Plain" except for the difference in temper. This has been noted at the Speidel site (Mayer-Oakes, n.d.d) and has been interpreted as signifying the impact of a new shell-tempered pottery style on the old limestone-tempered style. from the plain limestone-tempered pottery from the Tremper site now stored at the Ohio State Museum. The thinner sherds and everted rims

References. Mayer-Oakes (n.d.d). Size of sample. 475 sherds.

### "Watson Incised"

parallel rectilinear elements. Several sherds with incised-over-cordmarked surface have been noted, but they are in the minority. This type is identical In most cases identical with "Watson Plain" except for the addition of incised lines varying in width from 1 to 5 mm. Patterns usually consist of with "Monongahela Incised" except for the difference in tempering material.

#### "Yock Punctate"

A tentative type included on the seriation chart since it appears to have a significant distribution. It is as yet little known. The pottery is essentially "Watson Plain," decorated with punctations, but it is recorded only from the upper Youghiogheny Valley.

#### "Monongahela Cordmarked" (Plate 115)

Method of manufacture. Coiled. Malleated with a cordwrapped paddle.

Temper. Moderate to finely crushed shell particles under 2 mm. in diameter composing 10 to 30 per cent. of the paste.

Texture. Finely laminated, parallel to vessel walls

Color. Surfaces are predominantly dark, but exteriors range from buff to black. Core is usually black; majority of inner surfaces gray to black. Surface finish. Interior surfaces are usually well smoothed. Exterior surfaces have been roughened by the impressions of a cordwrapped paddle; these impressions are partly obliterated on 30 to 50 per cent, of the sherds. On about 90 per cent. of the sherds, the impressions meet the lip at an Hardness. 2.5 to 3.5.

Decoration. Confined to the lip and adjacent lower rim area. Lips are incised transversely or obliquely, or indented with the edge of the cordwrapped paddle or in some cases, a cordwrapped stick. Some lips also show cordmarking or punctation, with infrequent addition of pointed or rounded castellations. oblique angle.

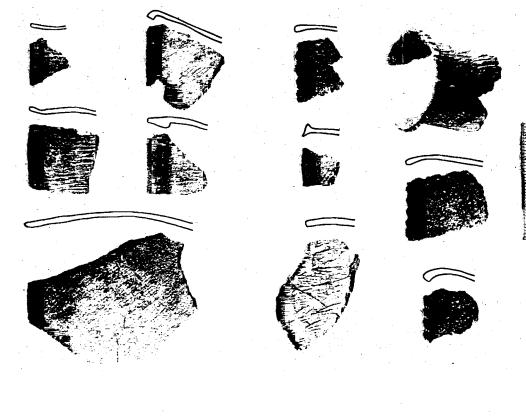


Plate 115. "Monongahela Cordmarked" sherds in Carnegie Museum collection

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Rim. Straight to slightly outflaring. Neck. Slightly constricted.

Body. Elongated globular jar; bowl forms also known, but rare. Lip. Square to rounded; sometimes flattened or beveled.

Base. Rounded.

Thickness. Ranges from 5 to 9 mm.

Appendages. Lugs and strap or loop handles are rare.

Diagnostic features. Paste, surface finish, rim form.

upper reaches; Ohio Valley proper (with outliers in the Shenango the Fort Ancient type, "Clover Cordmarked". There are peripheral sites Geographical range. Entire Monongahela drainage, except extreme upper reaches in West Virginia; lower Allegheny Valley, with outliers in the Valley) down to the Marietta, Ohio, area where the type overlaps with in the upper Potomac drainage, where Griffin has defined "Keyser Cordmarked," a geographic variant of this type.

shell tempered type in the Upper Ohio Valley. It is the most common member of the "Monyock" ware and apparently covers the longest span to early Fort Ancient types such as "Baum Cordmarked". The latest influences on this type appear to come from two different directions-the Probable relationships. This pottery type is the basic and most common of occupation of any member of this ware. What are thought to be the earliest forms of this type show some similarities to the simple "Woodland Cordmarked" which is known to be present in Middle Woodland times. More specific shape, texture, and surface treatment similarities tie this type to the "Watson Cordmarked" type. Closest similarities are Iroquois area via the Susquehanna and Potomac drainages and the eastern Fort Ancient area via the Clover complex and the Ohio Valley.

References. Butler (1939, 1947). Cresson (n.d.). Engberg (1930, 1931). Manson, MacCord and Griffin (1943). Mayer-Oakes (n.d.e). Size of sample. 15,207 sherds.

# "Monongahela Plain"

(Plate 116)

Paste. Same as "Monongahela Cordmarked".

Surface sinish. Both exterior and interior have been smoothed to a plain

surface.

incising on the lip and the addition of castellations, spout-like lip Decoration. Confined to the lip and rim area and consisting of longitudinal notches and mammiform lugs.

Rim. Moderately to sharply everted.

Lip. Square; sometimes rounded. Neck. Moderately constricted.

Body. Elongated globular jar, sometimes with slightly carinated shoulder; water bottle and shallow bowl forms are known.

Base. Rounded.

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**电子通常线路 经国际运用工程的支机工程的支机工程的 化力水线 人名马拉克 是的复数形式** 

Plate 116. "Monongahela Plain" sherds in Carnegie Museum collection Thickness. Ranges from 4 to 8 mm.

Appendages. Pointed or rounded castellations, lip notches, rounded or mammiform lugs.

Diagnostic features. Paste, surface finish, rim forms, appendages.

the northern West Virginia Panhandle and the middle Monongahela Geographical range. This type appears to be concentrated in two areas-

stone tempered "Watson Plain" sherds. It appears to be the local representative of the widespread "Mississippi Plain" but has a definite Probable relationships. This pottery type is one of the most puzzling of all period according to the seriation study and is very similar to the limelocal flavor which is hest expressed in shape of vessels. A few vessels Plates 60, "A" and 61, "A") do appear to be copies of "Middle Missisdiscussed in this report. It is most popular early in the Monongahela sippi" pots but these items are quite rare.

Size of sample. 5025 sherds.

References. Mayer-Oakes (n.d.d).

#### "Monongahela Incised" (Plate 117)

sherds listed in Table 6 fit together to make a portion of a curvilinear Identical with "Monongahela Plain" except for the addition of incised lines which vary in width from 1 to 10 mm. Patterns usually consist of parallel lines which are always rectilinear. (The two curvilinear incised guilloche design and they probably represent a Fort Ancient trade pot from the central Ohio Valley.) This type seems to be correlated in distribution

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Plate 117. "Monongahela Incised" sherds in Carnegie Museum collection

Incised" or "Anderson Incised". The type is similar to the tentative "McFate with "Monongahela Plain" and, like it, is quite different from most other shell-tempered pottery in the northeast. The incising technique is not very much like the Fort Ancient types but the narrow line incising is similar to "Feurt Incised" while the broader incising is more reminiscent of "Baum ncised," though the latter has incising characteristically applied over ordmarking.

# "Monongahela Punctate"

(Plate 118)

evidence that these punctates often accompany the incised decoration as a Identical with "Monongahela Plain" except for the presence of broad shallow punctates on the lower rim or possibly on the body. There is some bordering row. This type is a minor stylistic variation on the general plain

#### "Scarem Plain," (Plate 119)

Method of manufacture. Modeled (often crudely) from a single lump of

crushed shell; gritty hematite inclusions in the natural clay are often Temper. Rarely any. Some suggestion of very small amounts of finely apparent. Temper makes up from 0 to 15 per cent. of the paste.

Texture. Irregular and contorted. Hardness. 1.5 to 2.5.

MAYER-OAKES: PREHISTORY OF THE UPPER OHIO VALLEY 1955 Plate 118 "Monongahela Punctate" sherds in Carnegie Museum collection Color. Surfaces are predominantly light reddish brown; core is rarely

Surface finish. Interior surfaces are irregular, showing finger impressions. Exterior is fairly well smoothed with some examples showing horizontal roughening in the neck area.

Decoration. Confined to transverse indentations of the lip.

Rim. Moderately outflaring.

Neck. Moderate constriction in most cases.

Lip. Slightly pointed or beveled. Body. Small globular jar or bowl.

Base. Rounded.

Thickness. 2 to 5 mm.

Size of vessel. Height, 3 to 6 cm.; mouth diameter, 2 to 4 cm. Appendages. Unknown.

Diagnostic features. Paste, surface finish, size.

Probable relationships. This type seems to be related in its distribution to or so wide a geographic area. It is apparently made in imitation of these larger vessels. Very similar sherds, some of which have been appear on sites in the middle Monongahela Valley. These "Scarem "Monongahela Cordmarked" but may not cover so long a span of time marked with a cordwrapped paddle and are from slightly larger vessels. Plain" vessels perhaps represent items made by or for children as they Geographical range. Monongahela drainage and Raccoon Creek Valley. have been found associated with juvenile burials. 203

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## Tentative Types

the time being are considered variants of the pertinent Half-Moon ware types. The paste characteristics of these two types are the same and are the "Josephtown Cordmarked" and "Josephtown Plain" are recognizably different units of the Half-Moon ware which occur at only one site and for

distinctive feature which prompts their suggestion as separate types. "Legionville Fabric-impressed" is a variant of "Half-Moon Cordmarked" characterized by interior marking with a plain plaited fabric. It is restricted in distribution to the Legionville site, 36Bv32.

"Bolinger Striated" is a variant of "Half-Moon Cordmarked" characterized by interior roughening in parallel grooves or striations. It is restricted in distribution to the Bolinger site, 36Lr21.

tempered pottery type which occurs rarely in the Upper Ohio Valley and adjacent areas. Although Carnegie Museum's sample consists of only 48 "Wellsburg Simple Stamped" (Plate 120) is a very distinctive shell-

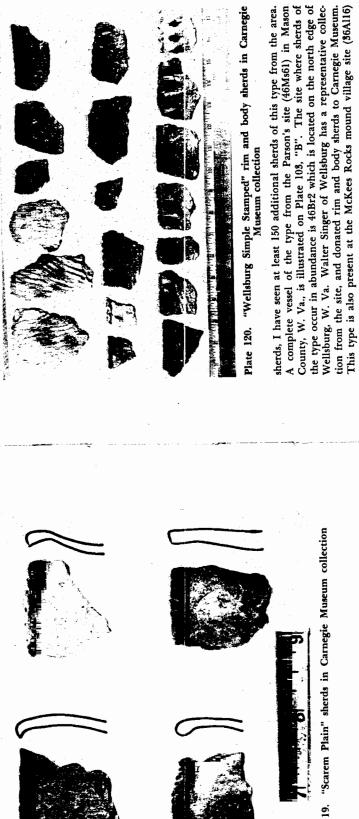


Plate 119, "Scarem Plain" sherds in Carnegie Museum collection

Museum collection

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but some of the typical rims, with pinched or filleted rimstrip added, have a cordmarked surface treatment instead of the simple stamping. Sherds which I have examined in the Ohio State Museum from several sites of the Whittlesey focus in northeastern Ohio are of this type, as are the materials from the Chautauqua County, N. Y. site mentioned above. The closest published type appears to be "Madisonville Grooved-Paddled" mentioned by Griffin (1943a, p. 349). The surface was roughened by paddling with a wooden paddle which had been grooved by carving, or wrapped with strips of thong. The technique was very much like cordmarking; in fact, the term "simple stamping" should logically include both media. Since cordmarking is firmly entrenched in the literature we will thus imply, by use of the term "simple stamp", only the grooved or thong-wrapped paddle method outlined

"McFate Incised" is a variety of the "Monyock" ware which occurs primarily in the upper Allegheny drainage and is best known from the McFate and Westfield sites. While the cordmarked, shell-tempered pottery at these sites can be described as "Monongahela Cordmarked", the incised material differs from "Monongahela Incised" in the overall surface treatment. In the latter, the design is placed on a smoothed plain surface while at McFate and Westfield the design is most often placed over a cordmarked surface. This is the primary difference between the two incised types but differences in motif are discernible, and can be demonstrated in future studies.

# MAYER-OAKES: PREHISTORY OF THE UPPER OHIO VALLEY

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# Interpretive summary

In the preceding sections we have presented the basic description and interpretation essential to an understanding of the present data for Upper Ohio archeology. (Similar descriptive summaries of lesser scope have been prepared as term papers by Hayes, n.d.a and n.d.b.) In this last section we draw the main threads of these data together for the entire area with emphasis on interpretation and significance of the observed facts.

# EARLY HUNTER EPOCH

This first unit of time for which we have any direct evidence is the longest but least known of all. While it is entirely possible that men were living in the New World prior to the end of the latest glacial advance (Krieger, 1958) there is as yet no evidence for this from the Upper Ohio Valley.

The understanding of the archeology of this epoch in the eastern United States has been greatly advanced by the recent publication of several site reports—Byers (1954), McCary (1951), Ritchie (1953) and Witthoft (1952a). Although it is as yet possible to date this material only by technological and typological factors, the similarities to various definitely early units indicate that it is only a matter of time before stratigraphic, paleontological, geological or carbon-14 dates will confirm the existence of Paleo-Indian hunters in the east during the period 8000-6000 B.C. The major types of artifacts which represent this epoch in the eastern United States are shown in the summary drawings, Fig. 18. All but the fluted point are adapted from drawings by Witthoft.

Our study of this epoch has been restricted to a recording of the distribution of the fluted points. This information has been included in the present paper and will provide the hasis for future studies of the Paleo-Indian in the Upper Ohio Valley. It represents the major evidence for the early hunters who were probably the first humans in the area. Fluted projectile points from the area appear to be concentrated in the Allegheny Valley but this concentration may be more apparent than real.

In conjunction with our study of distribution of fluted points, we have recorded certain sites and areas (particularly in the Mahoning and Shenango basins) which produce scrapers and lanceolate points, which are similar to late Paleo-Indian lithic complexes in the mid-west. My suggestion is that these materials correspond to what has been called "Yuma" in the west and represent, for the Upper Ohio Valley, a step between the fluted point complex and the early Archaic shell-heap units.